LONGTOM-4
LONGTOM-4 P
LONGTOM-4 H

WELL COMPLETION REPORT
BASIC DATA

VIC/L29
Gippsland Basin
Victoria, Australia

Nexus Energy Ltd

2008

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LOCATION:	Survey:		PERMIT:	VIC/L29	
	Line:	3768	BASIN:	Gippsland	
	Xline:	8964			
	Offset:		PARTICIPANTS:	Nexus Energy (Op) 100%	
SURFACE HOLE	Latitude:	38 06' 17.707"S	WELL DESIGNATION:	Appraisal	
LOCATION:	Longitude:	148° 19' 59.94"E	STATUS:	Suspended	
	Easting:	616,897.31mE	STRUCTURE TYPE:	Horst block	
	Northing:	5,781,704.5mN			
	Datum:	GDA94	RIG NAME AND TYPE:	West Triton Jack Up	
	Spheroid:	GRS1980	RIG CONTRACTOR:	Atlas Drilling	
	Projection:	UTM Zone 51 (Central Meridian 123˚E)			

BOTTOM HOLE LOCATIONS:						
LONGTOM-4 H	Latitude:	38 07' 49.05" S		LONGTOM-4 P		
	Longitude:	148° 19' 51.82"E		Relative to surface location:	N/S LINE:	-1153.12 m
	Easting:	616,658.87 mE			E/W LINE:	-73.76 m
	Northing:	5,778,891.91 mN				
Relative to surface location:	N/S LINE:	-2813.24 m				
	E/W LINE:	-238.5 m				
RIG RELEASED:	19:00hrs	18/09/2008		TOTAL DEPTH (Driller):	mMDRT	mTVDRT
ELEVATION:	Datum:	LAT		Longtom-4	4648m	2696.19m
	RT-ASL:	39.9		Longtom-4 P		
	WD:	57.3		Longtom-4 H		
	RT-ML:	97.2				
LONGTOM-4:				HOLE SIZES:	Hole Size	Interval
Spud Date:	01:20hrs	21/6/2008		LONGTOM-4	914mm (36")	97 – 133mMDRT
Reached TD:	06:00hrs	6/07/2008			559mm (22")	133 – 755mMDRT
LONGTOM-4 P:					375mm (14¾")	755 – 758mMDRT
Reached TD:	21:00hrs	28/07/2008			343mm (13½")	758 – 2600mMDRT
LONGTOM-4 H:				LONGTOM-4P	241mm (9½")	2600 – 2987mMDRT
Reached TD:	02:30hrs	10/08/2008		LONGTOM-4H	241mm (9½")	2696 – 4648mMDRT
HOLE SIZE	MUD TYPE			CASING:	Size	Shoe
914mm (36")	SW + high vis sweeps				762mm (30")	128.8mMDRT
558mm (22")	SW + high vis sweeps				406mm (16")	750.03mMDRT
343mm (13 ½")	SBM (Baroid Accolade)				273mm (10¾")	2590.78mMDRT
241mm (9 ½")	SBM (Baroid Accolade)					
				LINER:	178mm (7")	4647mMDRT

LWD LOGS

RUN NO	HOLE SIZE	TOOLS	INTERVAL mMDRT	COMMENTS
LONGTOM-4				
100	13 ½"	ARC-ADN-GR	758-2031m	POOH due to drop in angle and no steering.
200	13 ½"	ARC-ADN-GR	2031-2600m	POOH at section TD.
LONGTOM-4 P				
300	9 ½"	ECOSCOPE	2600-2841m	POOH at core point.
400	9 ½"	ECOSCOPE	2896-2987m	POOH at section TD.
LONGTOM-4 H				
500	9 ½"	ECOSCOPE	2690-3577m	POOH due to loss of communications with tool.
600	9 ½"	ECOSCOPE	3577-4648m	POOH at well TD.

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WIRELINE LOGS				
LOG TYPE	SUITE/ RUN	INTERVAL	BHT/TIME	COMMENTS
LONGTOM-4				
DSI – XPT – GR	1/1	2520.5 – 52mMDRT	98.89°C/23.08hrs	
MDT – GR	1/2	2576.1 – 1731.2mMDRT	107°C/36.28hrs	Repeat section 2470 – 2400mMDRT. 19 pre-tests taken, 12 lost seals, and 1 dry test. MDT did not seal at depths below 2500mMDRT, possibly due to washouts or bad hole conditions.
CST – GR**	1/3	2600 – 2381mMDRT	58.93hrs	30 bullets fired, 28 cores recovered, 2 bullets misfired.
CST – GR	1/4	2443 – 1285.5mMDRT	58.93hrs	30 bullets fired, 26 cores recovered, 4 lost, 0 misfired.
MDT – GR	1/5	2576.8 – 2218.7mMDRT	107°C/93.38hrs	Repeat section 2525 – 2475mMDRT. 31 pre-tests taken, 8 lost seals, 1 dry test.
LONGTOM-4P				
DSI – XPT – GR	2/1	2975 – 2035mMDRT	121°C/24.32hrs	
CST – GR	2/2	2985 – 2596mMDRT	39.15hrs	60 bullets fired, 53 cores recovered, 3 lost, 2 bullets misfired, 2 empty.

***Note:** no wireline logs were run on Longtom-4 H

**Second gun failed to fire, necessitating a second run to acquire all 60 CSTs.

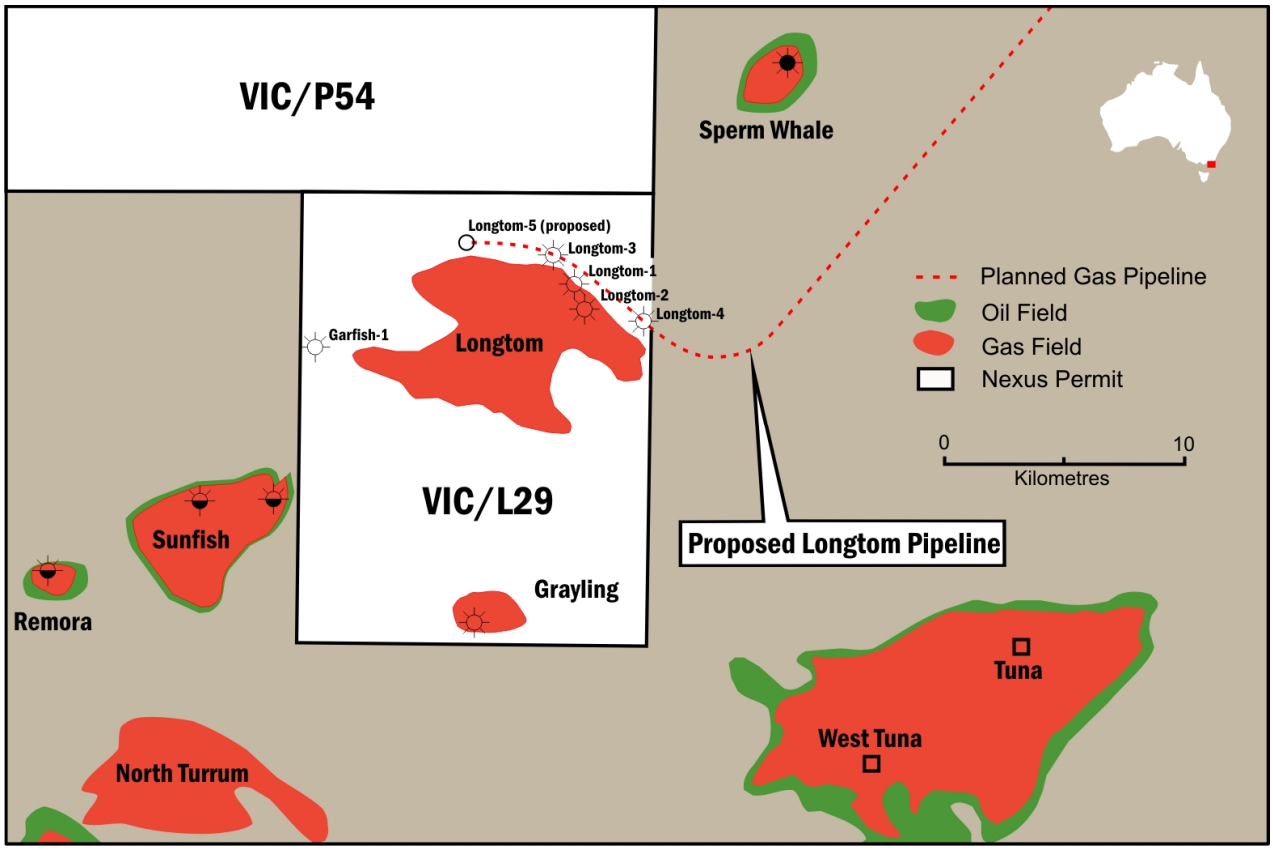

Figure 1: Longtom-4 Location Map

1 OPERATIONS SUMMARY

1.1 Move to Location / Run Anchors

Longtom-4 was drilled and completed as a horizontal subsea development well by the Atlas Drilling Jack Up rig, West Triton. West Triton was released from Nexus' Garfish-1 location at 09:00hrs on June 19, 2008. It was towed to the Longtom-4 location (Figure 1), arriving at 11:30hrs. The rig was then jacked up to a working height of 17m air gap.

1.2 Longtom-4 Drilling Operations

1.2.1 914mm (36") Hole / 762mm (30") Conductor

The Longtom-4 well was spudded on June 21, 2008 at 01:20hrs. The 914mm (36") hole was drilled from 97 to 133mMDRT (TD) using a 26" 1-1-1 milled tooth bit, 36" hole opener and 9" MWD, with seawater and high viscosity Bentonite sweeps for hole cleaning. The hole was displaced with 280bbl inhibited mud from the previous hole before POOH.

Three joints of 30" conductor casing with a low pressure marine wellhead were made up and RIH, with the shoe set at 128.8mMDRT. The conductor was successfully cemented with 168bbl of class G slurry at 15.9ppg and the cement displaced using 57bbl of seawater. A blind stab of the 30" shoe was made without incident. The ROVs were unavailable due to adverse weather conditions, though were later able to verify returns to the mudline when conditions had subsided. The 18¾" high pressure (HP) wellhead running tool was made up to a stand of 5½" DP and racked in the derrick.

1.2.2 559mm (22") Hole Section

A 22" BHA with MWD tools was made up and RIH, tagging the cement at 124.9mMDRT. The cement and shoe were drilled with a rathole drilled to 132.8mMDRT. The 559mm (22") hole section was drilled to 755mMDRT (TD), using seawater and 3 x 50bbl PHG sweeps during every stand, and MWD surveys were taken every 90m. The hole was then swept clean with 150bbl bentonite mud and the hole displaced with 395bbl bentonite mud, followed by 723bbl inhibited mud from the previous well. Whilst POOH, a 30k overpull was encountered at 741mMDRT and back reamed to 726mMDRT. A second tight spot at 668mMRT, also with a 30k overpull, was cleaned up with rotation/pumps.

1.2.3 406mm (16") Surface Casing

The 406mm (16") surface casing was picked up and run to 95.1mMDRT. There was a failed attempt to sting the shoe into the 30" well head due to cuttings and silt obstructing the vision of the ROV wellhead. 5.5 hours of WOW NPT was incurred

in various re-entry attempts. Eventually a successful re-entry was made, and casing running continued until operations were halted to repair the bent retaining plates on the solid body elevators. The shoe was landed at 750.03mMDRT and an inner string cement job was successfully completed, with returns to the mudline.

1.2.4 559mm (22") High Pressure (HP) Marine Riser/ Clean out 16" Casing Shoe

The riser running equipment was rigged up and the 22" HP riser, together with a hydraulic connector, was run to 60mMDRT. At this point there was a delay due to adverse weather conditions, with the currents being too strong to enable the ROV to operate and for work boats to launch the FRC. The 22" HP riser was then run and the hydraulic connector successfully latched in and confirmed with 50k overpull. There was a failed 500psi pressure test due to leakage at the DQ running tool. The CTU and Claxton ring were then installed. The pistons on the CTU were found to be opening unequally due to problems with the pressure regulating valve and the lower/raise function valve. The BOP was then nippled up to the HP riser and the CTU tensioned up to 200T. The riser was then filled with seawater, and the 406mm (16") casing, H4 connector and 559mm (22") riser all successfully pressure tested against shear rams at 2000psi for 10 minutes.

The 14¾" BHA was made up and RIH to clean out the 406mm (16") shoe in preparation for a LOT. A 5½" drill pipe was RIH and TOC was tagged at 736mMDRT with 5k down. The cement was drilled to the shoe at 750mMDRT, and the rathole was cleaned out from 750 to 755mMDRT. The 375mm (14¾") hole was then drilled to 758mMDRT before being circulated clean with 100bbls of Hi-Vis mud. The LOT was performed with seawater at 650psi surface applied pressure, obtaining a result of 13.7ppg EMW. This was 0.4ppg below the expected rock strength, but considered adequate to drill the next hole section. The 14¾" BHA was then POOH and laid out.

1.2.5 343mm (13½") Hole Section

The 13½" steerable BHA with MWD (GR) and LWD (ARC-ADN-8) tools was made up and shallow tested before RIH. 50bbl of Hi-Vis spacer was pumped, displacing the well to OBM at 500gpm and 1000psi. The spacer was then shut down at surface and returns lined up to the slops pit. The Hi-Vis spacer then continued circulating before shutting down with OBM at surface. The returns were directed into sand traps and lined up to the active pit.

The 343mm (13½") hole section was drilled from 758 to 1447mMDRT, with observed seepage losses of 10-20bbls/hr in the Latrobe formation. From 780mMDRT, the angle of inclination began to slowly build to 30° at 1220mMDRT. Hard stringers were encountered at 1447, 1505, 1511, 1523, 1536, 1541, 1554, 1565, 1586, 1592, 1609, 1614, 1633, 1644, 1654, 1662, 1684, 1691, 1700, and 1704mMDRT. At 1938mMDRT the inclination began to drop and at 2031mMDRT it

fell to 27.26°. Attempts at varying the drilling parameters to assist with holding the angle were met without success. The hole was then circulated clean, flow checked, and the BHA POOH to change out the Power Drive. The BHA was then run back in hole with a new bit and drilling continued to 2049mMDRT, building the angle to a 31° inclination and 183.8° azimuth, before kicking off to an inclination of 35.92° and an azimuth of 185.22°. Drilling continued to a section TD of 2600mMDRT at 06:00hrs on July 6, 2008. The hole was then circulated clean before POOH whilst working clear intermittent tight spots at 2215, 1888, and 1781 to 1751mMDRT (with up to 20k overpull), and from 1752 to 1727mMDRT (20-25k overpull). The hole was pumped and back reamed from 1752 to 1727mMDRT, working through a particularly tight hole at 1741mMDRT, before circulating bottoms up and continuing to POOH. The BHA was racked back and the following wireline logs run:

Suite-1 Run 1: DSI – XPT – GR

Suite-1 Run 2: MDT – GR

Suite-1 Run 3: CST – GR (30 shots fired, 2 shots misfired, 28 cores recovered).

Suite-1 Run 4: CST – GR (30 shots fired, 4 shots lost, 26 cores recovered).

Suite-1 Run 5: MDT – GR

**Second gun failed to fire, necessitating a second run to obtain the required 60 CSTs

1.2.6 273mm (10¾") Production Casing

The 273mm (10¾") casing hanger with landing string was successfully RIH landing at a shoe depth of 2590.78mMDRT. After pumping 50bbls tuned spacer at 13.5ppg, 6.6bpm and 430psi, there was an observed pressure increase to 2700psi. This fell back down to 430psi after pumping 46bbl of tuned spacer. The ball was dropped and 3.5bbls pumped in an attempt to launch the bottom plug. The casing volume was then circulated at 10bpm and 650psi. The cement lines were rigged down and CHSART released from the 273mm (10¾") casing and POOH. The wear bushing was then RIH and set, and the wear bushing running tool POOH.

The 9½" BHA with HWDP was made up and RIH with drill pipe to 2560mMDRT, and the plugs tagged at 2566mMDRT. The plugs and float were drilled and the shoe track was cleaned out. The shoe was drilled to 2590mMDRT, and the hole washed and reamed to bottom at 2600mMDRT, and circulated clean before POOH. The 2.875" cement stinger on 5.5" DP was made up and RIH to 2350mMDRT, and the cement job completed using a RTTS packer. After setting the packer, the lines were pressure tested and the production casing cemented.

After removing the packer and stinger, the seal assembly was RIH and the seal set on the 10¾" casing hanger and tested to 3000psi. The RTTS packer with storm valve was RIH to 155mMDRT and pressure tested before displacing the riser to sea water to prepare for riser recovery. The diverter, overshot, and mandrel were all nippled down, and the BOP set on stump.

The rig was skidded in to align the rotary table with the subsea tree (SST) on deck, and the SST landed on the 18¾" wellhead. The 22" riser was then RIH and the DQ running tool made up to the wellhead joint. The riser was landed with the hydraulic connector on to the SST and latched. The riser was filled with sea water but was unable to be pressure tested due to a leakage in the DQ running tool. Operations then halted for 9.5 hours due to excessively strong winds (50-55m) and a 5m swell. When they resumed, the CTU and Claxton clamp were installed, the DQ running tool released, and the BOP nippled up. The BOP and the H4 connections to the SST were pressure tested to 500psi, and the mandrel, overshot, and diverter installed. The choke line was nippled up on the BOP, and the RTTS packer and cement string removed and laid out at surface. The casing was pressure tested against the shear rams to 3000psi, and the I-BOP pressure tested to 5000psi, and the swivel packing repaired. The BHA and cement stand were laid down from the derrick.

1.3 Longtom-4P Drilling Operations

1.3.1 241mm (9½") Pilot Hole

Longtom-4P drilling operations commenced at 16:30hrs on July 24, 2008. A 9½" rotary steerable BHA was made up and included the Schlumberger EcoScope LWD tool. This BHA was RIH to 153mMDRT and the hole displaced to SBM. Drilling continued to 2525mMDRT where the hole was washed down and TOC tagged at 2551mMDRT. The shoe was drilled down to 2591mMDRT and the rathole to 2600mMDRT. 4m of new formation was drilled before circulating bottoms up to conduct a FIT. The FIT was performed to 818psi, achieving a result of 14ppg EMW before continuing to drill to the coring point at 2841mMDRT. The hole was circulated 1.5 x bottoms up and backreamed over three sections to recapture missing MWD/LWD data whilst POOH.

1.3.2 241mm (9½") Cored Hole Section

The 8½" BHI core barrel assembly was RIH to 2812mMDRT and washed down to 2841mMDRT. The 8½" conventional core was cut from 2841 to 2896mMDRT and POOH with a 100% recovery. The core and outer barrel were laid out at surface and a new 9½" BHA made up.

1.3.3 241mm (9½") Hole Section to Pilot Hole TD

The 9½" BHA was made up and again included the Schlumberger EcoScope LWD tool. The assembly was RIH to 2620mMDRT and the hole washed down to 2637mMDRT. The hole was reamed from 2640 to 2670, 2720 to 2735, 2750 to 2766, and from 2792 to 2813mMDRT to recapture missing data from previous MWD/LWD tools. Drilling then continued to 2987mMDRT (TD) at 21:00hrs on July

28, 2008. The hole was reamed over from 2975 to 2987mMDRT to recapture missing data from MWD/LWD tools before POOH to run the following wireline logs:

Suite 2 Run 1A: XPT/DSI (40 pressure tests conducted; tool stuck at 2986mMDRT for 20 minutes)

Suite 2 Run 1B: XPT/DSI

Suite 2 Run 2: CST/GR (60 shots fired, 2 shots misfired, 3 shots lost, 2 bullets empty, 53 cores recovered)

During Run 2, the GR failed once in the hole and had to be pulled out and changed at surface.

The 2.875" cement stinger was then rigged up and RIH, and a balanced cement plug was set from 2848 to 2698mMDRT. The cement lines and side entry sub were rigged down, and 6 stands were slowly pulled up to place the stinger at 2681mMDRT. The hole was then circulated bottoms up before POOH.

1.4 Longtom-4H Drilling Operations

1.4.1 241mm (9½") Horizontal Hole

Longtom-4H drilling operations commenced at 00:00hrs on August 1, 2008. The 9½" rotary steerable BHA was M/U and included the Schlumberger EcoScope LWD tool. The assembly was RIH to 293mMDRT, where a hydraulic hose on the Iron Roughneck burst halting operations. Operations were also halted at 1246mMDRT due to extreme winds (55 – 70knots). When conditions had subsided, the 9½" BHA continued to be RIH to TOC at 2690mMDRT, tagging the cement with 25k down. The cement was drilled to 2696mMDRT and reamed several times to prepare the ledge for sidetrack. Drilling of the 241mm (9½") hole as per DD requirements continued to 3577mMDRT where, due to problems with the MWD tool, the hole was circulated 2x bottoms up and POOH for a bit change. The BHA and bit were changed and RIH, working through tight spots from 3129 to 3289m, and from 3555 to 3577mMDRT. Drilling continued to 4558mMDRT, where a decision was made to drill further requiring extra DP. POOH 5 stands from 4558 to 4411mMDRT, and racked back. The HT55 pipe was M/U and required reaming before RIH. The hole section was then drilled to a Final TD of 4648mMDRT at 05:30hrs on August 24, 2008. The hole was then circulated 5x bottoms up. All stands were backreamed from 4648 to 2607mMDRT whilst POOH, and the BHA was laid out and preparations were made to run the 178mm (7") liner.

1.4.2 178mm (7") Production Liner

The 178mm (7") liner was rigged up and RIH to 2074mMDRT, filling every 5 joints. The 7" liner setting tool was M/U and RIH to 2083mMDRT and the volume circulated. The liner was then RIH on 5.5" DP and set at 4648mMDRT, tagging

bottom with 10k down. The stand was racked back and the cement stand made up, and the string picked up to 4647mMDRT.

The cement lines were rigged up and 60bbls of Accolade base oil, followed by 60bbls of Tuned spacer were pumped and chased with 10bbls of brine. The cement was mixed and pumped at 15ppg. A pump pressure increase to 2500psi was observed after 4bbls of cement was pumped. The pressure bled down and the cement dumped from the mix tub and the unit cleaned. The problem was troubleshot and the spacers then circulated out. The cement stand was racked back before POOH. After testing the BOP's rams and the annular to positive results, the 7" RTTS packer was M/U and RIH to 2735mMDRT. It was confirmed that circulation could not be established through the liner after increasing the pressure to 5000psi. The packer was unset and POOH, and a TCP/RTTS assembly was M/U and RIH. The bottom of the TCP was placed at 4560mMDRT and the RTTS set at 2966.3mMDRT. The cement job was completed by perforating the 178mm (7") casing and squeezing cement through perforations at intervals from 4560 to 4558, and 2675 to 2673.5mMDRT. Upper remedial work was carried by setting a cement retainer above perforations, which was drilled out from 2669 to 2668.6mMDRT and worked to bottom after WOC. The hole was circulated clean and displaced to 11.30ppg brine in preparation for testing and completion operations.

1.4.3 Completion/ Well Clean Up

Completion operations commenced with a short RTTS run to test the wellhead seals. The 10¾" RTTS packer was RIH and set at 210mMDRT, and the seals successfully tested to 4000psi. The RTTS was then POOH to prepare running the Tubing-Conveyed Perforating gun assembly for TCP operations.

The TCP gun assembly was RIH to 1925mMDRT before changing out elevators to 5.5" and RIH with a 5.5" DP to 4414mMDRT. A correlation log was run before positioning the bottom shot of the TCP guns at 4408mMDRT. 134m of the 400, 200 and 100 sands were perforated with 4½" 5spf 60º phased Predator XP 39g HMX guns, and 593.8m of the 100 and 50 sands were perforated with 3⅜" 3spf 120º phased Predator XP 24g HMX guns, over a gross interval of 1912m. The depths of the perforations were from 4406 to 4243, 4191.4 to 4085, 3944 to 3639.8, 3152.4 to 3132, 2862 to 2828, 2761 to 2683, and 2516 to 2494mMDRT. The SES assembly was then rigged down and POOH with 5.5" DP and to prepare running the clean up assembly.

The 10¾" clean up assembly BHA, comprising of a 9½" bit, 10¾" casing scraper and 10¾" Well Patroller, was RIH on a 5.5" DP. Once the packer-setting intervals had been scraped whilst RIH, the riser brushes worked through the BOP's and riser. Cleanout pills were then pumped and the well displaced to filtered inhibited brine at 11ppg. The cleanout assembly was POOH and the 5.5" DP laid out. The Tubing

Hanger Bore Protector was then retrieved from the wellhead and preparations were made to rig up and run the 5" completion string.

The 5" tubing completion string was M/U and RIH to 351mMDRT before changing over to 7" handling equipment. The 7" tubing completion string continued to be RIH to 2479mMDRT, and the subsurface safety valve (SSSV) and interval control valve (ICV) control lines were successfully pressure tested to 4000psi. The tubing hanger cavities were then successfully pressure tested between the upper and middle seal to 5000psi and the flowhead M/U to the landing string. The coflex hoses, chicksan, and all associated control lines were hooked up to the flowhead and the whole rig up was successfully pressure tested above the master valve to 5500psi against the Expro choke manifold.

The Expro slickline was then rigged up and RIH to retrieve the 4.7" TH isolation sleeve and replace it with a 4.7" bore protector. The hold-open prong was retrieved from the TR-SSSV, and the 4.562" xx plug set in the x nipple at 2242mMDRT, immediately above the top packer assembly. The tubing and landing string were then successfully tested to 5500psi before running the slickline lubricator and BOPs to retrieve the xx plug. This took 2 runs: the first using a GR Pulling Tool (with equalising prong installed) and the second using a GS Pulling Tool (without prong). Finally the Wireline Protection Sleeve was retrieved from the Tubing Hanger.

There were then several unsuccessful attempts to set and pressure test the HF-1 production packers. This included pressuring up the tubing to 6000psi with diesel in the tubing and then, after bullheading all the diesel into the 400 sands (attempts to reverse circulate the diesel out of the well were unsuccessful), to 6000psi with brine in the tubing. Finally it was decided to pull this completion and replace it.

The HF1 Packer-release Shifting Tool was RIH releasing the packer at 2244mMDRT, indicating that it was released with 300k overpull. The slickline was rigged down and the Full Bore Isolation Valve (FBIV) was cycled to the locked open position. Pressure was then observed at the Expro choke while flow checking the well. The well was reverse circulated with 280bbls of brine before running the slickline and setting the 2.313" xx plug in the x nipple at 2552mMDRT. The plug was then pressure tested to 750psi. The Schlumberger Chemical Cutter with spaceout bar (to position the cutter at the correct depth inside the packer) was run and positioned on depth. The cutter was fired, cutting the AHC packer at 2527mMDRT, and retrieved successfully.

The Mechanical Tubing Hanger Running Tool (MTHRT) was released from the Tubing Hanger and retrieved to surface with the landing string. The Tubing Hanger Retrieval Tool (THRET) was run and made up into the tubing hanger. The hanger was then released and the completion string was picked up 2m, with the string weight dropping off from 220klbs to 208klbs after 1m had been picked up. The string was then circulated by working the string up and down, and the tubing hanger finally brought to surface. The remainder of the completion was then retrieved with all downhole components successfully recovered, including all the control lines,

gauge cable and cross-coupling protectors. The Tubing Hanger bore protector was then re-installed, the BOPs were pressure-tested to 4000psi and Schlumberger ran a 9½" gauge ring and junk basket to 2482mMDRT (below replacement packer setting depth). The Tubing Hanger bore protector was then retrieved before rigging up to run completion.

1.4.4 Suspension/ Rig Down/ Move Off

The 5½/7" completion string on landing string was rigged up and RIH to 2570mMDRT. The PBR was tagged and the sting in confirmed with 180psi before POOH. The TR-SSSV was then installed at 242.5mMDRT, and the control lines installed and pressure tested to 4000psi (leaks were observed and two needle valves needed to be changed out). The landing string and completion was then RIH from 2477 to 2570.8mMDRT. The tubing hanger was landed and locked, and the SST valves pressure tested. Surface lines were made up to the flowhead and the surface equipment and tieback seal pressure tested. The slickline equipment and lubricator were rigged up and the isolation retrieved.

The 4.562" xx plug and tool string were M/U, and the lubricator installed and pressure tested to 4000psi. The plug was then RIH and set at 2450mMDRT. The lubricator and tubing string were then pressure tested to 5500psi, and an inflow test was conducted on the SSSV. The GS tool was then RIH to retrieve the 4.562" plug (suffering only one misrun) and the plug POOH. After flushing the surface lines, the shifting tool was RIH on slickline to 2476mMDRT and the sliding sleeve shifted into closed position.

The 4.313" RX plug was then RIH to R Nipple at 2457mMDRT. The tubing from the cement unit was pressured up in stages up to 5500psi in order to set the packer. After tagging the RX plug at 2473mMDRT, the GS tool was loaded and jarred into the lubricator and RIH on the slickline to recover the plug. The protection sleeve was then retrieved with slickline, and the Otis pressure test cap installed and successfully pressure tested to 4000psi. An ESD function test was conducted and the well opened to flow, maintaining an annulus pressure between 200 to 400psi. The annular pressure was then bled off and the well shut in for 1 hour.

The 5¼" Tubing Hanger plug was RIH to 93.3mMDRT. The plug was pressure tested to 4000psi and also from below to 1500psi between the plug and SSSV. An inflow test was then conducted on the SSSV, after two unsuccessful attempts, before rigging down the slickline and surface lines. The Internal Tree Cap (ITC) was then run on the MTHRT on 7" Fox landing string and installed, taking two attempts to land properly. During the second attempt, the AMV and AAV valves were opened to prevent the ITC from pressure-locking while landing. It was felt that opening the ⅜" ID TCT line alone did not provide enough fluid to escape from this small cavity. The cavity between the ITC and the tubing Hanger plug was successfully tested to 4000psi before retrieving the 7" landing string and MTHRT.

The diverter was then pulled, followed by 11 hours lost WOW (high winds and seas). The BOP stack was nippled down and landed on the stump, and the DQ running tool was installed into the top tension joint of the riser. The riser weight was then picked up, releasing tension on the CTU. The Claxton clamp was removed and broken out, and the CTU split and lifted into parking position on the port side of the cantilever. The H4 connector was released from the wellhead and the 22" riser recovered and laid out. The cantilever was then successfully skidded in and the rig jacked down to a 1.5m draft, where water integrity tests were successfully conducted before jacking down to full moving draft.

The rig move to Stuart Petroleum's well Bazzard-1 commenced when it was released from the Longtom-4 well and 1 mile off location, at 19:00hrs on September 18, 2008.

The total time for drilling, completing and testing the Longtom-4 well was 91.42 days compared to the target time of 82.13days. The final estimated cost for the operation was A$88.19million compared to the original AFE amount of A$81.99million. The well has a Cameron spool tree and single 7" x 5.5" completion installed with the upper group of perforation isolated behind tubing between the completion and a liner-top seal assembly.

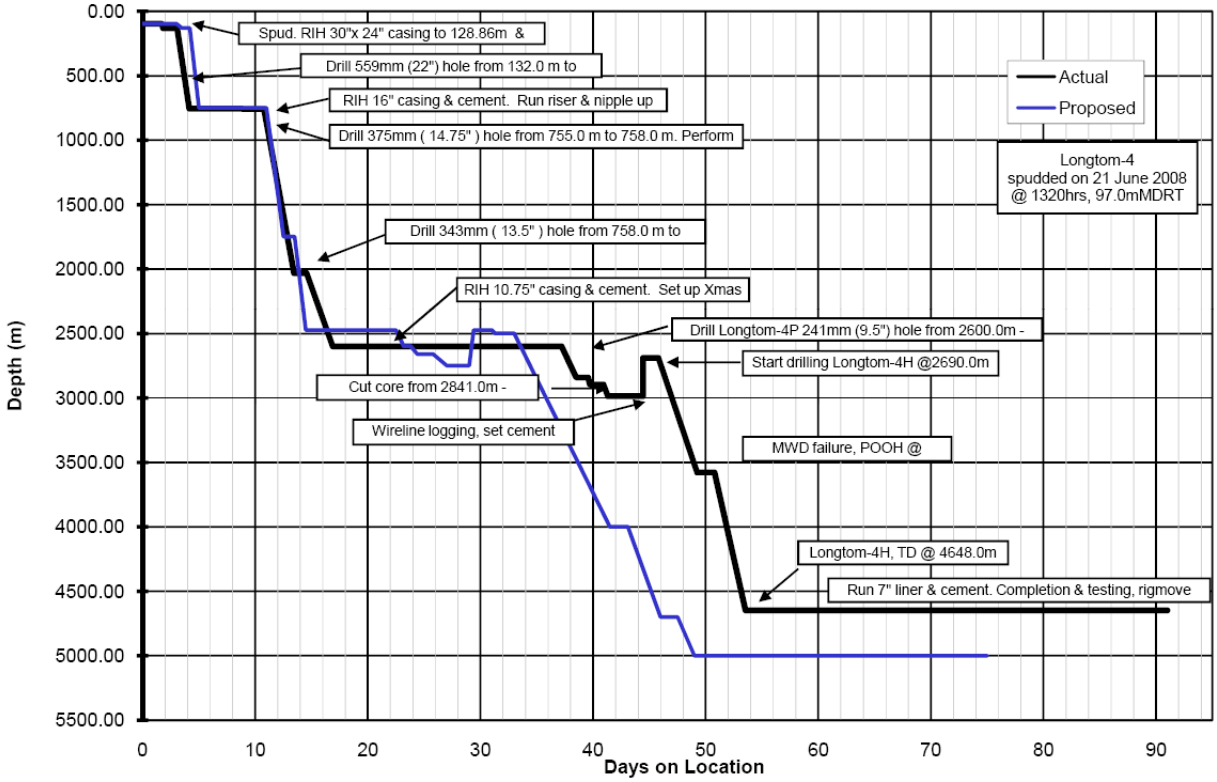

Figure 2: Longtom-4 Drilling Time/Depth Curve

2 DRILLING AND COMPLETION DATA

A drilling and engineering end of well report is contained in APPENDIX 1 with copies of the Daily Drilling Reports in APPENDIX 2. Documentation of the rig move and the final well location survey is contained in APPENDIX 3. A schematic diagram of the well bore after C&S is shown in Figure 3.

2.1 Hole Sizes and Depths

Hole sizes and the depths to which they were drilled are as follows:

914mm / 36”	97	to	133mMDRT
559mm / 22”	133	to	755mMDRT
375mm / 14¾”	755	to	758mMDRT
343mm / 13½”	758	to	2600mMDRT (TD Longtom-4)
241mm / 9½”	2600	to	2987mMDRT (TD Longtom-4P)
241mm / 9½”	2696	to	4648mMDRT (TD Longtom-4H)

2.2 Casing Data

Three casing strings and a liner were run in Longtom-4/4P/4H as tabulated below:

TYPE	Size	Weight	Grade	Thread	Shoe Depth
Conductor	762mm (30”)	457 / 310ppf	X-52	LYNX	128.8mMDRT
Surface Casing	406mm (16”)	75 ppf	NT80DE	API BTC	750.03mMDRT
Production Casing	273mm (10¾”)	55.5 / 60.7ppf	L-80/ Q125	Tenaris Blue/ NSCC	2590.78mMDRT
Production Liner	178mm (7”)	26 / 29 ppf	L-80	Hydrill 513	4648mMDRT

Table 1: Casing Data

2.3 Cementing Data

String Cemented	Cement Additives	Mix Water (gal/sk)	Dry Vol (sks)	Slurry Vol (bbls)	Slurry Dens (ppg)	Interval (mMDRT)	Test Pres. (psi)
30”	Calcium Chloride 1% BWOC	5.12	22	168	15.9	132.8 – 97.03	NA
16” Lead Slurry	Econolite Liquid 15 gal/10bbl NF-6L 0.5 gal/10bbl	12.54	13.00	525	12.5	550 – 97.03	2000psi
16” Tail Slurry	CFR-3L 3 gal/10bbl NF-6L 0.12 gal/10bbl	5.12	5.12	235	15.8	755 - 550	2000psi
10¾”	Halad-413L 15.0 gal/10bbl CFR-3L 3.0 gal/10bbl SCR-100L 3.5 gal/10bbl	4.89	5.15	200	15.8	2600 – 97.03 (Sea bed)	4500psi
9½ Pilot Hole Plugback	CFR-3L 3.0 gal/10bbl SCR-100L 4.0gal/10bbl	4.31	4.39	52	16.5	2848 – 2690 (tagged 25klbs)	NA
HZ MAIN HOLE 7” Liner Remedial – Lower. (HTB)	Halad-413L 15.0gal/10bbl Gascon-469 16 gal/10bbl CFR-3L 3.0 gal/10bbl SCR-100L 4.0gal/10bbl NF-6L 0.1 gal/10bbl	5.32	5.77	138	15.0	4520 – 3550	NA
HZ MAIN HOLE 7” Liner Remedial - Upper	Halad-413L 15.0gal/10bbl Gascon-469 16 gal/10bbl CFR-3L 3.0 gal/10bbl SCR-100L 4.0gal/10bbl NF-6L 0.1 gal/10bbl	5.32	5.77	30	15.00	2675 - 2569	500psi

2.4 Perforations

Tubing-Conveyed Perforating operations were run in which 134.0 metres of the 400, 200 and 100 sands were perforated with 4½", 5spf 60º phased Predator XP 39g HMX guns. Following this, 593.8 metres of the 100 and 50 sands were perforated with 3⅜" 3spf 120º phased Predator XP 24g HMX guns. This gave a gross perforated interval of 1912 metres. Perforating runs went almost without a hitch (1½ hours were lost out of a total of 64 hours for this operation), with all guns being successfully retrieved after firing all shots.

A summary of perforations and zones targeted, is provided below:

Zone	Gun Size	Shot Density	Phasing	Length	Charge Type	Top Shot	Bottom Shot	Top Shot Angle
400	4½"	5spf	60°	22m	Predator XP 39g HMX	2494mMDRT	2516mMDRT	45°
200	4½"	5spf	60°	78m	Predator XP 39g HMX	2683mMDRT	2761mMDRT	52°
100-1	4½"	5spf	60°	34m	Predator XP 39g HMX	2828mMDRT	2862mMDRT	54°
50-1	3⅜"	3spf	120°	20.4m	Predator XP 24g HMX	3132mMDRT	3152.4mMDRT	76°
100-2	3⅜"	3spf	120°	304m	Predator XP 24g HMX	3640mMDRT	3944mMDRT	92°
100-3	3⅜"	3spf	120°	106.4 m	Predator XP 24g HMX	106.4mMDRT	4191.4mMDRT	81°
100-3	3⅜"	3spf	120°	163m	Predator XP 24g HMX	163mMDRT	4243mMDRT	90°

Note: All perforations overbalanced with TCP guns and gas was the fluid in each zone.

Table 2: Perforations

2.5 Surveys

Directional surveying of individual well paths for Longtom-4 P and Longtom-4 H was conducted by Schlumberger using their Measurement While Drilling (MWD) equipment. The measure points from this surveying are contained in the table below and a full report is contained in APPENDIX 10.

Longtom-4 and Longtom-4 P							
Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Departure N/S (metres)	Departure E/W (metres)	Vertical Section (metres)	Dogleg (deg/30m)
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.03	0.00	0.00	97.03	0.00	0.00	0.00	0.00
116.15	0.69	328.34	116.15	0.10 N	-0.06 W	-0.09	1.08
124.06	0.56	358.29	124.06	0.18 N	-0.09 W	-0.17	1.31
147.44	0.36	43.93	147.44	0.34 N	-0.04 W	-0.34	0.52
204.75	0.52	335.69	204.75	0.71 N	-0.02 W	-0.71	0.27
324.05	0.78	189.14	324.04	0.40 N	-0.37 W	-0.38	0.31
382.91	0.23	326.57	382.90	0.11 N	-0.50 W	-0.07	0.49
412.77	0.34	250.06	412.76	0.13 N	-0.62 W	-0.09	0.37
442.9	0.19	118.87	442.89	0.07 N	-0.66 W	-0.03	0.48
531.83	0.85	328.15	531.82	0.56 N	0.88 W	-0.50	0.34
563.3	0.97	289.41	563.29	0.85 N	1.25 W	-0.77	0.59
651.66	0.44	355.43	651.64	1.43 N	1.98 W	-1.31	0.30
741.14	0.59	334.49	741.12	2.19 N	2.21 W	-2.05	0.08
750.39	0.71	327.45	750.37	2.28 N	2.26 W	-2.14	0.47
783.28	0.52	304.12	783.25	2.54 N	2.49 W	-2.38	0.28
812.94	2.32	203.29	812.91	2.06 N	2.84 W	-1.88	2.50
842.62	5.16	197.97	842.52	0.24 N	3.49 W	-0.02	2.89
872.25	7.16	192.11	871.98	2.83 S	4.29 W	3.09	2.12
901.94	8.22	183.91	901.40	6.76 S	4.82 W	7.04	1.54
931.42	10.19	179.91	930.50	11.47 S	4.96 W	11.76	2.11
960.94	13.95	179.75	959.36	17.64 S	4.94 W	17.91	3.82
990.68	17.52	178.95	987.98	25.70 S	4.85 W	25.96	3.61
1020.4	20.88	177.48	1016.05	35.47 S	4.53 W	35.68	3.43
1050.08	24.28	176.64	1043.45	46.85 S	3.94 W	47.00	3.45
1078.64	25.70	178.42	1069.33	58.90 S	3.43 W	59.00	1.69
1108.28	26.85	180.79	1095.91	72.02 S	3.34 W	72.09	1.58
1137.39	27.64	182.43	1121.79	85.34 S	3.72 W	85.41	1.12
1166.97	28.48	183.83	1147.89	99.23 S	4.48 W	99.32	1.08
1196.4	29.46	184.58	1173.64	113.45 S	5.53 W	113.57	1.07
1225.95	30.16	185.46	1199.28	128.08 S	6.81 W	128.26	0.84
1255.99	29.83	185.82	1225.30	143.03 S	8.29 W	143.27	0.38
1285.37	30.03	186.70	1250.76	157.60 S	9.89 W	157.91	0.49
1315.16	31.09	187.90	1276.41	172.62 S	11.81 W	173.02	1.23
1344.99	31.21	187.53	1301.94	187.91 S	13.89 W	188.41	0.23
1374.68	30.42	184.92	1327.44	203.03 S	15.54 W	203.60	1.57
1404.59	30.04	183.00	1353.28	218.05 S	16.58 W	218.66	1.04
1433.94	31.67	182.29	1378.48	233.08 S	17.27 W	233.71	1.71
1463.79	30.65	181.20	1404.02	248.52 S	17.75 W	249.14	1.17

Longtom-4 and Longtom-4 P							
Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Departure N/S (metres)	Departure E/W (metres)	Vertical Section (metres)	Dogleg (deg/30m)
1493.62	30.04	180.72	1429.77	263.59 S	18.00 W	264.20	0.66
1523.35	30.08	180.58	1455.50	278.48 S	18.17 W	279.07	0.08
1553.11	30.38	181.81	1481.21	293.46 S	18.48 W	294.04	0.69
1583.05	30.31	183.44	1507.05	308.57 S	19.17 W	309.16	0.83
1612.84	30.34	184.08	1532.76	323.58 S	20.16 W	324.20	0.33
1642.12	30.48	183.53	1558.01	338.37 S	21.14 W	339.03	0.32
1671.81	30.16	182.75	1583.64	353.33 S	21.96 W	354.01	0.51
1701.38	29.96	181.97	1609.24	368.13 S	22.57 W	368.82	0.45
1730.84	30.49	182.20	1634.69	382.95 S	23.11 W	383.65	0.55
1760.64	30.44	183.16	1660.38	398.04 S	23.82 W	398.75	0.49
1790.34	29.76	183.49	1686.07	412.91 S	24.68 W	413.65	0.71
1820.04	29.12	183.26	1711.94	427.48 S	25.54 W	428.25	0.66
1849.86	28.05	182.80	1738.12	441.73 S	26.30 W	442.51	1.10
1879.39	28.44	182.54	1764.14	455.69 S	26.95 W	456.49	0.42
1909.08	29.18	181.91	1790.15	469.99 S	27.50 W	470.79	0.81
1938.97	29.25	182.37	1816.24	484.57 S	28.05 W	485.37	0.24
1968.51	27.81	181.63	1842.19	498.67 S	28.54 W	499.48	1.51
1998.05	27.26	181.66	1868.38	512.32 S	28.94 W	513.13	0.56
2028.03	26.98	181.70	1895.07	525.98 S	29.34 W	526.78	0.28
2057.68	29.01	184.81	1921.25	539.87 S	30.14 W	540.70	2.53
2087.27	29.58	188.03	1947.06	554.25 S	31.76 W	555.15	1.70
2116.78	29.55	188.02	1972.72	568.67 S	33.79 W	569.67	0.03
2146.82	30.97	187.12	1998.67	583.67 S	35.78 W	584.77	1.49
2176.36	31.76	185.57	2023.89	598.95 S	37.48 W	600.12	1.15
2206.21	31.48	183.82	2049.31	614.55 S	38.76 W	615.77	0.96
2235.88	31.35	183.41	2074.63	629.98 S	39.74 W	631.23	0.25
2265.38	32.11	184.62	2099.72	645.46 S	40.83 W	646.75	1.01
2295.93	31.69	185.04	2125.66	661.55 S	42.19 W	662.46	0.47
2325.11	33.21	184.84	2150.28	677.15 S	43.53 W	678.55	1.57
2355.31	35.92	185.28	2175.15	694.21 S	45.05 W	695.67	2.70
2385.09	36.82	184.07	2199.13	711.81 S	46.48 W	713.33	1.16
2413.59	37.70	183.21	2221.81	729.03 S	47.58 W	730.58	1.08
2472.44	42.55	182.99	2266.80	766.89 S	49.62 W	768.49	2.47
2502.19	45.34	182.77	2288.21	787.51 S	50.66 W	789.14	2.82
2531.76	48.61	183.24	2308.39	809.09 S	51.80 W	810.75	3.34
2561.19	50.89	182.57	2327.40	831.53 S	52.93 W	833.21	2.38
2578.22	52.52	183.03	2337.95	844.88 S	53.59 W	846.57	2.94
2621.57	53.72	182.84	2363.97	879.51 S	55.36 W	881.25	0.84
2651.57	53.37	183.55	2381.80	903.60 S	56.71 W	905.37	0.67
2681	52.50	184.22	2399.53	927.03 S	58.30 W	928.86	1.04

Longtom-4 and Longtom-4 P							
Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Departure N/S (metres)	Departure E/W (metres)	Vertical Section (metres)	Dogleg (deg/30m)
2711.02	51.43	184.51	2418.03	950.60 S	60.10 W	952.50	1.09
2740.27	50.60	184.48	2436.43	973.27 S	61.88 W	975.23	0.85
2770.05	50.01	184.85	2455.45	996.11 S	63.74 W	998.14	0.66
2798.55	47.70	183.57	2474.20	1017.51 S	65.32 W	1019.60	2.63
2857.04	46.14	183.13	2514.15	1060.15 S	67.82 W	1062.32	0.82
2886.94	46.56	182.91	2534.79	1081.76 S	68.96 W	1083.95	0.45
2916.37	46.19	183.31	2555.09	1103.03 S	70.11 W	1105.26	0.48
2946.06	45.04	184.18	2575.86	1124.20 S	71.50 W	1126.47	1.32
2970.49	45.14	184.59	2593.11	1141.45 S	72.82 W	1143.77	0.38
2987	45.14	184.59	2604.76	1153.12 S	73.76 W	1155.47	0.00

Table 3: Survey Listing Longtom-4 P

Longtom-4 H							
Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Departure N/S (metres)	Departure E/W (metres)	Vertical Section (metres)	Dogleg (deg/30m)
2711.02	51.43	184.51	2418.03	950.60 S	60.10 W	952.50	1.09
2733.77	49.85	181.87	2432.46	968.16 S	61.08 W	970.08	3.40
2763.58	51.38	177.62	2451.38	991.19 S	60.97 W	993.06	3.65
2792.31	53.01	176.31	2468.99	1013.85 S	59.76 W	1015.61	2.02
2820.01	54.07	176.82	2485.45	1036.09 S	58.43 W	1037.72	1.23
2850.81	54.91	179.97	2503.35	1061.15 S	57.73 W	1062.69	2.63
2881.69	57.25	185.74	2520.59	1086.72 S	59.02 W	1088.29	5.18
2911.49	62.80	188.17	2535.47	1112.33 S	62.16 W	1114.04	5.97
2941.41	65.11	188.76	2548.61	1138.92 S	66.12 W	1140.83	2.38
2957.37	66.49	189.09	2555.15	1153.30 S	68.38 W	1155.32	2.65
2987.28	68.43	190.05	2566.62	1180.54 S	72.97 W	1182.79	2.14
3016.23	69.92	189.15	2576.91	1207.21 S	77.49 W	1209.70	1.77
3046.70	71.87	185.88	2586.88	1235.75 S	81.25 W	1238.41	3.60
3076.34	72.83	185.30	2595.87	1263.86 S	84.00 W	1266.64	1.12
3106.22	72.92	185.49	2604.67	1292.29 S	86.68 W	1295.18	0.20
3136.04	75.98	186.22	2612.66	1320.87 S	89.61 W	1323.88	3.16
3164.24	80.13	185.24	2618.50	1348.31 S	92.37 W	1351.44	4.53
3194.93	79.46	185.98	2623.93	1378.37 S	95.32 W	1381.63	0.97
3224.35	81.52	184.32	2628.79	1407.27 S	97.92 W	1410.63	2.68
3254.13	84.39	184.05	2632.45	1436.74 S	100.08 W	1440.18	2.90
3283.78	87.22	180.52	2634.62	1466.28 S	101.25 W	1469.74	4.57
3313.51	90.41	179.47	2635.23	1496.00 S	101.25 W	1499.40	3.39
3343.47	93.13	182.42	2634.31	1525.94 S	101.74 W	1529.31	4.02
3373.36	94.02	181.60	2632.44	1555.75 S	102.79 W	1559.13	1.21
3402.75	93.92	178.26	2630.41	1585.06 S	102.76 W	1588.38	3.40
3431.88	91.13	178.07	2629.12	1614.15 S	101.82 W	1617.36	2.88
3461.34	91.68	178.76	2628.40	1643.59 S	101.01 W	1646.69	0.90
3492.03	91.51	180.60	2627.55	1674.26 S	100.84 W	1677.29	1.81
3521.63	91.27	178.88	2626.83	1703.85 S	100.70 W	1706.82	1.76
3551.39	91.44	180.83	2626.12	1733.60 S	100.63 W	1736.51	1.97
3564.74	91.37	180.85	2625.80	1746.95 S	100.82 W	1749.84	0.16
3594.59	91.46	180.97	2625.06	1776.79 S	101.30 W	1779.65	0.15
3624.29	91.46	182.60	2624.30	1806.46 S	102.22 W	1809.32	1.65
3653.86	91.66	184.27	2623.50	1835.97 S	103.99 W	1838.88	1.71
3684.08	90.29	183.77	2622.98	1866.11 S	106.11 W	1869.10	1.45
3711.90	89.74	185.04	2622.98	1893.84 S	108.25 W	1896.91	1.49
3740.99	88.54	184.85	2623.41	1922.82 S	110.76 W	1925.99	1.25
3770.39	85.50	184.63	2624.94	1952.08 S	113.18 W	1955.34	3.11
3799.79	83.81	184.62	2627.68	1981.25 S	115.54 W	1984.61	1.72

Longtom-4 H							
Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Departure N/S (metres)	Departure E/W (metres)	Vertical Section (metres)	Dogleg (deg/30m)
3829.12	82.94	183.90	2631.06	2010.31 S	117.71 W	2013.74	1.15
3859.22	84.01	183.23	2634.48	2040.15 S	119.57 W	2043.64	1.26
3888.65	86.13	183.06	2637.01	2069.43 S	121.17 W	2072.96	2.17
3918.67	88.74	185.50	2638.36	2099.33 S	123.41 W	2102.94	3.57
3948.20	89.63	186.27	2638.78	2128.70 S	126.44 W	2132.44	1.20
3977.71	86.96	185.58	2639.66	2158.04 S	129.48 W	2161.91	2.80
4006.54	83.81	184.14	2641.97	2186.67 S	131.92 W	2190.64	3.60
4035.61	82.10	183.23	2645.54	2215.45 S	133.77 W	2219.49	2.00
4065.35	82.21	183.76	2649.60	2244.86 S	135.57 W	2248.95	0.54
4094.84	79.90	183.49	2654.18	2273.93 S	137.41 W	2278.08	2.37
4124.38	77.56	183.62	2659.96	2302.85 S	139.21 W	2307.05	2.38
4153.91	78.91	185.00	2665.98	2331.67 S	141.38 W	2335.95	1.94
4183.07	81.41	187.28	2670.96	2360.23 S	144.46 W	2364.65	3.46
4212.97	85.21	190.62	2674.45	2389.56 S	149.08 W	2394.20	5.06
4242.27	89.94	193.94	2675.69	2418.15 S	155.30 W	2423.13	5.91
4270.99	92.69	195.73	2675.03	2445.90 S	162.65 W	2451.28	3.43
4301.34	92.03	195.79	2673.78	2475.09 S	170.89 W	2480.92	0.66
4331.00	92.98	195.62	2672.48	2503.61 S	178.91 W	2509.88	0.98
4360.69	90.97	195.41	2671.46	2532.20 S	186.85 W	2538.91	2.04
4390.61	87.74	193.25	2671.79	2561.18 S	194.25 W	2568.30	3.90
4419.25	84.58	189.93	2673.71	2589.17 S	199.99 W	2596.58	4.80
4448.12	85.64	190.34	2676.17	2617.48 S	205.05 W	2625.16	1.18
4478.07	84.87	191.52	2678.65	2646.79 S	210.71 W	2654.76	1.41
4507.60	84.61	193.02	2681.36	2675.52 S	216.96 W	2683.82	1.54
4538.99	84.55	192.67	2684.32	2705.99 S	223.91 W	2714.66	0.34
4568.77	84.96	189.40	2687.05	2735.09 S	229.58 W	2744.06	3.31
4598.48	84.84	186.02	2689.69	2764.41 S	233.55 W	2773.57	3.40
4627.92	82.10	185.79	2693.04	2793.50 S	236.56 W	2802.79	2.80
4643.88	80.20	185.48	2695.49	2809.20 S	238.11 W	2818.55	3.62
4648.00	80.20	185.48	2696.19	2813.24 S	238.50 W	2822.61	0.00

Table 4: Survey Listing Longtom-4 H

2.6 Bit Record

A total of eleven bit runs, utilizing nine bits, were used to drill Longtom-4, -4 P and -4 H. A 26" bit was run in the 914mm (36") hole section with a 36" hole opener. A single 22" bit was used to drill the 559mm (22") hole section: a 14¾" bit was then used to clean out the casing. Two bits were used to drill the 343mm (13½") hole section down to TD of Longtom-4. Two further bits were used to drill the 241mm (9½") Pilot Hole section that comprised Longtom-4 P and two final bits were used to drill the 241mm (9½") Production Hole that comprised Longtom-4 H. The bit record is included in APPENDIX 5.

2.7 Mud Data

Bariod Fluid Services (Halliburton) provided the drilling mud for the Longtom 4, 4 P and 4 H program. A summary table and a full report of drilling fluids, physical mud properties and chemicals used are contained in the Drilling Fluids Report in APPENDIX 6.

2.8 Testing

Expro Group Australia provided services for the welltesting of Longtom-4H through their branch divisions of Expro Cased Hole Services, who provided Edge-X surface data acquisition equipment, and Expora Well-test Services.
The well was completed with 10 ¾" casing set at 2,591 mMDRT across the uppermost reservoir zones (the 400 Sands) and with a fully cemented 7" liner covering the remaining 200, 100 and 50 Sands.
A full summary of the well completion sequence of events are contained in the Well Test Report contained in APPENDIX 14.

3 FORMATION EVALUATION

3.1 Mudlogging

3.1.1 Mudlogging

Baker Hughes INTEQ SLS provided formation evaluation, drill monitoring and sampling services for Longtom-4, -4 P and -4H from the spud depth at 97.0 mMDRT, on 21 June 2008 to final well TD of 4648.0m MDRT/2696.19m TVDRT for Longtom-4 H reached on 10 August 2008. Data was processed and stored using Advantage version 2.10U2 software. All depths were measured depth below Rotary Table (mMDRT) referenced to Australian Height Datum (AHD) unless otherwise stated.

3.1.2 Ditch Cutting Samples

Cuttings from Longtom-4 were collected and described from 758 (first returns) to 2600mMDRT (Longtom-4 TD). A singular, 22 metre ditch cutting sample was collect from 758 to 780mMDRT (drill out of casing to FIT point). From there onwards, 30 metre samples were collected to 1200mMDRT. Ten meter samples were collected from 1210 to 1600mMDRT, and five metre samples collected from 1600 to 2600mMDRT (TD of Longtom-4). Cuttings from Longtom-4 P were collected and described at five metre intervals from 2600 to 2988mMDRT (TD of Longto-4 P). Cuttings from Longtom-4 H were collected at five metre intervals from 2988 to 3505mMDRT, at which point ten metre samples were then collected to 4648mMDRT (Final TD).

The wellsite daily geological reports are provided in APPENDIX 8 and mudlogger's cuttings descriptions in APPENDIX 9.

3.2 Coring

3.2.1 Coring

A 54m conventional core for detailed petrophysical and depositional studies was cut from 2841 to 2895mMDRT in the 241mm (9½") Pilot Hole. A full Coring report and results of the core analysis are contained in APPENDIX 11 AND APPENDIX 12, respectively. A description of the lithology of the cored section, along with its environmental interpretation, is contained in ENCLOSURE 6.

3.2.2 Sidewall Cores

SWC No.	Depth	Length		SWC No.	Depth	Length
1	2600mMDRT	44mm		31	2443mMDRT	20mm
2	2598mMDRT	34mm		32	2381mMDRT	15mm
3	2595mMDRT	42mm		33	2358mMDRT	Lost
4	2590mMDRT	48mm		34	2322mMDRT	Lost
5	2587mMDRT	35mm		35	2304mMDRT	20mm
6	2582.5mMDRT	45mm		36	2232.5mMDRT	27mm
7	2579.5mMDRT	60mm		37	2189mMDRT	20mm
8	2575mMDRT	45mm		38	2112mMDRT	20mm
9	2574.5mMDRT	45mm		39	2105mMDRT	Lost
10	2570mMDRT	47mm		40	2042.5mMDRT	23mm
11	2567.5mMDRT	43mm		41	1985mMDRT	24mm
12	2566mMDRT	44mm		42	1847mMDRT	21mm
13	2565mMDRT	40mm		43	1793mMDRT	20mm
14	2563mMDRT	41mm		44	1776mMDRT	19mm
15	2557.5mMDRT	35mm		45	1762mMDRT	24mm
16	2552mMDRT	46mm		46	1761mMDRT	25mm

SWC No.	Depth	Length		SWC No.	Depth	Length
17	2546mMDRT	47mm		47	1734mMDRT	26mm
18	2540mMDRT	43mm		48	1705mMDRT	19mm
19	2525mMDRT	48mm		49	1703.5mMDRT	21mm
20	2518mMDRT	45mm		50	1701mMDRT	33mm
21	2513mMDRT	45mm		51	1700mMDRT	25mm
22	2506.5mMDRT	43mm		52	1697.5mMDRT	25mm
23	2501mMDRT	54mm		53	1685mMDRT	21mm
24	2497mMDRT	47mm		54	1662.5mMDRT	23mm
25	2493mMDRT	50mm		55	1653mMDRT	27mm
26	2472mMDRT	50mm		56	1598mMDRT	Lost
27	2453mMDRT	41mm		57	1565mMDRT	21mm
28	2443mMDRT	Misfired		58	1494.5mMDRT	20mm
29	2411mMDRT	44mm		59	1294.5mMDRT	23mm
30	2381mMDRT	Misfired		60	1285.5mMDRT	25mm

Table 5: Longtom-4 Sidewall Cores

SWC No.	Depth	Length		SWC No.	Depth	Length
1	2985mMDRT	Empty		31	2750mMDRT	24mm
2	2980mMDRT	Empty		32	2748mMDRT	23mm
3	2975mMDRT	6mm		33	2745mMDRT	18mm
4	2972.5mMDRT	Misfired		34	2741mMDRT	26mm
5	2970mMDRT	11mm		35	2738mMDRT	25mm
6	2968mMDRT	10mm		36	2732mMDRT	30mm
7	2967mMDRT	Misfired		37	2725.5mMDRT	18mm
8	2966mMDRT	27mm		38	2717.5mMDRT	26mm
9	2965mMDRT	28mm		39	2714mMDRT	26mm
10	2963mMDRT	11mm		40	2710mMDRT	20mm
11	2961.5mMDRT	23mm		41	2705mMDRT	21mm
12	2957.5mMDRT	5mm		42	2694.5mMDRT	14mm
13	2956mMDRT	16mm		43	2682mMDRT	13mm
14	2950.5mMDRT	12mm		44	2673.5mMDRT	12mm
15	2942mMDRT	10mm		45	2668.5mMDRT	16mm
16	2929.5mMDRT	Lost		46	2657.5mMDRT	15mm
17	2912mMDRT	12mm		47	2656mMDRT	23mm
18	2895.5mMDRT	12mm		48	2654.5mMDRT	22mm
19	2835mMDRT	Lost		49	2649mMDRT	16mm
20	2830mMDRT	12mm		50	2634.5mMDRT	18mm

SWC No.	Depth	Length		SWC No.	Depth	Length
21	2826mMDRT	25mm		51	2634mMDRT	15mm
22	2825mMDRT	22mm		52	2626.5mMDRT	19mm
23	2820mMDRT	12mm		53	2624.5mMDRT	20mm
24	2810.5mMDRT	10mm		54	2622.5mMDRT	Lost
25	2798.5mMDRT	11mm		55	2619mMDRT	26mm
26	2798mMDRT	12mm		56	2615mMDRT	25mm
27	2784mMDRT	17mm		57	2609.5mMDRT	16mm
28	2777mMDRT	20mm		58	2609mMDRT	14mm
29	2766mMDRT	17mm		59	2602mMDRT	20mm
30	2757.5mMDRT	25mm		60	2596mMDRT	12mm

Table 6: Longtom-4P Sidewall Cores

3.3 MWD/LWD Logging

Real-time MWD Gamma Ray (GR) and Resistivity (ARC) log was obtained during drilling of the 13 ½" hole section for Longtom-4. Realtime ECOSCOPE (ECS-ARC-ADN-GR) information was gathered in the 9 ½" hole sections of both Longtom-4 P and Longtom-4 H. MWD and LWD data obtained are summarized in the following tables;

LWD/MWD LOGS				
RUN NO	HOLE SIZE	TOOLS	INTERVAL mMDRT	COMMENTS
LONGTOM-4				
100	13 ½"	ARC-ADN-GR	758-2031m	POOH due to drop in angle and no steering.
200	13 ½"	ARC-ADN-GR	2031-2600m	POOH at section TD.
LONGTOM-4 P				
300	9 ½"	ECOSCOPE	2600-2841m	POOH at core point.
400	9 ½"	ECOSCOPE	2896-2987m	POOH at section TD.
LONGTOM-4 H				
500	9 ½"	ECOSCOPE	2690-3577m	POOH due to loss of comms with tool.
600	9 ½"	ECOSCOPE	3577-4648m	POOH at well TD.

Table 7: LWD Logging Run Summary

The Schlumberger D&M LWD End Of Well Report is contained in APPENDIX 10 (combined with the Directional Drilling EOWR).

3.4 Wireline Logging

The following wire line logs were acquired by Schlumberger at TD of Longtom-4 and Longtom-4 P. No wireline logs were obtained in Longtom-4H.

Longtom-4 and Longtom-4P

Log Type	Suite/Run	Interval	BHT/Time	Comments
DSI – XPT – GR	1/1	2520.5 – 52mMDRT	98.89°C/23.08hrs	
MDT – GR	1/2	2576.1 – 1731.2mMDRT	107°C/36.28hrs	19 pre-tests taken, 12 lost seals, and 1 dry test. MDT did not seal at depths below 2500mMDRT, possibly due to washouts or bad hole conditions.
CST – GR**	1/3	2600 – 2381mMDRT	58.93hrs	30 bullets fired, 28 cores recovered, 2 bullets misfired.
CST – GR	1/4	2443 – 1285.5mMDRT	58.93hrs	30 bullets fired, 26 cores recovered, 4 lost, 0 misfired.
MDT – GR	1/5	2576.8 – 2218.7mMDRT	107°C/93.38hrs	31 pre-tests taken, 8 lost seals, 1 dry test.
DSI – XPT – GR	2/1	2975 – 2035mMDRT	121°C/24.32hrs	
CST – GR	2/2	2985 – 2596mMDRT	39.15hrs	60 bullets fired, 53 cores recovered, 3 lost, 2 bullets misfired, 2 empty.

Table 8: Wireline Logging Run Summary

** A second wireline run to obtain 60 CSTs was required as the second gun in Run 3 (Suite 1) failed to activate allowing only 30 cores to be shot.

3.5 Temperature Surveys

During wireline logging operations at the TD of Longtom-4 and Longtom-4 P, the following maximum temperatures were recorded. Specific data was used to extrapolate an estimated BHT for the Longtom 4 TD of 2600 mMDRT.

Insufficient data was gathered to determine a BHT for Longtom-4 P or at any point along Longtom-4 H.

As shown in Figure 4, this data was used in a Horner-type plot to derive an extrapolated bottom hole temperature of *123.5°C*: giving an approximate geothermal gradient of *5.3 deg/100m* for this location.

Longtom-4 (13 ½" hole): Suite 1, Runs 1 through 5

Run 1: DSI – XPT – GR: Max temp of *99°C*, 23 hours after circulation was stopped.

Run 2: MDT – GR: Max recorded temperature of *107°C*, 36 hours, 15 mintues, after circulation was stopped.

Run 5: MDT – GR: Maximum recorded temperature of *107°C*, 13 hours after circulation was stopped.

Longtom-4 P (9 ½" hole): Suite 2, Run 1 and 2

Run 1A: DSI-XPT-GR: Maximum recorded temperature of *121°C*, 24.75 hours after circulation was stopped.

4 POST WELL ANALYSIS

4.1 Palynology

Fifty-two sidewall core samples were analysed from the Longtom-4, 4 P and 4 H wells for determining palynological biozonation of the Latrobe Group. Analysis and interpretation was conducted by BioStrata Pty Ltd. Full results are presented in APPENDIX 12 with zonations summarized in a Basic Palynological Range Chart contained in ENCLOSURE 5.

4.2 Extract GC Analysis

Surface samples were collected during well testing operations on Longtom-4 H (no reservoir samples were collected during MDT operations). These samples were sent to PetroLab for Compositional and Fingerprint analysis, with Geotechnical Services Pty. Ltd performing metal analysis (metals in gas). All results are presented at the end of the Well Test Report in APPENDIX 15.

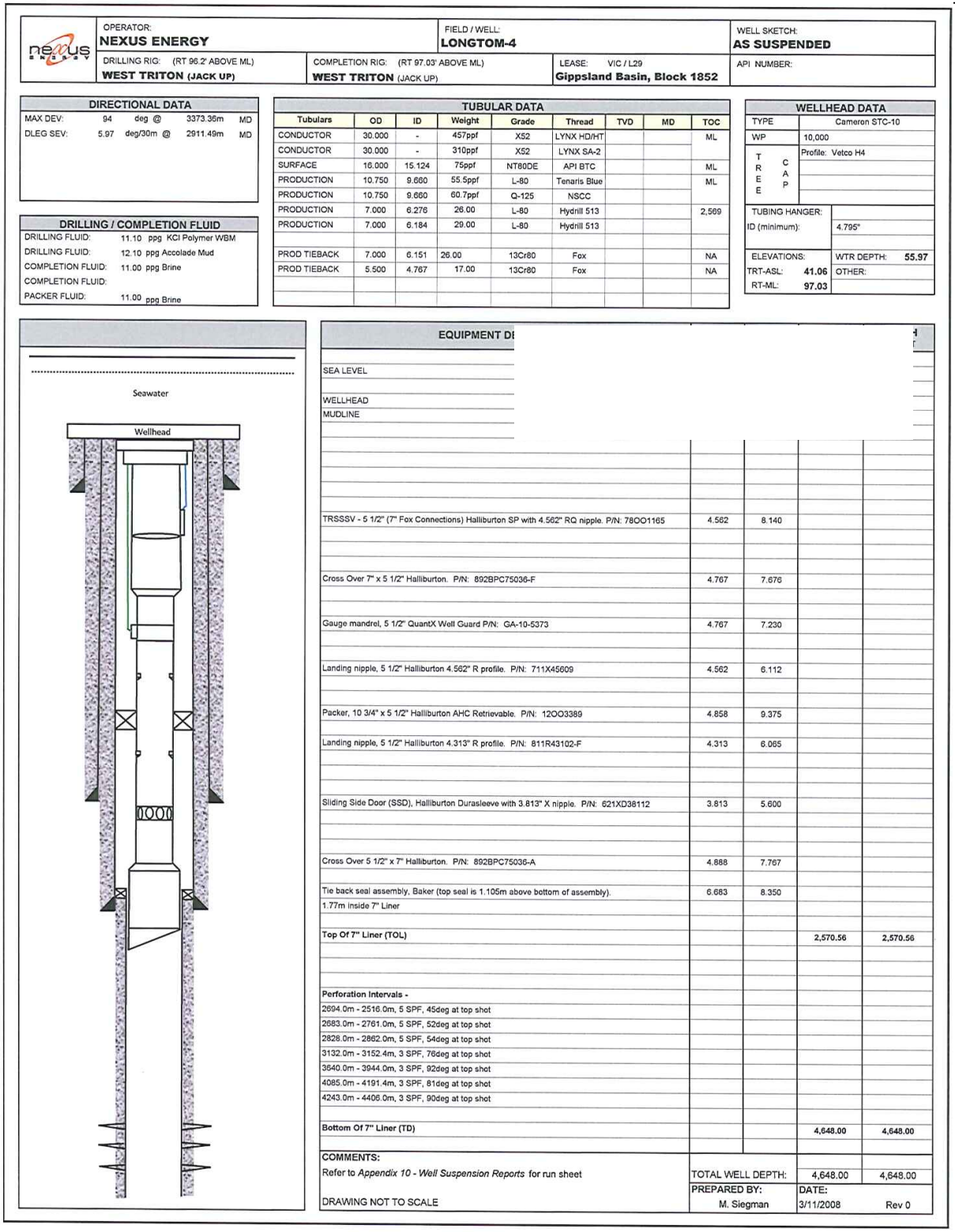

Figure 3: Longtom-4 Suspension Diagram

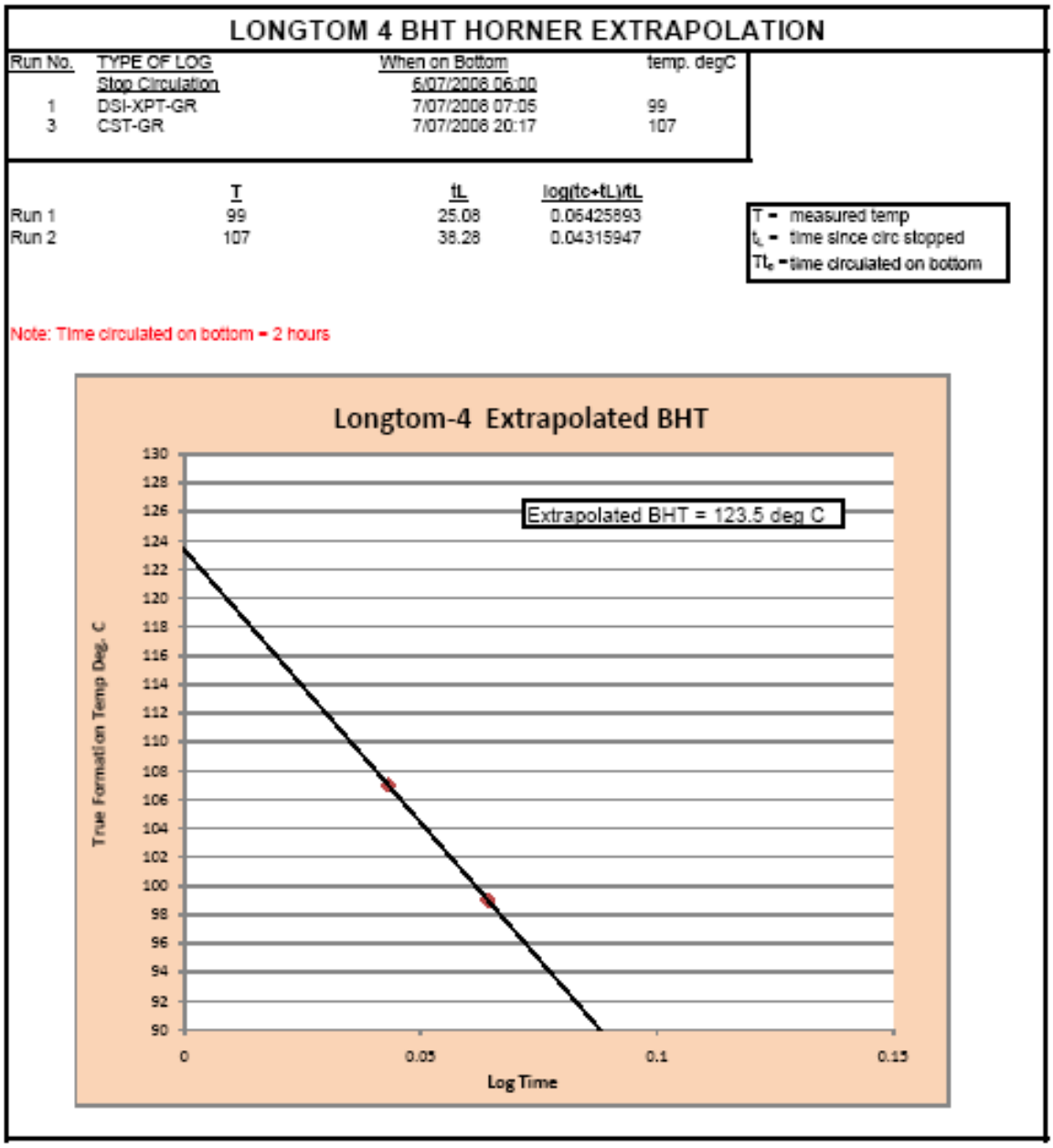

Figure 4: Longtom-4 BHT Horner Extrapolation Plot

APPENDIX 1: DRILLING END OF WELL REPORT

End of Well Report

LONGTOM-4

1	0	Final Copy	DE	SDE	DES	9/01/09
1	A	Issued for comment	DE	SDE	DES	24/10/08
Issue	Rev	Description	Prepared By:	Reviewed By:	Approved By:	Date:

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7	Nexus	Subsea Engineer	1
8	Nexus	HSEC Manager	1

2. Approvals

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	9/1/2009
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	9/1/2009
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Approved by:

	9/1/2009
ADA Drilling Superintendant	Date

	9/1/2009
Nexus Energy Ltd	Date

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3. Executive Summary

Longtom-4 was drilled and completed as a horizontal subsea development well by the Atlas Drilling jack-up, *West Triton*. The well has a Cameron spool tree and single 7in x 5.5in completion installed, with the upper group of perforations isolated behind tubing between the completion packer and a liner-top seal assembly.

Total time for Longtom-4 amounted to 91.42 days, compared to the planned (AFE) time of 82.1 days, representing an overrun of 9.32 days (11.35%). For accounting purposes the well was split into three main parts:

- Longtom-4 which covered the time between rig mobilisation and completion of subsea tree installation operations
- Longtom-4P which covered all pilot hole activities
- Longtom-4H which covered the time between end of pilot hole abandonment and rig release, including all production hole drilling, perforating, well completion and production testing activities

WELL PHASE	Planned	Actual	Total NPT	Rig Repair	WOW	Delta
Longtom-4	24.6	35.31	12.3	5.37	2.5	+10.71
Longtom-4P	9.6	7.41	0.94	0.42	0	-2.19
Longtom-4H	47.9	48.7	22.87	0.52	0.87	+0.8
TOTAL (days)	**82.1**	**91.42**	**36.11**	**6.31**	**3.37**	**+9.32**

Based on the data in the table above, the time overrun was largely due to problems encountered in the early part of the well (Longtom-4 Phase) where NPT excluding WOW accounts for the difference between planned and actual time. However, two major problems in the Longtom-4H phase accounted for 20.09 days NPT, that was offset by the shorter times spent drilling the horizontal section and spent rigging down and moving off, where WOW contingency built into the schedule was not used. These two problems involved cementing the 7in liner and rerunning the completion due to the Halliburton HF-1 packer failing to set. The shorter time spent drilling the horizontal section was due to improved ROP and reduction in TD from 5000m to 4648m.

The final estimated cost for Longtom-4 was A$88.19 million compared to the original AFE amount of A$81.99 million. A supplement to the original AFE was submitted in September increasing the AFE amount to A$90.38 million. The NPT cost is estimated at A$42.25 million.

Longtom-4 well was a challenging horizontal well having a proposed maximum total depth of 5000m[1] and a planned tortuosity of 160º (undulating sinusoid horizontal). Actual TD was revised to 4648m. To meet the well design challenges, several non-typical design features were incorporated. A weighted, non-aqueous synthetic based mud (SBM) was used to overcome well bore stability and friction concerns, and the hole/casing program was up-sized to overcome concerns relating to high equivalent circulating density (ECD). This required 16in and 10.75in casing and 9.5in hole to TD.

The subsea well design introduced complexities unusual to jack up operations:

- Use of a subsea wellhead without PGB and guidelines creating re-entry problems in adverse weather conditions.
- Handling a 22in OD high pressure riser, with Vetco H4 connector that could not pass through the rotary table.
- Handling the SST.

Overall HSE performance was very poor with a total of 37 incidents reported including 1 serious near miss, 2 medical treatment incidents and 3 spills of SBM to the environment (only two of these spills were reportable to DPI). The severity and frequency of HSE incidents triggered a Nexus senior management visit to the rig to express alarm at the potential for fatalities and other serious injuries based on the incident trend.

[1] All depths reported are mMDRT, unless specified as mTVDRT or mTVDSS

Failure of Seadrill senior management to provide a stable supervisory team on the rig resulted in short manning, excessively long hitches due to lack of relief, and low morale. Further discussions were held at senior management level between Nexus, ADA and Seadrill to express dissatisfaction with Seadrill's HSE management of the rig.

The main highlights on the well included:

- A sinusoidal horizontal well (94°max deviation), with pilot hole, was successfully drilled, completed and tested before being suspended.
- Cut 55m of core in the pilot hole, with 99% recovery.
- The well reached TD 4.63 days ahead of AFE time.
- Handled and successfully deployed a SST for the first time on the *West Triton.*
- Used SBM for the first time on the *West Triton* without harming personnel.
- The well flowed successfully at a sustained maximum rate of 58mmscf/d through a 1 inch choke, being limited by the separator capacity of 60mmscf/d.

The main disappointments from the well included:

- A poor HSE performance
- Rig fuel was contaminated by seawater from a leak in the return-fuel heat exchanger and caused 48.5hrs NPT due to total power failure on the rig and the need to replace the fuel injectors on all engines.
- The SSR cement head was incorrectly assembled when rebuilt by Halliburton, onshore, causing premature release of the DP dart, leading to 40hrs NPT for cementing the 10.75in casing.
- Spill of 21bbls of SBM to the sea while backloading, due to failure of the transfer hose which contained a section that was not rated for oil service.
- Circulation through the 7in liner shoe became blocked, for reasons still unknown, preventing conventional cementing of the liner and causing 209.75hrs (8.74 days) NPT.
- Failure of the Halliburton HF-1 packer to set due to an assembly error, in the manufacturing plant, resulted in 249.5hrs (10.40 days) NPT while the completion was pulled and rerun.

4. Well Summary & Overview

4.1 Well Summary

Well Name		Longtom-4	
Country		Australia	
Designation		Development / Appraisal	
Field Name		Longtom	
License/Permit		VIC / L29, Gippsland Basin, block 1852	
Rig Name/Type		*West Triton* / Jack Up	
Field Operator		Nexus Energy Pty Ltd	
Participants		Nexus Energy: 100%	
Longtom - 4	On Contract	19 June 2008 @ 0900 hrs	35.31 d
	Arrived Location	19 June 2008 @ 1130 hrs	
	Spud	21 June 2008 @ 0130 hrs	
	13.5in Section TD	6 July 2008 @ 0600 hrs	
Longtom – 4 P	Commence	24 July 2008 @ 1630 hrs	7.341 d
	9.5in PH Section TD	28 July 2008 @ 2100 hrs	
Longtom – 4 H	Commence	1 August 2008 @ 0000 hrs	48.80 d
	FTD	10 August 2008 @ 0230 hrs	
	End Drilling Phase	24 August 2008 @ 0530 hrs	
	End Compl. Phase	17 September 2008 @ 1130 hrs	
	Rig Released	18 September 2008 @ 1900 hrs	
Total Well Time - Actual		91.42 days	
Total Well Time - AFE		82.1 days	
Total Depth		4,648mMDRT / 2696.19mTVDRT	
Maximum Deviation Angle		94.02 º	
Water Depth		55.97 m	
RT above MSL		41.06 m	
Grid Co-ordinate System		GDA 94/MGA94, Zone 55	
Surface Location	Latitude	38° 06’ 17.707” South	
	Longitude	148°19’ 59.944” East	
	Easting	616,897.309 mE	
	Northing	5,781,704.499 mN	
Bottom Hole Location	Latitude	38° 07’ 49.050” South	
	Longitude	148° 19’ 51.812” East	
	Easting	616,658.87 mE	
	Northing	5,778,891.91 mN	
30in Conductor		128.8mMDRT / 128.8mTVDRT	
16in Surface Casing		750.03mMDRT / 750.03mTVDRT	
10.75in Production Casing		2,590.78mMDRT / 2,344mTVDRT	
7in Production Liner		4,648mMDRT / 2696.19mTVDRT	

4.2 Casing and Cementing Data

4.2.1 Casing Data

Type	OD (in)	Weight (ppf)	Grade	Connection	Setting Depth (mMDRT)
Conductor	30 (24in shoe)	457 / 310 (1½/1" wall)	X-52	Lynx HD/HT Lynx SA-2	128.8
Surface Casing	16	75	NT80DE	API BTC	750.03
Production Casing	10.75	55.5 / 60.7	L-80 / Q125	Tenaris Blue / NSCC	2,590.78
Production Liner	7	26 / 29	L-80	Hydril 513	4,648.00
Production Tubing	7 & 5.5	26 17	13Cr-80	Fox-K Fox-K & Vam Top	2,570.77

4.2.2 Cementing Data

String Cemented	Cement Additives	Cement Type	Mix Water (gal/sk)	Dry Cmt Vol (sks)	Slurry Vol (bbls)	Slurry Density (ppg)	Cement Interval (mMDRT)	Csg Test Pressure (psi)
30in	Calcium Chloride 1% BWOC	OWG	5.12	800	168	15.9	132.8 – 97.03 (Sea bed)	NA
16in Lead Slurry	Econolite Liquid 15 gal/10bbl NF-6L 0.5 gal/10bbl	OWG	12.54	1324	525	12.5	550 – 97.03 (Seabed)	2000psi
16in Tail Slurry	CFR-3L 3 gal/10bbl NF-6L 0.12 gal/10bbl	OWG	5.12	1129	235	15.8	750 - 155	2000psi
10.75in	Halad-413L 15.0 gal/10bbl CFR-3L 3.0 gal/10bbl SCR-100L 3.5 gal/10bbl	OWG	4.89	969	200	15.8	2591 – 1900 (est)	4500psi
9.5in Pilot Hole Plugback	CFR-3L 3.0 gal/10bbl SCR-100L 4.0gal/10bbl	OWG	4.31	256	52	16.5	2848 – 2690 (tagged 25klbs)	NA
7in Liner Remedial – Lower. (HTB)	Halad-413L 15.0gal/10bbl Gascon-469 16 gal/10bbl CFR-3L 3.0 gal/10bbl SCR-100L 4.0gal/10bbl NF-6L 0.1 gal/10bbl	HTB	5.32	600	138	15.0	4560 – 3550	NA

7in Liner Remedial - Upper	Halad-413L 15.0gal/10bbl	HTB	5.32	133	30	15.00	2675 - 2569	500psi
	Gascon-469 16 gal/10bbl							
	CFR-3L 3.0 gal/10bbl							
	SCR-100L 4.0gal/10bbl							
	NF-6L 0.1 gal/10bbl							

4.3 Operations Summary

4.3.1 Rig Mobilisation and Rig Up

The *West Triton* rig move to Longtom-4 from the Nexus operated Garfish-1 location commenced on 19 June 2008 @ 0900hrs. The rig arrived on location on 19 June 2008 @ 1130hrs, at which time pre-loading operations commenced (three legs preloaded simultaneously). 100% preload was held for two hours before dumping preload and jacking up to operating air gap of 17m. The Texas deck was lowered to drilling position when the cantilever was extended, and 3.5hrs of NPT was incurred due to skidding the cantilever out to 52ft extension to allow generator #4 to be removed for repair. Total time taken to move the rig / pre-load and set up for drilling operations was 28.0hrs.

4.3.2 Drilling 36in Hole section / Setting 30/24in Conductor

Longtom-4 was spudded on 21 June 2008 @ 0120hrs with a 26in 1-1-1 milled tooth bit, 36in hole opener and 9in MWD. Angle was measured at 0.24 degrees by the MWD after tagging the seabed. Due to adverse weather conditions, ROV monitoring of spud/drilling was not possible. It should be noted that a workclass ROV (WCROV) had been mobilised for subsea operations and a suitcase ROV had been mobilised when problems were encountered with same.

The section was drilled from 97.03m to section TD at 132.8m in 2.5hrs using sea water with high viscosity PHG (pre-hydrated gel) sweeps. The bottom-hole deviation was measured at 0.56º. At TD the hole was swept with 200bbls of flocculated bentonite sweeps and displaced to inhibited mud (remaining from previous well) prior to POOH.

The 30in conductor, together with a low pressure marine wellhead, was stabbed blind into the hole, due to inclement weather preventing launch of either ROV. The conductor was run to a setting depth of 128.8m and successfully cemented with 168bbls of 15.9ppg Class G cement with 2% $CaCl_2$. The depth to the top of the LP well head was 95.1m. Cement returns to mudline were later verified when ROV was able to dive.

The 18.75in high pressure wellhead running tool was made up to a stand of 5.5in drillpipe and racked back in the derrick.

4.3.3 Drilling 22in Hole Section / Setting 16in Casing

A total of 8.5hrs of WOW was experienced whilst attempting to stab the 22in 1-1-5 milled tooth bit / pendulum BHA / 9in MWD assembly into the 30in LP wellhead due to adverse sea state / winds and WCROV problems. Eventually the suitcase ROV was able to provide visual guidance, and the well was successfully re-entered.

Top of cement was tagged at 124.9m and the shoe track was drilled out. The section was drilled in one bit run to section TD of 755m using seawater and 3 x 50bbl PHG sweeps every stand. The average on-bottom ROP for the section was 23m/hr. The on-bottom well angle was measured at 0.7º.

After reaching TD at 755m the hole was swept with 150bbl of bentonite mud, then displaced with 395bbl of bentonite mud and 723bbl of inhibited mud (remaining from Garfish-1). Whilst pulling out of hole, a 30klb overpull was encountered at 741m. The hole was slowly back reamed to 726m. A second tight spot at 668m was cleaned up with rotation/pumps.

The 16in surface casing was run to the mudline, but could not be stabbed onto the well due to current and wave action. Visibility for the ROV was severely restricted by mud from the hole and the pile of cuttings surrounding the wellhead. The wellhead area was “jetted” through the casing shoe while working the casing at surface to attempt entry of the well. During this period, the WCROV lost all power and drifted into the port leg. Fortunately power was restored after a short

period and the vehicle was able to free itself and return to the wellhead where it observed entry of the casing into the well. A total of 7 hours NPT was incurred with this operation (5.5hrs WOW and a further 1.5 hrs NPT due to the ROV failure). The casing running continued until repairs were required to straighten badly bent retaining plates on the solid body elevators (4hrs NPT – Seadrill equipment).

Prior to picking up the HP wellhead, drill pipe was run as an inner cementing string. This was connected to the running tool, which was already made up into the wellhead, immediately prior to the wellhead being made up top the casing string. The 16in shoe was landed at 750m and the inner string cement job was successfully completed, with returns to the mudline. Running of the inner string was hampered by unavailability of the Iron Roughneck.

4.3.4 Running 22in High Pressure Marine Riser / Rig-up BOP / Clean out 16in Casing Shoe

The riser running equipment was rigged up and the 22in high pressure riser, together with a slim-line H4 connector, that was specifically designed to pass through the drill slot in the Texas deck, was run to 60m. At this point of time operations were shut down due to high winds, high seas and high current that resulted in withdrawal of fast rescue craft (FRC) capability by the boats and prevented further work on the Texas deck. A total of 22.0hrs were lost due to weather during this operation.

After restarting work, a further 1.5hrs were lost releasing the 22in slips on the riser which had become wedged in the slip bowl due to the wave action on the pipe. Eventually, the hydraulic connector was successfully latched to the wellhead with ROV assistance, and confirmed with 50klbs overpull. A 500psi pressure test was unsuccessful due to a surface leak with the Dril-Quip running tool.

The conductor tensioner unit was installed around the riser. However problems with the pressure regulating valve and the lower/raise function valve were encountered causing uneven stroking of the unit and difficulty installing the Claxton clamp resulting in 6.5hrs of NPT.

The BOP was nippled up and 200MT of tension was applied to BOP/HP riser system. The riser and 16in casing was successfully pressure tested against the blind/shear rams to 2000psi.

A 14.75in 1-1-5 milled tooth bit on slick BHA was run (singling in drillpipe off the deck) to cleanout the 16in shoe. TOC was encountered at 736m. The cement/rathole was cleaned out and new formation drilled to 758m, where a leak-off test measured the formation strength at 13.7ppg. This was 0.4ppg below the expected rock strength, however the kick tolerance was considered adequate to drill the next hole section.

4.3.5 Drilling 13.5in Hole Section / Logging / Setting 10.75in Casing

A 13.5in 6 blade x 16mm cutter PDC bit was run on rotary steerable / MWD / LWD BHA (Schlumberger's Power Drive 900; PowerPulse 8; ARC8 & ADN8). At the 16in shoe, the well was displaced to a 12ppg SBM (Baroid's Accolade) system. Directional kickoff began at 780m with angle building to 30° at 1220m on an azimuth of 183.5°. Drilling continued, holding angle and direction to 2031m where angle had dropped to 27° due to a failed rotary steerable system. The round trip to replace the failed BHA components and the bit cost 27.5hrs of NPT. No problems were experienced pulling out of hole or running back in.

Drilling continued while maintaining 31° of inclination before starting to build angle at 2316m to 36° inclination. The remainder of the hole section was drilled as per geological instructions to TD at 2600m. Below 2400m 34.5hrs were lost due to hammer union leaks in both stand pipes. On the trip out there were several tight spots between 2316m and 1741m and back reaming was required to 1604m. At this point the bit was run back in hole to 1781m before pulling out to surface trouble-free. Rigged up Schlumberger wire line and ran the following logs:

Run #1
XPT/DSI was RIH to hold up depth of 2525m, where several unsuccessful attempts were made to obtain formation pressure readings. The tool became stuck briefly at 1832m before pulling free. Several more unsuccessful attempts were made to obtain pressure information before logging out with the DSI from 2520m to 50m. On surface the probe was found to be protruding, the sealing packer was cracked and two standoffs had missing fins.

Run #2
MDT/GR was RIH as a replacement log for the failed XPT, to 2568m. 25 pressure seats were attempted, with only 6 providing pressure information.

Run #3
A 60 bullet SWC/GR gun was RIH to 2600m. 30 shots were fired but the second gun failed to fire at all. On inspection at surface it was observed that only 28 shots had fired with 2 misfires, and 28 cores were recovered.

Run #4
A 30 shot SWC/GR was RIH to 2443m as replacement for the failed gun in Log #3. All 30 shots fired. On inspection of SWC at surface it was observed that 30 shots had fired with 4 bullets missing. Of the 26 shots recovered there was 100% recovery of formation samples.

As some overpull was encountered while POOH with logging run #4 a decision was made to run a wiper trip to 2600m prior to run #5 (MDT). This run included a boot basket to potentially catch junk left in the hole from the XPT and CST runs. In total there was 21.5hrs NPT due to the failures of the XPT and CST tools.

Made up and RIH with wiper trip assembly (re-run bit #5 - M516LSPX) including junk sub. No obstructions or excess drag was noted on the trip in, but the rig blacked out while breaking circulation one stand from bottom. After restarting the power system, reamed to bottom, worked junk sub and circulated bottoms up. POOH with no excess drag noted. Upon inspection at surface a total of eight (8) SWC bullet retaining rings were found on the NBS and no junk was recovered in the junk sub.

Run #5
The MDT/GR was run as per geologist requirements, with no hole problems encountered.

Following logging operations, while jetting the BOPs prior to pulling the wear bushing there was a total power failure on the rig. Cause of the failure was sludge and water found in the bottom of the diesel day tank. Investigation revealed that there was no drain hole drilled in the bottom of the day tank although the drain line was in place. Further investigation established that the source of the water was a leak in the return-fuel heat exchanger. A total of 48.5hrs were lost due to this event as a 0.5in drain hole had to be drilled in the day tank and fuel filters and injectors on four engines were replaced. Additionally, the contaminated fuel had to be removed from the day tank and be replaced with purified fuel.

Following the remedial operations the wear bushing was recovered with very light wear being noted.

The cement stand, casing hanger and running tool were made up and racked back prior to running 10.75in casing. 0.5hrs were lost during this period as the bail retaining plates on the top drive were bent and had to be changed out. The 10.75in casing was RIH to 750m and an RA pip tag was installed between joints #214 and #215. As difficulty was encountered with passing centralisers through the wellhead the last 7 centralisers were deleted. The casing was run to 2590.78m and preparations were made to cement same.

After pumping 46 bbls of tuned spacer, pump pressure increased from 430psi to 2,700psi and then decreased back to 430psi. It was suspected that both top and bottom SSR cement plugs had sheared, so the ball to release the bottom plug was dropped, but there was no pressure increase to indicate the ball seating in the plug. This confirmed the suspicion that both plugs had

released prematurely, and was further confirmed when the plug bumped after pumping the casing volume, without pumping cement. The casing running tool was released and the cement head rigged down whereupon it was confirmed that the dart was missing from the cement head. It was later determined that the cement head had been incorrectly assembled with the wrong release bar for the dart.

After installing the wear bushing a 9.5in MX-1 bit was RIH and the plugs, float collar and shoe were drilled out. Two joints of 2⅞in tubing was then run as a cement stinger on drill pipe below an RTTS packer which was set at 140m (end of stinger at 2499m). The casing was cemented with 200bbl of 15.8ppg class G cement, with 5.5hrs WOC before releasing the RTTS and POOH with same. A total of 65hrs of NPT was incurred with this remedial cementing operation.

4.3.6 Longtom-4P: Drilling 9.5in Pilot Hole / Coring / Logging / Abandonment

Following completion of the remedial cementing operations on the 10.75in casing, a second barrier in the form of an RTTS packer was set at 155m inside the 10.75in casing prior to installing the subsea tree (SST). Details for running and testing the SST are covered in the report titled "Longtom-4H Well Handover Report (LT-PM-RP-0007), 17/12/08". In summary though, the SST installation involved nippling down BOPs, pulling 22in HP riser, skidding the cantilever in to pick up the SST from the transom, running SST on HWDP and landing on 18.75in wellhead, pulling the landing string, rerunning 22in riser, nippling up the BOPs and diverter, pulling the RTTS and pressure testing the casing, SST and riser.

Total time associated with SST installation was 165hrs (6.88 days) of which 49.5hrs was NPT. The main NPT items were WOW to resume work on the Texas deck (25 hours), Top Drive repairs (17 hours) and ROV problems (3.5 hours).

Following SST installation, the 9.5in pilot hole was begun. The 9.5in BHA comprising rotary steerable system (Xceed 675), Ecoscope and Telescope tools was RIH and tagged cement at 2551m. After drilling out, an FIT was conducted to 14ppg EMW before drilling ahead to core point at 2841m. RST failure caused hole angle to drop approximately 1 degree per stand drilled below 2650m. Whilst POOH, 3 hours were lost backreaming at 60m/hr over several intervals to capture MWD/LWD data missed whilst drilling the section.

An 8.5in corehead and 63m core barrel cut core from 2841m – 2896m (55m)with 99% recovery. A 9.5in rotary steerable BHA (Xceed 675), with Ecoscope and Telescope tools was used to ream the core rat hole and drill to section TD at 2987m. A total of 3hrs were lost going in the hole due to this repeat logging operations.

The following logging runs were made in the 9.5in Pilot hole section:

<u>Run #1</u>
XPT/DSI took 40 pressure tests in the interval from 2603m – 2967.5m before the tool became stuck at 2986m for 20mins requiring 8500lbs overpull to free same. DSI logging commenced from this point up the hole to 2050m.

<u>Run #2</u>
6.5hrs were lost due to the GR tool failures before successfully running the 60 shot CST gun to 2600m and logging out. 53 samples were obtained, with two misfires, three bullets lost and two empty.

Following logging operations a 2⅞in cement stinger consisting of a mule shoe and 16 joints of 2⅞in tubing was RIH on 5.5in drill pipe. During this operation rig power failed when two main engines dropped off line. Five injectors on engine #2 were changed out and 6 injectors on engine #3 were cleaned resulting in 6.5hrs NPT. Upon resumption of operations a balanced cement plug was set from 2848m to 2698m.

4.3.7 Longtom-4H: Drilling 9.5in Production Hole / Setting 7in Liner

The 9.5in bit (Reed Hycalog RSR616M-B3) and BHA comprising rotary steerable system (Xceed 675), Ecoscope and Telescope was made up and RIH to TOC at 2690m. 13 hours were lost during this operation due to Top Drive problems (3hrs) and WOW due to high winds (10hrs). The well was side tracked off the cement plug over the interval 2696m to 2727m (95% formation in the cuttings) in 14 hours.

The 9.5in horizontal hole section (Longtom-4H) was geosteered under the direction of the Nexus Project Geologist. Torque & Drag modelling and rig floor supervision for the trips for this section was provided by K&M Technology.

Drilling continued to 3577m where ongoing problems with the MWD tool (pumps had to be constantly cycled to restart data transmission) forced a trip to change out same. The hole was circulated clean with 2 x bottoms up before POOH. Tight spots were encountered from 3230m to 3147m, and from 2751m to 2748m (35klbs maximum overpull), but no pumping or backreaming was required. The MWD tools were changed and a new PDC bit (RSX616M-A4) was made up. On the trip in, a tight section from 3129m to 3289m (max 40klbs over sliding weight) was washed before RIH to bottom. Total trip time was 37 hours, which included 3 hours of Top Drive repairs and 3.5 hours to slip and cut the drill line.

Drilling continued trouble-free to TD at 4648m MDRT. The hole was then circulated for 7.5 hours at 760gpm and 150rpm while racking back 1 stand per hour, before back reaming to the shoe as recommended by K&M Technology. A tight spot was worked at 3810m with no other hole problems encountered whilst POOH.

7 inch liner, with setting sleeve only; i.e. without liner hanger, was run and tagged TD at 4648m without problem, and was picked up 1m to 4647m. The releasing ball for the running tool was pumped to the running tool, where it seated and pressure was increased to 2700psi to release the tool. Release of the running tool was verified by picking up 1m. The ball was then sheared out with 4000psi and 10 kips was set down on the liner while rotating at 20rpm and circulating at 230gpm prior to pumping the cement job. The cement pre-flush was pumped and 4bbls of cement before pump pressure increased rapidly to 2500psi. After dumping cement from the mix tub, established circulation with 3100psi before switching to the rig pumps and circulating at 200gpm, with declining pressure, until observed spacer returns at surface, which confirmed that circulation was around the running tool at the liner top depth of 2569m, and not through the liner shoe. POOH with liner running tool and observed liner cement plug in good condition and damage to both upper swab cups.

Pressure tested BOPs and then RIH with 7in RTTS on 20 joints of 3.5in drill pipe and 5.5in drill pipe. Set packer at 2735m and attempted to circulate the liner, but unable to do so with 5000psi. POOH with RTTS.

Made up 3.375in TCP assembly and RIH on 3.5in and 5.5in drill pipe, inserting 7in RTTS 1592m above the TCP gun, and drill pipe crossover 2004m above the guns. Set the RTTS at 2966m and perforated the interval 4560–4558m with the Predator Perform HMX 6spf gun. Established circulation at 6.6bpm with 2400psi after perforating and then POOH until RTTS at 2590m. Set RTTS at 2590m and cemented liner with 138bbls of 15.0ppg HTB cement. Displaced cement to put theoretical top of cement at 4520m inside the liner and at 3550m in the 9.5in x 7in annulus. POOH with the RTTS and spent TCP gun.

Cementing of the upper section of the 7 inch liner, to isolate the water sand immediately below the 10.75 inch casing shoe, was carried out by perforating the liner from 2675m to 2673.5m (1.5m) with 12spf using a wireline gun and setting a cement retainer on drill pipe, above the perforations at 2669m. 30bbls of HTB cement (15ppg) was displaced into the 9.5in x 7in annulus to put theoretical top of cement at 2569m (liner top depth) and bottom of cement at 2675m (bottom shot depth). There was minor cement contamination on circulating bottoms up after pulling out of the cement retainer. After POOH, the liner top cement seal was pressure tested successfully to 500psi.

A clean out trip with 9.5 inch bit and BHA was made inside 10.75 inch casing to the liner top at 2569m, without incident. A 6in rock bit on 4.75in down hole motor was run on 3.5in and 5.5in drill pipe to drill out cement retainer. Cement was drilled from 2641m to the retainer at 2668m, and 11.5 hours was spent drilling on the retainer before POOH to inspect the bit, which was graded 1,1,NO,A,E,I,NO,PR. A new bit was run without the motor and further hour was spent drilling on the retainer before it moved down the hole. The remains of the retainer were chased down 4490m where the bit held up with 25kips. The well was circulated clean and displaced to 11.30ppg brine in preparation for perforating, completion and testing operations. There was a total of 201.75hrs (8.4 days) NPT due to the remedial cementing operations of the 7in liner.

4.3.8 Perforation / Completion / Testing

A 10.75in RTTS packer was used to successfully pressure test the 10.75in wellhead seals to 4000psi, by setting the packer at 210m, before commencing well completion operations.

The well was perforated over the intervals 4406m – 4243m, 4191.4m – 4085m, 3944m – 3639.8m, 3152.4m – 3132m, 2862m – 2828m, 2761m – 2683m and 2516m – 2494m. In total, 593.8m of the 100 and 50 sands were perforated with 3.375in 3spf 120º phased Predator XP 24g HMX guns, and 134.0m of the 400, 200 and 100 sands were perforated with 4.5in 5spf 60º phased Predator XP 39g HMX guns run on 3.5in and 5.5in drill pipe. Gun firing was initiated with 4200psi drill pipe pressure. A static loss rate of 18bbl/hr was observed immediately after the guns fired. Bottoms up was circulated with a dynamic loss rate of 20bbl/hr and no gas was observed at surface on bottoms up. Static loss rate after circulating bottoms up was 3bbl/hr. The guns were POOH and confirmed that all shots had fired.

The perforating operations went almost without a hitch (1½hrs were lost out of a total of 64hrs for this operation), and it is worth noting that the gauges run at the bottom of the gun indicated there was an instantaneous underbalance of 2800psi immediately after the guns were fired; this underbalance only lasted for around 0.5secs but there was more than 500psi underbalance in the well for around 10 seconds.

The well bore and riser clean out assembly, comprising 9.5in bit, Well Patroller, Razorback Casing Scraper, Centurion Circulating Valve (with Ball Catcher) and Riser Brush Tool, was run to the liner top. Both packer setting depths were scraped and the riser brushes were worked in the riser and BOPs while the well was displaced with 11.3ppg filtered brine. All drill pipe was layed down while POOH.

The 5.5in section of the completion string, including both packers, full bore isolation valve, gauge mandrel and interval control valve (ICV), was run with an estimated 3.5hrs NPT due to problems making up the blast joints. These had 5.5in 17# Vam FJL connections, which a number displayed poor makeup characteristics on the Weatherford JAM charts, so were replaced as a precaution. Despite this, it was found that it was only possible to achieve reasonable makeup charts if large quantities of pipe dope were used on the connections.

Make up and testing of the two hydraulic control lines and the electric cable that penetrated the HF1 packer to the ICV and gauge carrier took a total of 7.5hrs to perform.

The remaining completion string (mostly 7in Fox) was then run without mishap, including installation and testing of the TR-SSSV and the tubing hanger. The hanger was landed, locked and pressure tested successfully, and all functions penetrating the hanger were confirmed fully operational. Total time for running the completion to this point was 66hrs with 3.5hrs NPT.

The 7.125in 10,000psi flowhead was then rigged up using 7in Schlumberger Quick-Connects (which simplified the rig-up significantly). The Coflexip production hose was installed on the flow wing side and the cementing hose was installed onto the kill wing side (with a non-return valve between it and the flowhead). The whole rig up was successfully pressure-tested, above the master valve, to 5500psi against the Expro choke manifold.

Three programmed slickline runs were then made to set a 4.562in XX plug in the landing nipple immediately above the top packer. The tubing and landing string were successfully pressure tested to 5500psi and the plug was retrieved on the second attempt(first attempt used GR Pulling Tool with equalising prong and second used GS Pulling Tool without prong). A large amount of pipe dope was seen on the plug, which may have prevented the pulling tool from reaching the fishing neck during the first run – this extra run resulted in 1.5hrs of NPT being incurred.

The brine in the tubing was then displaced with 258bbls of diesel, via the open ICV and past the HF1 packer, and the ICV was closed.

The tubing was then pressured to 5500psi against the Full Bore Isolation Valve (FBIV) to set both the HF1 and AHC packers, and this pressure was held solid for 15mins before being bled off to 1900psi and opening the ICV. The annulus was then pressured up to 2500psi, to test the top packer, but tubing pressure rose at the same rate as annulus pressure indicating the top packer was leaking, and possibly not set. Further attempts were made to set the packer, including pressuring the tubing to 6000psi firstly with diesel in the tubing (differential of approximately 4600psi at the packer) and then with brine. None of these was successful in setting the packer, so the decision was made to pull the completion and replace it.

Once this decision was made, the HF1 Packer was released with the slick line shifting tool, and the FBIV was cycled into the permanently open position. Following this, time was spent killing the well as there was pressure on the tubing and the annulus was taking fluid. A 3.813in XX plug, with a pump-open sub set to shear at 2000psi was then set below the bottom packer and was pressure tested to 750psi.

The flowhead was rigged down and the bottom packer (AHC) was released with a chemical cutter run on Schlumberger conductor line. Thereafter the tubing hanger was unlocked and picked up to allow circulation around the end of tubing after the pump-out plug had been sheared. Due to the packer(s) taking time to relax after release, 17hrs were spent circulating and killing the well to remove all gas and diesel from the well bore before the tubing hanger was recovered to surface..

The remainder of the completion was then retrieved, with all downhole components successfully recovered, including all the control lines, gauge cable and cross-coupling protectors. Examination of the packers after recovery indicated that the HF-1 packer had not set whereas the AHC had set correctly. The reason for the failure of the HF-1 to set was not obvious.

Before the completion was rerun, the BOPs were pressure-tested and Schlumberger ran a gauge ring and junk basket to 2482m MDRT (below replacement packer setting depth).

Replacement Completion

As a consequence of the HF-1 packer failure to set in the original completion, the replacement completion was modified. The capability to remotely control flow from the 400 sand was surrendered by deleting the ICV, which significantly simplified the completion design. The number of packers was reduced to one, an AHC, coupled with a seal assembly to sting into the liner top PBR. The replacement completion was run without incident, including the tubing spaceout which became necessary as a result of the seal assembly being stung into the liner top PBR. Of note is the fact that the TR-SSSV was positioned approximately 100m deeper in this completion, to minimise the risk of hydrates impacting on valve operation. The tubing hanger testing and flowhead rig up were both performed efficiently in the recompletion. Overall time to rerun the completion to the start of slickline operations was 53.5hrs.

It was noted that the well drink rate observed while rerunning the completion string ceased when the seal unit was stung into the PBR. However, the well continued to drink fluid from inside the completion string, rather than the annulus, and four hours later when the flowhead master valve was opened there was 120psi THP because the well had drunk sufficient fluid to create an under balance. This pressure made subsequent slickline operations more difficult and time-consuming, and a number of attempts were made to lubricate the well full of kill-weight brine.

The following slickline runs were made:

- 2 runs to replace the Isolation Sleeve in the Tubing Hanger with the Wireline Protection Sleeve;
- 2 runs to retrieve the TR-SSSV lock-open prong (the first misrun being unexplained);
- 1 run to open the 3.813in sliding sleeve below the AHC packer;
- 3 runs to install and then retrieve the 4.562in XX plug, to enable the tubing to be successfully pressure tested to 5500psi – this included a misrun to retrieve the plug with the GR pulling tool but successfully retrieve it on the 2nd attempt, with the GS pulling tool.
- 1 run to close the 3.813in sliding sleeve below the AHC packer (after circulating 205bbls of diesel into the well);
- 1 run to install a 4.313in R Plug for setting the AHC packer with 5500psi (held for 30 minutes);
- 4 runs (including 2 misruns and 1 depth-check run) to retrieve the 4.313in R Plug after the packer had been successfully pressure tested to 3800psi. This plug was found 16m deeper than the R nipple, in the 5.5in x 4.5in crossover above the sliding side door. It is unknown how or when the plug came out of the nipple, but there was no apparent damage to the plug when it was finally retrieved to surface;
- 1 run to retrieve the wireline protection sleeve from inside the tubing hanger.

The NPT incurred to rerun the completion, between the time the first annulus pressure test failed and the 4.313in R plug was retrieved from the second completion amounted to a total of 249.5hrs or 10.4 days.

Well Cleanup

The well cleanup was successful, with the initial cleanup period taking around 22hrs to achieve reasonable levels of BS&W before diverting flow through the separator.

The well was then flowed at 4 different rates (maximum, 25% of max, 50% of max and 75% of max respectively) for periods of between 2½ and 5 hours each, with a maximum sustained rate of 58mmscfd established on a 64/64in choke, limited by the 60mmscfd rated capacity of the separator.

Finally the well was shut in, with the pressures being monitored for 1.5hrs before closing in the SSSV for its inflow test, at a SITHP of 3561psi. Downhole pressure and temperature was then continuously monitored until the IWOCS and electrical umbilicals were removed 2.5 days later.

4.3.9 Suspension / Rig Down / Move Off

The TR-SSSV was successfully in-flow tested for 1 hour (built up from 200psi to 205psi above the valve, with approximately 3360psi differential pressure) and then the tubing above the TR-SSSV was filled with 60/40 glycol/water mixture.

The 5.25in tubing hanger plug was installed on slickline, and was successfully pressure tested to 4000psi from above. The subsequent test below the plug to 1500psi built up to 3400psi, indicating that the TR-SSSV was leaking, inexplicably. Attempts to get the TR-SSV to reseal by opening and closing it were unsuccessful, and it was only when 2bbls were pumped through the valve that it was successfully re-tested (68psi/hr leak rate vs. allowable leak rate, calculated as specified in API 14B, of 127 psi/hr). 10 hours were lost dealing with this issue.

A further 7.5hrs were lost installing the Internal Tree Cap (ITC) which required two runs to achieve, due to a hydraulic lock preventing correct locking of the cap on the first run. The hydraulic lock was relieved by opening the AMV and AAV in addition to opening the ⅜" ID TCT line. The cavity between the ITC and the tubing hanger plug was successfully tested to 4000psi.

Thereafter, 11 hours were lost waiting on weather (high winds) to rig down the diverter and BOPs

and recover the 22in HP riser.

The rig was released from Longtom-4, 1nm from location, when under tow to Stuart Petroleum's "Bazzard-1", at 1900hrs on 18 September 2008.

4.4 Health, Safety and Environment (HSE)

4.4.1 HSE Summary

Overall HSE performance was very poor, with a total of 37 Flash reports being issued. The severity and frequency of incidents was the catalyst for a Nexus senior management visit to the rig to address the crews and express alarm at the potential for fatalities and other serious injuries if the incident trend was not arrested. Further discussions were held at senior management level between Nexus, ADA and Seadrill to express dissatisfaction with Seadrill's HSE management of the rig.

The common themes running through many of the incidents were:

- Hazards not being identified and risks consistently being underestimated
- Less than effective use of risk assessment process and tools i.e. JSA, PtW
- Procedural violations observed but tolerated
- Habit of not following or ignoring established procedures and practices
- Inadequate control over the job by Supervisors
- Third party contractors not being managed by stated Seadrill procedures
- Low level of communication between personnel
- Intent of the STOP program misunderstood by nearly all personnel
- Changed situations not always recognised
- Lack of training in fundamental safety management tools
- Incompetent supervision
- Inadequate induction of new employees

Compounding the problem was the continual loss of supervisors from the rig, which frequently resulted in short manning and excessively long hitches for those that remained, leading to low morale. In the first five months of operations 12 different toolpushers, 8 different drillers and 7 different A/Ds were employed with many of these just in a caretaker role, and therefore having no real interest in building a cohesive team.

There was 1 serious near miss when a roustabout fell into a hatch that was left open, without a barricade, in the middle of a walkway. Only bruising was sustained, but this could easily have been a fatality or serious injury. Only good fortune prevented a more serious outcome. There were 2 Medical Treatment Injuries (MTI), 4 Dropped objects, 4 spills, of which 3 were to the environment, 4 Near miss incidents, 1 property damage incident and 21 First Aid Cases.

The first MTI occurred when grit fell into a welder's eye as he flipped his arc shield closed on his helmet, while lying on his back, preparing to weld. Some grit fell on to his face from the top lip of the mask, and entered his eye although he was wearing safety glasses. It was not noticed at the time, but the next morning he felt a gritty sensation in his eye, and reported to the medic. An anaesthetic (prescribed medicine) was administered.

The second MTI occurred when the mud engineer cut his hand. He was drying a glass tube with a paper towel when he applied too much pressure and broke the glass, cutting his hand. The wound required three stitches.

A total of four spills occurred, with one being to a bunded area while the other three resulted in spills of SBM to the sea. However, one of these was below the reportable threshold of 80 litres. The most serious spill was 21 barrels due to a ruptured hose while backloading SBM after displacing the well to completion brine. Findings from the investigation into this incident included:

- Burst hose was not designed for oil service
- Seadrill did not have a SOP for fuel/SBM/base oil transfers
- No single person identified as having responsibility for the transfer
- Seadrill had no hose management procedures (PM, Register, traceability)
- No hose specifications available on rig
- Hose not recognised as the weak link in JSA
- Hose hang-off ropes caused significant damage to all hoses

The 4 near miss incidents were varied, and could have resulted in serious injuries under different circumstances. The incidents themselves served to demonstrate the issues evident in many other incidents, namely a lack of supervision, failure to identify all of the hazards, lack of training and poor use of the PtW and JSA processes. In one incident, Dangerous Goods were backloaded to a supply vessel without the proper paperwork, and were incorrectly packaged. In another, the Schlumberger engineer failed to follow the stray voltage procedure for correctly grounding equipment before arming a CST gun. The third involved failure of a lifting sling which was left attached to a valve connected to a side entry sub (SES). The sling was used with a tugger to lift the valve into place, and was left connected. When the driller slacked off the blocks to keep weight on an RTTS tool, downhole, the tugger was not slacked off simultaneously and as a result, the sling failed. The final near miss came about when the foam pump for helideck fire fighting was left running against a closed valve for more than 24 hours. The pump overheated and started smoking, setting off the fire alarm. The pump had been manually started, and was not shutdown after the helicopter had departed the previous day.

The table below lists all of the incidents that occurred during the well.

Number	FR No.	Date	Classification	Description
1	36	20/06/2008	SNM	Roustabout stepped into hatch in walkway that had been left open
2	37	21/06/2008	FAC	Night cook lacerated knee when cutting packaging tape and knife slipped
3	38	30/06/2008	FAC	Utility miss-stepped ascending internal stairs and received minor bruising to upper left arm
4	39	30/06/2008	FAC	Roustabout strained groin when slipped while walking across deck
5	40	1/07/2008	FAC	Floorhand sustained bruising to foot when mudbucket hose knocked over sub, standing vertically on rig floor
6	41	4/07/2008	FAC	Derrickman received scratch on thigh when he slipped and hit thigh on bar
7	42	9/07/2008	FAC	Painter slipped on greased SST skid beam and grazed inside right leg
8	43	11/07/2008	FAC	Cementer strained back when moving 25kg containers of cement additive
9	44	12/07/2008	Dropped Obj	V door tugger wire was being replaced when snake connecting old/new wires let go, both wires fell to rig floor
10	45	13/07/2008	Dropped Obj	Link tilt clamp bolt failed when link tilt retracted due to uneven piston movement, bolt fell to rig floor
11	46	13/07/2008	PD	Elevators contacted monkey board when racking short stand, causing slight damage to support beam
12	47	13/07/2008	MT	Welder had grit fall into his eye from welding mask when closed same while lying on his back
13	48	17/07/2008	FAC	Floorman struck on wrist by tong jaw when changing same
14	49	17/07/2008	Loss of containment	200L SST control fluid spilled in bunded area due to accidental operation of fill valve
15	50	18/07/2008	Dropped Obj	One segment of Claxton clamp dropped into sea when clamp released to pull HP riser
16	51	24/07/2008	FAC	Floorman struck below knee by chain on chain tong when releasing same by himself (two

				person task)
17	52	24/07/2008	FAC	Roustabout received laceration on arm whilst squeezing mop when squeeze handle slipped
18	53	25/07/2008	FAC	Relief derrickman received bruising when hand caught between stand of DP and finger board
19	54	22/07/2008	FAC	Roughneck injured arm while man-riding and winch moved suddenly, throwing load on arm
20	55	27/07/2008	Spill	65L SBM overflowed from mud return trough due to blocked strainer, when filling hole with trip tank on trip
21	56	27/07/2008	FAC	Roustabout struck knee when he walked off catwalk while trying to grab a tag line
22	57	28/07/2008	FAC	Schlumberger operator received lacerated shin when slipped on cantilever deck and contacted beam
23	58	1/08/2008	NM	Diesel samples and RA sources not labelled when backloaded on supply vessel
24	59	5/08/2008	MT	Mud engineer had 3 stitches inserted in cut sustained when he broke glass tube while drying same
25	60	30/07/2008	NM	Schlumberger stray voltage procedures not followed when arming CST gun
26	61	3/08/2008	Spill	3bbls SBM spilled over end of shakers when viscous bottoms up mud arrived
27	62	7/08/2008	FAC	Utility strained back while making bed
28	63	11/08/2008	FAC	Weatherford operator strained ankle when stepped ob IR track while running casing
29	64	13/08/2008	FAC	Medic strained back when slipped on wet spot on floor in galley
30	65	17/08/2008	NM	Sling on tugger line, attached to valve on SES failed when blocks lowered and tugger not slacked off
31	66	20/08/2008	FAC	Floorman twisted ankle when he stood on edge of boot cleaning tray after descending derrick ladder
32	67	20/08/2008	FAC	Roustabout caught finger between SJ elevator and pipe while laying down DP when tugger operator picked up
33	68	23/08/2008	Spill	21bbls of SBM was spilled into the sea while back loading mud due to failure of the transfer hose.
34	69	26/08/2008	FAC	IP received small laceration to finger caught between wrench and deck when tubular fell off support stand
35	70	27/08/2008	FAC	BH technician received small laceration to thumb from cable spooling unit when hand brushed same
36	71	9/09/2008	NM	Foam deluge pump left running for over 24hr, dead heading, overheated and triggered smoke alarm
37	72	17/09/2008	Dropped Obj	Safety pin (90g) fell from crane main block latch to deck, striking roustabout. Pin defective.

HSE SUMMARY FOR END OF WELL CLOSE-OUT REPORT

Parameter	Units (if applicable)	Longtom - 4 (19th June 0900 - 18th Sep 1900)	Comment(s)
Manhours	number	170814	
STOP Cards Generated	number	2611	Positive and negative breakdowns are updated on weekly HSE Meetings. Safety Award / Recognition has successfully implemented.
Total MODU Proactive Safety Efforts	number	5712	Including Issued / Active Work Permits, JSA, Work Instructions, Pre Job safety Mtgs, TOFS, Area Authority Audits & STOP
Audit			
Regulatory Audit	number	1	NOPSA Audit (9-10 Sep 08) and DPI 07/08/08 SBM Spill Investigation.
Internal EP Compliance Audit	number	1	NEXUS Environmental Audit (14-17 July 08)
MODU Mini HSE Audits	number	9	Areas covered include: Confined Space Entry, Working At Heights, Management of Change, COSHH, Drop Object Prevention Scheme, Control of Substances Hazardous to Health, Hoisting Equipment Safety Devices, Incident & Trend Analysis, Maintenance Management Systems and Risk Assessment.
Training			
ADA ERG Exercise	number	1	Emergency Response table top exercise Northern Light for NEXUS Energy earlier held on 29th May 08
Environmental Plan Training	number	0	Continuous communication made with NEXUS assistance through special project inductions, regular rig inductions and safety meetings.
MODU Emergency Drill	number	28	11 Fire / Abandon / Muster (Weekly) Drills, 1 Man Overboard, 1 BOP drills, 6 Oil Spill Drills and 9 Launch Lifeboats drills.
Reportable Incident (NOPSA)			
Lost Time Injury (LTI)	number	0	
Alternate Duties Injury (ADI)	number	0	
Medical Treatment Injury (MTI)	number	2	1) IP had grit fell into the eye and anaesthetic (prescribed medicine) was administered. 2) IP had 3 stitches applied to left hand due to handling of lab equipment.
Non Reportable Incidentm (NOPSA)			
First Aid Case	number	21	
Near Miss	number	4	
Property Damage	number	1	
Dropped object	number	4	
Environment	number	4	1) Spill of 200 litre of Castrol Trans - Aqua HT 2 spilled on a bunded deck area; 2) 1/3 barrel of return - mud spilled during POOH due to blockage in mud return line; 3) 3 barrels of SBM overflowed from the shaleshaker; 4) 21 barrels of SBM spilled to ocean during backload to supply vessel.
Recordable incidents (DPI)			
Spills - occurrence	number	2	As above spill summaries.
Spills - quantity	litre	Refer next column	3815.7 litres of SBM
Wastes			
Hazardous wastes	m^3	24.4	All wastes are properly packed, stored and sent onshore to GML and disposed accordingly through Corio Waste Management, an EPA - approved permit holder to transport various wastes including waste from offshore
Non-hazardous wastes	m^3	288	
Marine User Interaction			
Cetacean sightings	number	5	5 sightings of Humpback Whale recorded and reported to DEWHA.
Errant vessel interaction	number	0	
Impacts from Fishing Operations (interaction)	number	0	
Water Based Muds (SBM)			
Volume water based drilling fluid disposed into the ocean (m^3)	m^3	1065	Reference made to the Rig Well Environment report
Volume of drill cuttings using WBM disposed to the seabed (m^3)	m^3	176.5	Reference made to the Rig Well Environment report
Volume of drill cuttings using WBM injected into the annulus (m^3)	bbl	0	
Synthetic Based Muds (SBM)			
Volume of drill cuttings using SBM disposed to the seabed (m^3)	m^3	281.7	Reference made to the Rig Well Environment report
Volume synthetic based drilling fluid disposed to the seabed (m^3)	m^3	239.4	Reference made to the Rig Well Environment report
Volume of base oil disposed to the seabed (m3)	bbl	83.9	Reference made to the Rig Well Environment report
Volume of SBM injected into the annulus (m^3)	number	35.5	Reference made to the Rig Well Environment report
Volume of SBM discharged to sea due to reinjection failure (m3)	m^3	0	
Oil on cuttings % (daily average) from VertiG dryer	m^3	0	
Oil on cuttings % (daily average) from Centrifuge 1 (discharge to annulus)	m^3	0	
Oil on cuttings % (daily average) from Centrifuge 2 (active mud system)	m^3	0	
Pipe Dope			
Volume of pipe dope used (L) (End of hole estimate OK)	litre	110	Reference made to the Rig Well Environment report

4.5 Well Highlights

The main highlights on the Longtom-4 well were as follows:

- Longtom-4, a sinusoidal horizontal well (94 deg max deviation), with pilot hole, was successfully drilled, completed and tested before being suspended.
- Cut 55m of core in the pilot hole, with 99% recovery.
- The well reached TD 4.63 days ahead of AFE time.
- All well targets were intersected within the target tolerances.
- Handled and successfully deployed a SST for the first time on the *West Triton.*
- Used SBM for the first time on the *West Triton* without harming personnel.
- The TCP operations, performed by Baker Atlas, went very well, including the logistics, the gun loading and the perforating run itself, with only minor NPT being incurred.
- Aside from the major well completion NPT arising from the failed packer (249.5hrs), there was only 6.5 hours NPT associated with perforating and running the completion. The remaining 18hrs well completion NPT resulted from problems getting a pressure test on the SSSV after the flow test and a hydraulic lock that hindered setting the internal SST cap.
- Despite the major problems experienced with the first completion, this was all retrieved and a new completion was successfully installed and tested.
- The well flowed successfully at a sustained maximum rate of 58mmscf/d through a 1 inch choke, being limited by the separator capacity of 60mmscf/d.

4.6 Well Disappointments

The main disappointments on the Longtom-4 well were as follows:

- Total NPT for well operations was 36.11 days (39.5% of total well time).
- Overall HSE performance was very poor with a total of 37 incidents reported, including 1 serious near miss, 2 medical treatment incidents and 3 spills of SBM to the environment (only two of these spills were reportable to DPI).
- The severity and frequency of HSE incidents triggered a Nexus senior management visit to the rig to express alarm at the potential for fatalities and other serious injuries based on the incident trend.
- Failure of Seadrill senior management to provide a stable supervisory team on the rig resulting in short manning, excessively long hitches due to lack of relief, and low morale.
- Standpipe leaks caused 33.5hrs NPT while drilling 13.5in hole section
- Rig fuel was contaminated by seawater from a leak in the return-fuel heat exchanger and caused 48.5hrs NPT due to total power failure on the rig and the need to replace the fuel injectors on all engines.
- The SSR cement head was incorrectly assembled when rebuilt by Halliburton, onshore, causing premature release of the DP dart, leading to 40hrs NPT for cementing the 10.75in casing.
- Spill of 21bbls of SBM to the sea while backloading, due to failure of the transfer hose which contained a section that was not rated for oil service.
- Circulation through the 7in liner shoe became blocked, for reasons still unknown, preventing conventional cementing of the liner and causing 209.75hrs (8.74 days) NPT.
- Failure of the Halliburton HF-1 packer to set due to an assembly error, in the manufacturing plant, resulted in 249.5hrs (10.40 days) NPT while the completion was pulled and rerun.

5. Time Analysis

5.1 Time Reconciliation by Well Phase

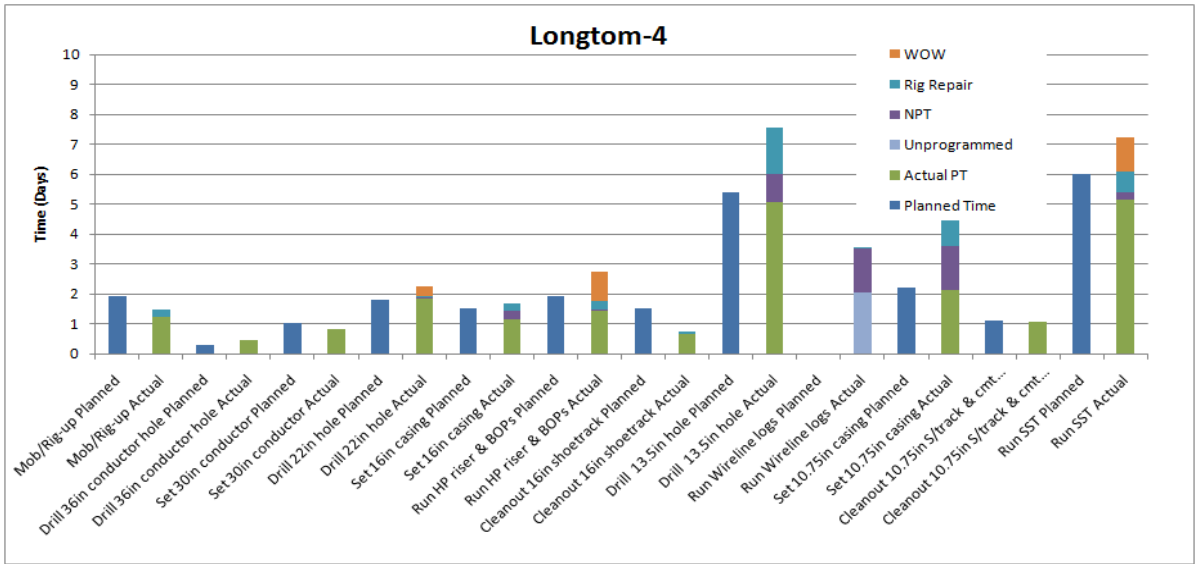
Total time for Longtom-4 amounted to 91.42 days, compared to the planned (AFE) time of 82.1 days, representing an overrun of 9.32 days (11.35%). For accounting purposes the well was split into three main parts:

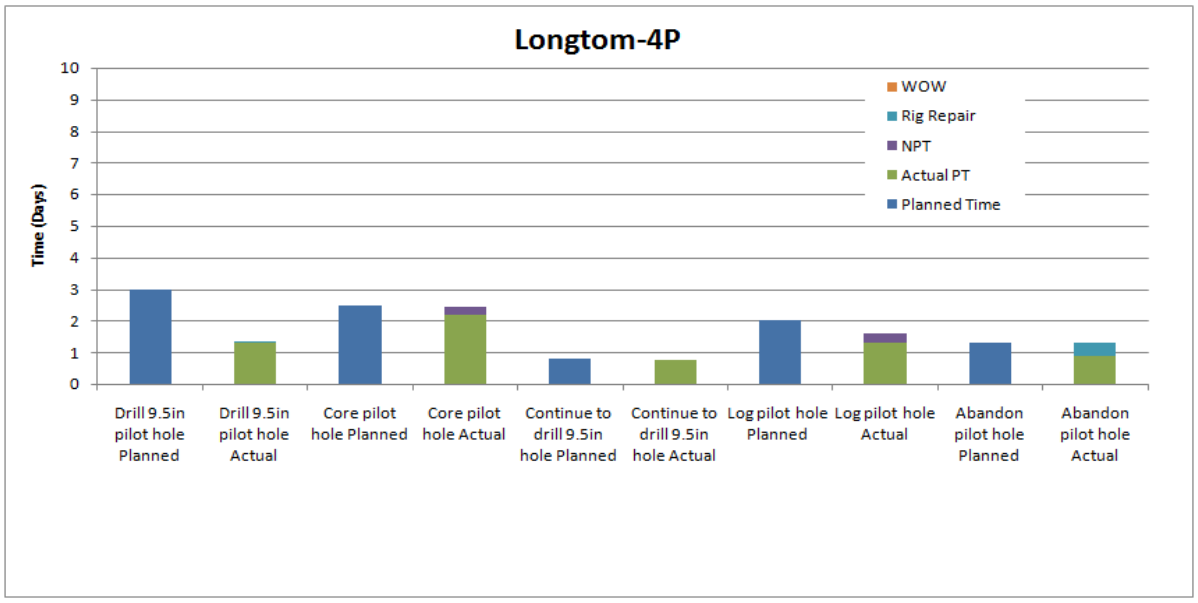
- Longtom-4 which covered the time between rig mobilisation and completion of subsea tree installation operations
- Longtom-4P which covered all pilot hole activities
- Longtom-4H which covered the time between end of pilot hole abandonment and rig release, including all production hole drilling, perforating, well completion and production testing activities

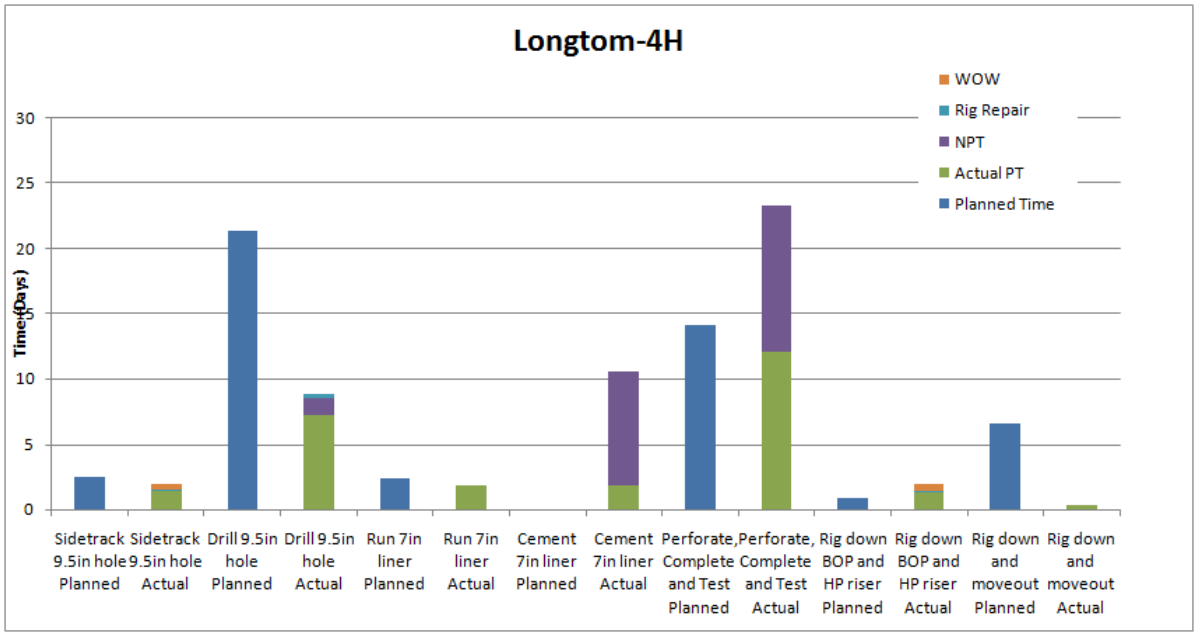
WELL PHASE	Planned	Actual	Total NPT	Rig Repair	WOW	Delta
Longtom-4	24.6	35.31	12.3	5.37	2.5	+10.71
Longtom-4P	9.6	7.41	0.94	0.42	0	-2.19
Longtom-4H	47.9	48.7	22.87	0.52	0.87	+0.8
TOTAL (days)	**82.1**	**91.42**	**36.11**	**6.31**	**3.37**	**+9.32**

Based on the data in the table above, the time overrun was largely due to problems encountered in the early part of the well (Longtom-4 Phase) where NPT excluding WOW accounts for the difference between planned and actual time. However, two major problems in the Longtom-4H phase accounted for 20.09 days NPT, that was offset by the shorter times spent drilling the horizontal section and spent rigging down and moving off, where WOW contingency built into the schedule was not used. These two problems involved cementing the 7in liner and rerunning the completion due to the Halliburton HF-1 packer failing to set. The shorter time spent drilling the horizontal section was due to improved ROP and reduction in TD from 5000m to 4648m. The table below and the following charts provide a more detailed breakdown of overall well time.

OPERATION	Planned	Actual	Total NPT	Rig Repair	WOW	Delta
Mob/Rig up	1.90	1.46	0.25	0.25		-0.44
Drill 36in hole	0.30	0.44				+0.14
Run and cement 30in conductor	1.00	0.81				-0.19
Drill 22in hole	1.80	2.25	0.40	0.04	0.35	+0.45
Run and cement 16in casing	1.50	1.67	0.52	0.23		+0.17
Make up HP riser and BOP	1.90	2.75	1.29	0.27	1.00	+0.85
Cleanout 16in shoe track	1.50	0.73	0.08	0.08		-0.77
Drill 13.5in hole	5.40	7.54	2.48	1.54		+2.14
Run Wireline logs	0.00	3.54	1.50	0.02		+3.54
Run and cement 10.75in casing	2.20	5.83	3.71	2.23		+3.63
Run SST	6.00	7.23	2.07	0.71	1.15	+1.23
Cleanout 10.75in shoe track	1.10	1.06				-0.04
Drill 9.5in pilot hole to core point	3.00	1.35	0.02	0.02		-1.65
Core pilot hole	2.50	2.44	0.25			-0.06
Drill 9.5in pilot hole to section TD	0.80	0.75				-0.05
Log pilot hole	2.00	1.58	0.27			-0.42
Abandon pilot hole	1.30	1.29	0.40	0.40		-0.01
Sidetrack 9.5in hole	2.50	1.90	0.54	0.13	0.41	-0.60
Drill 9.5in hole	21.40	8.87	1.67	0.35		-12.53
Run 7in liner	2.40	1.83				-0.57
Cement 7in liner	0.00	10.54	8.74			+10.54
Perforate, Complete and Test	14.10	22.77	11.42			+8.67
Rig down BOP and HP riser	0.90	1.48	0.50	0.04	0.46	+0.58
Rig down and move out	6.60	1.31				-5.29
TOTAL	82.10	91.42	36.11	6.31	3.37	+9.32


Longtom-4
Time (Days)
WOW
Rig Repair
NPT
Unprogrammed
Actual PT
Planned Time
Mob/Rig-up Planned
Mob/Rig-up Actual
Drill 36in conductor hole Planned
Drill 36in conductor hole Actual
Set 30in conductor Planned
Set 30in conductor Actual
Drill 22in hole Planned
Drill 22in hole Actual
Set 16in casing Planned
Set 16in casing Actual
Run HP riser & BOPs Planned
Run HP riser & BOPs Actual
Cleanout 16in shoetrack Planned
Cleanout 16in shoetrack Actual
Drill 13.5in hole Planned
Drill 13.5in hole Actual
Run Wireline logs Planned
Run Wireline logs Actual
Set 10.75in casing Planned
Set 10.75in casing Actual
Cleanout 10.75in S/track & cmt...
Cleanout 10.75in S/track & cmt...
Run SST Planned
Run SST Actual


Longtom-4P
Time (Days)
WOW
Rig Repair
NPT
Actual PT
Planned Time
Drill 9.5in pilot hole Planned
Drill 9.5in pilot hole Actual
Core pilot hole Planned
Core pilot hole Actual
Continue to drill 9.5in hole Planned
Continue to drill 9.5in hole Actual
Log pilot hole Planned
Log pilot hole Actual
Abandon pilot hole Planned
Abandon pilot hole Actual


Longtom-4H
Time (Days)
WOW
Rig Repair
NPT
Actual PT
Planned Time
Sidetrack 9.5in hole Planned
Sidetrack 9.5in hole Actual
Drill 9.5in hole Planned
Drill 9.5in hole Actual
Run 7in liner Planned
Run 7in liner Actual
Cement 7in liner Planned
Cement 7in liner Actual
Perforate, Complete and Test Planned
Perforate, Complete and Test Actual
Rig down BOP and HP riser Planned
Rig down BOP and HP riser Actual
Rig down and moveout Planned
Rig down and moveout Actual

5.2 Non Productive Time Analysis

Following is a discussion of the main NPT events that occurred during the well. A full list of all NPT occurrences is contained in Attachment 11, *Non Productive Time (NPT)*

Longtom-4

Time Lost (hours)	Description
3.5	Cantilever was skidded out beyond normal drilling position to allow crane access to engine room hatch for removal of Generator #4 which had a main bearing failure that required factory repair.
2.5	Top drive link tilt clamps slipping, rotating head not functioning correctly and cyber chair computer updates required.
8.5	Unable to stab 22in BHA into 30in conductor initially because work class ROV (WCROV) unable to launch due to adverse weather and later due to failure of WCROV
7	Unable to stab 16in casing into 30in conductor due to poor visibility from cuttings/silt obstructing ROV vision (4hrs) and a further 3hrs due to WCROV failure.
24	WOW to run 22in HP riser due to high winds preventing safe work on Texas deck and lack of FRC coverage by the supply vessels.
6.5	Pressure regulating valve on the CTU was inoperable and the lower/raise function valve was leaking.
27	Schlumberger Power Drive and ADN-8 failures required round trip to rectify problems.
34.5	Leaks occurred in both standpipes at the hammer unions immediately above the standpipe valves. Design of the standpipes makes seal replacement in the hammer unions very difficult and time consuming because of the doglegs in the standpipes.
26	Schlumberger XPT tool failed due to a check valve that had been installed in the wrong place in the tool's hydraulic system. Two unprogrammed MDT runs were required to collect the data planed for the XPT run.
9.5	SWC gun of 30 shots failed to fire requiring a replacement gun to be run
48.5	The rig had a power blackout because of water in the diesel fuel day tank that was ingested by the main engines. Source of the water was a leak in the return-fuel heat exchanger. Investigation discovered that there was no hole in the bottom of the day tank where the drain line was connected, so the water level built up in the bottom of the tank until it was drawn into the fuel pump suction and sent to the pressurised fuel supply system. There was no sight glass or sample point in the day tank drain line to verify what was being drained out of the tank. All of the fuel injectors in each of the main engines had to be replaced as a result of this problem.
40	The drill pipe dart for the 10.75in casing SSR plug left the cement head prematurely and launched the plug just prior to pumping cement. Consequently no cement was pumped while the plug was displaced to the float collar. The shoetrack was drilled out and the casing was cemented using an RTTS tool and long tail pipe. Investigation of the cement head found that the release bar for the drill pipe dart was too short enabling the dart to escape prematurely from the cement head. The wrong release bar had been installed in the cement head at the Halliburton shop

	when the head was rebuilt, and internal inspection had not detected the error. *Refer to Attachment #12 for Halliburton's Investigation report of this incident.*
3.5	Power failure in the WCROV delayed removal of the trash cap from the subsea wellhead, preventing the SST from being landed.
27.5	WOW to install Claxton clamp on 22in HP riser after latching riser to SST. Winds to 55kts and seas in excess of 4m prevented safe working conditions on the Texas deck and withdrawal of FRC coverage by the supply boats.
15.5	Straightened Top drive pipe grabber support shaft and replaced dolly seized dolly bearings.

Longtom-4P

Time Lost (hours)	Description
6	Reamed several intervals to capture missing LWD/MWD data in the trip out to pick up the core barrel and also on the trip in after coring.
6.5	Troubleshot and replaced faulty GR on GR-CST tool.
9	Cleaned diesel fuel settling tank and changed injectors on two main engines to overcome rig power problems.

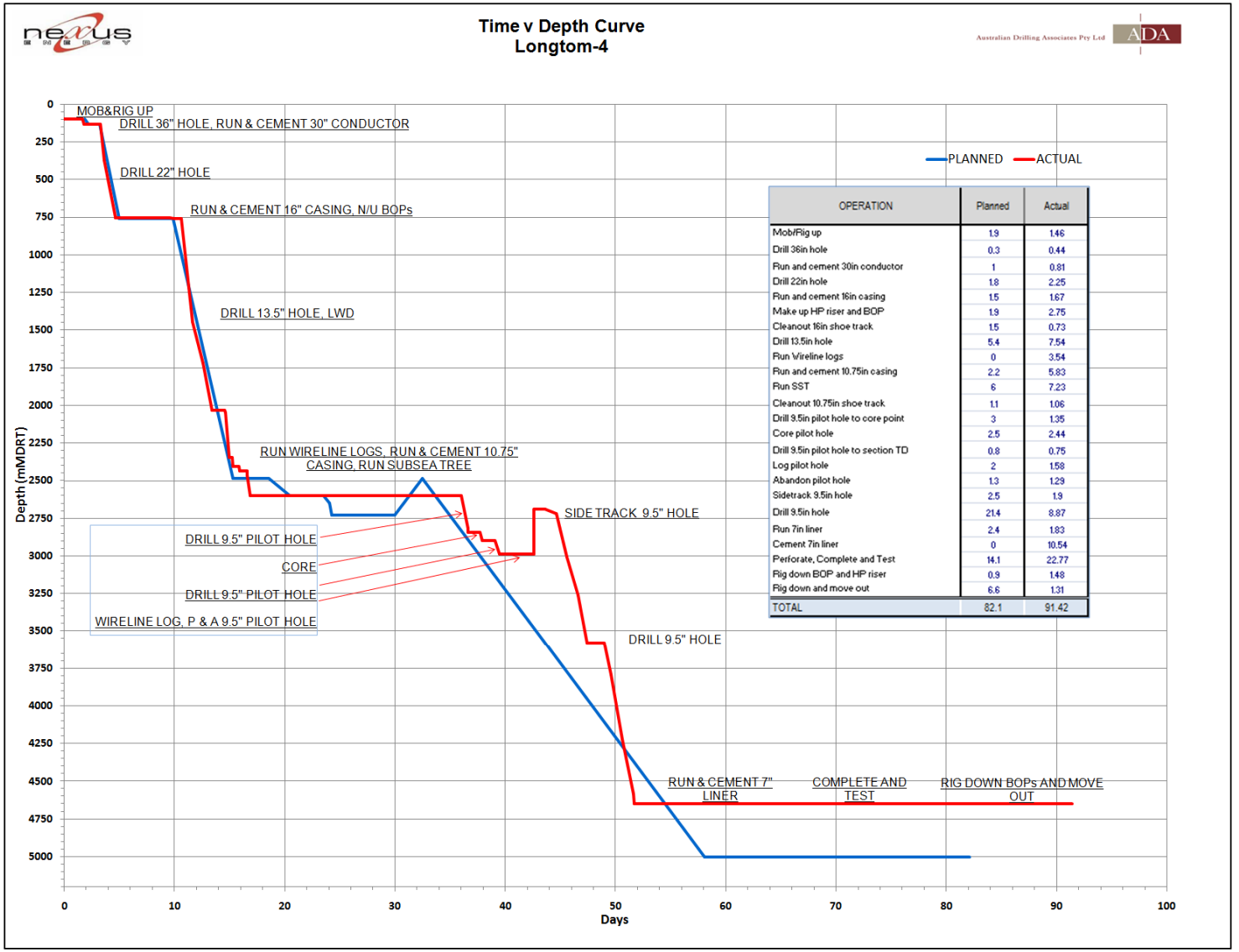
Longtom-4 H

Time Lost (hours)	Description
10	WOW to RIH with 9.5in BHA to drill horizontal hole section. Winds to 70kts prevented safe access to the monkey board for the derrickman.
6.5	Troubleshot and replaced faulty GR on GR-CST tool.
32	MWD failed causing round trip to replace the unit. The opportunity was taken to also replace the bit.
209.75	After releasing the liner running tool from the 7in liner, which was run without a liner hanger i.e. only with a setting sleeve, and while pumping the lead spacer for the cement, a pump pressure increase to 2500psi was observed. Investigation revealed that circulation was through the running tool at the top of the liner and circulation through the liner float shoe was blocked. In order to cement the liner, perforations were made above the shoetrack to establish circulation. However the cement job was complicated by the presence of a water sand just below the 10.75in casing shoe, requiring the liner to be cemented in two stages. The lower section between 4560m and 3550m was cemented using RTTS and stinger. The upper section, across the water sand, was cemented through perforations from 2675m – 2673.5m back to the liner top at 2569m using EZSV, which then had to be drilled out. It remains undetermined what caused the blockage in the liner shoe track. In Baker's opinion the most likely cause of the blockage was debris from the running tool swab cups, but it is not explained how this debris could find a way past the liner wiper plug, which was retrieved undamaged, on the end of the running tool. Perhaps the explanation is as simple as the wrong size ball being dropped to release the running tool. A 1.5in diameter ball was required, but there were 1.75in balls on the rig as a contingency in the event the Baker ST Landing Sub was not available. If a 1.75in ball was dropped, it would seal in the Type II Landing Collar in the shoe track. *Refer to Attachment #13 for Baker's Investigation report of this incident.*

236.5	The Halliburton HF-1 packer (upper packer) failed to set in spite of repeated attempts. As a consequence the completion string was pulled after going through the unsetting procedure for both packers, and a revised completion was rerun. For the rerun the completion design was simplified to eliminate the capability to flow the 400 sand. This was isolated between a seal assembly which was stung into the liner top PBR and a Halliburton AHC packer. Post-well analysis of the packer revealed an original assembly error in the manufacturing plant made it impossible for the packer to set.
13	The RX slickline plug set in the R nipple at 2457m to facilitate packer setting in the recompletion, was found wedged into the 5.5in x 4.5in crossover 15m below the nipple after the packer was set. It took three slickline runs and heavy jarring to successfully recover the plug.
10.5	The SSSV would not hold pressure when attempting to pressure test the tubing hanger from below. Finally bullheaded 2bbl fluid through the valve and successfully repeated the SSSV in-flow test.
7.5	Unable to set subsea tree ITC. Repeated jetting run with soft bull-nose and successfully set plug after opening the AMV and AAV to relieve hydraulic lock.
11	WOW to nipple down BOPs. Winds gusting to 60kts prevented safe working conditions on the texas deck and withdrawal of FRC coverage by the supply boats.

*See Attachment 11, *Non Productive Time (NPT)* for a complete list of NPT events.

5.3 Time Depth Curve



OPERATION	Planned	Actual
Mob/Rig up	1.9	1.46
Drill 36in hole	0.3	0.44
Run and cement 30in conductor	1	0.81
Drill 22in hole	1.8	2.25
Run and cement 16in casing	1.5	1.67
Make up HP riser and BOP	1.9	2.75
Cleanout 16in shoe track	1.5	0.73
Drill 13.5in hole	5.4	7.54
Run Wireline logs	0	3.54
Run and cement 10.75in casing	2.2	5.83
Run SST	6	7.23
Cleanout 10.75in shoe track	1.1	1.06
Drill 9.5in pilot hole to core point	3	1.35
Core pilot hole	2.5	2.44
Drill 9.5in pilot hole to section TD	0.8	0.75
Log pilot hole	2	1.58
Abandon pilot hole	1.3	1.29
Sidetrack 9.5in hole	2.5	1.9
Drill 9.5in hole	21.4	8.87
Run 7in liner	2.4	1.83
Cement 7in liner	0	10.54
Perforate, Complete and Test	14.1	22.77
Rig down BOP and HP riser	0.9	1.48
Rig down and move out	6.6	1.31
TOTAL	82.1	91.42

6. Key Observations and Corrective Actions

Observations by Phase		Comments / Corrective Action Taken or Proposed
Mob & rig up	• It took only 14hrs to preload and jack up to 14m air gap from the time the West Triton was on location.	
Drill 36" conductor hole	• The 36” hole section was drilled without incident and zero NPT.	
Set 30" conductor	• 30” casing was run without incident and zero NPT.	
Drill 22" hole	• Adverse weather conditions prevented initial ROV launch and so was unable to assist stabbing the 22” BHA into the wellhead. Also, failure of soft start on ROV hydraulic system resulted in approx 30 mins lost time being incurred.	
Set 16" casing	• Poor visibility due to cuttings/silt made it difficult to stab the 16” casing into the wellhead. Also, electrical failure in ROV resulted in ROV being swept away with the current and becoming entangled in the port leg, causing approx 1 hour of NPT.	
Set 16" casing	• Retaining plates on the solid body elevators were badly bent. The plates were removed, straightened and reinstalled.	
Set 16" casing	• It took longer to run inner string because the iron roughneck was non operational.	
Drill 13.5" hole	• 13.5in BHA was POOH because the assembly could not hold angle. A new steerable drilling BHA was run and the hole section was successfully drilled as planned.	
Set 10 3/4" casing	• Bail retaining plates on the top drive were found to be bent resulting in increased time spent rigging up for running casing.	

Observations by Phase		Comments / Corrective Action Taken or Proposed
Set 10 3/4" casing	• After pumping 46 bbls of tuned spacer a pressure increase was observed from 430psi to 2,700psi and then decreased back to 430psi. The ball was dropped to release the bottom plug, however there was no pressure increase to indicate the ball seating and the plug shear. It was suspected that the top plug had released prematurely – this was confirmed when the plug bumped after further circulating a casing volume. • Subsequent investigation found that a ball type plunger was installed to release the top plug instead of the correct dart type plunger. The ball type plunger did not protrude far enough to prevent the dart from being released prematurely. • The Ball plunger was broken. Without the ball ring, the ball plunger becomes much less distinguishable from a dart plunger. Furthermore there is no external difference in the appearance of the plungers to readily identify the reversal. No labels, markings or other methods or devices were in place to distinguish between the plungers. • 2.71 days (65hrs) Non Productive Time (NPT) was recorded.	• There is no documented procedure which provided quantitative information on how far the dart plunger should extend. The visual inspection by both the company man and cementer failed because they both wrongly assumed the plunger was sufficiently extended to prevent the dart from being released. A definitive measurement would have removed the need for a subjective (and wrong) judgment to be made. • Although the plunger extension looked sufficient to hold the dart in place, there was probably a lack of appreciation of the vacuum generated by circulation through the head and its ability to suck the dart passed the plunger. • The service procedure for the cement head should be reviewed, specifically detailing measures required to prevent any recurrence of this incident, including a reference to the possibility of the plungers being reversed. These procedures should also be supplied to any third party servicing Halliburton equipment. • An abnormal number of 8 turns vs. a standard of 11 ¾ were not identified by the cementer as indicating a problem. • Review the checklist for SSR plug sets. The correct number of plunger turns to be added to the checklist to identify different plunger types. • See Attachment #12 *Non Productive Time (NPT)* for Halliburton Incident Investigation Report.
Run HP Riser/BOP/SST	• 22in riser - There were no back up specialist joints (6m tension jt, 1m DQ pup)	• If this system was to be used again we would require some back up joints. Delivery schedule at the time did not allow us to have any ready.
Run HP Riser/BOP/SST	• 22in riser - Thread protectors supplied by Begley were	• Organised proper swift thread protectors from Oil

Observations by Phase		Comments / Corrective Action Taken or Proposed
	inadequate.	States.
Run HP Riser/BOP/SST	• 22in riser - thread protectors went missing. Were thrown into rubbish skip on the WT.	• Had to use a make-shift measure for protecting pin ends. Rig crews to be asked to keep all protectors aside in future.
Run HP Riser/BOP/SST	• 22in riser - anti rotation keys only fit 90% of time, had to slightly back off connection for key to fit in some cases.	• Investigate an alternative option if system used in the future.
Run HP Riser/BOP/SST	• Begley H4 Connector - Hydraulic pipe work on top side of connector was not properly protected. This could have allowed the hydraulics to be damaged when passing the connector through the Texas deck.	• Nexus had to weld protective bars into place on the WT prior to running connector.
Run HP Riser/BOP/SST	• Begley H4 connector - lack of dedicated shipping skid for connector made handling on the deck difficult.	• Fabricate dedicated shipping / handling skid if using connector again on future projects.
Run HP Riser/BOP/SST	• Begley H4 connector - lack of VX test port / line on connector prevented us from testing VX gasket after landing connector on WH / SST.	• Incorporate VX test line if using connector in future projects.
Run HP Riser/BOP/SST	• Umbilical reel for connector - Small reel for 2 core umbilical had to be demobilised mid job as Cameron needed it for another project.	• Source dedicated reel for future projects - air driven if possible.
Run HP Riser/BOP/SST	• Claxton Ring - Dropped slip segment when removing Claxton ring due to transit bolts being sheared by uneven CTU piston stroking.	• CTU plumbing needs to be altered so that pistons can be isolated and load ring can be raised / lowered evenly.
Run HP Riser/BOP/SST	• Claxton Ring - Generally slow and potentially dangerous to install and remove.	• Strongly consider using an alternative system in the future.
Run HP Riser/BOP/SST	• Lack of suitable rigging for SST load out - no stinger for TRT shipping skid and incorrect lifting arrangement for HPU.	• Cameron to ensure they comply with basic industry standards for offshore rigging.
Run HP Riser/BOP/SST	• TRT test port on TRT body was still plugged after making up tool to SST. This plug should have been removed prior to skidding the SST / TRT under the cantilever. This could have caused a hydraulic lock situation when landing the SST on the WH.	• Had to fashion special tool to remove plug, wasting time doing this.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Run HP Riser/BOP/SST	• PETU - modem short circuit. PETU did not have a built in UPS to allow for fluctuations in the rig supply voltage, this resulted in the PETU's modem card being damaged.	• Had to mobilise and fly out a replacement modem card at very short notice.
Run HP Riser/BOP/SST	• Open and closed markings not painted on SST rotary valves until just prior to running SST.	• Ensure this is done prior to equipment leaving the factory.
Run HP Riser/BOP/SST	• Umbilical deployment frame - good concept however lead in profile needs to be longer to aid installation.	• Minor design modifications required if concept is used again.
Run HP Riser/BOP/SST	• Lack of general purpose Haskel pump (small HPU) for function / pressure testing.	• Must ensure that basic equipment requirements are met.
Run HP Riser/BOP/SST	• Vector connector - lack of correct tooling to torque up elbow bolts.	• Ensure correct tooling is made available for future projects.
Run HP Riser/BOP/SST	• Vector connector - insufficient access to bolts (elbow to hub flange).	• Check interfaces thoroughly.
Run HP Riser/BOP/SST	• Dril-Quip radial bolt connector on lower riser joint – up to 1 hour required to make up and torque studs.	• Investigate more efficient options if used in the future.
Run HP Riser/BOP/SST	• DQ clutch type running tool leaked when under low pressure during riser system pressure test.	• Evident that the ID of the mandrel had to be increased to allow clear passage of various Cameron tools. Seal between RT and mandrel was not possible due to increased ID of mandrel.
Run HP Riser/BOP/SST	• DQ service tech had insufficient tooling and storage (tools container) on the WT.	• Ensure Drill Quip has a fully equipped tool box on the rig.
Run HP Riser/BOP/SST	• DQ service tech and Seadrill AD used new DX gaskets for BOP stump tests.	• Lock Container in future.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Run HP Riser/BOP/SST	• ROV lost thruster capability (elec failure) and floated to surface while attempting to locate WH in preparation for landing H4 connector.	
Run HP Riser/BOP/SST	• While attempting to land SST, an ROV electrical supply problem resulted in the 5 function manipulator being rendered useless.	• Rig was still skidding to well centre but had to wait for ROV so trash cap could be removed to allow SST to be landed out.
Drill 9 ½" pilot hole (Longtom-4 P)	• 21.5 hours were lost while drilling the 9 ½" pilot hole of which 12.5 hours was due to third party problems (TP) and the remaining 9 hours was lost due to rig equipment (RE).	
Drill 9½" hole	• Problems were encountered with the MWD tool and had to be restarted several times using the top drive system. After the third failure the MWD was POOH and a back up tool was run.	• Schlumberger to investigate MWD failure and report findings.
Drill 9½" hole	• A leaking valve between pit #3 and pit #6 caused base oil to dilute the mud system and reduce the mud weight. This incident had potential to cause significant down time and compromise safety.	
Set 7" Liner	• The 7in liner was run without a liner hanger i.e. it was run with a setting sleeve only. After successfully releasing the running tool from the liner and pumping the cement pre-flush, 4bbls of cement were pumped before pump pressure increased rapidly to 2500psi. The cement was dumped and after diagnostics of the problem, the running tool was POOH and a remedial cement job was planned. This was performed in two separate parts to cement the lower section of the liner and then to place cement around the top of the liner to seal off a water sand located immediately below the 10.75in casing shoe. • The liner wiper plug was recovered undamaged, on the end of the running tool, but there was substantial damage to the swab cups.	• The well was planned with an un-cemented 7in hanger-less liner. However, the presence of water sands at TD and also immediately below the 10.75in casing shoe dictated that cementing was required and late changes were made to the liner string, and running procedures, accordingly. • The liner was run with a Type II Landing collar and a ST Landing sub to provide alternate means of releasing the running tool from the liner. The Landing Collar was a backup in the event ST Landing sub did not arrive at the rig in time. The ST Landing sub was designed to operate with 1.5in diameter ball whereas the Landing Collar required a 1.75in ball. • Once the ST Landing sub arrived at the rig, the insert Type II Landing Collar should have been removed from the string.

Observations by Phase		Comments / Corrective Action Taken or Proposed
		• Failure of the swab cups was attributed to relative movement between the running tool and liner during rotation/circulation (due to the absence of a liner hanger) after the running tool was released from the liner.
Set 7" Liner	• 8.74 days (209.75hrs) Non Productive Time (NPT) was incurred in the remedial cement job	• See Attachment #13 Baker Oil Tools Investigation Report. The main conclusions of this report are: • Rotation of a hanger-less liner, after release of the running tool, increases the risk of running tool component damage • Debris from the damaged swab cups could have caused the pressure increase prior to the cement job * Recommendations from the report: • When a liner is to be rotated and cemented, use a liner hanger - i.e. don't run a hanger-less liner. • Again for cementing a liner, use a slick stinger pack-off system rather than the swab cup arrangement used on this occasion. • Use a ball catching device in the running tool assembly. * Baker cannot explain how swab cup debris could get past the liner wiper plug into the circulating path while the plug remains in place on the running tool
Set 7" Liner	• ROV hydraulic recovery winch failed, requiring replacement parts to be flown out - did not complete repairs for 4 days.	• No ROV dependent operations were occurring at this time.
Completion	• The TCP run was performed before the cleanout run, rather than after it (reversing the sequence specified in the original SCP (Supplementary Completion Program).	• There is no doubt that this resulted in the well being much cleaner than if the TCP run had been made after the cleanout trip.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• 0.5 hours of NPT was recorded against the TCP operation, resulting from a failure of the hydraulic dog collar at the start of the operation. This tool was supplied by Weatherford, but they weren't on board during the TCP operations.	• The learning from this was to test the tool before use, rather than just locate it. Note that it was also felt that a hydraulic dog collar offered little or no time-saving over a manual dog collar, whereas an air-operated dog collar would likely offer reasonable time savings.
Completion	• The Zip Bails (or "Perfection Links") were employed to enable a very quick change to 5½" DP elevators if required for well-control reasons during the TCP runs, but these were also found to be very useful for ongoing operations.	• The mousehole is incorrectly positioned on this rig and these links enabled easy access to tools in the mousehole. Note that this also provided a significant advantage during the completion running and pulling phases.
Completion	• It was originally planned to load the TCP guns onshore, but this option was found to be too difficult to achieve in the lead time available - Baker-Atlas found that it would take 6 to 9 months to obtain a license to perform this work in Victoria	• Baker-Atlas, Halliburton & Schlumberger to be asked what they do in other states.
Completion	• 2 fairly large pieces of rubber (each approx 9" long x 3" wide x ⅜" thick) were recovered from the Well Patroller, these were off the Riser Brush Tool. The merits of using this Riser Brush Tool were questioned.	• MiSwaco to explain this tool failure.
Completion	• ROV : Perspex cover on HCU for 5 fn manipulator cracked due to build up of hydraulic pressure caused by excessive pumping rate (operator error). Seawater then contaminated the entire hydraulic system.	• ROV being used for CSM valve movement prior to pulling Bore Protector.
Completion	• Significant difficulties experienced making up the Hunting Vam FJL Blast Joints, had to use large quantities of pipe dope to achieve a reasonable make-up graph.	• Consider using an alternative thread in future completions (eg, heavier Vam FJL, or even PH6 etc).
Completion	• Tubing fill volumes were incorrect – driller kept record of pump strokes used rather than volumes pumped out of pit (ie, compare mud pit differences), probably due to the fact that the charge pump was overtaking the mud pump at the low tubing fill rates used.	• Ensure that actual pit volumes used in future.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• Only 1 tubing hanger connection was supplied for the gauge cable (left over from Longtom-3), Baker ProductionQuest did not tell us that we needed to order a backup. However, they managed to obtain a backup for the recompletion.	• Ask equipment vendors to ensure that all required equipment is ordered.
Completion	• Contaminated Castrol Transaqua HT2 Control Fluid - After pressure testing the MTHRT with the HPU some dirty fluid from the test made its way back into the supply tank of the HPU via the test line and rendered the fluid useless.	• Had to dump the fluid from the tanks and replenish the supply from emergency drums.
Completion	• Lack of Enerpac or similar manual hydraulic pump for testing TH ports.	• Must ensure that basic equipment requirements are met.
Completion	• MTHRT - no back up RT was available. Hydraulic tool was available but was not a suitable option.	• If using MTHRT in the future it may be worthwhile having another tool manufactured for backup purposes.
Completion	• Spaceout was 0.3m deeper than expected (landing string had minimum stickup remaining). Not critical in the initial completion, but was critical for the recompletion.	• Strap the drillpipe string used to retrieve the bore protector in future, to ensure that the hanger depth is correct.
Completion	• The quick-connects ordered for the flowhead were very advantageous – these made the installation of this flowhead far easier. In general, the flowhead rig-up and rig-down went very well (both times).	• Ensure that quick-connects are always supplied with the flowhead.
Completion	• The SCP was revised to eliminate the requirement for a lubricator during the initial slickline runs (replacement of isolation sleeve with wireline protection sleeve in tubing hanger, and retrieval of SSSV lock-out prong).	• Don't rig up slickline lubricator if not really required, just perform these runs "open hole" – otherwise time and risk is added unnecessarily.
Completion	• No spare tubing hanger isolation sleeve, wireline protection sleeve, or backup GS running / pulling tools were available.	• Ensure all required equipment is covered by the Purchase Order.
Completion	• The SCP was revised to perform the preliminary TR-SSSV inflow test before the packers were set rather than after (and before the tubing was circulated to diesel), so as to eliminate unnecessary steps if the TR-SSSV failed this test for some reason.	• Always perform this test at the first opportunity, to save time.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• Testing the tubing prior to displacing to diesel required an XX plug to be run and then retrieved, which resulted in misruns (in both the original completion and the recompletion) as the GU adapter was required for the first run to open the equalising melon but it appears that the GR pulling tool (= GS with GU Adapter) did not latch the plug each time, and had to be rerun as a GS each time before the plug was retrieved.	• Several recommendations : a. As there was lots of dope on the plug each time it was retrieved, it was recommended that dopeless pipe technology be considered in future, although the lead times for this pipe can be excessive. b. There was some discussion at the Completion Review Meeting about the merits of these tubing tests being performed at all, given that torque-turn graphs were being obtained, but it was felt that we would be exposed without any tests being performed before circulating diesel into the well and then pressuring up to 5500 psi to set the packers. c. Note that an option to perform these tests in one run rather than 2 was investigated (ie, by using an X-Selective Test Tool), but this tool was not available from Halliburton in the 3 month time-frame requested.
Completion	• The SCP was revised to rig down the slickline lubricator at the end of these runs and replace it with a pressure-test cap, rather than leaving the lubricator rigged up during the well test (for safety reasons).	• Incorporate this change into future programs.
Completion	• The WellDynamics HF1 Packer did not set – direct communication past the packer was apparent on pressure-testing the annulus, after the packer-setting operation had taken place. This required the completion to be replaced, costing 245 hours of NPT.	a. Post-well analysis of the packer revealed an original assembly error in the manufacturing plant made it impossible for the packer to set.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• It has become evident that the presentation of downhole data by Cameron (who had a "Data Engineer" on site during this process) was appalling – we were provided with raw data (frequencies) only, with an incorrect time zone applied – Cameron should have been able to convert this data into temperatures and pressures on a continuous basis, at the wellsite. Furthermore, the Cameron data was not available at the Expro lab or company man's office. This applied through the whole of the remaining completion, recompletion and well testing phase.	• NCR to be raised on this poor performance by Cameron, to ensure that suitable interfaces and information are available instantly on site in the future, and to ensure that the data provided from the SCR to the onshore control plant during production will be meaningful data.
Completion	• The completion retrieval operation was relatively successful, in that both packers released as designed and the whole completion was retrieved in one run.	
Completion	• Rather than replacing the completion, one option that was considered was to RIH 3½" wash string and perform a cement circulation / squeeze through the ICV. However, this option was eliminated after some discussion, as it was considered to be too risky, with a significant chance of the well being junked by utilising this method.	• Not worth taking shortcuts.
Completion	• The Cameron THRET (Tubing Hanger Emergency Retrieval Tool) is a poor design in that it is required to be run on drillpipe and has a 4½" IF connection in it, thereby eliminating the opportunity to perform slickline runs through this tool. The retrieval process was somewhat restricted because of this.	• A full bore version of this is to be available for future completions, so that slickline work can be conducted through this tool to retrieve plugs, etc, if required.
Completion	• The WellDynamics HF1 packer was successfully released with one slickline run, despite concerns that the releasing tool would not run into or be retrieved from the packer without some problems running through the 4.562" nipples.	• This concern had been looked into prior to during the design phase, but reconfirmation was sought, and obtained, from WellDynamics at the time.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• Difficulties were experienced running the chemical cutter head through the ICV when this was in the closed position, but this problem was solved (inexplicably) when the ICV was opened.	• Drift ICV with Chemical Cutter Head during future pre-assembly work.
Completion	• The chemical cutter head disintegrated after it had been retrieved and when it was laid out on the deck.	• Schlumberger to explain why this happened, and advise what steps will be taken in future to prevent re-occurrence.
Completion	• The string had to be worked several times to free up the packer(s) and elements – approximately 18 hours lapsed before the completion came free.	• The retrieved control lines & gauge cable were folded over the cross-coupling protectors in some places.
Completion	• All the control lines and protectors were recovered with the retrieved completion.	• Important to count these accurately and record this information – difficult to ascertain the quantities run at the time.
Completion	• Lack of spare MEC seals available for backup TH.	• Cameron need to have sufficient spares on the rig at all times.
Completion	• Once the replacement tubing hanger was landed and the replacement completion was stabbed into the liner PBR, the tubing was no longer being kept full while rigging up the flowhead etc (only annulus was being monitored). It was subsequently discovered that the lower group of perforations were taking fluid, resulting in the well being in an underbalanced state by the time the flowhead master valve was opened, with 120 psi THP seen (and increasing at approximately 1 psi/min).	• This was a significant oversight in both the design and operational phases, and could have been avoided either by filling the tubing regularly while rigging up the flowhead, or by opening the SSD before the TR-SSSV was installed earlier (ie, after the spaceout had been calculated), therefore allowing the tubing to be kept filled while circulating across the top of the riser. It is recommended that a Well Barrier Analysis be included at the start of each major program step in future SCPs or MoCs (Management of Change documents).
Completion	• The TR-SSSV was set deeper in the final completion than had been previously planned, following a late request from the Nexus Process Engineers to set this as deep as possible to minimise hydrate formation during production.	• This change should have been communicated by the Process Engineers much sooner in the design phase.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• The prong in the TR-SSSV took 2 runs to retrieve, with a large amount of "thick grease" reported as being found on top of the plug. It was suggested that this could have been WOM gate valve grease, possibly resulting from the Flowhead valves being repacked between uses, but Schlumberger have confirmed that they did not perform any work on the flowhead between jobs.	• Ensure the well is clean and remains clean during slickline operations. Ensure slickline contractor has adequate fishing tools (bailers etc...).
Completion	• The program called for the XOV to be open in the SST while pulling the isolation sleeve, so as to avoid pressure-locking the sleeve in place while pulling it, but this was written on the basis that the well would be dead at the time – which it wasn't. Opening the XOV resulted in the tubing pressure dropping from 334 psi to 80 psi when it vented into the annulus, causing one of the rotary table bushings to be pushed out.	• Carefully reconsider the program steps when there is unexpected pressure in the well, and ensure that the bushings are always locked in place.
Completion	• The 4.562" XX plug took 2 runs to retrieve again (refer to Completion Item above) during the recompletion.	• Refer to Completion Item above.
Completion	• The 4.313" R Plug, used to pressure up against when setting the replacement top packer, was found 16m deeper when they went to retrieve it. Positive indications of it being set in the nipple properly were seen when the plug was run. There is currently no explanation for this discrepancy. Note that there were no obvious marks or damage on the plug when it was finally retrieved, but it took several hours to jar it free from its final resting place downhole. It was thought to be unlikely, but not impossible, for this plug to have formed a seal on the crossover from 5½" to 4½" during the packer-setting operation.	• Use nipples with NoGo profile in future, or use a 1-trip system (eg, X/R-Selective or N-Test Tool), instead of a plug - note that the tool to enable this (4.313" R-Selective Test Tool) was not available from Halliburton in the 3 month time-frame requested.
Completion	• Lack of senior Cameron personnel available for completion - only one senior Cameron Tech available, which resulted in the senior tech working excessive hours. Other techs did not have sufficient experience to work unsupervised.	• Sufficient numbers of experienced Cameron personnel need to be made available for completions.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Completion	• Cameron personnel management at Deer Park was poor - requests for personnel were not correctly followed through by Cameron service manager, service personnel were not receiving reliable mobilisation information from management.	• Ensure Cameron management have a clear understanding of the processes in place for mobilising and supplying service personnel.
Completion	• Some of the used chrome tubing (eg, from the landing string) was shipped back onshore in bundles using steel casing slings, rather than in wineracks.	• Rig crews to be educated in correct handling of chrome tubulars. This tubing will need to be inspected and repaired before it can be considered safe for re-use.
Completion	• The provision of Completion Supervisors during this job was erratic – at one stage the Night Shift Completion supervisor was demobilised during the job to work on another project.	• It is essential that dedicated 24-hour supervisory coverage is provided during the completion and testing phase.
Well Test	• The flow back went well, with no significant issues noted.	• Expro support offshore was, as usual, very good. However, the same could not be said for the poor onshore support provided by Expro prior to the job.
Well Test	• A high flowrate (ie, bypassing the test separator) was desired by the Reservoir Engineers but this was not programmed so was not conducted.	• Requirements such as this should be included in the program in future.
Well Test	• The despatch of samples collected during the well test was poorly managed, despite the requirements for this being fairly clear in the program. These were eventually despatched to the correct destinations from the Barry Beach Store, although there were issues with the delivery of these to Barry Beach – they arrived there without any DG paperwork, despite this being included with the container when it was despatched from the rig.	• Reservoir Engineer or Completion Supervisor on the rig to manage these samples, to ensure that they are despatched to the correct addressees and with the correct paperwork attached.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Well Test	• The Expro rig visit before the job missed one critical piece of information – the fact that the rig's "Well Test Line" included a section of flexible hose which was not rated to carry hydrocarbons in it!	• Ensure that rig equipment is fit for purpose, or make alternative plans if not. Fortunately, there were sufficient spare sections of hard pipe available to create a new temporary test line. The West Triton should replace this line with a flexible line that is correctly rated.
Well Test	• The RigCool rig visit before the job incorrectly identified the connections on the deluge lines to the flare booms (but the incorrect protector caps had been installed on these lines by the fabrication yard).	• Ensure that rig equipment is fit for purpose, or make alternative plans if not. The Rigcool crew on the wellsite managed to get replacement connections sent out in time.
Well Test	• Expro's onshore support before the job was poor – for example, several dozen phone call messages and emails were not responded to by Paul Emmerson during attempts to ensure that the correct landing string crossovers and other equipment would be available – eventually some of this equipment had to be manufactured on a "rush" basis.	• Ensure that a dedicated support engineer or coordinator is supplied for the project.
Suspend Well	• The SSSV performed a very good in-flow test immediately after the well test was concluded, with a net differential pressure of around 3360 psi across it. However, when the tubing hanger plug was being tested from below to 1500 psi, resulting in the differential across the SSSV being reduced to around 2000 psi, this valve leaked slowly, allowing the pressure to build up to 3400 psi. 2 attempts to operate the SSSV via the self-equalising device (ie, pressuring up on the SSSV open line) did not solve the problem, but pumping 2 bbls of fluid into the well appeared to clear most of the suspected debris off the valve, with an acceptable (but not perfect) test being achieved after this. Note that it is suspected that most of the glycol placed above this valve will have been lost downhole during this process.	• The value of this 1500 psi test below the tubing hanger plug was questioned – given that the plug was tested from above to 4000 psi, and a test to 1500 psi from below does not cover the pressure that this plug is likely to see.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Suspend Well	• The original expectation was that Cameron would pre-install the ITC plug into the ITC onshore, before shipping this tree cap out to the rig, but they were unable to do this so the SCP was written to include this installation of this plug via slickline after the ITC had been installed. However, a procedure was established to install this plug into the ITC on the deck, off the critical path and prior to running the ITC, so MoC4 was issued to eliminate these slickline steps.	• Cameron to ensure that this plug is pre-installed onshore before shipping the ITC offshore.
Suspend Well	• The ITC (with plug pre-installed) was not able to be latched during the first run, possibly because of back-pressure in the TCT line, so the AAV and AMV were opened briefly during the 2nd attempt which allowed the ITC to land and latch quite easily.	• Open as many lines as possible to ensure that the ITC is unlikely to become pressure-locked which landing same. Preference is not to open up to the annulus if avoidable, as this could result in the annulus becoming over-pressured later when the well is put on production.
Suspend Well	• The Claxton Clamp was considered to be a fairly fragile piece of equipment.	• It was felt that the Icon design may have been a better option.
Suspend Well	• The lack of guidelines made some of the riser running and retrieval operations difficult.	• Guidelines should be considered as an addition in future similar wells drilled by a jack-up.
Rig Down BOPs	• The ROV struggled to park EFL on subsea deployment frame and it was dragged off with the current.	
Rig Down BOPs	• The ROV struggled to install long term EFL cover after removing EFL from SST - took approx. 2 hours (operator error).	
Rig Down BOPs	• On recovering ROV after installing some marine growth covers the clevis pin (securing umbilical to the top of the sub) was damaged by applying excessive stress with the umbilical and not taking enough of the load with the winch.	• ROV was needed to make another dive, but the remaining work scope (install marine cover, debris cap, scm cover and survey) could be achieved from the Pacific Protector after the Longtom-3 ROV intervention, so it was decided not to risk damaging the ROV further.

Observations by Phase		Comments / Corrective Action Taken or Proposed
Rig down & move out	• Port crane became non-operational due to on-going electrical problems after 1:00hrs on the 18th September 2008. No down time resulted for the electrical malfunction.	• Ensure adequate preventative maintenance systems are in place for rig equipment.

7. Well Schematic

nexus ENERGY	OPERATOR: **NEXUS ENERGY**	FIELD / WELL: **LONGTOM-4**	WELL SKETCH: **AS SUSPENDED**
	DRILLING RIG: (RT 97.03m ABOVE ML) **WEST TRITON (JACK UP)**	LEASE: VIC/L29 **Gippsland Basin, Block 1852**	API NUMBER:

DIRECTIONAL DATA

MAX DEV:	94	deg @	3373.36m	MD
DLEG SEV:	5.97	deg/30m @	2911.49m	MD

DRILLING / COMPLETION FLUID

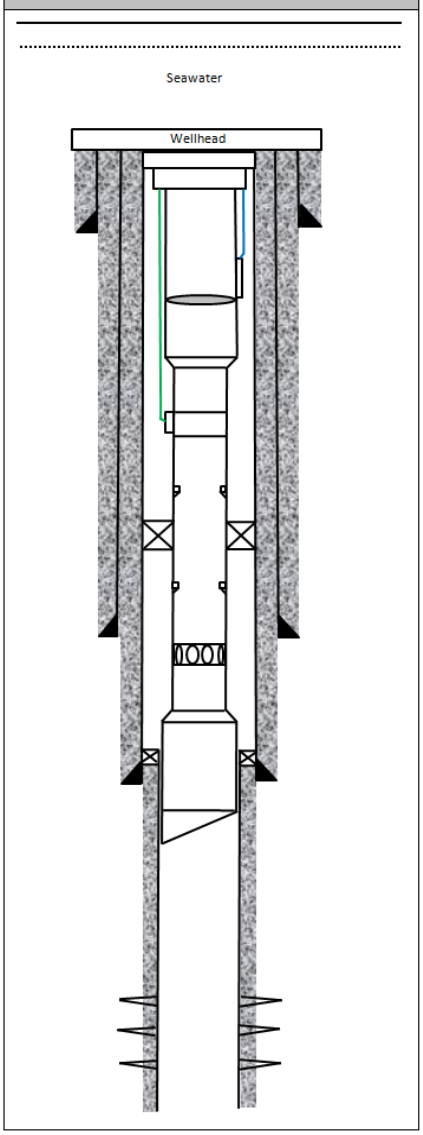
DRILLING FLUID:	11.10	ppg KCl Polymer WBM
DRILLING FLUID:	12.10	ppg Accolade Mud
COMPLETION FLUID:	11.00	ppg Brine
COMPLETION FLUID:		
PACKER FLUID:	11.00	ppg Brine

TUBULAR DATA

Tubulars	OD	ID	Weight	Grade	Thread	TOC
CONDUCTOR	30.000	-	457ppf	X52	LYNX HD/HT	ML
CONDUCTOR	30.000	-	310ppf	X52	LYNX SA-2	
SURFACE	16.000	15.124	75ppf	NT80DE	API BTC	ML
PRODUCTION	10.750	9.660	55.5ppf	L-80	Tenaris Blue	ML
PRODUCTION	10.750	9.660	60.7ppf	Q-125	NSCC	
PRODUCTION	7.000	6.276	26.00	L-80	Hydrill 513	2,569
PRODUCTION	7.000	6.184	29.00	L-80	Hydrill 513	
PROD TIEBACK	7.000	6.151	26.00	13Cr80	Fox	NA
PROD TIEBACK	5.500	4.767	17.00	13Cr80	Fox	NA

WELLHEAD DATA

TYPE	Cameron STC-10
WP	10,000
TREE CAP	Profile: Vetco H4
TUBING HANGER:	
ID (minimum):	4.795"
ELEVATIONS:	WTR DEPTH: 55.97
TRT-ASL: 41.06	OTHER:
RT-ML: 97.03	



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD - BRT	DEPTH MD-BRT
SEA LEVEL			41.06	41.06
WELLHEAD			95.10	95.10
MUDLINE			97.03	96.20
Packer, 10 3/4" x 5 1/2"	4.858	9.375	2,259.49	2,454.52
Cross Over 5 1/2" x 7" Halliburton	4.888	7.767	2,274.04	2,480.34
Tie back seal assembly	6.683	8.350	2,330.81	2,556.35
1.77m inside 7" Liner				
Top Of 7" Liner (TOL)			**2,300.69**	**2,570.56**
Bottom Of 7" Liner (TD)			**2,696.19**	**4,648.00**

COMMENTS:
Refer to *Attachment 10 - Well Suspension Reports* for completion details and perforation intervals
DRAWING NOT TO SCALE

TOTAL WELL DEPTH: 2,696.19 4,648.00

PREPARED BY: M. Siegman **DATE:** 3/11/2008 Rev 0

See Attachment 10 for detailed Completion Schematic.

8. ATTACHMENTS

Attachment 1:	**Well Montage**
Attachment 2:	**Bit and BHA Record**
Attachment 3:	**Mud Report**
Attachment 4:	**Casing Report**
Attachment 5:	**Cementing Report**
Attachment 6:	**LOT/FIT Report**
Attachment 7:	**Surveys and MWD - LWD**
Attachment 8:	**Activity Summary Reports**
Attachment 9:	**Well Cost Summary**
Attachment 10:	**Well Suspension Reports**
Attachment 11:	**Non Productive Time (NPT) Summary**
Attachment 12:	**Halliburton Report (Premature Release of SSR Plug)**
Attachment 13:	**Baker Oil Tools Report (7in Liner Job)**
Attachment 14:	**QTEC end of well report**

LONGTOM-4 WELL SUMMARY

PROJECT:	Bass Strait Consortium	SURFACE	Latitude 38° 6' 17.707" South	DATUM:	Rotary Table	LICENSE:	VIC L29
WELL:	Longtom-4	LOCATION:	Longitude 148° 19' 59.944" East	ELEVATION ABOVE MSL (m):	41.06	BASIN:	Gippsland
CLASSIFICATION:	Exploration Well	UTM:	GDA94 Zone 55	WATER DEPTH (m):	55.97	STATE:	Victoria
RIG:	West Triton		5,781,704.499m N; 616,897.309m E	WELL SLOT:	NA	OPERATOR:	Nexus.

PREPARED BY:	Matt Siegman
APPROVED BY:	Mark Nasarczyk
LAST UPDATED:	10/10/2008

PROGNOSED FORMATION DEPTH				CASING SHOES	HOLE SIZE	CASING					FRACTURE GRADIENT (ppg)	BHST	MUD PROGRAM	CASING / LINER CEMENTING PROGRAM				SURVEY PLAN	BITS AND BOTTOM HOLE ASSEMBLIES	FORMATION EVALUATION
	Mtvdss	mTVDrt	mMDrt			SIZE	WEIGHT (ppf)	GRADE	CONNECT-ION	Shoe Depth (mMDRT)				Additives	Density	TOC	Excess			
Seabed	56	97	97		36" Hole	30"	310	X52	LYNX	128.8	Not tested	25°C	Seawater & Viscous Sweeps	Single Class 'G' Slurry Calcium Chloride NF-6 Seawater	15.9ppg	Mudline 97m MDRT	200%	MWD	Rotary BHA 26" Reed Y11C Bit + 36" HO Bit Sub with Float Sub Power Pulse HF 2 x 9.5" Collar 9.5" Crossover 4x 8" Collar	MWD DIR
Gippsland Limestone					22" Hole	16"	75	NT80DE	BTC	750.03	13.7ppg	55°C	Flocculated Seawater & Bentonite/Guar Gum Sweeps	Lead Class 'G' Slurry Econolite NF-6 Seawater	12.5ppg	Mudline 97m MDRT	50%	MWD	Rotary BHA 22" Smith XR+C Bit Float Sub Power Pulse HF 1 x 9.5in Drill Collar 22in Stabilizer 1 x 9.5in Drill Collar 22in Stabilizer 1 x 9.5in Drill Collar Cross Over 1 x 8.25in Drill Collar Hydraulic Jar 1 x 8.25in Drill Collar Cross Over 15 x 5.5in HWDP	MWD GR DIR
														Tail Class 'G' Slurry CFR-3L NF-6 Drillwater	15.8ppg	550m MDRT	50%			
	1161	1202	1229		13.5" Hole									Class 'G' Slurry Halad-413L CFR-3L SCR-100L Drillwater	15.8ppg	1900m MDRT	30%	MWD	13.5" RSS BHA 13.5" Reed RSX616 PDC Bit PowerDrive X5 PowerDrive Receiver Flex Collar ARC-8 Telescope MWD ADN-8 Cross Over 6 x 5.5in HWDP Cross Over Hydraulic Jar Cross Over 9 x 5.5in HWDP	MWD GR-DIR LWD ARC-AND WIRELINE LOGS: XPT-DSI MDT-GR GR-CST
Lakes Entrance	1223	1264	1298																	
Latrobe (Cobia & Halibut Sub Groups)	1547	1588	1676										**SMB - Accolade** MW, ppg = 11.8 - 12.3 PV, cP = 22 - 49 YP, lb/100ft2 = 8 - 42 HTHP , ml/30min =2 - 4 NAP/Water=65/35-75/25 LGS, % vol=3.3 - 9								
U. Volcanics	1575	1616	1708																	
Chimaera	1598	1639	1736																	
Kipper Shale Emperor Sub Group	1954	1995	2143			10.75"	55.5/ 60.7	L80 / Q125	Tenaris Blue NSCC	2,590.78	14.0ppg	71°C								
Admiral Emperor Sub Group					9.5" Hole									HTB Cement Slurry (Remedial Job) Halad-413L Gascon-469 CFR-3L SCR-100L NF-6 Drillwater	15ppg	Cement intervals: 2569-2675m MDRT & 3550-4560m MDRT	0%	MWD	9.5in RSS BHA 9.5in PDC Bit PowerDrive Xceed 675 Eco Scope Tele Scope NM HWDP Cross Over 6 x 5.5in HWDP Cross Over Jar Cross Over 12 x 5.5in HWDP	9.5in PILOT HOLE: MWD GR-DIR LWD ARC LWD ECOSCOPE WIRELINE LOGS: XPT-DSI GR-CST 9.5in PRODUCTION HOLE: MWD GR-DIR LWD ECOSCOPE
	2433	2474	2797										**SMB - Accolade** MW, ppg = 11.8 - 12.3 PV, cP = 22 - 49 YP, lb/100ft2 = 8 - 42 HTHP , ml/30min =3 - 5.6 NAP/Water=70/30-75/25 LGS, % vol=5.3 - 9.5								
Volcanics Eperor Sub Group						7"	26/29	L-80	Hydril 513	4,648.00	Not tested	133°C at TD								

DFE above MSL : 41.062m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time: 01.20 | Release Time:

Bit Record

Well: Longtom-4

Date In	Date Out	IADC	Bit#	Size (in)	Ser #	Mfr	Type	Jets	TFA	D.In (m)	D.Out (m)	Prog (m)	Hrs IADC	ROP (ft/hr)	SPP (psi)	Flow (gpm)	WOB (klb)	RPM	MW (ppg)	I	O1	D	L	B	G	O2	R
20 Jun 2008	21 Jun 2008	111	1RR	26.00	34406	REED	Y11C		0	97.0	132.0	35	2.5	14	800	1000	5000.00	90	11.10	1	1	WT	A	0	I	NO	TD
22 Jun 2008	24 Jun 2008	115	2RR	23.00	MZ3173	SMITH	XR+C	1 x 15 3 x 22	1.286	132.8	755.0	622.2	33	18.85	2300	1200	20.00	140	9.95	2	2	WT	A	1	I	NO	TD
28 Jun 2008	29 Jun 2008	115	3	14.75	WC6252	REED	T11	3 x 20 1 x 15	1.093	755.0	758.0	3	0.5	6	1700	1100	12.00	80	24.98	0	0	NO	A	0	I	NO	BHA
29 Jun 2008	02 Jul 2008	M422	4	13.50	219224	REED	RSX616M-A3	3 x 18 3 x 16	1.335	758.0	2031.0	1273	63	20.21	3650	1100	25.00	140	55.13	2	4	CT	A	X	I	WT	BHA
03 Jul 2008	06 Jul 2008	M422	5	13.50	JY2593	Smith Bits	M516LSPX	3 x 18 2 x 20	1.359	2031.0	2600.0	569	21	27.1	3950	1200	20.00	150	65.52	0	0	NO	A	X	I	NO	TD
09 Jul 2008	09 Jul 2008	M422	5 RR	13.50	JY2593	Smith Bits	M516LSPX	2 x 20 3 x 18	1.359	2600.0	2600.0	0	0		3900	1050	5.00	150	68.05	0	0	NO	A	X	I	NO	LOG
14 Jul 2008	14 Jul 2008	115	6	9.50	5104243	HUGHES	MX-01	3 x 20	0.92	2600.0	2600.0	0	0						72.19	1	1	WT	A	1	I	NO	TD

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ADA_AU_FWR.xsl (parent/child V1.3)

Wellname : Longtom-4	Drilling Co. : Seadrill	Rig : West Triton

DFE above MSL : 41.062m	Lat : 38 Deg 06 Min 17.707 Sec	Spud Date : 21 Jun 2008	Release Date :
Water Depth : 55.968m	Long : 148 Deg 19 Min 59.944 Sec	Spud Time: 01.20	Release Time:

'Copyright IDS 2007', 20071227 (KS&JG),
ADA_AU_FWR.xsl (parent/child V1.3)

DFE above MSL : 41.062m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time: 01.20 | Release Time:

BHA Record

#	Date-in	Length	Weight	Weight Blw/Jar	String Weight	Pick-Up Weight	Slack-Off Weight	Torque Max	Torque on Bottom	Torque off Bottom	Description
1	20 Jun 2008	70.3	38.00		100.00			8000	2000	500	26in bit, 36in H/O, bit sub, Power Pulse, 2x 9.5in DC's, X/O, 4x 8.25in DC's.
2	22 Jun 2008	213.4	56.00		148.00	149.00	148.00	7000	4000	1000	22" bit, Float, Power Pulse, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, X/O, 1x 8.25" DC, Jar, 1x 8.25" DC, X/O, 15x HWDP.
3	28 Jun 2008	200.3			140.00	140.00	140.00	5000	3500	2000	
4	29 Jun 2008	183.1			200.00	220.00	198.00	20000	8000	7000	
5	03 Jul 2008	184.0			214.00	242.00	200.00	21000	11000	7000	
6	09 Jul 2008	185.9			232.00	240.00	224.00	8000		5000	
8	14 Jul 2008	210.9			230.00						

DFE above MSL : 41.062m | Lat : 36 Deg 06 Min 17.85 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 20 Min 0.0573 Sec | Spud Time: 01.20 | Release Time:

Bit Record

Well: Longtom-4 P

Date In	Date Out	IADC	Bit#	Size (in)	Ser #	Mfr	Type	Jets	TFA	D.In (m)	D.Out (m)	Prog (m)	Hrs IADC	ROP (ft/hr)	SPP (psi)	Flow (gpm)	WOB (klb)	RPM	MW (ppg)	I	O1	D	L	B	G	O2	R
24 Jul 2008	26 Jul 2008		7	9.50	JY 2803	SMITH	M716PXC	7 x 16	1.374	2600.0	2841.0	241	14.5	16.62	3100	750	16.00	160	100.70	2	4	BT	A	X	I	RO	CP
27 Jul 2008	28 Jul 2008		9	9.50	JY2802	SMITH	M716PXC	7 x 16	1.374	2896.0	2987.0	91	9.5	9.58	3000	725	25.00	160	100.91	1	7	WT	S	X	I	RO	TD
26 Jul 2008	27 Jul 2008		8	8.50	7212164	BHI (Hughes C	BHC 406		0	2841.0	2896.0	55	4	13.75	1100	230	7.00	70	100.87	1	1	WT	A	X	I	NO	TD

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ADA_AU_FWR.xsl (parent/child V1.3)

Wellname : Longtom-4 P	Drilling Co. : Seadrill	Rig : West Triton

DFE above MSL : 41.062m	Lat : 36 Deg 06 Min 17.85 Sec	Spud Date : 21 Jun 2008	Release Date :
Water Depth : 55.968m	Long : 148 Deg 20 Min 0.0573 Sec	Spud Time: 01.20	Release Time:

'Copyright IDS 2007', 20071227 (KS&JG),
ADA_AU_FWR.xsl (parent/child V1.3)

DFE above MSL : 41.062m | Lat : 36 Deg 06 Min 17.85 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 20 Min 0.0573 Sec | Spud Time: 01.20 | Release Time:

BHA Record

#	Date-in	Length	Weight	Weight Blw/Jar	String Weight	Pick-Up Weight	Slack-Off Weight	Torque Max	Torque on Bottom	Torque off Bottom	Description
9	24 Jul 2008	215.0	41.00		221.00	247.00	208.00	20000	12000	3000	9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5" HWDP.
10	26 Jul 2008	306.3	54.00		235.00	260.00	208.00	10000	8000	4000	8.5" Coring bit, 7x Coring Tubes and 8x Stabilizers, Top sub, Float Sub, Circ Sub, 6x 6.5" DC's, 6x HWDP, Jar, 12x HWDP
11	27 Jul 2008	209.0	36.00		220.00	230.00	205.00	14000	10000	4000	9.5" PDC bit, bit sub, x/o, Ecoscope, Telescope, NMHWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5"HWDP

DFE above MSL : 41.100m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time: 01.20 | Release Time:

Bit Record

Well: Longtom-4 H

Date In	Date Out	IADC	Bit#	Size (in)	Ser #	Mfr	Type	Jets	TFA	D.In (m)	D.Out (m)	Prog (m)	Hrs IADC	ROP (ft/hr)	SPP (psi)	Flow (gpm)	WOB (klb)	RPM	MW (ppg)	I	O1	D	L	B	G	O2	R
01 Aug 2008	05 Aug 2008	M322	10	9.50	218795	REED	RSR616M-B3	6 x 16	1.178	2690.0	3577.0	887	78	11.37	3300	750	7000.00	150	100.56	2	6	BT	S	X	I	JD	DTF
06 Aug 2008	11 Aug 2008		11	9.50	216535	REED	RSX616M-A4	6 x 16	1.178	3577.0	4648.0	1071	62	17.27	4000	760	20.00	150	100.67	1	1	WT	N	X	I	NO	TD
20 Aug 2008	21 Aug 2008	115	12	6.00	PG 1753	Smith Bits	XR+ PS	3 x 20	0.92	4648.0	4648.0	0	14		2000	200	3.00	40	100.53	1	1	NO	A	E	I	NO	PR
21 Aug 2008	23 Aug 2008	115	13	6.00	PG 2034	Smith Bits	XR+	3 x 20	0.92	4648.0	4648.0	0	0		2000	200	3.00	40	100.64	1	1	NO	A	E	I	NO	TD

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ADA_AU_FWR.xsl (parent/child V1.3)

Wellname : Longtom-4 H	Drilling Co. : Seadrill	Rig : West Triton

DFE above MSL : 41.100m	Lat : 38 Deg 06 Min 17.707 Sec	Spud Date : 21 Jun 2008	Release Date :
Water Depth : 55.968m	Long : 148 Deg 19 Min 59.944 Sec	Spud Time: 01.20	Release Time:

'Copyright IDS 2007', 20071227 (KS&JG),
ADA_AU_FWR.xsl (parent/child V1.3)

DFE above MSL : 41.100m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 55.968m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time: 01.20 | Release Time:

BHA Record

#	Date-in	Length	Weight	Weight Blw/Jar	String Weight	Pick-Up Weight	Slack-Off Weight	Torque Max	Torque on Bottom	Torque off Bottom	Description
12	01 Aug 2008	215.0	37.00		217.00	270.00	206.00	16000	13000	9000	9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.
13	06 Aug 2008	215.0	37.00		211.00	280.00	178.00	19000	16000	10000	9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.
16	20 Aug 2008	2026.9			185.00	190.00	180.00	2000	1300	1200	
17	21 Aug 2008	2037.7			219.00	251.00	187.00	3000	2000	1000	

HALLIBURTON

Fluid Systems

BAROID FLUID SERVICES RECAP

NEXUS ENERGY PTY LTD
WEST TRITON
BASS STRAIT, VICTORIA

Longtom 4

Prepared by: E Edwards
T Waldhuter
B Auckram
J Munford
G Lange
K Georgiou

Date: June/July/August/September, 2008

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8. DAILY MUD REPORTS

1. WELL SUMMARY

1.1 Well Data

Well Name	:	Longtom-4
Operator	:	Nexus Energy Pty Ltd
Well Type	:	Horizontal / Production
Bottom Hole Temperature	:	
Maximum Inclination	:	94.02°
Location	:	VIC/P54, Bass Straight, Victoria
Contractor/Rig	:	West Triton
Start Date (Rig)	:	19/06/2008
Baroid On Location	:	19/06/2008
Drill Out Date	:	21/06/2008
RT to Mud-line	:	97 m
Total Depth	:	4648 m
Date TD Reached	:	10/08/2008
Total Days Actual Drilling	:	33
Date Released	:	18/09/2008
Total Days on Well	:	92
Drilling Cuttings Volume	:	2882 bbls

Formation Tops

This well was Drilled "Tight Hole" – no formation data available.

Formation	MDRT (m)	TVDRT (m)	Length (m MD)
Confidential			
Total Depth			

1.3 Casing Program

30	Conductor	@	128.86 m MDRT
16	Intermediate Casing	@	749 m MDRT
10.75"	Casing	@	2583m MDRT
7"	Production Liner	@	4648m MDRT

1.4 Personnel

Drilling Supervisors	:	Bill Openshaw	Stefan Schmidt	
	:	Sean DeFreitas	Rocco Rossouw	
Baroid Field Service Reps.	:	Eugene Edwards	Tim Waldhuter	Gerald Lange
		James Munford	Brian Auckram	Kosta Georgiou

2. COST SUMMARY

2.1 Drilling Fluid Costs

	Drilling Fluid	Hole Size	MD From	MD To	Cost USD $
1.	Seawater and Viscous Sweeps	36”	97m (36”)	132m (36”)	22,743.44
2.	Pad Mud / Displacement Mud	x 22”	132m (22”)	755 m (22”)	
3.	Accolade	13.5”	755 m	2600 m	1,361,009.26
4.	Accolade	9.5” Pilot	2600m	2987m	288,264.86
5.	Accolade	9.5” Lateral	2600m	4648m	298,559.12
6	Completion	N/A	97 m	4648m	186,553.77
Mud Materials Used For Drilling				**USD $**	**1,972,832.21**
Mud Materials Used For Cementing				**USD $**	**14,198.18**
Mud Materials Used For Completion CaCl2 Brine				**USD $**	**186,553.77**
Other Materials Used (Cleaning Pits & Rig Cleaning)				**USD $**	**32,051.91**
Products Lost / Damaged				**USD $**	**339.72**
Solids Control / Waste Management Cost				**USD $**	**0**
Total Materials				**Total USD $**	**2,205,975.79**

2.2 Engineering Costs

Service Representatives	From (date)	To (date)	Days
James Munford	19/06/08	25/06/08	7
Eugene Edwards	19/06/08	02/07/08	14
Tim Waldhuter	26/06/08	09/07/08	14
Brian Auckram	03/07/08	18/07/08	16
James Munford	10/07/08	23/07/08	14
James Munford	05/08/08	12/08/08	8
Eugene Edwards	19/07/08	30/7/08	12
Gerald Lange	14/08/08	27/08/08	14
Tim Waldhuter	24/07/08	04/08/08	12
Brian Auckram	31/07/08	13/08/08	14
Tim Waldhuter	13/08/08	3/09/08	22
Brian Auckram	28/08/08	10/09/08	14
Kosta Georgiou	4/09/08	17/09/08	14
Gerald Lange	11/09/08	18/09/08	8
Tim Waldhuter	18/09/08	18/09/08	1
Total Days:			184
Service Cost	**@ USD $ 1250**	**USD $**	**230,000.00**
Total Cost of Materials & Engineering:		**USD $**	**2,435,975.79**

3. PERFORMANCE SUMMARY

3.1 Comments

The West Triton was moved from Garfish-1 to Longtom-4 location on the 19th June 2008.

3.2 Performance Indicators

Interval 1 and 2. (97m–755 m) – 36"x 22"	**Program**	**Actual**	**Achieved**
			(+/- 10 %)
• Drilled, m	663	658	Yes
• Volume Built, bbl	5667	4679	Yes
• Dilution Rate, bbl/m	NA	NA	NA
• Consumption Rate, bbl/m	8.54	7.11	Yes
• Mud Cost / bbl, US$	5.97	4.86	Yes
• Mud Cost / m, US$	51.10	34.56	Yes
• Interval Mud Cost, US$	33,882.54	22,743.44	Yes
Interval 3. (755m – 2,600m) – 13.5 " Interval	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	1725	1845	Yes
• Volume Built, bbl	3238	5317	No
• Dilution Rate, bbl/m	0.7	2.88	No
• Consumption Rate, bbl/m	1.91	.83	Yes
• Mud Cost / bbl, US$	429.58	255.97	Yes
• Mud Cost / m, US$	806.37	737.67	Yes
• Interval Mud Cost, US$	1,390,990.27	1,361,009.26	Yes
•			
Interval 4. (2,600m - 2987) – 9.5 "Pilot Interval	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	243	387	No
• Volume Built, bbl	483	539	No
• Dilution Rate, bbl/m	0.6	1.39	No
• Consumption Rate, bbl/m	1.70	.43	Yes
• Mud Cost / bbl, US$	388.32	534.81	No
• Mud Cost / m, US$	771.84	744.87	Yes
• Interval Mud Cost, US$	187,559.84	288,264.86	No
Interval 5. (2,600m - 4648) – 9.5 " Horizontal	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	3419	2048	No
• Volume Built, bbl	2060	1047	Yes
• Dilution Rate, bbl/m	0.6	0.5	Yes
• Consumption Rate, bbl/m	0.59	1.19	No
• Mud Cost / bbl, US$	703.56	285.15	Yes
• Mud Cost / m, US$	423.91	145.78	Yes
• Interval Mud Cost, US$	1,449,352.13	298,559.12	No
Interval 6. Completion	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	N/A	N/A	N/A
• Volume Built, bbl	-	4936	N/A
• Dilution Rate, bbl/m	N/A	N/A	N/A
• Consumption Rate, bbl/m	N/A	N/A	N/A
• Mud Cost / bbl, US$	N/A	N/A	N/A
• Mud Cost / m, US$	N/A	N/A	N/A
• Interval Mud Cost, US$	219,335.16	186,553.77	Yes

3.3 Explanation of Non-Conformance

Interval 1 and 2: 36" and 22"

The volume of Pre-Hydrated Bentonite (PHB) mud built for sweeps and the cost was lower then programmed.
This was due to 860 bbls of old KCL mud from Garfish 1, being used as displacement fluid.
The depth of hole drilled was 35m shallower.
The PHB was mixed at 30ppb and cut back with 30-50% sea water and 0.2 ppb lime to maintain programmed viscosity.

Interval 3: 13.5"
Programmed values were based on:
"Mud cost per barrel is calculated on the total volume required for each interval, and considers both the cost of whole mud and maintenance chemicals.
*Mud cost per metre is based on the **net** interval cost after considering the full value of salvaged whole mud to be used in the next interval.*
**Net interval mud cost is calculated using an indicative value only for return mud credit. For details refer to terms & conditions."*
(From Mud Program)

Interval 4: 9.5" Pilot
The interval cost was above programmed cost; however this was largely due to the use of 287 bbls of base oil. This was added to the premix pits to lift the oil water ratio above 70:30, so that when added to the active it would improve the oil water ratio, form 65:35 to specification.

The volume of premix added to the active was only approximately 250 bbls, leaving the remaining premix, 1341bbls for the horizontal section.

Interval 5: 9.5" Lateral
Comparisons of actual costs to programmed costs are not relevant as the drilling program varied from the planned drilling program.

Interval 6: Completion
The completion string had to be pulled and re-run. 6,000 bbls of 11.0 ppg $CaCl_2$ Brine were requested, 6,270 bbls of 11.0 ppg $CaCl_2$ Brine were mixed.

4. INTERVAL - 1

4.1 SUMMARY

36" Hole From 97m To 132 m In 1 Day

Drilling Fluid Seawater and Viscous Sweeps, Spud Mud
Formations Gippsland.

Longtom 4 was spudded at 18:30 on 21/06/2008.

The 36" interval was drilled riser-less, using seawater and unweighted hi-vis flocculated spud mud sweeps from 97 m to 132 m. The spud mud used for sweeps was built from pre-hydrated bentonite at 30 ppb, cut back with seawater once hydrated and flocculated by the addition of lime, prior to pumping. 75 bbl sweeps were pumped at each single to clean the hole.

After drilling to 132m, a 200bbl flocculated PHB sweep was pumped to clean the hole and the open hole was displaced with 280 bbls of old KCL /Polymer mud from the previous well.

The 30" conductor was run to 128.86m. It was then cemented as per program.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, sg	ALAP	ALAP	8.5	8.8	Yes
6 rpm, lb/100 ft²			55	60	
YP, lbs/100ft^2			70	70	
Viscosity, sec/qt	100	>100	155	180	Yes
pH	8	8.5	8.5	8.5	Yes

Maintenance

- The bentonite used was first prehydrated in drill water at a concentration of 30-35 ppb. This was then cut back to 20 ppb using seawater. Lime was added prior to use to enhance viscosity. Caustic soda was used to obtain required alkalinity.

- Sea water was used from Pit # 7 for drilling. The hi-vis sweeps were contained in pits 3, 4, and 8. The PHB was cut back with sea water in pit 5.

INTERVAL - 2

4.2 Summary

22" Hole From 132 m To 755 m In 3 Days

Drilling Fluid Flocculated Seawater/Bentonite and Guar gum sweeps
Formations Gippsland Limestone

The 22" section was drilled using flocculated seawater / pre-hydrated bentonite fluid. Pre-hydrated Bentonite at 30 ppb was prepared and pre-hydrated. The PHB was then cut back with seawater to approximately 15-20ppb. To achieve required viscosity Lime was added prior to pumping.

The sweep regime used was 1 x 50bbl sweep per single, with the last sweep timed to be around the BHA during the connection. The first sweep each stand was either Flocculated PHB or Guar Gum. The remaining sweeps pumped were PHB.

At TD 755m at 150 bbls PHB sweep was pumped and the hole circulated clean with seawater, followed by 400 bbls PHB. Approximately 700 bbl of 9.6 ppg inhibited, 4-5%KCl / PHB mud, was spotted on bottom, prior to pulling out of the hole to run casing. This was made with 580 bbls old KCL mud and 120 bbls PHB.

All mud returns to sea floor.

The 16" casing was run and cemented with no problems.

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Properties	**Programmed**		**Actual**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	ALAP	<9.5	8.5	8.8	Yes
Viscosity, sec/qt	80	>80	155	180	Yes
pH	8	8.5	8.5	8.5	Yes

Explanation of Non-Conformance

- The Funnel Viscosity quoted includes measurement for the unflocculated PHG.

Maintenance

- The fluid for this interval consisted of prehydrated gel built at 30 ppb and blended with seawater once hydrated at approximately 2:1 or less, depending on the funnel viscosity at the time of mixing dilution volume.
- Guar gum was mixed at 3 ppb and pumped at the start of each stand.

INTERVAL - 3

4.3 SUMMARY

13.5 ” Hole From 755m To 2600m In 16 Days

Drilling Fluid Accolade SBM
Formations Lakes Entrance, Latrobe

1692 bbls of Accolade was received and treatments began in order to increase the density to the required 12.0ppg and improve the properties of the SBM, prior to displacement.

A 14 ¾” BHA was run in the hole to 736m, the shoe track and cement was drilled out using sea water and left over HI Vis sweeps, from the previous interval.

Sweeps were pumped as required. 3m of new hole was drilled and a LOT performed to 13.7ppg EMW, using sea water.

The Accolade received was treated with Emulsifiers; 10ppb of sized Calcium Carbonate was added. The Accolade mud was weighed up to 12.0ppg, with Barite.

A 13.5" BHA was made up and RIH prior to displacement with SBM. A 50 bbl Hi Vis pill was mixed using the weighted SBM mud and RHEOMOD-L and pumped ahead of the SBM. A total of 50 bbls interface consisting of oily water was diverted into a slops pit.

A 13.5” BHA was then made up for drilling ahead from 758m to 2600 m.

The shakers were initially dressed with 89 mesh screens for the displacement to ensure zero losses over the screens. Once the mud was circulated even, the screens were upgraded to 255/280 mesh. A continual decrease in mud weight occurred and Barite was observed being stripped out of the mud on the shakers. The screens were then replaced with coarser 145/215/255 mesh screens and the mud weight remained steady at 12.0ppg.

There were some minor losses of 20 bbl an hour, shortly after entering the Latrobe formation at approximately 1300m. These were treated and cured with 0.5 ppb Omyacarb 5, 0.5ppb Circal 60/16 and 0.5 ppb **STEEL SEAL**. Intermittent seepage losses of 6-10bbl/hr continued to be a problem despite the continuous addition of sized Calcium Carbonate as a precautionary measure.

Drilling continued to 2346m with surveys where it was necessary to stop drilling due to a leak between standpipe manifold and mud hose. This was repaired and drilling continued to 2405m where the leak reoccurred. While attempting to pull out for repairs there was 25k over-pull and swabbing. A side entry sub was rigged up to circulate while the leak on the standpipe was repaired.

When the repairs were complete drilling resumed to 2434m and this time it was necessary to circulate through the cement hose and repair stand pipe manifold leak.

Drilling resumed without further problems to 2600m TD and the hole was circulated clean.

On pulling out of hole a tight spot was found at 2215m giving 20k over-pull and a second tight spot at 1741m was worked as were tight spots at 1888m, 1781m - 1752m and 1752m - 1727m. The hole was back-reamed from 1727m to 1604m and then tripped normally from 1604m to 1574m. The string was then run in again from 1547m to 1781m and the hole found to be in good condition.

A wiper trip was made to circulate the hole clean for wire-line logging and the hole was found to be in good condition with no evidence of Barite Sag.

After rigging up for wire-line logging the rig suffered several power failures which caused delays.

Wire-line logging experienced a number of problems including the tool not being able to reach bottom and the tool becoming stuck for a short while on two occasions. A wiper trip was run after the second failed logging run and the string ran straight to bottom, with the hole reportedly in good condition.

Following the logging the 10 3/4“casing was run to 2498m and circulated.
The job did not go well with a pressure spike of 2700psi observed shortly after the Spacer was pumped. After an assessment the ball was dropped in an attempt to launch the bottom plug, however no pressure increase was observed. The casing was then circulated at 71spm, until the plug was bumped.

A 9 1/2" BHA was made up to drill out the plugs and RIH. The plugs were found at 2566m and drilled out, as was the float. The shoe track was cleaned out and the string run in to TD at 2600m where the hole was circulated clean and flow checked. The drill string was then POOH.
Cementing equipment was made up and RIH with a 2 7/8" tail pipe on 5 1/2" DP.

An RTTS packer was made up, RIH and set at 140m and bottoms up was circulated. The RTTS was unseated and the cementing equipment was picked up. The cement was pumped and displaced with SBM then the hole was monitored whilst waiting on cement.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	10	15	Partial
HPHT		6	2	4	Yes
NAP / Water ratio	70/30	75/25	65/35	75/25	Yes
ES	>300		380	550	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		<8	3.3	9	No

Explanation of Non-Conformance

- The initial OW ratio of the SBM as checked on the rig was 65/35. This was treated gradually increased by additions of enriched base oil premixes, while drilling. The SBM was supplied by **BAROID** at a 74/26 Oil/Water ratio; it appears that some contamination may have occurred during transit and during initial displacement.
- The initial 6 rpm was 4. This was increased to 10 prior to displacement and then 12-16, with the addition of **RHEOMOD-L** directly to the active, once drilling had started.

BARRY BEACH LIQUID MUD PLANT
ACCOLADE Shipping Advice (Shipment)

Date: 13-Jun-08 **Shipping Advice No:** LMP - AS/545

ST No:

DT No: N/A

Ship from LMP Tanks: ST 4,5 & 6 **To Supply Boat Tank Nos:**

Ship to LMP Tanks: **From Supply Boat Tank Nos:**

Rig: West Triton **Well Name:** Nexus Longtom 4 **Supply Boat:** Via Road

Tank	Contents	Initial Tank Readings		Final Tank Readings		Volume
		cm (from top)	Volume, bbl	cm (from top)	Volume, bbl	Shipped
Mix	Accolade mud					
Accolade Base	Accolade Base					
ST1	Accolade mud					
ST2	Accolade mud					
ST3	Accolade mud					
ST4	Accolade mud	135.0	631.2	1240	6.4	624.8
ST5	Accolade mud	129.0	634.5	1240	6.4	628.1
ST6	Accolade mud	136.0	630.6	1100	85.5	545.1
Brine						
Totals						**1798**

Start Transfer: **End Transfer:** **Transfer Time:**

Completed by: Andy Macmeikan
Baroid LMP Representative

Verified by:
Esso BBMT Representative

Mud Properties

Transfer Sample			Before	During
Batch Reference			Nexus Blend	
Sample Time				
Density at 20 deg C		ppg	9	
Rheology at 120 deg F				
600 / 300		lb/100 sqft	42/24	
200 / 100		lb/100 sqft	19/12	
6 / 3		lb/100 sqft	4/3	
PV / YP			16/4	
Gels; 10 sec / 10 min		lb/100 sqft	5/6	
HTHP Filtrate at 250 deg F		ml/30 min	3.2	
HTHP Filter Cake		32nd inch	2	
Electrical Stability at 49 deg C		volts	224	
Retort-	Water	%	24	
	Base	%	68	
	Solids	%	8	
Base / Water Ratio			74/26	
Water Phase Salinity		ppm CaCl2	255668	
Low Gravity Solids		%	2.76	

One litre of each sample will be retained by Baroid.

Tested by: Andy Macmeikan & Hayden Butler

Note : Sent in 12 truck loads to Pacific Terminals

Maintenance

- The mud weight was increased from 9.1ppg to the required 12ppg, prior to displacing the well to SBM.
- Sized calcium carbonate, at 10ppb was added prior to weighing up.
- Seepage and spurt losses at +/-1300m were treated with a total of 2.5ppb steel seal, 1.5 ppb Omyacarb 5 and 0.9 ppb Circal 60/16.
- Initial 6rpm was very low. **RHEOMOD-L** was added directly to the active to raise the 6 rpm from 4 to 10 for the displacement. This was intentionally below programmed and once the Accolade had been circulated as drilling commenced, was increased to 12-16.
- The initial mud check on the Oil/Water ratio was 65/35. 2 ppb LE **SUPERMUL** was added to keep the water emulsified. The Oil/Water ratio was brought into programmed specification with base oil enriched premixes.
- Initial WPS was 195,000. The WPS was maintained above 200,000 by adding Calcium Chloride directly to the active, as required. Also by using uncut 34% by weight brine in the premixes with O/W ratios of 75/25 or greater.
- The wire line logs became stuck on two occasions during one run and were unable to run to bottom on another. The wiper trip showed that the hole was in good condition.

Solids Control Equipment

- The 4 VSM 300 shakers were dressed with 89 mesh screens, for the initial displacement of un-sheared Accolade SBM. Displacement circulation rate was approximately 500 gpm. The screens were replaced with 255 mesh screens as soon as possible.
- The screens were fined up to a combination of 215's and 255'. A trial was performed with 280 mesh screens; however the shakers were stripping out the barite causing the mud weight to fall from 12 ppg to 11.85 ppg. The 280's were removed.
- With slower drilling and subsequently less cuttings, the flow was directed over 3 shakers dressed with 215's and 255 mesh screens. The 4th shaker was dressed with 89's, then shut down and kept as a back up shaker in the case of an emergency.
- The scalper screens installed on the shakers were 20 mesh screens and were unchanged for the entire well.
- No centrifuges were run as a result the Drilled Solids which passed the shakers had to be controlled with dilution.

INTERVAL - 4

4.4 SUMMARY

9.5 ” Hole From 2600m To 2897m In 4 Days

Drilling Fluid Accolade SBM
Formations Latrobe- Kipper shale, Admiral Sands

An RTTS packer was set while installing the sub sea tree and nippling up the BOP’s. Upon completion of the nippling up operation the packer was retrieved and the riser was displaced back to SBM. The water from the displacement was dumped overboard until the oil/water interface was observed at the gumbo box and the returns lined up over the shakers. The shakers were dressed with 89 mesh screens to prevent any losses over the screens during the displacement.

The initial mud weights when circulation was resumed during drilling out cement were from 11.4ppg to 13.2ppg. This was indicative of Barite sag. There had been no circulation for 10 days during the installation of the sub-sea tree and nippling up BOP’s. Un-weighted premix at 8.7ppg was bled into the active and Barite was also added as necessary to achieve an even mud weight of 11.9+ ppg prior to conducting the FIT.

The rheology was maintained by the direct addition of **TAU-MOD** to the active system while drilling. The shaker screens were changed during the FIT to 280mesh on three shakers, as only three shakers were required due to the lower flow rate while drilling the 9 ½” hole.

The centrifuges were started when drilling resumed after the FIT. The solids discharge pipes became blocked due to insufficient water being used for flushing while operational. This caused the centrifuges to be off-line for 5 hours while unblocking and flushing the discharge lines. The centrifuges were not run again up to the coring point due to the extended down time.

Drilling progressed to Core Point at 2841 meters; a core was cut from 2841 meters to 2895 meters. The shaker screens were inspected while RIH with the 9 ½” coring assembly and any damaged screens were replaced prior to coring. 4x280 mesh new screens were used. The centrifuges were started while coring in order to lower the LGS content. The centrifuges again became blocked after only 20 minutes of operation, due to no water being utilized in flushing the solids discharge chute. The proper running of the centrifuges was discussed and measures taken to ensure the centrifuges would be available as needed.

RHEOMOD-L was added to the active in 0.1 ppb increments while coring to maintain the low end rheology. **LE SUPERMUL** was also added to the active at 1ppb, to ensure emulsion stability. These chemicals were added very slowly due to the very low pump rates while cutting the 54m core to 2895m.

The remaining pilot hole was drilled to 2987m, then logged and cemented.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	10	15	Partial
HPHT		6	2	4	Yes
NAP / Water ratio	70/30	75/25	65/35	75/25	Yes
ES	300		380	550	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		8	5.3	13.6	No

Explanation of Non-Conformance

- The initial mud check revealed an OW ratio of the SBM to be 65/35. This was treated by additions of enriched base oil premixes, while drilling to 70/30.
- The initial 6 rpm dropped from 13 to 10 once the mud heated up and sheared. This was increased to 14 prior to POOH to log, with the addition of **TAU-MOD** and **RHEOMOD-L** directly to the active.
- The starting LGS was 13.6% because the centrifuges were not run as the centrifuge hand was not onboard for the 13.5" section. The centrifuge was run in barite recovery mode for the 9.5" and coring sections, lowering the LGS to below 8%

Maintenance

- The mud weight was maintained by the addition of 11.9ppg and 11ppg premixes. The centrifuges were run in barite recovery mode and 280 fine mesh screens were installed on the shakers.
- Initial 6rpm reading dropped from 13 to 10, **TAU-MOD** and **RHEOMOD-L** were added directly to the active mud to raise the 6 rpm reading to 14.
- The initial Oil Water ratio was 65/35. 3.3 ppb LE **SUPERMUL** was added to keep the water emulsified. The ratio was brought into programmed specification with base oil enriched premixes.

Solids Control Equipment

- The 4 x VSM 300 shakers were dressed with 89 mesh screens, for the initial circulation after the well had been static for 10 days, while waiting on weather and installing the sub sea tree and BOP's. Displacement circulation rate was approximately 500gpm which increased to 700gpm. Three shakers were dressed with 280 mesh screens as soon as possible, while the fourth was dressed with 2 x 255 and 2 x 280 mesh screens. This fourth shaker was not run except for initial circulations after tripping in the hole with new BHA. It was shut down once circulation had been established and the 3 x 280 mesh dressed shakers were used.
- With slower circulating while coring, only 2 shakers were utilized.
- The scalper screens installed on the shakers were 20mesh and were unchanged for the entire well.
- The centrifuge was run in the barite recovery mode to reduce the LGS from >13% to <8%.
- The degasser was run while coring.

INTERVAL - 5

4.5 SUMMARY

9.5 ” Hole From 2600m To 4648m In 9 Days

Drilling Fluid Accolade SBM
Formations Confidential as per Nexus Geologist.

The 9 1/2" BHA was made up and ran in hole to 1452m. Wait on weather.
The mud was treated with **LE SUPERMUL**, **TAU-MOD** and **ADAPTA** as required to maintain desired mud properties.

The kick off plug was tagged at 2690m, the cement was drilled from 2690m to 2696m and reamed several times to cut the ledge in order to sidetrack.
Time drilling proceeded as per the directional driller’s instructions, from 2696m to 2719m.
TAU-MOD was added to the active to maintain the rheology.
The shaker screens were checked regularly for damage and replaced as necessary. The mud weight was maintained at 12.0ppg.

Drilling continued from 2719m to 3008m as per directional driller’s instructions.

Seepage losses of up to 10bbl/hr were observed in the “Admiral 50” sand and the addition of sized Calcium Carbonate at a rate of 100lb/5 min while drilling (added directly to the active) gave good results, in most cases stopping losses completely.

Weighted premix was added directly to the active system and the centrifuges were run in Barite recovery mode as required to maintain mud weight and reduce LGS.

Drilling continued as per the directional drillers instructions and recovered mud (Slops) was added back into the active mud to restore Oil Water Ratio to 70/30 (The ratio had changed to 75/25 due to evaporation and addition of Base Oil).

Drilling continued to 3577m where we circulated bottoms up and back reamed from 3577m to 3525m and then POOH as per K&M instructions

While running back in the tight spots were worked, washed and reamed from 3136m to 3289m.

When drilling resumed seepage losses of up to 14bbl/hr were observed in the Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Additional premixes were built using ‘slops’ (recovered mud) to reduce OWR in the active system.

Seepage losses of up to 15bbl/hr in the Admiral 100 sand from 3,600 meters MD were noted, 1ppb sized Calcium Carbonate was added to the active mud to minimize losses with good results. Continued drilling in the horizontal section saw seepage losses of up to 15bbl/hr, again in the Admiral 100 sand, 1ppb sized Calcium Carbonate was added to the active mud to minimize losses, again with good results.

Drilling continued to 4558m as per Directional Drillers instructions where the wash-pipe began leaking, the pipe was pulled back 5 stands for repairs and then drilled on to 4648m as per DD instructions.

At TD, 4648 meters, bottoms up was circulated 5 times and the hole reamed from 4648m to 4354m.
A total of 270bbl of reserve mud was mixed at TD to fill hole as contingency.

The 7" liner was run to 2047m where circulation was broken. The liner was run in on 5 1/2" drill pipe to 4648m. Equipment was rigged up for the cement job; a 60bbl Base Oil spacer and 60bbl tuned spacer were pumped ahead.
At this point an attempt to pump cement resulted in a pressure of 2500psi. The pressure was bled down to wait on instructions.

It was possible to circulate at 32spm/3500psi but pumping was stopped due to a partial pack off. It was possible to circulate to get spacer returns at 5000stks which indicated circulation from the top of liner. The cementing equipment was rigged down and the string pulled out of hole leaving the liner in place.

An RTTS was RIH and set. An attempt to circulate pressured up to 5000psi with no returns so the packer was unseated and POOH.

A 3 3/8" TCP gun assembly was made up and RIH with the intention of perforating to cement.

While running in the TCP assembly and picking up drill pipe at 2241m a back-flow was observed so the Top Drive was made up and circulated.

The RTTS packer was set 4560m and the TCP guns were fired with the cement unit. Returns were established by pumping with the cement unit and the liner/open hole volume was circulated with mud pumps at 5bpm/1500psi. The mud was circulated and conditioned, no losses were observed.

The string and liner was POOH from 4560m to 4189m. The RTTS was set and the toe of the liner was cemented.

The Schlumberger wire line unit was made up for the next TCP run on wire-line to 2675m.

Schlumberger was in hole to 2649m. The hole was circulated and the cement retainer set. The stinger was set and confirmed clear, then stung back in and the cement pumped as per program.

The cement was displaced with SBM, a slug pumped and then the string pulled out of the hole whilst laying out singles. An injectivity test was conducted on the cement plug at top of liner and a scraper run was carried out.

A 6" bit, motor and BHA were made up and RIH with 3 1/2" drill pipe to drill out the cement retainer. After tripping out the bit the cement retainer was worked and pushed down to 4490m. After circulating bottoms up the displacement program was carried out and the well displaced to 11.0ppg Calcium Chloride brine.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	12	15	Yes
HPHT		6	3	5.6	Yes
NAP / Water ratio	70/30	75/25	70/30	75/25	Yes
ES	300		450	750	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		8	5.3	9.5	No

Explanation of Non-Conformance

- The LGS was 9.5% due to having added and maintaining a concentration of Calcium Carbonate to lower the seepage losses.

Maintenance

- The mud weight was maintained by the addition of 11.9ppg and 11ppg premixes, as well as the centrifuge being run in barite recovery mode and 280 fine mesh screens.
- The 6rpm was maintained from 12 to 14 with additions of **TAU-MOD** and **RHEOMOD-L** and added directly to the active.
- Initial 6rpm was allowed to drop from dropped from 16 to 12 on the instructions of the K&M consultant. **TAU-MOD** and **RHEOMOD-L** was added directly to the active to maintain rheology.
- **LE SUPERMUL** was added to keep the brine phase emulsified.
- When seepage losses were observed – Circal 60/16 and Omyacarb 5 were added directly to the active system at a rate of 5ppb each.

Solids Control Equipment

- The 4 x VSM 300 shakers were dressed with 280 mesh screens.
- The scalper screens installed on the shakers were 20mesh and were unchanged for the entire well.
- The centrifuge was run in the barite recovery mode to reduce the LGS.

4.5 EVALUATION

Comments

Problems, Causes, Remedial Action Taken or Recommended

Solids Control and Mud Mixing Equipment
1) Problem Unable to suck drums when mixing SBM
Cause Hose too small
Action Replaced 1 inch hose with 2 inch hose

Solids Control and Mud Mixing Equipment
2) Problem Barite surge tank automated mixing system overheated and stopped
Cause Build up of Barite in bottom of surge tank
Action Allowed to cool and functioned equipment on /off

Solids Control and Mud Mixing Equipment
3) Problem Falling mud weight
Cause Fine shaker screens stripping out the barite
Action Removed 280's and installed 215's and 255's

Solids Control and Mud Mixing Equipment
4) Problem Centrifuge discharge chute blocked up with cuttings
Cause Operator error, no water run through chute
Action Run water through the chute at all times while in use

Mud Properties
5) Problem Low initial oil water ratio
Cause Possible water contamination in transit, possible separation of new invert
Action Send mud out with +75/-25 OW ratio. This keeps ratio in specification if we pick up water during transport and/or displacement.

4.5 RECOMMENDATIONS FOR IMPROVEMENT

Drilling Fluid

- The initial properties of the SBM were as per the specification mud check. The required density for drilling out was 12.0ppg; as such ~190ppb of Barite was required to be added to achieve the desired density. Extra additions of **LE SUPERMUL** were required to maintain electrical stability. In future it would be a better practice to add the anticipated extra emulsifier and wetting agent, **LE SUPERMUL** @ 3 – 4ppb to the base blend at the SBM mud plant; this would potentially save rig time have the SBM in excellent condition much sooner.
- The original O/W ratio as checked on the rig was 65/35. This allows for any water contamination from transportation on the boat, transferring through drilling equipment and lines, which retained water-based fluid and also allows for some interface contamination upon the initial displacement. Again, it is recommended that an additional 3 – 4ppb of **LE SUPERMUL** be incorporated into the initial SBM blend that this problem may be eliminated. Attention should also be paid to possible sources of water contamination.
- The 6rpm was 4; the new SBM was showing signs of inadequate emulsification, as evidenced by the O/W ratio of the first 800bbls off the boat being 65/35 and the second 800bbls at 68/32. Recommended again, is to increase the initial concentration of **LE SUPERMUL** by 3 – 4ppb and to add an additional 2ppb of **TAU-MOD** as well.

Solids Control and Mud Mixing Equipment

- The coarsest scalper screens (10 or 20 mesh) were run. This ensured the mud passed through them straight away. This allowed the mud to traverse along the entire length of the bottom screens. The shakers were initially dressed with 89 mesh screens prior to any displacement taking place. This was to prevent any overflow of the screens during the oil water interface. When drilling the screens were fined up to 280 mesh to provide the best possible primary solids control. The screens were checked regularly for damage and any damaged screens were immediately replaced. The longevity of the finer screens was observed to be rather poor, with the 280 mesh screens generally lasting between 6-8 hours before becoming damaged and requiring replacement.

- The shakers performed well during the SBM intervals. For the 9.5 Pilot and coring intervals, generally only 2 to 3 shakers were operational with the 4th on standby. Shakers were dressed with 280 mesh screens

COMPLETION

4.6 SUMMARY

7" Csg. From 2583m To 4648m In 31 Days

Completion Fluid 11.0 ppg CaCl2 Brine, 11.0 ppg Inhibited CaCl2 Brine
Formations N/A

The TCP guns were made up and RIH on 5 1/2" DP to 4414m, where a correlation log was run. The guns were fired, the well initially took 44bbl of brine with losses settling at 18bbl/hr. Bottoms up was circulated through the choke and the well flow checked. At this point losses were 3bbl/hr. The continual reduction in "drink rate" to the formation was in part attributed to the use of **LIQUI-VIS EP**, an HEC polymer dispersed in water. The TCP guns were pulled out of the hole for a scraper run.

The well was displaced to filtered inhibited 11ppg brine and losses at 1.7bbl/hr were recorded.

The scraper and cleanout runs were completed and the completion assembly was run.

The flow head was installed and pressure tested.

The Tubing was displaced to diesel but at this point the attempt to pressure test the packer failed. There was apparent communication between annulus and tubing. So the annulus was bleed off and packer setting sequence repeated. An attempt to test top packer failed again.

An attempt to reverse circulate diesel out of tubing through Expro choke failed and it was bullheaded from the tubing to formation by pumping inhibited brine.
The well was monitored and a forward plan developed with town.

The well was displaced to brine to kill well and the test equipment rigged down. The decision was made to pull the completion string.

Make up Schlumberger wire line and RIH with chemical cutter. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger and landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well.

Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke. Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked well, down hole losses were 9 bbls per hour. Pumped HEC pill and displaced well with 230 bbls of brine, observed 20 bbl loss. Flow checked well and observed 6 bbl per hour loss. Pulled tubing hanger to the surface, removed control lines and laid out hanger. Laid out completion string.

Made up new completion string and RIH 7" tubing and tagged PBR with seal assembly to confirm space out then POOH to pick up SSSV.

The SSSV was made up and tested. Continued to RIH with 7" tubing.
Displaced the well to 11.0 ppg filtered inhibited CaCl2 brine.

Flowed and test well.

GRAPHS

HALLIBURTON

Fluid Systems

NEXUS ENERGY

Longtom - 4

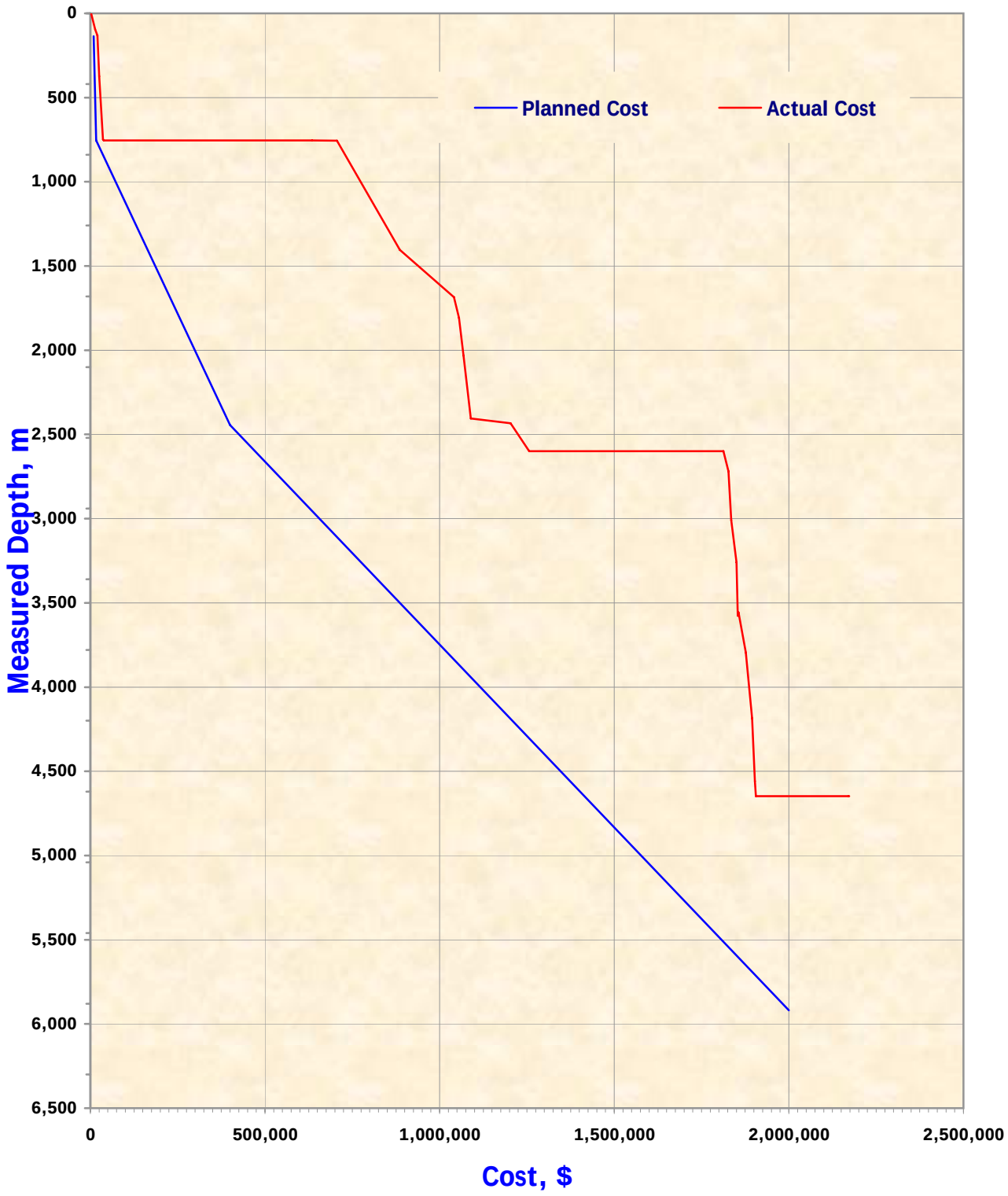
38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long

West Triton

Prepared by:
Wray MacKenzie
Senior Technical Professional - Fluid Solutions

October 9, 2008

Baroid Fluid Services


Cost vs Depth
Planned Cost
Actual Cost
Measured Depth, m
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500
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1,500
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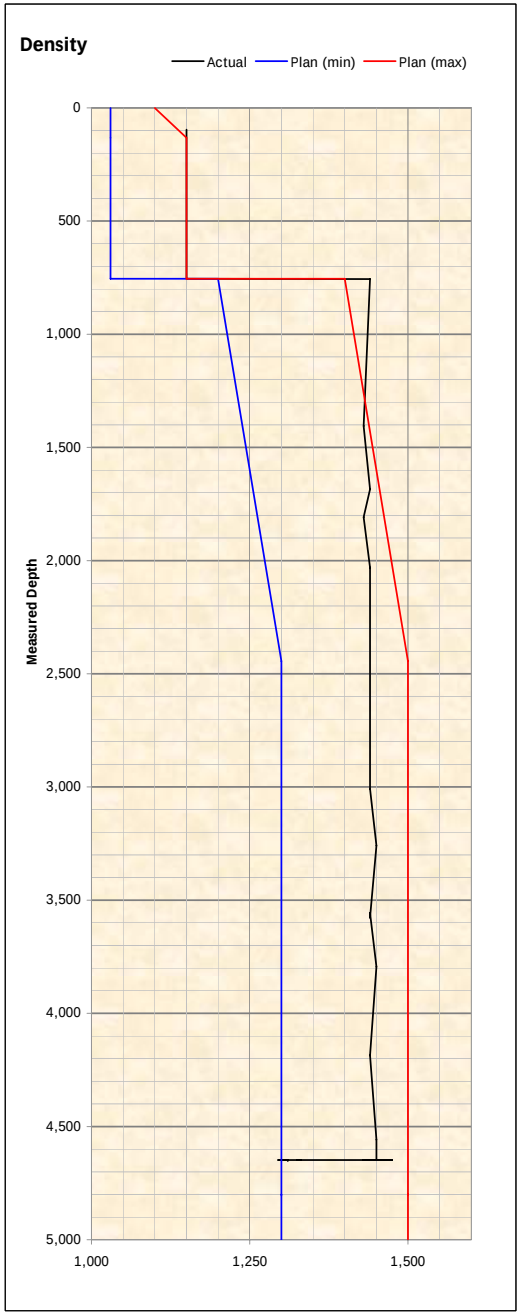
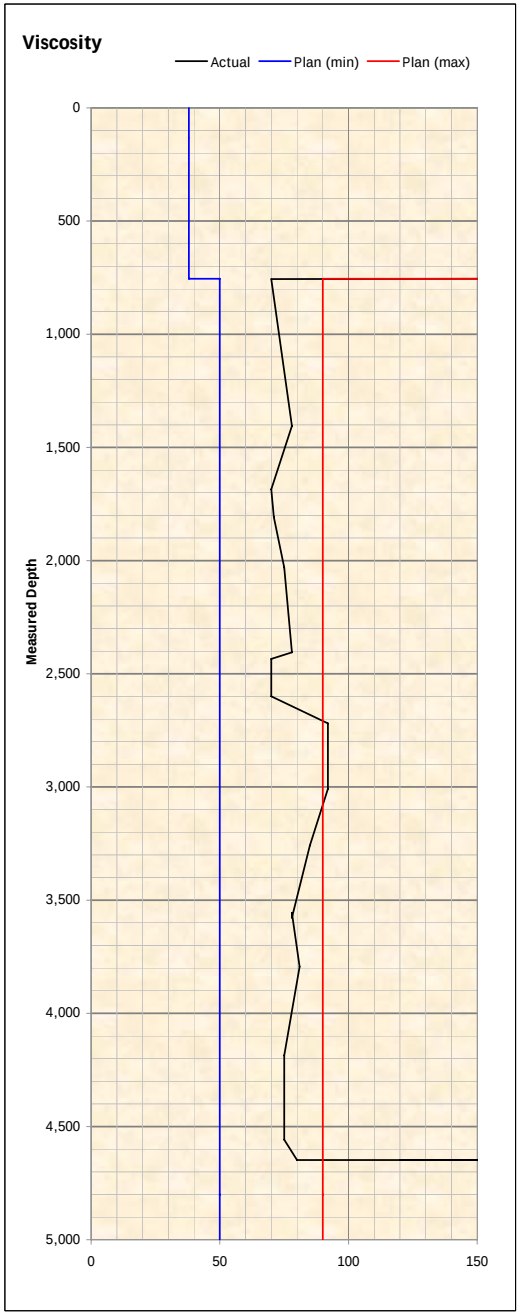
Cost, $

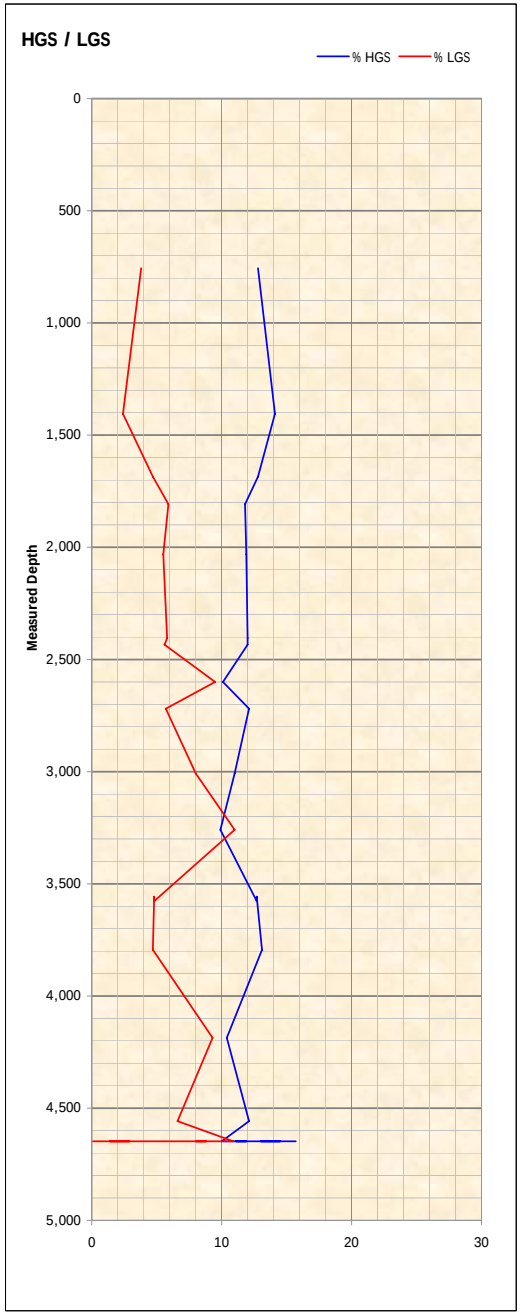
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

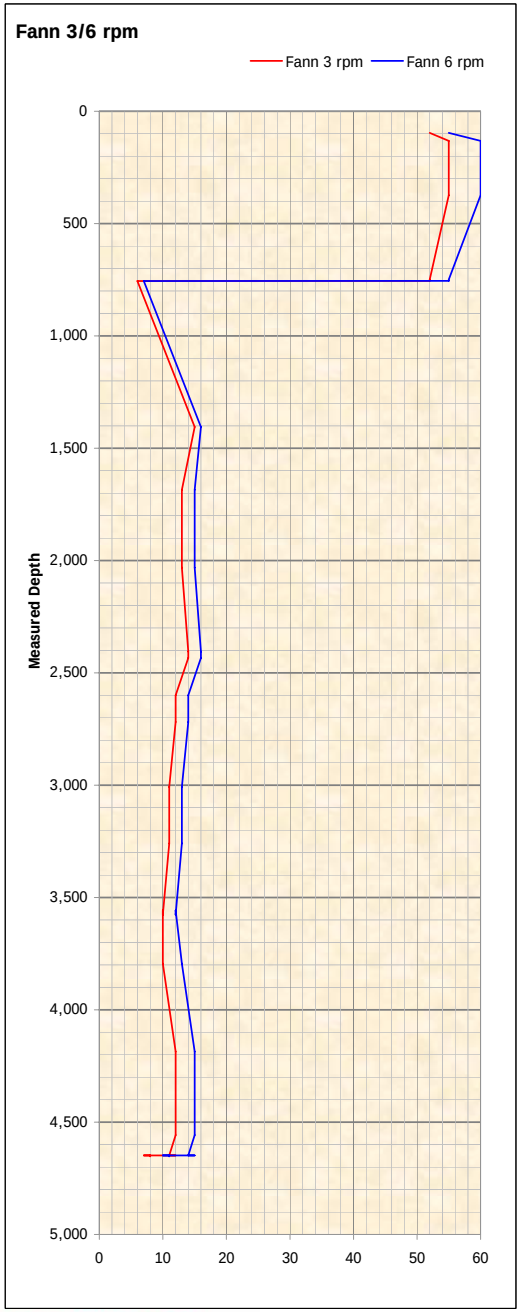
Physical Properties

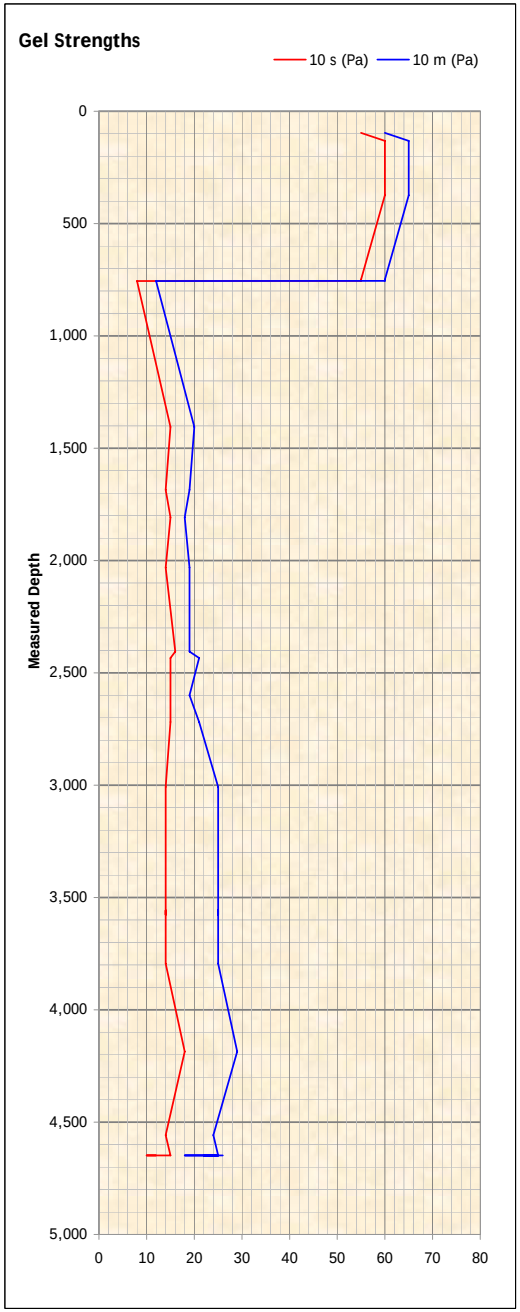
Baroid Fluid Services

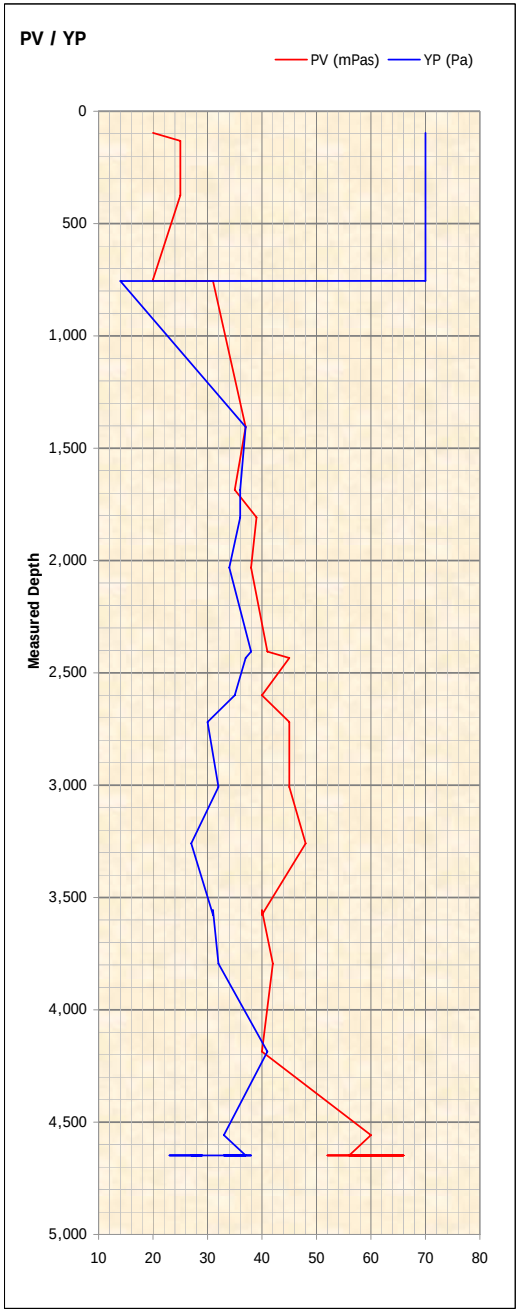
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

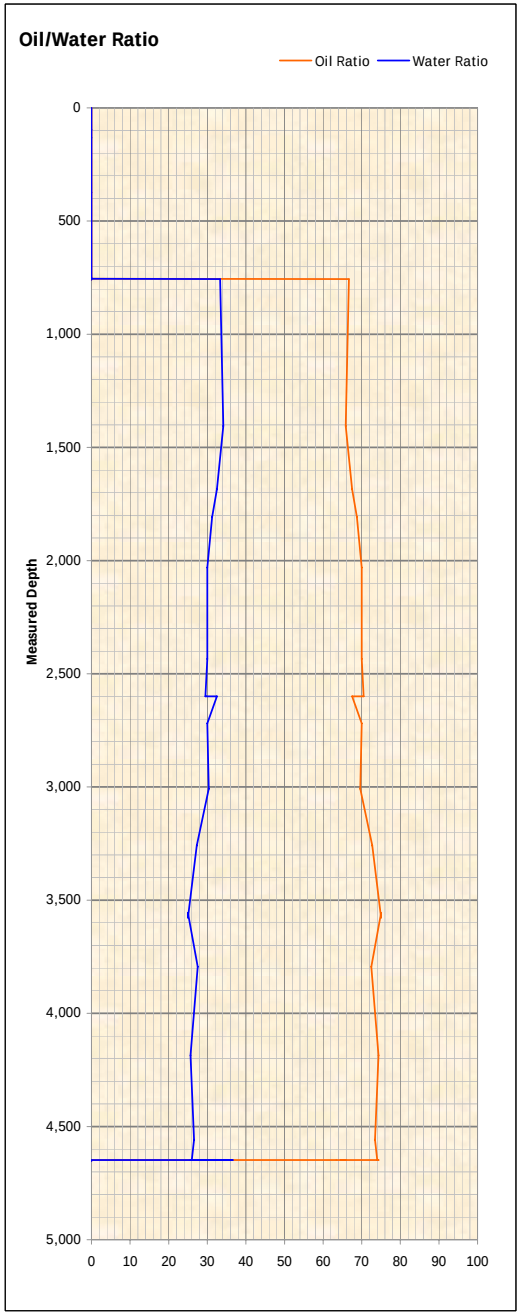
Physical Properties

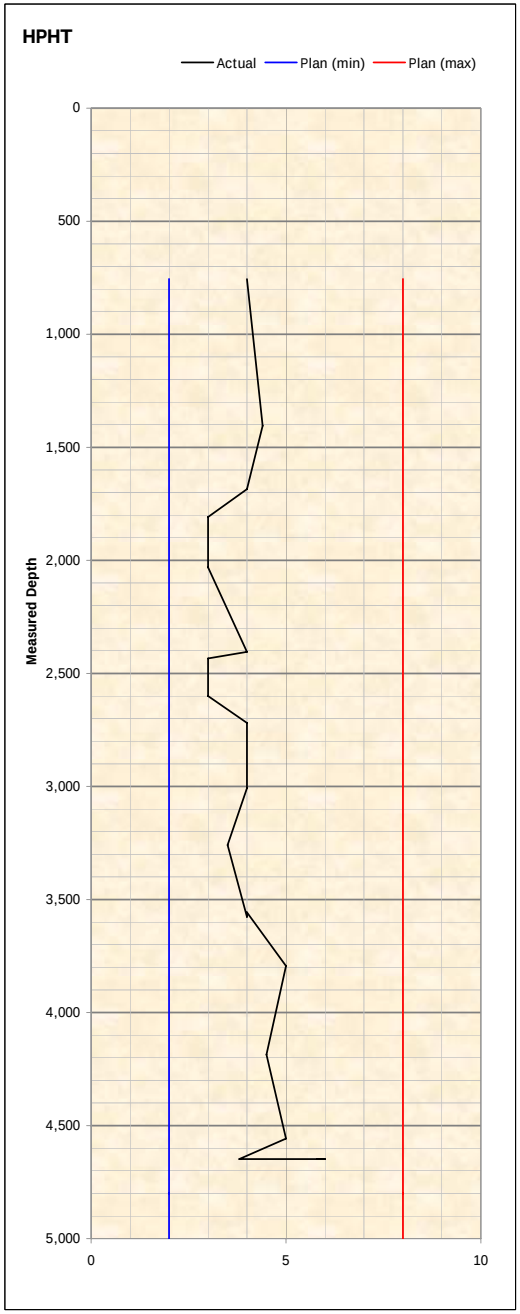
Baroid Fluid Services

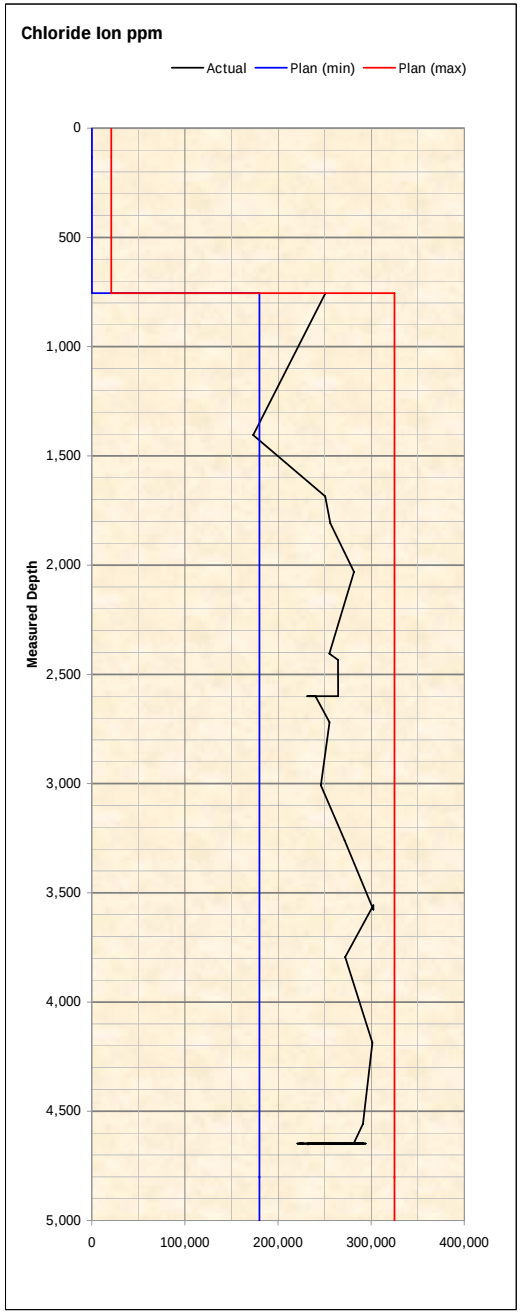
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

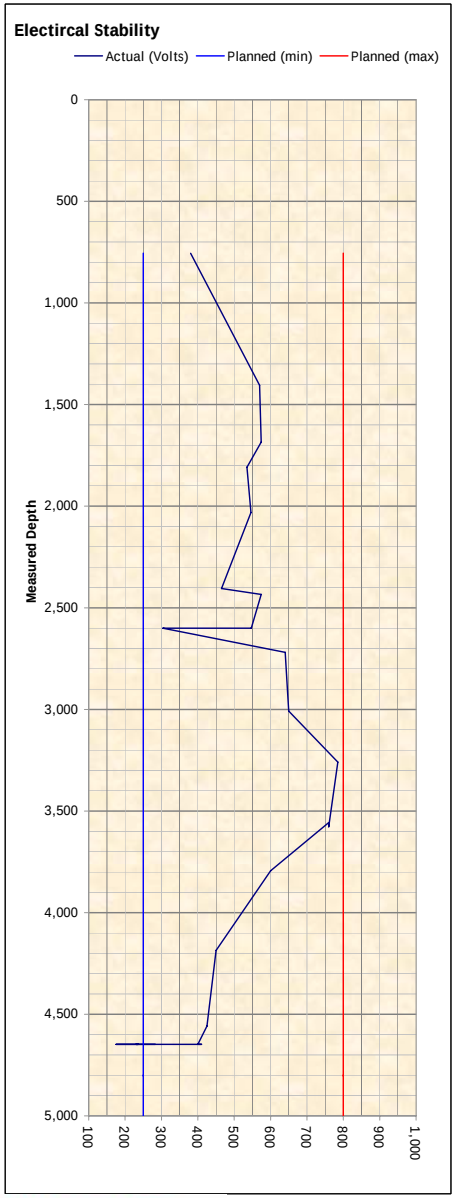
OBM Properties

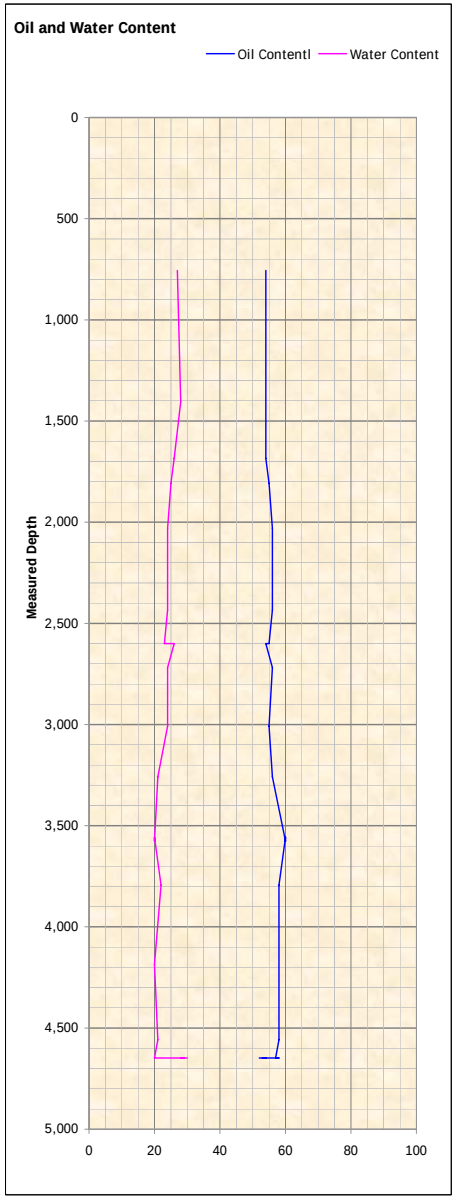
Baroid Fluid Services

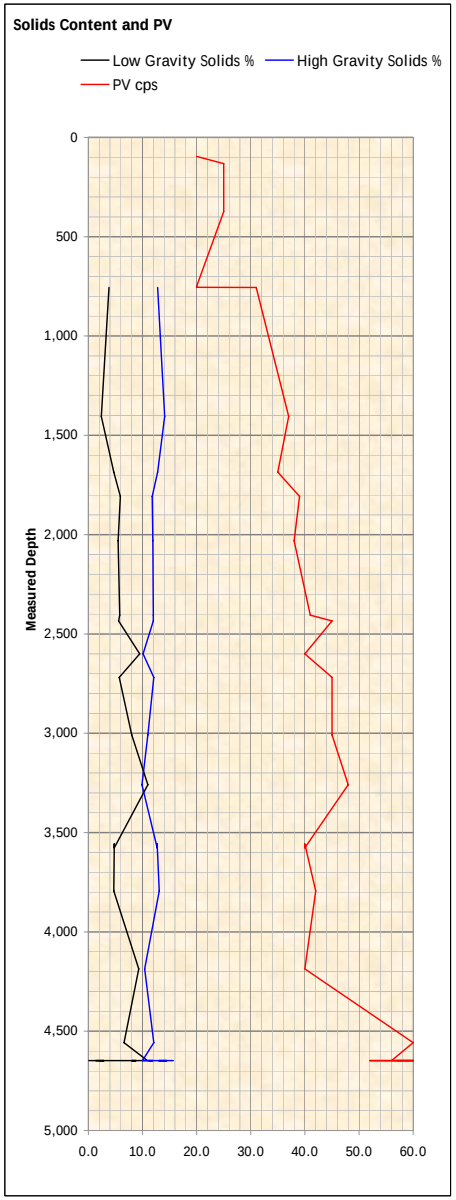
NEXUS ENERGY

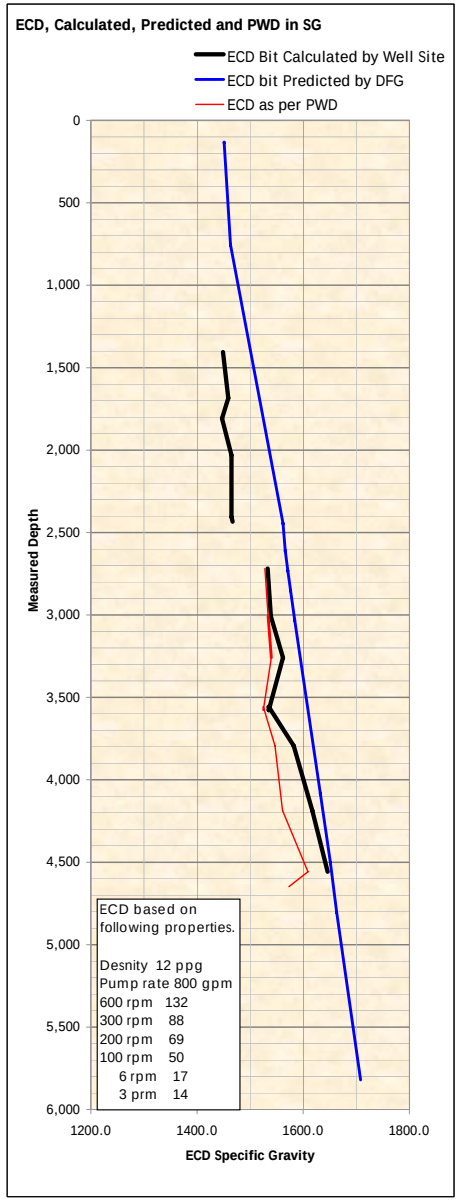
Longtom - 4

38o 6' 17.85"S Lat X 148o 20' 00.057"E Long









HALLIBURTON
Fluid Systems

OBM Properties

Baroid Fluid Services

POSTWELL AUDIT

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Well Summary Report

Well Data

Spud Date		06/20/2008	Fluids/Products: Drilling Cost	$	2,157,130.45
TD Date		08/10/2008	Fluids/Products: Completion Cost	$	2,255.52
Project			Solids Control/Waste Management Cost	$	0.00
Days on Well		92	Fluids/Products: Cementing Cost	$	14,198.18
From Date		06/19/2008	Prod Lost/Damaged Cost	$	339.72
To Date		09/18/2008	Engineer Services Cost	$	230,000.00
Drilling Days		24	Equipment Cost	$	0.00
Rotating / Drilling Hours		309.0/281.5	Transport/Packaging	$	0.00
Average ROP	m/hr	12.0	Other Cost	$	32,051.92
Maximum Density	ppg	12.30	Total Well Cost	$	2,435,975.79
Total Measured Depth	m	4,648	Planned Cost	$	0.00
True Vertical Depth	m	4,648	Fluid Cost Per Fluid Volume	$/bbl	86.57
Distance Drilled	m	3,374	Fluid Cost Per Length Drilled	$/m	623.02
Maximum Deviation	deg	91.46	Fluid Cost/Vol of Hole Drilled	$/bbl	792.31
Max. Horz. Displacement	m	2,823	Total Additions/Hole Drilled	bbl/bbl	9.152
Bottom Hole Temp			Total Additions/Length Drilled	bbl/m	7.196

Casing Design

Description	Set Date & Time	Top MD m	Top TVD m	End MD m	End TVD m	CSG OD in	CSG ID in	Max. Hole Size in	Hole MD m	Hole TVD m
30 X-52 157.5	06/21/2008 23:59	96	0	129		30.000	29.000	36.000	129	
16 J-55 75.0	06/25/2008 23:59	129	0	749		16.000	15.124	22.000	749	
10.75 L-80 55.5	07/16/2008 23:59	96	0	2,583		10.750	9.760	12.250	2,583	
7 L-80 26.0	08/17/2008 23:59	2,583	0	4,648		7.000	6.276	9.500	4,648	

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Well Summary Report

Fluid Program

Int #	Fluid Type	Interval Days	BHT Deg C	Max. Dens ppg	Whole fluid + Mix products	Other material charges	Other charges	Total Interval Cost $		
								Plan	Actual	Variance
1	KCl/Polymer PHB Seawater Guar Gum	8		9.60	22,743.44	671.40	20,000.00		43,414.84	
2	ACCOLADE Brine Base Oil	21		12.20	1,286,654.42	65,091.63	52,500.00		1,404,246.05	
3	ACCOLADE Base Oil	13		12.20	171,263.64	8,758.47	32,500.00		212,522.11	
4	ACCOLADE Brine Base Oil Slops	25		12.30	432,595.08	17,975.11	62,500.00		513,070.20	
5	Brine	25		11.10	188,809.29	11,413.30	62,500.00		262,722.59	
Total Well Cost $					**2,102,065.87**	**103,909.91**	**230,000.00**		**2,435,975.78**	**2,435,975.78**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	Nexus Energy

Total Cost Breakdown

	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	92.00	115,000.00
Drilling Fluids Engineer 2	day(s)	92.00	115,000.00
		SubTotal	**$ 230,000.00**
Fluids/Products: Cementing Cost			
barite	1000 kg bulk	29.200	13,866.50
calcium chloride flake 77%	25 kg bag	24.00	331.68
		SubTotal	**$ 14,198.18**
Fluid/Product: Lost Damage			
guar gum	25 kg bag	4.00	339.72
		SubTotal	**$ 339.72**
Other			
ACCOLADE BASE	1 bbl bulk	27.500	10,340.79
BARAKLEAN PLUS	1054 l bulk	4.000	18,488.56
BARAZAN D PLUS	25 kg bag	2.00	304.48
brine - CaCl2	42 gal bbl	58.81	2,817.59
salt	50 lb bag	3.00	100.50
		SubTotal	**$ 32,051.92**
Fluids/Products: Completion Cost			
CRW-24001	55 gal drum	4.00	2,255.52
		SubTotal	**$ 2,255.52**
Fluids/Products: Drilling Cost			
ACCOLADE	bbl	1,692.00	537,446.88
ACCOLADE BASE	1 bbl bulk	2,138.500	804,140.16
ADAPTA HP	25 kg sack	132.00	66,126.72
ALDACIDE G	5 gal can	9.00	629.10
BARACOR 100	55 gal drum	14.00	7,894.32
BARA-DEFOAM W300	5 gal can	2.00	111.84
BARAKLEAN PLUS	1054 l bulk	3.000	13,866.42
BARAZAN D PLUS	25 kg bag	3.00	456.72
barite	1000 kg bulk	441.970	209,882.71
bentonite	1000 kg bulk	35.570	17,602.88
brine - CaCl2	42 gal bbl	5,408.69	259,130.34
calcium chloride	1000 kg bag	52.00	28,748.72
Calcium chloride 94%	25 kg sack	393.00	5,431.26
calcium chloride flake 77%	25 kg bag	1.00	13.82
caustic soda	25 kg pail	16.00	707.04
Circal 60/16	25 kg sack	518.00	5,247.34
Circal Y	25 kg sack	27.00	345.60
FLO-CLEAN MD	55 gal drum	2.00	759.60
guar gum	25 kg bag	57.00	4,841.01

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	Nexus Energy

Total Cost Breakdown

LE SUPERMUL	55 gal drum	112.00		97,090.56
lime	25 kg bag	14.00		91.70
LIQUI-VIS EP	5 gal pail	136.00		26,962.00
NO-SULF	17 kg pail	11.00		1,299.32
N-VIS	25 lb bag	19.00		3,274.08
Omyacarb 5	25 kg bulk	504.000		4,732.56
OXYGON (plant)	6 gal pail	3.00		414.42
Radiagreen-EME	55 gal drum	7.00		10,185.00
RHEMOD L	55 gal drum	6.00		13,282.74
sapp	25 kg bag	21.00		1,039.71
STEELSEAL	25 kg sack	120.00		10,644.00
Tau Mod	50 lb sack	258.00		24,731.88
		SubTotal	**$**	**2,157,130.45**
		Total Well Cost:	**$**	**2,435,975.79**

Well	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Net Well Cost Breakdown

Cost Breakdown I $	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Fluid/Product: Drilling	22,743.44	1,361,009.26	288,264.86	298,559.12	186,553.77	2,157,130.45
Fluid/Product: Comp/Filtration					2,255.52	2,255.52
Solids Control/Waste Management Cost						
Fluids/Products: Cementing Cost	331.68	3,433.38		10,433.11		14,198.18
Engineering Services	20,000.00	52,500.00	32,500.00	62,500.00	62,500.00	230,000.00
Fluid/Product: Lost Damage	339.72					339.72
Other Cost		7,258.01	8,758.47	4,622.14	11,413.30	32,051.91
Equipment Cost						
Transport/Packaging Cost						
Total Cost	43,414.84	1,424,200.65	329,523.33	376,114.37	262,722.59	2,435,975.78

Cost Breakdown II $	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Total Products Cost	23,414.84	834,253.77	297,023.33	313,614.37	200,222.59	1,668,528.90
Total Fluids Cost		537,446.88				537,446.88
Total Charges Cost	20,000.00	52,500.00	32,500.00	62,500.00	62,500.00	230,000.00
Allocated To / From Other Interval	0.00	0.00			0.00	
Total Cost	43,414.84	1,424,200.65	329,523.33	376,114.37	262,722.59	2,435,975.78
Planned Cost						
Variance						

Volume Breakdown bbl	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Total Base Fluids Addition		1,320.5	652.0	2,213.7	3,216.0	7,402.2
Total Chemical Addition	96.0	294.6	34.9	106.9	59.4	591.8
Total Barite Addition		387.4	30.2	244.7		662.3
Total Water Addition	5,444.1	437.8	111.6	776.1	246.0	7,015.6
Total Fluid Built	5,540.1	2,440.3	828.6	3,341.5	3,521.4	15,671.9
Total Fluid Received	1,495.4	3,096.0	1,101.0	129.7	2,786.4	8,608.5
Total Influx Addition						
Not Used In Interval		-831.8	-2,282.8	-669.9	-2,061.1	
Total Fluid Volume	7,035.5	6,001.2	4,320.5	9,235.9	7,417.7	24,280.4

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 1	**Max Bit Size: 36.000 in**	**Hole Size Avg/Max**	**23.763 / 36.000 in**

Interval Start Date		06/19/2008	Planned Cost	$	0.00
Interval End Date		06/26/2008	Total Interval Cost	$	43,414.84
Interval TD Date		06/24/2008	Program Variance	$	43,414.84
Drilling Days		4.00	Other material charges	$	671.40
Rotating/Hours		37.50 / 37.00	Total Fluids Cost	$	22,743.44
Interval Top MD/TVD	m	0.0 / 0.0	Total Charges Cost	$	20,000.00
Interval End MD/TVD	m	755.0 / 755.0	Total Cementing Cost	$	331.68
Footage	m	755.0	Fluid Cost Per Vol Unit	$/bbl	3.23
Average ROP	m/hr	20.4	Fluid Cost/Hole Drilled	$/m	30.12
Max Hole Angle	degrees	0.00	Fluid Cost/Vol Drilled	$/bbl	16.74
Casing Size	in	16.000	Fluid Built	bbl	5,540.1
Casing Shoe MD	m	749.0	Total Additions/Vol Drilled	bbl/bbl	5.18
Casing Length	m	653.0	Total Additions/Hole Drilled	bbl/m	9.32
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	3.87
Max Fluid Density	ppg	9.60	Fluid Loss/Hole Drilled	bbl/m	6.97

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Viscosifier/Suspension Agent				
bentonite	Spud Mud	1000 kg bulk	35.570	17,602.88
guar gum	Gel Polymer	25 kg bag	57.000	4,841.01
guar gum	No Fluid	25 kg bag	4.000	339.72
			Total	**$ 22,783.61**
Alkalinity Control				
caustic soda	Spud Mud	25 kg pail	5.000	220.95
lime	Spud Mud	25 kg bag	12.000	78.60
			Total	**$ 299.55**
Weighting Material				
calcium chloride flake 77%	No Fluid	25 kg bag	24.000	331.68
			Total	**$ 331.68**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 2	**Max Bit Size: 22.000 in**	**Hole Size Avg/Max**	**13.500 / 22.000 in**

Interval Start Date		06/27/2008	Planned Cost	$	0.00
Interval End Date		07/17/2008	Total Interval Cost	$	1,404,246.05
Interval TD Date		07/15/2008	Program Variance	$	1,404,246.05
Drilling Days		7.00	Other material charges	$	65,091.63
Rotating/Hours		73.00 / 71.50	Total Fluids Cost	$	1,286,654.42
Interval Top MD/TVD	m	755.0 / 755.0	Total Charges Cost	$	52,500.00
Interval End MD/TVD	m	2,600.0 / 2,369.3	Total Cementing Cost	$	3,433.38
Footage	m	1,845.0	Fluid Cost Per Vol Unit	$/bbl	214.40
Average ROP	m/hr	25.8	Fluid Cost/Hole Drilled	$/m	697.37
Max Hole Angle	degrees	37.70	Fluid Cost/Vol Drilled	$/bbl	1,200.60
Casing Size	in	10.750	Fluid Built	bbl	2,440.3
Casing Shoe MD	m	2,583.0	Total Additions/Vol Drilled	bbl/bbl	5.60
Casing Length	m	2,487.0	Total Additions/Hole Drilled	bbl/m	3.25
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	1.43
Max Fluid Density	ppg	12.20	Fluid Loss/Hole Drilled	bbl/m	0.83

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	258.530	122,770.73
barite	No Fluid	1000 kg bulk	7.230	3,433.38
calcium chloride	Brine	1000 kg bag	52.000	28,748.72
calcium chloride flake 77%	ACCOLADE	25 kg bag	1.000	13.82
Calcium chloride 94%	ACCOLADE	25 kg sack	80.000	1,105.60
			Total	**$ 156,072.25**
Viscosifier/Suspension Agent				
BARAZAN D PLUS	No Fluid	25 kg bag	5.000	761.20
RHEMOD L	ACCOLADE	55 gal drum	3.000	6,641.37
Tau Mod	ACCOLADE	50 lb sack	137.000	13,132.82
			Total	**$ 20,535.39**
Lost Circulation/Bridging Agent				
STEELSEAL	ACCOLADE	25 kg sack	120.000	10,644.00
Circal Y	ACCOLADE	25 kg sack	27.000	345.60
Circal 60/16	ACCOLADE	25 kg sack	261.000	2,643.93
Omyacarb 5	ACCOLADE	25 kg bulk	260.000	2,441.40
			Total	**$ 16,074.93**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	56.000	48,545.28
			Total	**$ 48,545.28**
Alkalinity Control				
lime	ACCOLADE	25 kg bag	2.000	13.10
			Total	**$ 13.10**
Corrosion Inhibitor				
NO-SULF	No Fluid	17 kg pail	11.000	1,299.32
			Total	**$ 1,299.32**
Filtration Control				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

ADAPTA HP	ACCOLADE	25 kg sack	71.000		35,568.16
			Total	**$**	**35,568.16**
Base Fluid					
ACCOLADE BASE	ACCOLADE	1 bbl bulk	933.500		351,024.01
ACCOLADE BASE	Base Oil	1 bbl bulk	387.000		145,523.61
ACCOLADE BASE	No Fluid	1 bbl bulk	146.200		54,975.59
			Total	**$**	**551,523.20**
Other					
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000		4,622.14
			Total	**$**	**4,622.14**
Whole Fluid					
ACCOLADE	ACCOLADE	bbl	1,692.000		537,446.88
			Total	**$**	**537,446.88**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 3	**Max Bit Size: 13.500 in**	**Hole Size Avg/Max**	**9.500 / 13.500 in**

Interval Start Date		07/18/2008	Planned Cost	$	0.00
Interval End Date		07/30/2008	Total Interval Cost	$	212,522.11
Interval TD Date		07/28/2008	Program Variance	$	212,522.11
Drilling Days		4.00	Other material charges	$	8,758.47
Rotating/Hours		34.00 / 32.00	Total Fluids Cost	$	171,263.64
Interval Top MD/TVD	m	2,600.0 / 2,369.3	Total Charges Cost	$	32,500.00
Interval End MD/TVD	m	2,987.0 / 2,604.7	Total Cementing Cost	$	0.00
Footage	m	387.0	Fluid Cost Per Vol Unit	$/bbl	39.64
Average ROP	m/hr	12.1	Fluid Cost/Hole Drilled	$/m	442.54
Max Hole Angle	degrees	45.10	Fluid Cost/Vol Drilled	$/bbl	1,538.53
Casing Size	in	10.750	Fluid Built	bbl	828.6
Casing Shoe MD	m	2,583.0	Total Additions/Vol Drilled	bbl/bbl	38.81
Casing Length	m	2,487.0	Total Additions/Hole Drilled	bbl/m	11.16
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	1.52
Max Fluid Density	ppg	12.20	Fluid Loss/Hole Drilled	bbl/m	0.44

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	20.120	9,554.59
			Total	**$ 9,554.59**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	20.000	17,337.60
			Total	**$ 17,337.60**
Lost Circulation/Bridging Agent				
Circal 60/16	ACCOLADE	25 kg sack	14.000	141.82
Omyacarb 5	ACCOLADE	25 kg bulk	13.000	122.07
			Total	**$ 263.89**
Filtration Control				
ADAPTA HP	ACCOLADE	25 kg sack	18.000	9,017.28
			Total	**$ 9,017.28**
Viscosifier/Suspension Agent				
RHEMOD L	ACCOLADE	55 gal drum	2.000	4,427.58
Tau Mod	ACCOLADE	50 lb sack	26.000	2,492.36
			Total	**$ 6,919.94**
Base Fluid				
ACCOLADE BASE	ACCOLADE	1 bbl bulk	35.000	13,161.05
ACCOLADE BASE	Base Oil	1 bbl bulk	617.000	232,010.51
ACCOLADE BASE	No Fluid	1 bbl bulk	11.000	4,136.33
			Total	**$ 249,307.89**
Other				
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 4,622.14**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 4	**Max Bit Size: 9.500 in**	**Hole Size Avg/Max**	**9.500 / 9.500 in**

Interval Start Date		07/31/2008	Planned Cost	$	0.00
Interval End Date		08/24/2008	Total Interval Cost	$	513,070.20
Interval TD Date		08/11/2008	Program Variance	$	513,070.20
Drilling Days		9.00	Other material charges	$	17,975.11
Rotating/Hours		164.50 / 141.00	Total Fluids Cost	$	432,595.08
Interval Top MD/TVD	m	2,600.0 / 2,369.0	Total Charges Cost	$	62,500.00
Interval End MD/TVD	m	4,648.0 / 2,768.0	Total Cementing Cost	$	10,433.11
Footage	m	387.0	Fluid Cost Per Vol Unit	$/bbl	46.84
Average ROP	m/hr	2.7	Fluid Cost/Hole Drilled	$/m	1,117.82
Max Hole Angle	degrees	91.46	Fluid Cost/Vol Drilled	$/bbl	3,886.18
Casing Size	in	7.000	Fluid Built	bbl	3,341.5
Casing Shoe MD	m	4,647.8	Total Additions/Vol Drilled	bbl/bbl	82.97
Casing Length	m	4,551.8	Total Additions/Hole Drilled	bbl/m	23.87
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	12.47
Max Fluid Density	ppg	12.30	Fluid Loss/Hole Drilled	bbl/m	3.59

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	163.320	77,557.40
barite	No Fluid	1000 kg bulk	21.970	10,433.11
Calcium chloride 94%	ACCOLADE	25 kg sack	40.000	552.80
			Total	**$ 88,543.32**
Base Fluid				
brine - CaCl2	ACCOLADE	42 gal bbl	90.000	4,311.90
brine - CaCl2	Brine	42 gal bbl	2,102.690	100,739.88
ACCOLADE BASE	Base Oil	1 bbl bulk	21.000	7,896.63
ACCOLADE BASE	No Fluid	1 bbl bulk	5.000	1,880.15
			Total	**$ 114,828.56**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	36.000	31,207.68
			Total	**$ 31,207.68**
Viscosifier/Suspension Agent				
LIQUI-VIS EP	Brine	5 gal pail	70.000	13,877.50
N-VIS	Brine	25 lb bag	5.000	861.60
RHEMOD L	ACCOLADE	55 gal drum	1.000	2,213.79
Tau Mod	ACCOLADE	50 lb sack	95.000	9,106.70
			Total	**$ 26,059.59**
Lost Circulation/Bridging Agent				
Circal 60/16	ACCOLADE	25 kg sack	243.000	2,461.59
Omyacarb 5	ACCOLADE	25 kg bulk	231.000	2,169.09
			Total	**$ 4,630.68**
Thinner/Deflocculant				
sapp	No Fluid	25 kg bag	21.000	1,039.71
			Total	**$ 1,039.71**
Filtration Control				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

ADAPTA HP	ACCOLADE	25 kg sack	43.000	21,541.28
			Total	**$ 21,541.28**
Lubricant				
Radiagreen-EME	Brine	55 gal drum	5.000	7,275.00
			Total	**$ 7,275.00**
Other				
BARAKLEAN PLUS	Brine	1054 l bulk	3.000	13,866.42
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 18,488.56**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 5	**Max Bit Size: 9.500 in**	**Hole Size Avg/Max**	**9.500 / 9.500 in**

Interval Start Date		08/25/2008	Planned Cost	$	0.00
Interval End Date		09/18/2008	Total Interval Cost	$	262,722.59
Interval TD Date			Program Variance	$	262,722.59
Drilling Days		0.00	Other material charges	$	11,413.30
Rotating/Hours		0.00 / 0.00	Total Fluids Cost	$	188,809.29
Interval Top MD/TVD	m	4,648.0 / 2,768.0	Total Charges Cost	$	62,500.00
Interval End MD/TVD	m	4,648.0 / 2,768.0	Total Cementing Cost	$	0.00
Footage	m	0.0	Fluid Cost Per Vol Unit	$/bbl	25.45
Average ROP	m/hr	0.0	Fluid Cost/Hole Drilled	$/m	0.00
Max Hole Angle	degrees	0.00	Fluid Cost/Vol Drilled	$/bbl	0.00
Casing Size	in	7.000	Fluid Built	bbl	3,521.4
Casing Shoe MD	m	4,647.8	Total Additions/Vol Drilled	bbl/bbl	0.00
Casing Length	m	4,551.8	Total Additions/Hole Drilled	bbl/m	0.00
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	0.00
Max Fluid Density	ppg	11.10	Fluid Loss/Hole Drilled	bbl/m	0.00

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Bactericides				
ALDACIDE G	Brine	5 gal can	9.000	629.10
			Total	**$ 629.10**
Defoamer				
BARA-DEFOAM W300	Brine	5 gal can	2.000	111.84
			Total	**$ 111.84**
Corrosion Inhibitor				
BARACOR 100	Brine	55 gal drum	14.000	7,894.32
CRW-24001	Brine	55 gal drum	4.000	2,255.52
OXYGON (plant)	Brine	6 gal pail	3.000	414.42
			Total	**$ 10,564.26**
Base Fluid				
brine - CaCl2	Brine	42 gal bbl	3,216.000	154,078.56
brine - CaCl2	No Fluid	42 gal bbl	58.810	2,817.59
ACCOLADE BASE	No Fluid	1 bbl bulk	10.300	3,873.07
			Total	**$ 160,769.22**
Alkalinity Control				
caustic soda	Brine	25 kg pail	11.000	486.09
			Total	**$ 486.09**
Weighting Material				
salt	No Fluid	50 lb bag	3.000	100.50
Calcium chloride 94%	Brine	25 kg sack	273.000	3,772.86
			Total	**$ 3,873.36**
Viscosifier/Suspension Agent				
LIQUI-VIS EP	Brine	5 gal pail	66.000	13,084.50
N-VIS	Brine	25 lb bag	14.000	2,412.48
			Total	**$ 15,496.98**
Lubricant				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Radiagreen-EME	Brine	55 gal drum	2.000	2,910.00
			Total	**$ 2,910.00**
Flocculant				
FLO-CLEAN MD	Brine	55 gal drum	2.000	759.60
			Total	**$ 759.60**
Other				
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 4,622.14**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**01**	**From Date**	**06/19/2008**	**Top of Interval**	**0.0 m**
Max. Hole Size / Bit Size	**36.000 / 36.000 in**	**To Date**	**06/26/2008**	**Bottom of Interval**	**755.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	8.00	10000.00
Drilling Fluids Engineer 2	day(s)	8.00	10000.00
		SubTotal	**$ 20,000.00**
Fluids/Products: Cementing Cost			
calcium chloride flake 77%	25 kg bag	24.00	331.68
		SubTotal	**$ 331.68**
Fluid/Product: Lost Damage			
guar gum	25 kg bag	4.00	339.72
		SubTotal	**$ 339.72**
Fluids/Products: Drilling Cost			
bentonite	1000 kg bulk	35.570	17602.88
caustic soda	25 kg pail	5.00	220.95
guar gum	25 kg bag	57.00	4841.01
lime	25 kg bag	12.00	78.60
		SubTotal	**$ 22,743.44**
		Interval Total Cost	**$ 43,414.84**
	Charged To/From Other Interval		**$**
	Net Description Total Cost		**$ 43,414.84**
	Programmed Cost		**$ 0.00**
	Program Variance		**$ 43,414.84**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**02**	**From Date**	**06/27/2008**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size	**22.000 / 22.000 in**	**To Date**	**07/17/2008**	**Bottom of Interval**	**2,600.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	21.00	26250.00
Drilling Fluids Engineer 2	day(s)	21.00	26250.00
		SubTotal	**$ 52,500.00**
Fluids/Products: Cementing Cost			
barite	1000 kg bulk	7.230	3433.38
		SubTotal	**$ 3,433.38**
Other			
ACCOLADE BASE	1 bbl bulk	6.200	2331.39
BARAKLEAN PLUS	1054 l bulk	1.000	4622.14
BARAZAN D PLUS	25 kg bag	2.00	304.48
		SubTotal	**$ 7,258.01**
Fluids/Products: Drilling Cost			
ACCOLADE	bbl	1,692.00	537446.88
ACCOLADE BASE	1 bbl bulk	1,460.500	549191.82
ADAPTA HP	25 kg sack	71.00	35568.16
BARAZAN D PLUS	25 kg bag	3.00	456.72
barite	1000 kg bulk	258.530	122770.73
calcium chloride	1000 kg bag	52.00	28748.72
Calcium chloride 94%	25 kg sack	80.00	1105.60
calcium chloride flake 77%	25 kg bag	1.00	13.82
Circal 60/16	25 kg sack	261.00	2643.93
Circal Y	25 kg sack	27.00	345.60
LE SUPERMUL	55 gal drum	56.00	48545.28
lime	25 kg bag	2.00	13.10
NO-SULF	17 kg pail	11.00	1299.32
Omyacarb 5	25 kg bulk	260.000	2441.40
RHEMOD L	55 gal drum	3.00	6641.37
STEELSEAL	25 kg sack	120.00	10644.00
Tau Mod	50 lb sack	137.00	13132.82
		SubTotal	**$ 1,361,009.26**
		Interval Total Cost	**$ 1,424,200.65**
		Charged To/From Other Interval	**$ -19,954.60**
		Net Description Total Cost	**$ 1,404,246.05**
		Programmed Cost	**$ 0.00**
		Program Variance	**$ 1,404,246.05**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval # 03		**From Date**	**07/18/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**13.500 / 13.500 in**	**To Date**	**07/30/2008**	**Bottom of Interval**	**2,987.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	13.00	16250.00
Drilling Fluids Engineer 2	day(s)	13.00	16250.00
		SubTotal	**$ 32,500.00**
Other			
ACCOLADE BASE	1 bbl bulk	11.000	4136.33
BARAKLEAN PLUS	1054 l bulk	1.000	4622.14
		SubTotal	**$ 8,758.47**
Fluids/Products: Drilling Cost			
ACCOLADE BASE	1 bbl bulk	652.000	245171.56
ADAPTA HP	25 kg sack	18.00	9017.28
barite	1000 kg bulk	20.120	9554.59
Circal 60/16	25 kg sack	14.00	141.82
LE SUPERMUL	55 gal drum	20.00	17337.60
Omyacarb 5	25 kg bulk	13.000	122.07
RHEMOD L	55 gal drum	2.00	4427.58
Tau Mod	50 lb sack	26.00	2492.36
		SubTotal	**$ 288,264.86**
		Interval Total Cost	**$ 329,523.33**
	Charged To/From Other Interval		**$ -117,001.22**
	Net Description Total Cost		**$ 212,522.11**
	Programmed Cost		**$ 0.00**
	Program Variance		**$ 212,522.11**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval # 04		**From Date**	**07/31/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Date**	**08/24/2008**	**Bottom of Interval**	**4,648.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	25.00	31250.00
Drilling Fluids Engineer 2	day(s)	25.00	31250.00
		SubTotal	**$ 62,500.00**
Fluids/Products: Cementing Cost			
barite	1000 kg bulk	21.970	10433.11
		SubTotal	**$ 10,433.11**
Other			
BARAKLEAN PLUS	1054 l bulk	1.000	4622.14
		SubTotal	**$ 4,622.14**
Fluids/Products: Drilling Cost			
ACCOLADE BASE	1 bbl bulk	26.000	9776.78
ADAPTA HP	25 kg sack	43.00	21541.28
BARAKLEAN PLUS	1054 l bulk	3.000	13866.42
barite	1000 kg bulk	163.320	77557.40
brine - CaCl2	42 gal bbl	2,192.69	105051.78
Calcium chloride 94%	25 kg sack	40.00	552.80
Circal 60/16	25 kg sack	243.00	2461.59
LE SUPERMUL	55 gal drum	36.00	31207.68
LIQUI-VIS EP	5 gal pail	70.00	13877.50
N-VIS	25 lb bag	5.00	861.60
Omyacarb 5	25 kg bulk	231.000	2169.09
Radiagreen-EME	55 gal drum	5.00	7275.00
RHEMOD L	55 gal drum	1.00	2213.79
sapp	25 kg bag	21.00	1039.71
Tau Mod	50 lb sack	95.00	9106.70
		SubTotal	**$ 298,559.12**
		Interval Total Cost	**$ 376,114.37**
	Charged To/From Other Interval		**$ 136,955.83**
	Net Description Total Cost		**$ 513,070.20**
	Programmed Cost		**$ 0.00**
	Program Variance		**$ 513,070.20**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval # 05		**From Date**	**08/25/2008**	**Top of Interval**	**4,648.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Date**	**09/18/2008**	**Bottom of Interval**	**4,648.0 m**

Material	Unit Size	Quantity		Total Cost
Engineering/Services				
Drilling Fluids Engineer	day(s)	25.00		31250.00
Drilling Fluids Engineer 2	day(s)	25.00		31250.00
		SubTotal	**$**	**62,500.00**
Other				
ACCOLADE BASE	1 bbl bulk	10.300		3873.07
BARAKLEAN PLUS	1054 l bulk	1.000		4622.14
brine - CaCl2	42 gal bbl	58.81		2817.59
salt	50 lb bag	3.00		100.50
		SubTotal	**$**	**11,413.30**
Fluids/Products: Completion Cost				
CRW-24001	55 gal drum	4.00		2255.52
		SubTotal	**$**	**2,255.52**
Fluids/Products: Drilling Cost				
ALDACIDE G	5 gal can	9.00		629.10
BARACOR 100	55 gal drum	14.00		7894.32
BARA-DEFOAM W300	5 gal can	2.00		111.84
brine - CaCl2	42 gal bbl	3,216.00		154078.56
Calcium chloride 94%	25 kg sack	273.00		3772.86
caustic soda	25 kg pail	11.00		486.09
FLO-CLEAN MD	55 gal drum	2.00		759.60
LIQUI-VIS EP	5 gal pail	66.00		13084.50
N-VIS	25 lb bag	14.00		2412.48
OXYGON (plant)	6 gal pail	3.00		414.42
Radiagreen-EME	55 gal drum	2.00		2910.00
		SubTotal	**$**	**186,553.77**
		Interval Total Cost	**$**	**262,722.59**
	Charged To/From Other Interval		**$**	**0.00**
	Net Description Total Cost		**$**	**262,722.59**
	Programmed Cost		**$**	**0.00**
	Program Variance		**$**	**262,722.59**

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 01																				
Fluid Name:	**KCl/Polymer**																			
002	06/20/08		857.0							857.0									857.0	857.0
003	06/21/08	857.0												237.0		237.0			620.0	620.0
005	06/23/08	620.0				134.0				134.0									754.0	754.0
006	06/24/08	754.0		556.0					568.5	1,124.5	824.7					824.7	485.3			485.3
007	06/25/08	485.3							64.0	64.0							476.8			476.8
008	06/26/08	476.8											476.7			476.7				
Cumulative Volume			857.0	556.0		134.0			632.5	2,179.5	824.7		476.7	237.0		1,538.4				
Fluid Name:	**PHB**																			
002	06/20/08					1,638.0		43.0		1,681.0									1,681.0	1,681.0
003	06/21/08	1,681.0				100.0		9.8		109.8				284.8		284.8			1,506.0	1,506.0
004	06/22/08	1,506.0				614.7		15.4		630.1				752.1		752.1			1,384.0	1,384.0
005	06/23/08	1,384.0				897.4		22.6		920.0				1,441.0		1,441.0			863.0	863.0
006	06/24/08	863.0												556.0		556.0			307.0	307.0
Cumulative Volume						3,250.1		90.8		3,340.9				3,033.9		3,033.9				
Fluid Name:	**Seawater**																			
002	06/20/08					466.0				466.0								466.0		466.0
003	06/21/08	466.0		521.8						521.8	420.6					420.6	95.2	466.0		561.2
004	06/22/08	561.2		804.0						804.0	527.3					527.3	432.9	399.0		831.9
005	06/23/08	831.9		2,207.4		394.0			5.9	2,607.3	1,663.2					1,663.2	986.3	399.0	374.0	1,759.3
006	06/24/08	1,759.3		67.0						67.0	1,826.3					1,826.3				
Cumulative Volume				3,600.2		860.0			5.9	4,466.1	4,437.4					4,437.4				

Fluid Name: **Guar Gum**

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
004	06/22/08					450.0		1.9		451.9				51.9		51.9			400.0	400.0
005	06/23/08	400.0				750.0		3.4		753.4				766.4		766.4			387.0	387.0
006	06/24/08	387.0												67.0		67.0			320.0	320.0
Cumulative Volume						1,200.0		5.3		1,205.3				885.3		885.3				

Fluid Name: Brine

009	06/27/08							148.8		148.8									148.8	148.8
Cumulative Volume								148.8		148.8										

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 02																				
Fluid Name:	**PHB**																			
011	06/29/08	307.0									307.0					307.0				
Cumulative Volume											307.0					307.0				
Fluid Name:	**Guar Gum**																			
011	06/29/08	320.0									320.0					320.0				
Cumulative Volume											320.0					320.0				
Fluid Name:	**ACCOLADE**																			
010	06/28/08		1,692.0		53.0					1,745.0									1,745.0	1,745.0
011	06/29/08	1,745.0					167.4	21.4		188.8			16.8			16.8		348.0	1,569.0	1,917.0
012	06/30/08	1,917.0		398.0			46.4	31.6	64.0	540.0	153.0	82.6				235.6	932.3	234.0	991.0	2,157.3
013	07/01/08	2,157.3	64.0	220.0	170.0		13.0	25.3		492.3	91.0	72.5	28.0			191.5	1,072.2	272.0	1,050.0	2,394.2
014	07/02/08	2,394.2	64.0	272.0			18.2	10.8		365.0	102.0	91.7	19.0			212.7	1,250.5	321.0	911.0	2,482.5
015	07/03/08	2,482.5	64.0		14.0			4.6		82.6	4.0	23.9	20.0			47.9	1,240.3	273.0	940.0	2,453.3
016	07/04/08	2,453.3	64.0		20.0		33.7			117.7	106.0	8.6				114.6	1,424.3	288.0	680.0	2,392.3
017	07/05/08	2,392.3	64.0	82.1	284.0			7.0		437.1	18.0	45.2	23.0	0.1		86.3	1,454.2	253.0	972.0	2,679.2
018	07/06/08	2,679.2	64.0		30.0		74.0	15.7		183.7	55.0	33.5	6.0			94.5	1,699.3	213.0	792.0	2,704.3
019	07/07/08	2,704.3	64.0		335.0		3.5	26.8		429.3		12.3				12.3	1,699.3	210.0	1,148.0	3,057.3
020	07/08/08	3,057.3	64.0	90.0				1.1		155.1		10.1				10.1	1,699.3	205.0	1,234.0	3,138.3
021	07/09/08	3,138.3	64.0				6.6	1.6		72.2	20.0	14.2	19.0			53.2	1,699.3	342.0	1,052.0	3,093.3
022	07/10/08	3,093.3	64.0							64.0		12.0	24.0			36.0	1,699.3	253.0	1,105.0	3,057.3
023	07/11/08	3,057.3	64.0							64.0							1,699.3	240.0	1,118.0	3,057.3
024	07/12/08	3,057.3	64.0							64.0							1,699.3	220.0	1,138.0	3,057.3
025	07/13/08	3,057.3	64.0			30.2				94.2							1,548.9	346.6	1,192.0	3,087.5
026	07/14/08	3,087.5	64.0			69.6				133.6							1,535.1	380.0	1,242.0	3,157.1

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
027	07/15/08	3,157.1	64.0				6.6			70.6			18.6			18.6	1,531.0	226.0	1,388.0	3,145.0
028	07/16/08	3,145.0			17.5					17.5			402.4			402.4	746.3	270.0	1,744.0	2,760.3
029	07/17/08	2,760.3			10.0	29.8	17.9			57.7							764.9	366.0	1,687.0	2,817.9
Cumulative Volume			2,652.0	1,062.1	933.5	129.6	387.3	145.9	64.0	5,374.4	549.0	406.6	576.8	0.1		1,532.5				

Fluid Name: Brine

011	06/29/08	148.8				308.2				308.2									457.0	457.0
012	06/30/08	457.0												100.0		100.0			357.0	357.0
013	07/01/08	357.0												50.0		50.0			307.0	307.0
014	07/02/08	307.0												50.0		50.0			257.0	257.0
017	07/05/08	257.0		0.1						0.1				82.1		82.1			175.0	175.0
020	07/08/08	175.0												90.0		90.0			85.0	85.0
Cumulative Volume				0.1		308.2				308.3				372.1		372.1				

Fluid Name: Base Oil

012	06/30/08				379.0					379.0				298.0		298.0			81.0	81.0
013	07/01/08	81.0	311.0							311.0				170.0		170.0			222.0	222.0
014	07/02/08	222.0												222.0		222.0				
019	07/07/08		69.0							69.0									69.0	69.0
028	07/16/08	69.0			8.0					8.0									77.0	77.0
Cumulative Volume			380.0		387.0					767.0				690.0		690.0				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 04																				
Fluid Name:	**ACCOLADE**																			
043	07/31/08	3,128.2					2.2			2.2			44.3			44.3	861.1	374.0	1,851.0	3,086.1
045	08/02/08	3,086.2					9.4	9.3		18.7	6.0		12.0			18.0	721.8	406.0	1,959.0	3,086.8
046	08/03/08	3,086.8					15.7	0.4		16.1	96.0	20.7	20.0		435.0	571.7	785.2	471.0	1,275.0	2,531.2
047	08/04/08	2,531.2					25.5	10.9		36.4	81.0	44.0	20.0			145.0	840.6	410.0	1,172.0	2,422.6
048	08/05/08	2,422.6				40.0		5.6		45.6	82.0	18.8	15.0			115.8	940.4	429.0	983.0	2,352.4
049	08/06/08	2,352.4										7.8	22.0			29.8	977.6	478.0	867.0	2,322.6
050	08/07/08	2,322.6		171.0	50.0		8.5	16.8		246.3	88.0	55.0	20.0			163.0	958.9	377.0	1,070.0	2,405.9
051	08/08/08	2,405.9					37.8	3.5		41.3	155.0	47.2	20.0			222.2	1,053.0	386.0	786.0	2,225.0
052	08/09/08	2,225.0				17.0		7.9		24.9	143.0	63.6	20.0			226.6	1,136.3	384.0	503.0	2,023.3
053	08/10/08	2,023.3			40.0	10.0				50.0	69.0	28.7	7.0			104.7	1,202.6	368.0	398.0	1,968.6
054	08/11/08	1,968.6		174.0			43.0	15.9		232.9		3.0				3.0	1,459.5	283.0	456.0	2,198.5
055	08/12/08	2,198.5				44.0				44.0					433.0	433.0	1,373.1	343.0	93.4	1,809.5
056	08/13/08	1,809.5		53.0		54.1	20.2			127.3							1,258.0	271.0	407.8	1,936.8
057	08/14/08	1,936.8												244.7		244.7	1,370.4	262.0	59.7	1,692.1
058	08/15/08	1,692.1					3.6			3.6							1,360.5	272.0	63.2	1,695.7
059	08/16/08	1,695.7					33.0			33.0							1,260.2	365.0	103.5	1,728.7
060	08/17/08	1,728.7					24.0	2.6		26.6			31.1			31.1	1,124.8	491.6	107.9	1,724.3
061	08/18/08	1,724.2					4.9	1.3		6.2				274.0		274.0	1,042.0	89.6	324.9	1,456.5
062	08/19/08	1,456.4		60.0			9.7	4.3		74.0							1,124.8		405.7	1,530.5
063	08/20/08	1,530.5						11.6		11.6				11.3	200.0	211.3	1,062.6	203.5	64.5	1,330.6
064	08/21/08	1,330.7				0.2	7.3	1.3		8.8				15.3		15.3	1,095.7	188.0	40.5	1,324.2
065	08/22/08	1,324.2						0.7		0.7							968.5	291.0	65.4	1,324.9
066	08/23/08	1,324.9											21.0	10.0	809.8	840.8			484.0	484.0
067	08/24/08	484.0												6.0	470.0	476.0			8.0	8.0
Cumulative Volume				458.0	90.0	165.3	244.8	92.1		1,050.2	720.0	288.8	252.4	561.3	2,347.8	4,170.3				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Fluid Name:		**Brine**																		
046	08/03/08	1,186.0													1,186.0	1,186.0				
056	08/13/08				694.0	155.2		13.8		863.0									863.0	863.0
057	08/14/08	863.0											127.0			127.0			736.0	736.0
058	08/15/08	736.0			760.0	13.0				773.0									1,509.0	1,509.0
061	08/18/08	1,509.0												75.0		75.0			1,434.0	1,434.0
063	08/20/08	1,434.0			189.7	70.0		1.3		261.0				10.0		10.0			1,685.0	1,685.0
065	08/22/08	1,685.0			70.0	7.0				77.0									1,762.0	1,762.0
066	08/23/08	1,762.0			389.0	40.0				429.0			456.7	289.1		745.8	1,124.8	62.0	258.5	1,445.3
067	08/24/08	1,445.3											254.1	44.1		298.2	1,037.7		109.4	1,147.1
Cumulative Volume					2,102.7	285.2		15.1		2,403.0			837.8	418.2	1,186.0	2,442.0				
Fluid Name:		**Base Oil**																		
043	07/31/08	427.0			21.0					21.0									448.0	448.0
050	08/07/08	448.0												171.0		171.0			277.0	277.0
054	08/11/08	277.0												174.0		174.0			103.0	103.0
056	08/13/08	103.0												53.0		53.0			50.0	50.0
062	08/19/08	50.0												50.0		50.0				
Cumulative Volume					21.0					21.0				448.0		448.0				
Fluid Name:		**Slops**																		
057	08/14/08			244.7		17.3				262.0									262.0	262.0
058	08/15/08	262.0				51.0				51.0									313.0	313.0
060	08/17/08	313.0													301.0	301.0			12.0	12.0
061	08/18/08	12.0	129.7	349.0						478.7									490.7	490.7
062	08/19/08	490.7												10.0	465.7	475.7			15.0	15.0

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
063	08/20/08	15.0		21.3		88.7				110.0					125.0	125.0				
064	08/21/08			15.3		11.7				27.0									27.0	27.0
065	08/22/08	27.0				9.0				9.0									36.0	36.0
066	08/23/08	36.0		299.1		147.9				447.0									483.0	483.0
067	08/24/08	483.0		50.1						50.1					230.1	230.1			303.0	303.0
Cumulative Volume			129.7	979.5		325.6				1,434.8				10.0	1,121.8	1,131.8				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 05																				
Fluid Name:	**Seawater**																			
078	09/04/08		623.0							623.0									623.0	623.0
079	09/05/08	623.0											308.0			308.0			315.0	315.0
080	09/06/08	315.0											315.0			315.0				
084	09/10/08		405.0							405.0									405.0	405.0
085	09/11/08	405.0	414.0							414.0									819.0	819.0
088	09/14/08	819.0											819.0			819.0				
Cumulative Volume			1,442.0							1,442.0			1,442.0			1,442.0				
Fluid Name:	**ACCOLADE**																			
068	08/25/08	8.0												8.0		8.0				
Cumulative Volume														8.0		8.0				
Fluid Name:	**Brine**																			
068	08/25/08	1,147.1			1,105.0	95.0		8.7		1,208.7	5.0	26.0	179.1	100.0		310.1	984.8	275.0	785.8	2,045.6
069	08/26/08	2,045.6			704.0	76.0				780.0		28.4	25.0			53.4	1,124.8	265.0	1,382.5	2,772.3
070	08/27/08	2,772.2			602.0	40.0		29.0		671.0		52.0	819.8			871.8	1,051.9	680.0	839.5	2,571.4
071	08/28/08	2,571.4			145.0	14.0		13.9		172.9		48.0	76.0			124.0	1,124.8	206.0	1,289.5	2,620.3
072	08/29/08	2,620.2										38.6				38.6	1,095.2	160.0	1,326.5	2,581.7
073	08/30/08	2,581.6										48.0				48.0	1,042.2	194.5	1,297.0	2,533.7
074	08/31/08	2,533.7										37.0	17.0			54.0	1,042.2	145.0	1,292.5	2,479.7
075	09/01/08	2,479.7							270.0	270.0		40.5	15.0			55.5	1,042.2	114.0	1,538.0	2,694.2
076	09/02/08	2,694.2			660.0					660.0			223.0			223.0	1,042.2	45.0	2,044.0	3,131.2
077	09/03/08	3,131.2											333.0			333.0	1,042.2	111.0	1,645.0	2,798.2
079	09/05/08	2,798.2						2.5		2.5			243.0			243.0	964.6	332.0	1,261.0	2,557.6
080	09/06/08	2,557.6											62.0			62.0	964.6	332.0	1,199.0	2,495.6

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
081	09/07/08	2,495.6	660.0							660.0			199.8			199.8	1,124.8	333.0	1,498.0	2,955.8
082	09/08/08	2,955.8											26.0			26.0	1,124.8	333.0	1,472.0	2,929.8
083	09/09/08	2,929.8											7.0			7.0	1,124.8	333.0	1,465.0	2,922.8
084	09/10/08	2,922.8						5.2		5.2			365.7			365.7	918.3	345.0	1,299.0	2,562.3
085	09/11/08	2,562.3	410.4							410.4							1,124.8	357.0	1,491.0	2,972.8
086	09/12/08	2,972.8	4.0							4.0							1,124.8		1,852.0	2,976.8
088	09/14/08	2,976.8											1,852.0			1,852.0	1,124.8			1,124.8
Cumulative Volume			1,074.4		3,216.0	225.0		59.3	270.0	4,844.7	5.0	318.5	4,443.4	100.0		4,866.9				

Fluid Name: Slops

068	08/25/08	303.0		108.0		21.0				129.0									432.0	432.0
069	08/26/08	432.0											32.0			32.0			400.0	400.0
070	08/27/08	400.0											32.0			32.0			368.0	368.0
071	08/28/08	368.0													357.0	357.0			11.0	11.0
072	08/29/08	11.0											11.0			11.0				
Cumulative Volume				108.0		21.0				129.0			75.0		357.0	432.0				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 03																				
Fluid Name:	**ACCOLADE**																			
030	07/18/08	2,817.9			18.0					18.0							764.9	384.0	1,687.0	2,835.9
033	07/21/08	2,835.9				20.0				37.0							764.9	363.0	1,745.0	2,872.9
034	07/22/08	2,872.9				10.0				10.0							764.9	363.0	1,755.0	2,882.9
036	07/24/08	2,882.9		108.0		52.4				160.4							810.3	474.0	1,759.0	3,043.3
037	07/25/08	3,043.3					13.0	0.9		13.9	68.0		0.5			68.5	812.7	382.0	1,794.0	2,988.7
038	07/26/08	2,988.7					6.1			6.1	4.0	1.9				5.9	855.9	397.0	1,736.0	2,988.9
039	07/27/08	2,988.9						6.5		6.5							955.5	346.0	1,694.0	2,995.5
040	07/28/08	2,995.5					9.5	17.0		26.5	60.0	18.3	16.0			94.3	815.0	409.0	1,704.0	2,928.0
041	07/29/08	2,928.0				29.2	1.5			30.7							981.7	335.0	1,642.0	2,958.7
042	07/30/08	2,958.7		159.0				10.4		169.4							981.7	347.5	1,799.0	3,128.2
Cumulative Volume				267.0	18.0	111.6	30.1	34.8		478.5	132.0	20.2	16.5			168.7				
Fluid Name:	**Brine**																			
030	07/18/08	85.0	84.0							102.0									169.0	169.0
033	07/21/08	169.0	12.0							12.0									181.0	181.0
038	07/26/08	181.0	289.0							289.0									470.0	470.0
042	07/30/08	470.0	716.0							716.0									1,186.0	1,186.0
Cumulative Volume			1,101.0							1,119.0										
Fluid Name:	**Base Oil**																			
034	07/22/08	77.0			330.0					330.0									407.0	407.0
036	07/24/08	407.0												108.0		108.0			299.0	299.0
042	07/30/08	299.0			287.0					287.0				159.0		159.0			427.0	427.0
Cumulative Volume					617.0					617.0				267.0		267.0				

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 01		**From Report Date**	**06/19/2008**	**Top of Interval**	**0.0 m**
Max. Hole Size / Bit Size	**36.000 / 36.000 in**	**To Report Date**	**06/26/2008**	**Bottom of Interval**	**755.0 m**

Fluid Name: KCl/Polymer

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	9.86	6.79	12.92
caustic soda	0.03	0.02	0.04
lime	0.10	0.07	0.14

Fluid Name: PHB

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	23.50	22.30	25.61
caustic soda	0.09	0.07	0.12
lime	0.18	0.06	0.24

Fluid Name: Seawater

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	12.61	7.38	16.39
caustic soda	0.05	0.04	0.08
guar gum	0.46	0.09	0.68
lime	0.08	0.02	0.12

Fluid Name: Guar Gum

Material	Average ppb	Minimum ppb	Maximum ppb
guar gum	2.57	2.44	2.61

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 02		**From Report Date**	**06/27/2008**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size	**22.000 / 22.000 in**	**To Report Date**	**07/17/2008**	**Bottom of Interval**	**2,600.0 m**

Fluid Name: PHB

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	22.96	22.96	22.96
caustic soda	0.07	0.07	0.07
lime	0.24	0.24	0.24

Fluid Name: Guar Gum

Material	Average ppb	Minimum ppb	Maximum ppb
guar gum	2.61	2.61	2.61

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
barite	110.04	95.66	134.64
calcium chloride	18.32	10.27	23.42
Calcium chloride 94%	1.00	0.72	1.66
calcium chloride flake 77%	0.01	0.01	0.03
Circal 60/16	2.78	1.05	3.57
Circal Y	0.40	0.23	0.46
LE SUPERMUL	3.62	2.70	4.54
lime	0.03	0.02	0.04
Omyacarb 5	2.82	1.05	3.42
RHEMOD L	0.26	0.18	0.32
STEELSEAL	1.38	1.12	1.75
Tau Mod	1.25	0.10	1.80

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
barite	0.05	0.05	0.05
calcium chloride	301.90	252.12	774.60
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
LE SUPERMUL	0.00	0.00	0.00
lime	0.00	0.00	0.00
Omyacarb 5	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 03		**From Report Date**	**07/18/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**13.500 / 13.500 in**	**To Report Date**	**07/30/2008**	**Bottom of Interval**	**2,987.0 m**

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
barite	132.13	124.67	136.28
calcium chloride	22.09	19.94	23.27
Calcium chloride 94%	0.93	0.84	0.98
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	3.38	3.21	3.54
Circal Y	0.41	0.37	0.43
lime	0.02	0.02	0.03
Omyacarb 5	3.25	3.08	3.40
RHEMOD L	0.35	0.29	0.55
STEELSEAL	1.41	1.27	1.48
Tau Mod	1.82	1.66	1.94

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
barite	0.02	0.00	0.03
calcium chloride	416.31	114.73	751.77
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
lime	0.00	0.00	0.00
Omyacarb 5	0.00	0.00	0.00
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 04		**From Report Date**	**07/31/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Report Date**	**08/24/2008**	**Bottom of Interval**	**4,648.0 m**

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	0.00	0.00	0.00
barite	178.01	129.20	224.28
calcium chloride	15.84	12.53	20.45
Calcium chloride 94%	0.95	0.53	1.96
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	5.78	3.28	7.47
Circal Y	0.29	0.23	0.38
LE SUPERMUL	2.62	0.36	4.68
lime	0.02	0.01	0.02
LIQUI-VIS EP	0.00	0.00	0.00
N-VIS	0.00	0.00	0.00
Omyacarb 5	5.51	3.14	7.13
Radiagreen-EME	0.00	0.00	0.00
RHEMOD L	0.49	0.34	0.67
STEELSEAL	1.01	0.80	1.30
Tau Mod	2.46	1.93	3.17

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	3.11	2.22	5.38
barite	0.00	0.00	0.00
calcium chloride	73.81	36.41	114.73
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
lime	0.00	0.00	0.00
LIQUI-VIS EP	1.92	1.16	3.65
N-VIS	0.08	0.05	0.14
Omyacarb 5	0.00	0.00	0.00
Radiagreen-EME	1.00	0.72	1.74
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Fluid Name: **Slops**

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	0.63	0.00	1.73
barite	99.01	11.75	158.54
calcium chloride	12.95	5.33	23.50
Calcium chloride 94%	0.44	0.10	1.10
calcium chloride flake 77%	0.00	0.00	0.01
Circal 60/16	3.17	0.30	5.86
Circal Y	0.13	0.01	0.24
LE SUPERMUL	1.26	0.24	2.63
lime	0.01	0.00	0.01
LIQUI-VIS EP	0.30	0.00	0.72
N-VIS	0.01	0.00	0.03
Omyacarb 5	3.03	0.29	5.61
Radiagreen-EME	0.18	0.00	0.45
RHEMOD L	0.22	0.04	0.38
STEELSEAL	0.44	0.04	0.81
Tau Mod	1.28	0.15	2.26

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 05		**From Report Date**	**08/25/2008**	**Top of Interval**	**4,648.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Report Date**	**09/18/2008**	**Bottom of Interval**	**4,648.0 m**

Fluid Name: Seawater

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	9.79	6.48	13.11
caustic soda	0.03	0.02	0.05
guar gum	0.51	0.34	0.68
lime	0.09	0.06	0.11

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	0.00	0.00	0.00
barite	224.28	224.28	224.28
calcium chloride	12.55	12.55	12.55
Calcium chloride 94%	1.95	1.95	1.95
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	5.73	5.73	5.73
Circal Y	0.23	0.23	0.23
LE SUPERMUL	4.65	4.65	4.65
lime	0.01	0.01	0.01
LIQUI-VIS EP	0.00	0.00	0.00
N-VIS	0.00	0.00	0.00
Omyacarb 5	5.48	5.48	5.48
Radiagreen-EME	0.00	0.00	0.00
RHEMOD L	0.67	0.67	0.67
STEELSEAL	0.80	0.80	0.80
Tau Mod	3.17	3.17	3.17

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
ALDACIDE G	0.10	0.07	0.13
BARACOR 100	1.54	0.80	2.09
BARA-DEFOAM W300	0.02	0.01	0.02
BARAKLEAN PLUS	0.63	0.43	1.35
barite	0.00	0.00	0.00
calcium chloride	8.22	5.68	17.73
Calcium chloride 94%	2.79	0.00	3.81
calcium chloride flake 77%	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

caustic soda	0.12	0.03	0.18
Circal 60/16	0.00	0.00	0.00
CRW-24001	0.52	0.51	0.59
FLO-CLEAN MD	0.19	0.15	0.27
lime	0.00	0.00	0.00
LIQUI-VIS EP	0.85	0.59	1.83
N-VIS	0.08	0.05	0.17
Omyacarb 5	0.00	0.00	0.00
OXYGON (plant)	0.04	0.03	0.05
Radiagreen-EME	0.34	0.21	0.47
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Fluid Name: Slops

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	1.53	1.53	1.53
barite	13.39	13.39	13.39
calcium chloride	20.81	20.81	20.81
Calcium chloride 94%	0.12	0.12	0.12
calcium chloride flake 77%	0.00	0.00	0.00
caustic soda	0.01	0.01	0.01
Circal 60/16	0.34	0.34	0.34
Circal Y	0.01	0.01	0.01
LE SUPERMUL	0.28	0.28	0.28
lime	0.00	0.00	0.00
LIQUI-VIS EP	0.93	0.93	0.93
N-VIS	0.06	0.06	0.06
Omyacarb 5	0.33	0.33	0.33
Radiagreen-EME	0.40	0.40	0.40
RHEMOD L	0.04	0.04	0.04
STEELSEAL	0.05	0.05	0.05
Tau Mod	0.18	0.18	0.18

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : Water-Based Fluid

Date	Depth	FL Temp	Density	Funn Visc	Rheology 25 Deg C					Filtration					Filtrate Analysis						MBT	Sand	Retort Analysis				Rheometer Dial Readings					
					PV	lbs/100 ft2				API	HTHP	Cake API	Cake HTHP	Temp	pH	Pm	Pf	Mf	Cl	Total Hardness	ppb Eq.	% by vol	% by vol				600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	ml/30 min	32nd in		Deg C		ml	ml	ml	mg/l	mg/l			Corr Solid	LGS	NAP Base	Water						
Interval # 01										**From Date**				**06/19/2008**						**Top of Interval**			**0.0**		**m**						
Max. Hole Size / Bit Size 36.000 / 36.000 in										**To Date**				**06/27/2008**						**Bottom of Interval**			**755.0**		**m**						
06/21/2008	0		9.60	180	25	70																				99	120.0	95.0	85.0	75.0	60.0	55.0
06/22/2008	0		9.60	180	25	70																				99	120.0	95.0	85.0	75.0	60.0	55.0
06/23/2008	0		9.60	155	20	70	55	60	70																	99	110.0	90.0	85.0	75.0	55.0	52.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 02										**From Date**				**06/28/2008**						**Top of Interval**			**755.0**		**m**					
Max. Hole Size / Bit Size 22.000 / 22.000 in										**To Date**				**07/17/2008**						**Bottom of Interval**			**2,600.0**		**m**					
06/30/2008	758	25	12.00	70	31	14	8	12	14	4.0	1	120	380			273,577	29.12	2.56			17.5	5.4	56.0	24.0	70/30	76.0	45.0	35.0	23.0	7.0	6.0
06/30/2008	1,038	32	11.90	85	32	24	11	12	12	2.0	1	120	535			194,058	17.47	6.16			18.1	6.7	52.0	28.0	65/35	88.0	56.0	43.0	31.0	10.0	9.0
06/30/2008	1,244	49	11.90	76	35	33	15	19		4.0		120	580			215,968	26.07				15.1	0.7	56.0	27.0	67.5/32.5	103.0	68.0	55.0	40.0	16.0	14.0
06/30/2008	1,424	52	12.00	78	37	37	15	20		4.4	1	120	570			173,349	20.58				16.5	2.4	54.0	28.0	65.9/34.1	111.0	74.0	60.0	43.0	16.0	15.0
07/01/2008	1,505	60	12.10	76	35	38	10	17	19	4.2	1	120	590			302,408	40.77	3.30			16.5	4.7	51.0	29.0	63.7/36.3	108.0	73.0	59.0	41.0	16.0	15.0
07/01/2008	1,542	61	12.10	78	45	40	17	19	19	2.4	1	120	573			206,954	24.70				17.2	3.5	54.0	27.0	66.7/33.3	130.0	85.0	67.0	47.0	17.0	15.0
07/01/2008	1,599	64	12.00	70	46	39	16	18	19	2.8	1	120	596			231,424	27.44				17.0	4.0	55.0	26.0	67.9/32.1	131.0	85.0	67.0	47.0	17.0	14.0
07/01/2008	1,685	66	12.10	78	35	36	14	19	19	4.0	1	120	574			250,717	24.27	6.23			17.5	4.7	54.0	26.0	67.5/32.5	106.0	71.0	56.0	39.0	15.0	13.0
07/02/2008	1,808	69	12.00	71	39	36	15	18		3.0	1	120	516			256,211	30.18				17.7	5.9	55.0	25.0	68.8/31.2	114.0	75.0	60.0	42.0	15.0	13.0
07/02/2008	1,904	71	12.00	74	48	43	17	21	21	3.0	1	120	520			283,783	25.24	8.09			17.2	4.9	56.0	24.0	70/30	139.0	91.0	73.0	51.0	17.0	15.0
07/02/2008	2,003	74	11.90	69	49	42	18	21	20	3.0	1	120	535			284,097	24.27	9.12			17.1	5.6	56.0	24.0	70/30	140.0	91.0	76.0	52.0	18.0	15.0
07/02/2008	2,031	67	12.00	72	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94			17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/03/2008	2,031		12.00	75	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94			17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/03/2008	2,031		12.00	126	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94		0.2	17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/04/2008	2,140	67	12.00	71	41	33	15	19	19	3.0		120	460			264,068	30.18			1.0	18.7	7.9	55.0	24.0	69.6/30.4	115.0	74.0	58.0	40.0	16.0	14.0
07/04/2008	2,347	70	12.00	78	43	38	16	19	20	3.0	1	120	490			255,127	28.81			0.5	18.8	7.9	55.0	24.0	69.6/30.4	124.0	81.0	62.0	44.0	16.0	13.0
07/04/2008	2,405	70	12.00	84	41	38	16	19	19	4.0	1	120	495			245,966	27.44			0.5	18.0	5.9	56.0	24.0	70/30	120.0	79.0	60.0	42.0	16.0	14.0
07/04/2008	2,405	70	12.00	78	41	38	16	19	19	4.0	1	120	465			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	120.0	79.0	62.0	42.0	16.0	14.0
07/05/2008	2,405	70	12.00	71	38	38	14	19	19	4.0	1	120	545			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	114.0	76.0	58.0	40.0	15.0	13.0
07/05/2008	2,433	70	12.00	74	49	41	16	19	21	3.0	1	120	530			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	139.0	90.0	72.0	49.0	16.0	14.0
07/05/2008	2,434	70	12.00	74	45	37	15	21	21	3.0	1	120	574			264,401	29.12	1.12		0.5	17.7	5.6	56.0	24.0	70/30	127.0	82.0	65.0	45.0	16.0	14.0
07/06/2008	2,578	71	12.00	71	43	36	15	20	20	3.0	1	120	570			282,116	29.12	2.56		0.8	19.5	9.5	55.0	23.0	70.5/29.5	122.0	79.0	62.0	43.0	16.0	14.0
07/06/2008	2,600	70	12.00	63	40	35	15	19	20	3.0	2	120	550			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0
07/06/2008	2,600		12.00	70	40	35	15	19	19	3.0	1	120	547			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0
07/07/2008	2,600		12.00	84	40	35	15	19	19	3.0	1	120	556			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
07/07/2008	2,600		12.10	90	37	36	15	19	19	3.0	2	120	550			272,761	29.12	1.12		0.5	19.7	9.0	55.0	23.0	70.5/29.5	110.0	73.0	60.0	42.0	14.0	12.0
07/07/2008	2,600		12.20	135	37	36	14	19	19	2.5	2	120	629			281,667	29.12	1.12		0.5	19.6	8.1	56.0	22.0	71.8/28.2	110.0	73.0	60.0	42.0	14.0	12.0
07/08/2008	2,600		12.20	135	37	36	14	19	19	3.0	2	120	574			272,761	29.12	1.12		0.5	19.7	8.2	55.0	23.0	70.5/29.5	110.0	73.0	60.0	42.0	14.0	12.0
07/08/2008	2,600		12.20	135	34	29	14	18	19	3.0	2	120	700			300,493	29.12	4.01		0.3	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/08/2008	2,600		12.20	135	34	29	14	19	19	3.0	2	120	657			300,493	29.12	4.01		0.5	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/09/2008	2,600		12.20	135	34	29	14	19	19	3.0	2	120	684			300,493	29.12	4.01		0.5	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/09/2008	2,600	41	12.10	96	46	32	15	19	20	3.0	2	120	500			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/09/2008	2,600		12.10	112	44	32	15	19	19	3.0	2	120	476			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	59.0	40.0	15.0	13.0
07/10/2008	2,600		12.10	120	44	32	15	19	19	3.0	2	120	547			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	59.0	40.0	15.0	13.0
07/10/2008	2,600		12.10	150	46	32	15	19	20	3.0	2	120	520			320,899	29.12	4.01		0.3	19.3	8.1	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/10/2008	2,600		12.10	120	44	32	15	19	20	3.0	2	120	520			320,899	29.12	4.01		0.3	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	60.0	41.0	15.0	14.0
07/11/2008	2,600		12.20	98	46	32	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/11/2008	2,600		12.20	100	44	45	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/12/2008	2,600		12.20	98	44	44	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	132.0	88.0	69.0	50.0	17.0	14.0
07/12/2008	2,600		12.20	100	44	45	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/13/2008	2,600		12.20	100	44	45	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/13/2008	2,600		12.20	98	44	44	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	132.0	88.0	69.0	50.0	17.0	14.0
07/14/2008	2,600		12.15	96	46	32	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	20.3	9.8	57.0	20.0	74/26	124.0	78.0	61.0	42.0	15.0	13.0
07/14/2008	2,600		12.15	98	45	33	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	20.3	9.8	57.0	20.0	74/26	123.0	78.0	62.0	41.0	15.0	13.0
07/15/2008	2,600		12.10	133	34	29	13	17	18	3.0	2	120	490			283,156	27.18	6.05		0.3	21.3	12.8	52.0	24.0	68.4/31.6	97.0	63.0	50.0	34.0	13.0	11.0
07/15/2008	2,600		12.10	130	32	31	13	17	18	3.0	2	120	490			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	95.0	63.0	50.0	34.0	13.0	11.0
07/16/2008	2,600		12.15	126	50	30	13	19	21	4.0	2	120	450			282,526	29.12	4.01		0.3	21.3	12.6	52.0	24.0	68.4/31.6	130.0	80.0	60.0	40.0	14.0	11.0
07/16/2008	2,600		12.15	125	44	31	13	18	20	3.0	2	120	400			273,577	29.12	2.56		0.3	21.5	12.8	52.0	24.0	68.4/31.6	119.0	75.0	54.0	36.0	13.0	11.0
07/17/2008	2,600		12.10	125	45	32	13	18	20	3.0	2	120	400			264,401	29.12	1.12		0.3	21.7	13.3	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	14.0	11.0
07/17/2008	2,600		12.10	123	43	34	13	18	21	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	120.0	77.0	55.0	36.0	13.0	11.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 03										**From Date**				**07/18/2008**							**Top of Interval**			**2,600.0**	**m**					
Max. Hole Size / Bit Size			**13.500 / 13.500 in**							**To Date**				**07/30/2008**							**Bottom of Interval**			**2,987.0**	**m**					
07/18/2008	2,600		12.10	122	45	32	13	18	20	3.0	2	120	400			255,127	28.81			0.3	21.8	13.5	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	13.0	11.0
07/18/2008	2,600		12.10	123	43	35	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	121.0	78.0	58.0	40.0	13.0	11.0
07/19/2008	2,600		12.10	122	43	35	13	18	20	3.0	2	120	400			264,070	30.09	0.10			21.7	13.4	52.0	24.0	68.4/31.6	121.0	78.0	58.0	40.0	13.0	11.0
07/19/2008	2,600		12.10	122	44	34	13	19	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	122.0	78.0	60.0	40.0	13.0	11.0
07/20/2008	2,600		12.10	120	45	32	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	122.0	77.0	58.0	43.0	13.0	11.0
07/20/2008	2,600		12.10	123	44	33	13	18	20	3.0	2	120	400			264,401	29.12	1.12		0.3	21.7	13.3	52.0	24.0	68.4/31.6	121.0	77.0	59.0	43.0	13.0	11.0
07/21/2008	2,600		12.10	122	43	34	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	120.0	77.0	58.0	37.0	13.0	11.0
07/21/2008	2,600		12.10	120	45	32	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	122.0	77.0	59.0	35.0	13.0	11.0
07/22/2008	2,600		12.10	122	45	32	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	13.0	11.0
07/22/2008	2,600		12.10	121	43	34	13	18	20	3.0	2	120	400			278,930	19.41	13.13	9.77	0.3	21.1	12.2	52.0	24.0	68.4/31.6	120.0	77.0	55.0	36.0	13.0	11.0
07/23/2008	2,600		12.20	128	45	32	13	18	20	3.0	2	120	400			264,070	30.09	0.10			21.7	12.7	52.0	24.0	68.4/31.6	122.0	77.0	61.0	41.0	14.0	11.0
07/23/2008	2,600		12.20	125	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/24/2008	2,600		12.20	125	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/24/2008	2,600		12.20	125	45	33	15	18	20	3.0	2	120	400			281,320	30.18			0.3	21.7	12.4	54.0	22.0	71.1/28.9	123.0	78.0	61.0	42.0	14.0	11.0
07/25/2008	2,600		12.20	128	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/25/2008	2,600		12.20	125	44	34	13	18	21	3.0		120	400			264,070	30.09	0.10			21.7	12.7	52.0	24.0	68.4/31.6	122.0	78.0	61.0	42.0	13.0	11.0
07/25/2008	2,642	110	12.00	108	37	21	12	18	21	2.0	2	120	397			232,486	24.27	3.34			18.8	8.0	53.0	26.0	67.1/32.9	95.0	58.0	44.0	29.0	10.0	8.0
07/25/2008	2,790	57	12.00	85	42	36	15	18	21	2.0	2	120	417			360,481	49.39			0.3	18.0	8.9	53.0	25.0	67.9/32.1	120.0	78.0	58.0	39.0	13.0	11.0
07/26/2008	2,841		12.00	83	42	37	15	18	21	2.0	2	120	408			340,675	45.28			0.3	18.4	9.2	53.0	25.0	67.9/32.1	121.0	79.0	61.0	40.0	13.0	11.0
07/26/2008	2,841		12.00	86	43	35	14	18	21	2.0	1	120	400			326,775	42.53				18.6	9.4	53.0	25.0	67.9/32.1	121.0	78.0	61.0	40.0	13.0	12.0
07/27/2008	2,849	48	12.00	120	44	29	12	15	18	3.5	2	120	309			342,936	43.90			0.3	18.5	9.2	54.0	24.0	69.2/30.8	117.0	73.0	53.0	32.0	11.0	10.0
07/27/2008	2,896	50	12.10	84	48	19	12	15	18	4.0	2	120	331			264,068	30.18			0.3	20.7	11.3	53.0	24.0	68.8/31.2	115.0	67.0	50.0	34.0	11.0	8.0
07/27/2008	2,895		12.15	128	45	20	12	15	18	4.0	2	120	328			272,796	31.56			0.3	19.6	8.8	54.0	24.0	69.2/30.8	110.0	65.0	49.0	34.0	11.0	8.0
07/28/2008	2,895		12.15	128	40	22	12	16	18	5.0	2	120	431			313,508	38.42			0.3	18.0	6.3	55.0	24.0	69.6/30.4	102.0	62.0	49.0	30.0	11.0	8.0
07/28/2008	2,896		12.00	110	40	26	13	17	19	5.0	2	120	360			272,796	31.56				18.6	7.8	55.0	24.0	69.6/30.4	106.0	66.0	50.0	31.0	12.0	8.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
07/28/2008	2,960	53	12.10	95	42	36	13	17	20	4.0	2	120	398			264,068	30.18				19.7	9.2	54.0	24.0	69.2/30.8	120.0	78.0	52.0	37.0	13.0	11.0
07/28/2008	2,987	59	12.00	78	44	32	15	18	21	4.0	2	120	510			264,068	30.18				18.7	7.9	55.0	24.0	69.6/30.4	120.0	76.0	59.0	41.0	14.0	12.0
07/29/2008	2,987		12.00	83	44	32	15	18	21	4.0	2	120	507			255,127	28.81				18.8	7.9	55.0	24.0	69.6/30.4	120.0	76.0	59.0	41.0	14.0	12.0
07/29/2008	2,987		12.10	102	45	31	14	18	21	4.0	2	120	498			245,966	27.44				19.0	7.2	55.0	24.0	69.6/30.4	121.0	76.0	60.0	40.0	14.0	12.0
07/29/2008	2,987		12.20	130	36	31	13	16	19	4.0	2	120	491			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	103.0	67.0	50.0	34.0	13.0	11.0
07/30/2008	2,987		12.20	130	36	31	13	16	19	4.0	2	120	493			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	103.0	67.0	50.0	34.0	13.0	11.0
07/30/2008	2,987		12.20	132	36	32	13	16	18	4.0	2	120	481			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	104.0	68.0	51.0	36.0	14.0	12.0
07/30/2008	2,987		12.20	132	36	33	13	16	18	4.0	2	120	490			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	105.0	69.0	51.0	37.0	14.0	12.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 04										**From Date**				**07/31/2008**							**Top of Interval**			**2,600.0**		**m**				
Max. Hole Size / Bit Size 9.500 / 9.500 in										**To Date**				**08/24/2008**							**Bottom of Interval**			**4,648.0**		**m**				
07/31/2008	2,987		12.20	132	36	33	13	16	18	4.0	2	120	492			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	105.0	69.0	51.0	37.0	14.0	12.0
07/31/2008	2,987		9.50	100	70	35	9	15	23			120	12			73,162	3.40	13.76		0.1	6.2	2.4	30.0	62.0	32.6/67.4	175.0	105.0	77.0	47.0	11.0	8.0
07/31/2008	2,987		12.00	110	37	36	12	18	21	5.0	2	120	310			231,424	27.44				18.0	6.1	54.0	26.0	67.5/32.5	110.0	73.0	50.0	32.0	12.0	10.0
08/01/2008	2,600		12.00	118	38	36	12	18	21	5.0	2	120	307			231,424	27.44				18.0	6.1	54.0	26.0	67.5/32.5	112.0	74.0	49.0	33.0	12.0	10.0
08/01/2008	2,600		12.00	123	37	36	12	18	21	5.0	2	120	304			240,216	28.81				17.9	6.1	54.0	26.0	67.5/32.5	110.0	73.0	50.0	34.0	13.0	11.0
08/02/2008	2,600		12.10	125	37	36	12	18	21	5.0	2	120	310			240,216	28.81				17.9	5.3	54.0	26.0	67.5/32.5	110.0	73.0	50.0	34.0	13.0	11.0
08/02/2008	2,702	36	12.10	86	47	24	10	19	26	4.0	2	120	480			238,538	27.18	0.27			18.0	5.2	55.0	25.0	68.8/31.2	118.0	71.0	54.0	35.0	12.0	10.0
08/02/2008	2,714	59	12.00	92	45	30	15	21	26	4.0	2	120	640			255,329	28.15	0.70			17.8	5.7	56.0	24.0	70/30	120.0	75.0	59.0	39.0	14.0	12.0
08/03/2008	2,724	60	12.00	96	45	33	15	23	27	4.0	2	120	702			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	123.0	78.0	60.0	40.0	14.0	12.0
08/03/2008	2,841	60	12.00	96	45	35	14	25	29	4.0	2	120	710			256,007	26.21	2.74		0.3	18.7	7.7	55.0	24.0	69.6/30.4	125.0	80.0	62.0	41.0	16.0	13.0
08/03/2008	2,976	63	12.00	92	45	32	14	25	29	4.0	2	120	650			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	122.0	77.0	60.0	40.0	13.0	11.0
08/04/2008	3,037	63	12.00	93	44	34	15	26	29	4.0	2	120	652			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	122.0	78.0	61.0	41.0	14.0	12.0
08/04/2008	3,169	63	12.00	81	52	35	15	27	31	5.0	2	120	750			272,222	28.15	0.70		0.3	20.8	11.8	55.0	22.0	71.4/28.6	139.0	87.0	67.0	44.0	14.0	11.0
08/04/2008	3,288	64	12.10	85	48	27	14	25	29	3.5	2	120	785			271,562	27.44			0.5	20.9	11.0	56.0	21.0	72.7/27.3	123.0	75.0	58.0	38.0	13.0	11.0
08/05/2008	3,337	64	12.00	80	47	31	14	25	29	3.0	2	120	759			281,320	27.44			0.5	19.9	9.5	58.0	20.0	74.4/25.6	125.0	78.0	60.0	40.0	13.0	10.0
08/05/2008	3,525	64	12.00	80	44	27	14	22	27	4.0	2	120	760			281,320	27.44			0.3	19.9	9.5	58.0	20.0	74.4/25.6	115.0	71.0	54.0	36.0	13.0	11.0
08/05/2008	2,577	64	12.00	78	40	31	14	25	29	4.0	2	120	760			302,419	26.21	4.18		0.5	17.5	4.8	60.0	20.0	75/25	111.0	71.0	55.0	37.0	12.0	10.0
08/06/2008	3,577		12.00	100	40	31	14	25	29	4.0	2	120	760			302,419	26.21	4.18		0.5	17.5	4.8	60.0	20.0	75/25	111.0	71.0	55.0	37.0	12.0	10.0
08/06/2008	3,577		12.10	120	45	31	14	22	27	5.0	2	120	750			291,877	27.18	1.72		0.1	17.7	4.3	60.0	20.0	75/25	121.0	76.0	59.0	39.0	13.0	11.0
08/06/2008	3,577		12.10	110	43	31	14	23	27	5.0	2	120	750			291,877	27.18	1.72		0.5	17.7	4.3	60.0	20.0	75/25	117.0	74.0	57.0	38.0	13.0	11.0
08/07/2008	3,577	40	11.90	105	49	26	13	25	29	5.0	2	120	760			291,509	28.15	0.70		0.5	17.8	5.9	60.0	20.0	75/25	124.0	75.0	56.0	36.0	11.0	9.0
08/07/2008	3,678	63	12.00	80	44	27	14	22	27	5.0	2	120	600			272,222	28.15	0.70		0.3	17.8	5.5	58.0	22.0	72.5/27.5	115.0	71.0	54.0	35.0	12.0	10.0
08/07/2008	3,737	57	12.10	81	42	32	14	25		5.0	2	120	600			272,222	28.15	0.70		0.3	17.8	4.7	58.0	22.0	72.5/27.5	116.0	74.0	58.0	39.0	13.0	10.0
08/08/2008	3,864	52	12.00	80	44	33	15	25	29	5.6	2	120	540			272,011	28.81			0.3	17.8	5.5	58.0	22.0	72.5/27.5	121.0	77.0	59.0	39.0	13.0	11.0
08/08/2008	4,086	66	12.00	71	41	33	14	24	27	5.4	2	120	500			282,011	28.15	2.14		0.3	19.6	9.5	56.0	22.0	71.8/28.2	115.0	74.0	56.0	37.0	12.0	9.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
08/08/2008	4,161	66	12.00	75	40	41	18	29	35	4.5	2	120	450			301,346	29.12	1.12		0.3	19.6	9.3	58.0	20.0	74.4/25.6	121.0	81.0	74.0	44.0	15.0	12.0
08/09/2008	4,289	66	12.00	73	47	40	18	32	34	4.0	2	120	430			301,704	28.15	2.14		0.3	19.6	9.2	58.0	20.0	74.4/25.6	134.0	87.0	68.0	45.0	15.0	12.0
08/09/2008	4,521	66	12.10	77	60	35	15	24	27	5.0	2	120	425			291,174	29.12	1.12		0.3	18.6	6.6	58.0	21.0	73.4/26.6	155.0	95.0	74.0	49.0	14.0	12.0
08/09/2008	4,558	66	12.10	75	60	33	15	24	27	5.0	2	120				291,174	29.12	1.12		0.3	18.6	6.6	58.0	21.0	73.4/26.6	153.0	93.0	72.0	48.0	15.0	12.0
08/10/2008	4,648	66	12.00	71	56	42	17	27	33	3.6	2	120	400			281,320	27.44			0.3	20.9	11.6	57.0	20.0	74/26	154.0	98.0	84.0	56.0	18.0	14.0
08/10/2008	4,648	33	12.10	77	56	38	15	23	29	4.0	2	120	410			291,289	28.81			0.3	19.8	8.7	58.0	20.0	74.4/25.6	150.0	94.0	75.0	50.0	14.0	11.0
08/10/2008	4,648		12.10	80	56	37	15	25	29	3.8	2	120	400			281,320	27.44			0.3	20.9	10.9	57.0	20.0	74/26	149.0	93.0	77.0	53.0	14.0	11.0
08/11/2008	4,648		12.10	78	57	36	15	25	30	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	150.0	93.0	73.0	53.0	15.0	11.0
08/11/2008	4,648		12.10	77	60	35	14	23	27	4.0	2	120	410			281,320	27.44			0.3	19.9	8.8	58.0	20.0	74.4/25.6	155.0	95.0	74.0	49.0	14.0	12.0
08/11/2008	4,648		12.20	85	60	33	15	24	27	3.9	2	120	400			281,320	27.44			0.3	19.9	8.0	58.0	20.0	74.4/25.6	153.0	93.0	72.0	48.0	15.0	12.0
08/12/2008	4,648		12.10	110	60	35	15	23	27	4.0	2	120	400			281,320	27.44			0.1	19.9	8.8	58.0	20.0	74.4/25.6	155.0	95.0	74.0	49.0	14.0	12.0
08/12/2008	4,648		12.10	110	59	35	15	24	29	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	153.0	94.0	73.0	52.0	15.0	12.0
08/13/2008	4,648		12.10	110	55	35	15	22	26	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	145.0	90.0	69.0	45.0	14.0	11.0
08/13/2008	4,648		12.20	123	52	38	15	22	26	4.0	2	120	410			291,509	28.15	0.70		0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/14/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	407			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/14/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	410			291,509	28.15	0.70		0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/15/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	406			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/15/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	412			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/16/2008	4,648		12.20	125	52	39	15	21	25	4.0	2	120	407			291,509	28.15	0.70		0.1	19.8	7.9	58.0	20.0	74.4/25.6	143.0	91.0	69.0	44.0	14.0	11.0
08/16/2008	4,648		12.20	125	52	38	15	22	25	4.0	2	120	408			291,289	28.81				19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/16/2008	4,648	38	12.30	134	55	35	14	25	29	4.0	2	120	305			262,458	27.44			0.2	19.9	7.6	56.0	22.0	71.8/28.2	145.0	90.0	68.0	40.0	13.0	11.0
08/17/2008	4,648		12.30	134	55	35	14	25	29	4.0	2	120	306			262,526	27.18	0.27		0.2	19.9	7.5	56.0	22.0	71.8/28.2	145.0	90.0	69.0	41.0	13.0	11.0
08/17/2008	4,648		12.10	135	58	34	10	19	20	5.0	2	120	250			231,487	27.18	0.27			18.0	5.4	54.0	26.0	67.5/32.5	150.0	92.0	67.0	40.0	11.0	8.0
08/18/2008	4,648		12.00	146	58	23	10	19	21	5.8	2	120	242			233,396	28.81				17.9	6.2	53.0	27.0	66.2/33.8	139.0	81.0	59.0	35.0	10.0	8.0
08/18/2008	4,648		11.90	163	63	23	10	18	20	6.0	2	120	175			220,854	28.81				15.9	3.0	53.0	29.0	64.6/35.4	149.0	86.0	62.0	36.0	10.0	7.0
08/19/2008	4,648		12.00	163	63	23	10	18	20	6.0	2	120	174			220,854	28.81				15.9	2.3	53.0	29.0	64.6/35.4	149.0	86.0	62.0	36.0	10.0	8.0
08/19/2008	4,648		12.10	159	66	23	10	22	25	6.0	2	120	180			226,952	28.81				15.9	1.4	54.0	28.0	65.9/34.1	155.0	89.0	64.0	38.0	10.0	7.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
08/19/2008	4,648		11.55		94	112	13	24	29				31			169,124	35.67				11.5	0.1	36.0	50.0	41.9/58.1	300.0	206.0	140.0	82.0	13.0	9.0
08/20/2008	4,648		12.00	159	66	23	10	22	25	6.0	2	120	179			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	155.0	89.0	64.0	38.0	10.0	7.0
08/20/2008	4,648	40	12.00	120	60	23	10	22	25	6.0	2	120	218			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	143.0	83.0	60.0	37.0	10.0	7.0
08/21/2008	4,648	40	11.90	120	60	23	10	22	25	6.0	2	120	224			226,952	28.81				15.9	2.9	54.0	28.0	65.9/34.1	143.0	83.0	60.0	37.0	10.0	7.0
08/21/2008	4,648	40	11.90	122	57	29	10	22	25	6.0	2	120	236			226,952	28.81				15.9	2.9	54.0	28.0	65.9/34.1	143.0	86.0	61.0	39.0	11.0	8.0
08/22/2008	4,648		12.00	124	58	27	1	22	25	6.0	2	120	228			218,506	27.44				16.0	2.2	54.0	28.0	65.9/34.1	143.0	85.0	61.0	40.0	11.0	8.0
08/22/2008	4,648		12.00	128	58	27	10	22	25	6.0	2	120	230			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	143.0	85.0	61.0	40.0	11.0	8.0

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig Name	**West Triton**
Unit System	**Nexus Energy**

Fluid Program Exception Report

Report No	Date	Time	Depth m	Property Name	Unit System	Actual Value	Exception	Program Min	Program Max
011	06/29/2008	10:00	755	Density	ppg	9.10	Low	12.00	12.20
013	07/01/2008	4:15	1,505	Density	ppg	12.10	High	9.50	12.00
013	07/01/2008	13:30	1,542	Density	ppg	12.10	High	9.50	12.00
013	07/01/2008	21:30	1,685	Density	ppg	12.10	High	9.50	12.00
019	07/07/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
019	07/07/2008	21:30	2,600	Density	ppg	12.20	High	9.50	12.00
019	07/07/2008	21:30	2,600	Electrical Stability	volt	629	High	300	600
020	07/08/2008	16:00	2,600	Density	ppg	12.20	High	9.50	12.00
020	07/08/2008	21:00	2,600	Density	ppg	12.20	High	9.50	12.00
020	07/08/2008	21:00	2,600	Electrical Stability	volt	657	High	300	600
020	07/08/2008	16:00	2,600	Electrical Stability	volt	700	High	300	600
020	07/08/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
021	07/09/2008	20:00	2,600	Density	ppg	12.10	High	9.50	12.00
021	07/09/2008	2:00	2,600	Density	ppg	12.20	High	9.50	12.00
021	07/09/2008	2:00	2,600	Electrical Stability	volt	684	High	300	600
021	07/09/2008	15:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	2:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
023	07/11/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
023	07/11/2008	22:00	2,600	Density	ppg	12.20	High	9.50	12.00
024	07/12/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
024	07/12/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
025	07/13/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
025	07/13/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
026	07/14/2008	15:00	2,600	Density	ppg	12.15	High	9.50	12.00
026	07/14/2008	22:00	2,600	Density	ppg	12.15	High	9.50	12.00
027	07/15/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
027	07/15/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig Name	**West Triton**
Unit System	**Nexus Energy**

Fluid Program Exception Report

Report No	Date	Time	Depth m	Property Name	Unit System	Actual Value	Exception	Program Min	Program Max
028	07/16/2008	11:00	2,600	Density	ppg	12.15	High	9.50	12.00
028	07/16/2008	22:00	2,600	Density	ppg	12.15	High	9.50	12.00
029	07/17/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
029	07/17/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00
030	07/18/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00
030	07/18/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
031	07/19/2008	14:30	2,600	Density	ppg	12.10	High	9.50	12.00
031	07/19/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
032	07/20/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
032	07/20/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
033	07/21/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
033	07/21/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
034	07/22/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
034	07/22/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
035	07/23/2008	22:00	2,600	Density	ppg	12.20	High	9.50	12.00
035	07/23/2008	8:00	2,600	Density	ppg	12.20	High	9.50	12.00
036	07/24/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
036	07/24/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
037	07/25/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
037	07/25/2008	7:00	2,600	Density	ppg	12.20	High	9.50	12.00

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**01**		**From Date**	**001**	**Top of Interval**	**.0**	**m**
Max. Hole Size / Bit Size	**36.000 / 36.000**	**in**	**To Date**	**008**	**Bottom of Interval**	**755.0**	**m**

For Report # 001 On 06/19/2008	**Operation at Depth .0 m**
Rig Activity	Rig on tow to location. Jacking @ preload air gap. Start preload. Release Pacific Valkyrie. Slip and cut drilling line 86ft. Draw works calibration, finish preload. Hold for 2 hrs 100%. Dump preload. Release Pacific Battler from Bow.
Activity	Pre load
Fluid Treatment	.
For Report # 002 On 06/20/2008	**Operation at Depth 96.0 m**
Rig Activity	Dump pre-load. Jack up rig to 17ft air gap. Prepare rig for skidding. Skid cantilever out. Install gumbo hose. Cont. skidding in to drilling position. Install HP mud hoses. Pick up BHA. Make 30" running tool. Pick up and make up BHA & lay out stabilizer. Sea level @ 39.9m
Activity	Pick up BHA
Fluid Treatment	Build 1680 bbls of 35 ppb PBH. Took 860 bbls KCL /Polymer mud from the Battler. To be used as displacement fluid. Received and dumped +/- 100bbls dirty water from the boat, used for flushing boats tanks. Flocculated PHB with sea water (75/25 or 67/33 to required viscosity) and added 0.275 ppb lime, prior to pumping as sweeps.
For Report # 003 On 06/21/2008	**Operation at Depth 132.0 m**
Rig Activity	Cont. RIH with 26" BHA to 97m. Drill ahead from 97m to 132m, pumping 75 bbl sweeps. Pump 200 bbl gel and displace hole with 280 bbl Inhibited mud @ TD. POOH to surface. Install 30" conductor handling tools. Pick up 30" conductor and wellhead and RIH. Set @ 128.86m. Wellhead stick up 1.93m. Rig up cement lines, pump cement slurry @ 15.8ppg. Wait on cement. Release 30" conductor running tool.
Activity	Rig up and rig down
Fluid Treatment	Made 160 bbls cement mix water, 8.25 ppb calcium chloride.
For Report # 004 On 06/22/2008	**Operation at Depth 374.0 m**
Rig Activity	Cont. break out running tool. Lay out BHA. Pick up and make up 22" BHA. RIH to 95m and shallow test MWD tools. Attempt to stab in. No success. Launch ROV unit, guide to stab in well head @ 95.13m. Install master bushing. Cont. RIH with 22" BHA, tag cement @ 124.87m. Drill cement from 124.87m to 132.8m. Drilled 22" hole from 132.8m to 374m, pumping 50 bbl gel sweeps.
Activity	Drilling
Fluid Treatment	Cut back 35ppb PHB with sea water 7:3 and add 0.3ppb lime for viscosity prior to pumping as sweeps. Mixed 450 bbl Guar Gum, 630 bbl PHB today.
For Report # 005 On 06/23/2008	**Operation at Depth 749.0 m**
Rig Activity	Cont. drilling 22" hole from 374m to 749m. Pumping 3 X 50 bbl sweeps per stand. Using guar gum sweeps in the middle of the stand.
Activity	Drilling
Fluid Treatment	Cut back 35ppb PHB with sea water 7:3 and add 0.1-0.3 ppb lime for viscosity prior to pumping as sweeps.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**01**		**From Date**	**001**	**Top of Interval**	**.0**	**m**
Max. Hole Size / Bit Size	**36.000 / 36.000**	**in**	**To Date**	**008**	**Bottom of Interval**	**755.0**	**m**

	Mixed 750 bbls Guar gum Mixed 920 bbl PHB mud.
For Report # 006 On 06/24/2008	**Operation at Depth 755.0 m**
Rig Activity	Cont. drilling 22" hole from 749m to 755m. Pumped 150 bbl PHB sweep. Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer mud. POOH to 741m, 30k overpull. Work through tight spots with pumps. POOH to 402m. Service top drive. POOH and lay down BHA. Make up 18 3/4" wellhead. RIH to 90m, try to stab 16" casing in the wellhead. Launch ROV, stabb in well head. RIH to 145m. Bend bails latches on top drive. Rig them down for repair.
Activity	Repair rig
Fluid Treatment	Pumped 150 bbl PHB sweep @ TD Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer to completely displace hole.
For Report # 007 On 06/25/2008	**Operation at Depth 755.0 m**
Rig Activity	Cont. repairs on top drive bail latches. RIH with 16" casing to 647m. Pick up 20 X 16" crossover and make up to 16" casing. Land off. RIH with 5 1/2" drill pipe from surface to 613m. Cont. to run 16" casing on 5 1/2" DP landing string. Land out well head @ 95.13m. Cement casing. Rig down cement lines. POOH 5 1/2" DP to surface.
Activity	Run casing and cement
Fluid Treatment	Dumped and cleaned pits. Hydro-tested same. Back load WBM chemicals to make room for SBM chemicals.
For Report # 008 On 06/26/2008	**Operation at Depth 755.0 m**
Rig Activity	Hold JSA and lift H4 connector and set in C-plate. Make up and run 22" riser. Wait on weather.
Activity	Wait on weather

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

For Report # 009 On 06/27/2008	**Operation at Depth 755.0 m**
Rig Activity	Continue to wait on weather. Continue to run 22" riser. Nipple up BOP.
Activity	Wait on weather
Fluid Treatment	Received 1064bbl of base oil and SBM chemicals from Ocean Battler.
For Report # 010 On 06/28/2008	**Operation at Depth 755.0 m**
Rig Activity	Continue to nipple up BOP and pressure test. Make up 14 3/4" BHA and RIH.
Activity	Nipple up B.O.P.
Fluid Treatment	Received 1692bbl of SBM ACCOLADE mud. 160bbl remaining on Ocean Valkyrie. Adjust oil/water ratio to 70/30 and treat to ensure properties within specifications. Weight SBM with Barite to 12.0ppg.
For Report # 011 On 06/29/2008	**Operation at Depth 755.0 m**
Rig Activity	Continue to RIH. Tag cement at 736m, drill out cement and shoe track with seawater. Drill 3m new formation, circulate hole clean and conduct LOT. EMW 13.7ppg at 650psi. POOH and lay out 14 3/4" BHA. Make up 13 1/2" BHA and RIH.
Activity	Tripping
Fluid Treatment	Continue to adjust active mud properties and weight to 12.0ppg. Added 5 ppb Omyacarb 5 and 5 ppb Circal 60/16 to displacement volume. Drill out cement and shoe track with seawater and Guar Gum/PHB sweeps, returns overboard. Received 457bbl, 11.3ppg brine.
For Report # 012 On 06/30/2008	**Operation at Depth 1,448.0 m**
Rig Activity	Continue to RIH. Hold PJSM and JSA for displacement to SBM. Displace lines and well to SBM. Drill 13 1/2" hole from 758m to 1448m. Vol% Oil on cuttings: 6.21%
Activity	Drilling
Fluid Treatment	Prepare 50bbl high vis spacer for displacement with Rheomod L. Pump 50bbl spacer and displace lines and well to ACCOLADE mud. Added Barite direct to active to maintain mud weight 12.0ppg after displacement. Screened up shakers to 255's and 280's. Barite being stripped out, mud weight dropping to 11.7 - 11-9 ppg. Screened down shakers to 215's to control mud weight at 12 ppg. Added LE Supermul to active to ensure barite oil wet. Downhole losses in Latrobe formation of 10-20bbl/hr. Treated by direct addition of Steelseal, Circal 60/16 and Omyacarb 5 to active. Prepare 400bbl SBM premix using Base Oil/Brine.
For Report # 013 On 07/01/2008	**Operation at Depth 1,720.0 m**
Rig Activity	Continue to drill 13 1/2" hole from 1448m to 1720m with surveys.
Activity	Drilling
Fluid Treatment	Added Calcium Chloride to active to increase WPS. Continue to mix premix. Built 241 bbls premix for volume. Added 0.1ppb No sulf H2S scavenger.

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

	Added 1 sx each of Circal 60/16, Omyacarb 5 and Steel Seal per stand. Added Barite to active as necessary to maintain mud weight and added LE Supermul to active to ensure Barite oil wet.
For Report # 014 On 07/02/2008	**Operation at Depth 2,031.0 m**
Rig Activity	Continue to drill 13 1/2" hole from 1720m to 1928m. Troubleshoot camera screen on cyberbase, circ and work string. Continue drilling 13 1/2" hole from 1928m to 2017m Troubleshoot top-drive problem. Continue to drill 13 1/2" hole from 2017m to 2031m. Circ hole clean, flow check and POOH wet 5 stands. Pump 30bbl slug and continue to POOH.
Activity	Drilling
Fluid Treatment	Weighted 235bbl of premix with Barite to 10.6ppg to allow addition to active without reduction in mud weight. Continue to add 1sx each Steel Seal, Circal 60/16 and Omyacarb 5 each stand and increased rate of addition to every 30 minutes as required. Prepared 285bbl premix with Base Oil/Brine for volume. Prepared HW slug for POOH. No dynamic losses prior to POOH. Upgraded shaker #4 to 145/215 mesh to aid solids control.
For Report # 015 On 07/03/2008	**Operation at Depth 2,047.0 m**
Rig Activity	Continue to POOH. Change bit and BHA. RIH and continue drilling 13 1/2" hole from 2031m to 2047m.
Activity	Tripping
Fluid Treatment	Continue to mix premix in pit 7 for volume. Base Oil Volumes: Rig: 270bbl Valkyrie: 635bbl Battler: 440bbl
For Report # 016 On 07/04/2008	**Operation at Depth 2,405.0 m**
Rig Activity	Continue drilling 13 1/2" hole from 2047m to 2346m with surveys. Stop drilling due to leak between standpipe manifold and mud hose. Replace hose. Continue drilling 13 1/2" hole from from 2346m to 2405m. Repair leak on standpipe 1. Attempt to POOH 4 stands - no go, 25k overpull and swabbing. Rig up side entry sub and hoses to circulate. Continue to repair leak on standpipe while circulating.
Activity	Drilling
Fluid Treatment	Weight 250bbl premix to 12.0ppg to allow addition to active without reduction in mud weight. Increase in LGS indicative of damaged screens. Immediately checked all screens and replaced damaged screens. 4x280 mesh, 2x215 mesh. Received: 75MT Barite. 460bbl Base Oil Oil cutiings average: 8.68%
For Report # 017 On 07/05/2008	**Operation at Depth 2,463.0 m**
Rig Activity	Continue to repair stand pipe. Continue drilling 13 1/2" hole from 2405m to 2434m. Circulate through cement hose and repair stand pipe manifold leak. Continue drilling 13 1/2" hole from 2434m to 2464m.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

Activity	Drilling
Fluid Treatment	Added Circal 60/16, Omyacarb 5 and Steel Seal to active while circulating during repairs to minimize seepage losses and maintain concentrations. Prepare further 420bbl premix for volume if required or to be used on next hole section. Recd chemicals on manifest WT-0068 OUT Base Oil volumes: Rig 626bbl Valkyrie 81bbl Battler 440bbl

For Report	**# 018**	**On**	**07/06/2008**	**Operation at Depth**	**2,600.0 m**	
Rig Activity				Continue drill 13 1/2" hole from 2464m to 2600m TD. Circ hole clean. POOH 10 stds wet. Pump HW slug. Continue to POOH from 2316m to 2049m, tight spot @2215m, 20k overpull. Cont to POOH from 2049m to 1741m Worked tight spots at 1888m, 1781m - 1752m, 1752m - 1727m. Unable to wipe @1741m. Circ and work string from 1752m to 1727m. Attempt to POOH on elevators from 1727m to 1715m, 20-25k overpull. Backream from 1727m to 1604m. POOH from 1604m to 1574m. Make up TDS and circ bottoms up. RIH from 1547m to 1781m, hole good. Continue to POOH to surface. Break bit and rack back BHA.	
Activity				Tripping		
Fluid Treatment				Continue to mix premix in pit 5. Weighted 200bbl premix to 12.0ppg with Barite to build volume prior to POOH for logging. LGS increase due to degasser pumping sand trap 1 into the active system on connections. Prepare HW slug x2 in slug pit for POOH. Weighting remaining premix with Barite to 12.0ppg. Base Oil volumes: Rig 596bbl Valkyrie 81bbl Battler 452bbl	

For Report	**# 019**	**On**	**07/07/2008**	**Operation at Depth**	**2,600.0 m**	
Rig Activity				Rig up Schluberger and run wire-line logs as per program.		
Activity				Wire Line logs		
Fluid Treatment				Dressed shakers with all 255/280 mesh for next hole section, 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr. Received: Part delivery of manifest WT-0069 OUT 79MT Barite Base Oil volumes: Rig 261bbl Valkyrie 81bbl Battler 452bbl	

For Report	**# 020**	**On**	**07/08/2008**	**Operation at Depth**	**2,600.0 m**	
Rig Activity				Continue wireline logging. Rig down Schlumberger and make up BHA for wiper trip.		
Activity				Wire Line logs		

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

Fluid Treatment	Continue to mix unweighted premix in pit 7.
For Report # 021 On 07/09/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to make up BHA and RIH for wiper trip. Circ hole clean and POOH for wire-line log. Hole found to be in good condition with no evidence of Barite Sag.
Activity	Tripping
Fluid Treatment	Prepare HW slug for POOH on wiper trip. No evidence of Barite Sag monitored on bottoms up from wiper trip.
For Report # 022 On 07/10/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to POOH. Rig up Schlumberger and run wire-line log. Test BOP. Power Failure - troubleshoot same. Monitoring well on trip tank, static.
Activity	Wire Line logs
Fluid Treatment	Flushed standpipe and lines with water/Baraklean, returns to slops pit.
For Report # 023 On 07/11/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Troubleshoot power failures with engines. Perform general maintenance and cleaning whilst mechanic works on fuel injections on engines.
Activity	Repair rig
Fluid Treatment	Prepare and clean slug pit for cement displacement.
For Report # 024 On 07/12/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Cont. monitor hole on trip tank whilst waiting on rig engines. Jetting BOP retrieve wear bushing, cont. jetting wellhead. Make up cement head. Make up 10 3/4" casing running tool. Held JSA for rigging up 10 3/4" casing.
Activity	Run casing and cement
Fluid Treatment	Prepare and clean slug pit for cement displacement.
For Report # 025 On 07/13/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Cont. rig up 10 3/4" casing equipment. Run casing into hole to 2328m as per casing tally, filling up each joint with mud.
Activity	Run casing and cement
For Report # 026 On 07/14/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Cont. run 10 3/4" casing to 2498m. Circulate 150% casing volume at 57 spm. Held pjsm for cement job as per programme. Pumped 5 bbl water, followed by 50 bbl tuned spacer @ 12.5ppg. Observed pressure spike of 2700psi. Assess situation, drop ball, pump 3.5bbl in attempt to launch bottom plug. No pressure increase. Circulate @ 71spm, bumped plug. Release casing handling equipment. Make up 9 1/2" BHA, RIH to 358m.
Activity	Tripping
Fluid Treatment	Pumped tuned spacer into active system.
For Report # 027 On 07/15/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Cont. RIH from 358m to 2550m filling pipe every 20 stds. Break circulation at 2550m and establish parameters. Tap plug @ 2566m. Drill out top, bottom plugs and float.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**
	Work string through, clean out shoe track to top of shoe, drill out 10 3/4" casing shoe from 2590m and tag bottom @ 2600m. Circulate hole clean. Flow check, POOH. Make up cementing equipment. RIH with 2 7/8" tail pipe on 5 1/2" DP, RIH to 769m.						
Activity	Run casing and cement						
Fluid Treatment	Made and pumped 14.5 ppg slug for tripping out of hole.						

For Report	**# 028**	**On**	**07/16/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity	Cont. RIH from 769m to 2350m. Remove diverter packer inserts. Make up wear bushing retrival tool, retreive same. Make up RTTS packer, RIH and set @ 140m. Circ. bottom up @ 2490m. Unseat RTTS, pick up cementing equipment. Pump 200 bbl 13.5ppg cement. Displaced cement with SBM. Monitor hole whist waiting on cement. Attempt to bleed off pressure below TIW, unable to open valve. Attempt below TIW with pressure bled, no success. Closed annular, pumped 350 psi @ backside. Unseat RTTS with 60k overpull.				
Activity	Tripping				
Fluid Treatment	Made water based Hi Vis spacer for riser displacement				

For Report	**# 029**	**On**	**07/17/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity	Perform 10min flow check & TOOH 149m with RTTS, L/O some tail pipe @2350m. Cont. TOOH from 2350m to 917m, pumped 30bbl slug @ 1422m. M/U assay running tool, RIH & set assy @95.19m. Release Cameron wellhead running tool. TIH with RTTS with storm valve to 155m. Set RTTS, pumped 50 bbl spacer, displaced hole from 150m to surface with SW. Nipple down BOP.				
Activity	Nipple down B.O.P.				
Fluid Treatment	NOTE: Actual Volume is 150 bbl more due to displacement and Volumetric adjustments to balance volumes.				

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

For Report	**# 030**	**On**	**07/18/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Removed BOP work platform, set under cantilever. Make up clutch type running tool. Remove CTU. Layout 22" riser. Skid Rig approx. 25'. Lowered H4 connector to main deck.	
Activity				Wellhead Operations	
For Report	**# 031**	**On**	**07/19/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Skid out cantilever. Remove tension deck stairs & raise, set back tension deck. Skid cantilever in line with subsea tree. Pick up subsea tree, weight 142k. Skid the rig to 25', lowered subsea tree below the hull. Skid the transverse to well center. Skid rig forward to reach the string to clamp umbilical cord. Lowered tree to 90m on HWDP. Skid rig to well center. ROV not functioning, troubleshoot. Jumped ROV into water, removed debris cover. Skid the rig, position tree over the wellbore.	
Activity				Installing Subsea Tree	
For Report	**# 032**	**On**	**07/20/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Lowered tree onto wellhead. Lock SST D&W hydraulic connector. Wellhead take 50k overpull. Cameron pressure test vx gasket 5000psi. Skid rig and pick up lower stress joints. Fold tension deck down. Make up, torque and run 22" riser with umbilical strapped.	
Activity				Run 22" Riser	
For Report	**# 033**	**On**	**07/21/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Cont. run 22" riser. Change out handling equipment. Land out riser on to tree. Set down and lock with 90k overpull. Fill riser with seawater with fluoresent dye. Lower CTU into position. Suspend operations due to rough weather. Wait on weather, wind speed 50-55 knots.	
Activity				Wait on Weather	
Fluid Treatment				Received 368 bbl of ACCOLADE base oil from boat. Note: Water addition to Accolade is from emptying Tasman Oil tools Mud-Vacs, Accolade charged is a balance of figures.	
For Report	**# 034**	**On**	**07/22/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Wait on weather, wind speeds 33-39 knots, sea state 3.5m. Wind & Sea acceptable, call in stand by boat. Install CTU. Install clexton clamp, torque same tensioned CTU 72 bar. Release clutch type running tool. Nipple up 18 5/8" BOP. Test BOP connection against shear rams. Install overshot & diverter packer. Nipple choke line.	
Activity				Nipple up B.O.P.	
For Report	**# 035**	**On**	**07/23/2008**	**Operation at Depth**	**2,600.0 m**
Rig Activity				Cont. hook up choke line, change saver sub. Attempt to remove dolly roller, no success. Slip on 90ft of drill line. Remove pipe handler, lowered dolly. Replace rollers and bearings. Slip & cut 90ft drilling line. Calibrate travelling block settings. Make up RTTS retrieving tool to retrieve RTTS packer and cement string.	
Activity				Tripping	
Fluid Treatment				Base Oil Rig 37m3	Brine Rig -

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Battler 116m3 Battler - Valkyrie 13m3 Valkyrie 50m3
For Report # 036 On 07/24/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Pressure test BOP. Change wash-pipe. Make up 9 1/2" BHA and RIH to 153m. Displace water from hole with SBM. Continue to RIH.
Activity	Tripping
Fluid Treatment	RIH to 153m and displace water from hole with SBM. Base Oil: Brine: Rig 314bbl Rig 181bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie 314bbl
For Report # 037 On 07/25/2008	**Operation at Depth 2,819.0 m**
Rig Activity	Continue to RIH. Tag cement at 2551m. Drill out cement and shoe track. Drill 3m new hole and conduct FIT. Drill 9 1/2" hole to 2818m at time of report. Base Oil: Brine: Rig 308bbl Rig 181bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie 314bbl
Activity	Drilling
Fluid Treatment	Initial mud weights while drilling cement 11.4ppg to 13.2ppg, due to barite sag from 10 days no circulating. Bled in 8.7ppg premix and dusted in barite to even mud weight 11.9+ppg for FIT. Added 0.7ppb TauMod to active to maintain rheology. Fined Up screens to 280 mesh, running 3 shakers only. Centrifuge shut down at 18.00 hours due to cuttings discharge chute blockage. Offlined for 5 hours while unblocking/cleaning.
For Report # 038 On 07/26/2008	**Operation at Depth 2,841.0 m**
Rig Activity	Continue drilling 9 1/2" hole from 2818m to 2841m. Circulate hole clean. POOH pumping and logging while tripping. Lay out BHA. Make up 9 1/2" coring BHA and RIH.
Activity	Tripping
Fluid Treatment	Prepare HW slug for POOH. Recieved approx. 289bbl brine from Ocean Valkyrie. Base Oil: Brine: Rig 303bbl Rig 470bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie -
For Report # 039 On 07/27/2008	**Operation at Depth 2,896.0 m**
Rig Activity	Continue to RIH. Cut core from 2841m to 2895m. POOH and lay out coring assembly. Make up 9 1/2" BHA.

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Base Oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Checked and replaced damaged screens. New screens used 4 x 280 mesh. Discarded 2x280 mesh screens. Dresssed shaker #1 with 255mesh, for drilling next interval. Intended to run centrifuge while coring, in barite recovery mode, to reduce LGS, overboard discharge line blocked after 20 minutes operation resulting in insufficient operation to reduce LGS. Added to the active, 0.1ppb Rheomod-L to maintain rheology and 0.2 ppb LE Supermul to improve ES.
For Report # 040 On 07/28/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to make up 9 1/2" BHA and RIH. Was down and log from 2620m to 2637m. RIH from 2637m to 2841m. Ream cored section from 2841m to 2896m. Continue drilling 9 1/2" hole from 2896m to 2987m, survey every connection. Circ hole clean. Flow check and POOH. Base oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Added 1ppb Le Supermul to premix pits 1 and 2. Added 1.2 ppb Le Supermul, 0.3ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties. Dusted in Barite to active to maintain mud weight 12.0ppg while drilling rat hole. Prepared HW slug for POOH. Run centrifuge in barite recovery mode to reduce LGS.
For Report # 041 On 07/29/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to POOH for wire-line logging. Rig up Shlumberger and run log #1.
Activity	Wire Line logs
Fluid Treatment	Added premix weighted to 12.0ppg to maintain volume. Base Oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
For Report # 042 On 07/30/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to run log #1. Lay out tools. Make up tools and run log #2. Lay out tools and rig down Shlumberger. Make up cement stinger and RIH.
Activity	Tripping
Fluid Treatment	Built additional premix using 70 bbls from slops pit. Cleaned slug pit and mixed cementers tuned spacer. Received 754bbl Base Oil and 716bbl Brine from Ocean Battler.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

For Report # 043 On 07/31/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to RIH with cement stinger to 253m. Power failure due to loss of engine. Continue to RIH from 253m to 785m. Loss of engine, power failure. Continue to RIH from 785m to 2591m. Unable to continue RIH with 2 engines in open hole. Work on engines. Continue to RIH from 2591m to 2858m. Pump cement plugs as per programmed. POOH from 2858m to 2681m. Circ hole clean. Continue to POOH.
Activity	Tripping
Fluid Treatment	N.B. Mud check #2 for slops pit (Pit #3), not indicative of active mud properties. Prepare HW slug with Barite for POOH. Rec'd LE Supermul, Tau Mod, Baraklean and Calcium Chloride from Ocean Battler. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 044 On 08/01/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to POOH and lay out 2 7/8" cement stinger. Make up 9 1/2" BHA and RIH to 214m Shallow test MWD tools. Continue RIH from 214m to 293m picking up drillpipe from deck. Change burst hose on iron roughneck. Continue to RIH picking up drill pipe from 293m to 1246m. Rig service. Install oil cooler fan and motor to top drive. Commence RIH with stands from 1246m to 1452m. Wait on weather.
Activity	Wait on weather
Fluid Treatment	Prepare chemicals and check shakers for next hole section. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 045 On 08/02/2008	**Operation at Depth 2,719.0 m**
Rig Activity	Continue to wait on weather. Continue to RIH. Tag kick off plug at 2690m. Clean out cement from 2690m to 2693m. Drill out cement from 2693m to 2696m, ream several times to cut ledge to sidetrack. Time drill from 2696m to 2719m.
Activity	Drilling
Fluid Treatment	Added Barite to active as required to maintain mud weight 12.0ppg. Added 1.6ppb LE Supermul, 0.4ppb Tau Mod and 0.3ppb Adadpta to active to maintain mud properties. Adding premix at 10.0ppg to maintain volume and mud weight. Checked shaker screens regularly and replaced damaged screens as required. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 046 On 08/03/2008	**Operation at Depth 3,008.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 2719m to 3008m as per directional drillers instrauctions. ACCOLADE Mud shown as returned (435bbls) is 'slops' (O/W Ratio of approx 35/65) returned to the Valkyre. Run centrifuges in Barite recovery mode to reduce LGS. Base Oil: Brine:

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Rig 1197bbl 1186bbl Battler - - Valkyrie - -
Activity	Drilling
Fluid Treatment	Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (4x280 mesh new screens used). Added Barite as required to maintain mud weight 12.0ppg. Fluid Volume Notes: Brine shown as returned (1186bbls) has been placed on the inventory as per request. Brine shown on inventory is in the Rig Brine Storage Tank (13P). Base Oil shown on inventory is in the Rig Base Oil Storage Tank (13S). Base Oil shown in the "Fluid Types" section of the report (bottom right - second box in) is in the Mud Pits (Pit 4).
For Report # 047 On 08/04/2008	**Operation at Depth 3,259.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 3008m to 3259m as per directional drillers instructions. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - - Valkyrie - -
Activity	Drilling
Fluid Treatment	Check shaker screens regularly and replace damaged screens as required (5x 280 mesh new screens used). Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results. Weighted premix with Barite to 12.0ppg to enable addition without reduction in mud weight. Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Added 0.3ppb Tau Mod to active to maintain rheology.
For Report # 048 On 08/05/2008	**Operation at Depth 3,577.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 3259m to 3525m as per directional drillers instructions. Problem with MWD tool. Break out topdrive, rack back stand, reciprocate string and work. Cont. drill ahead to 3577m. Circ. bottoms up and ream from 3577mto 3525m. Commence POOH as per K&M instructions from 3525m to 3149m. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - 740bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Run centrifuges in Barite recovery mode and add premix to active to reduce LGS. Checked shaker screens regularly and replaced any damaged screens immediately. Will begin bleeding recovered mud (Slops) back into mud to restore Oil Water Ratio to 70/30.
For Report # 049 On 08/06/2008	**Operation at Depth 3,577.0 m**
Rig Activity	Cont. POOH as per K&M instructions from 3149m to surface. Change out BHA. RIH with 9 1/2" BHA to 273m. Shallow test MWD tools as per DD instuctions. Commence slip and cut. Service top drive. Cont. RIH from 273m to 2577m. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - 740bbl

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Valkyrie - -
Activity	Tripping
For Report # 050 On 08/07/2008	**Operation at Depth 3,794.0 m**
Rig Activity	Change out saver sub. Rig service. Cont. RIH from 2577m to 3136m. Working through tight spots, wash and ream from 3136m to 3289m. Cont. RIH from 3289m to 3555m. Wash down to bottom @ 3557m. Commence drilling 9 1/2" hole from 3577m to 3791m as per DD instructions. Base Oil: Brine: Rig 1192bbl 1136bbl Battler - 740bbl Valkyrie - -
Activity	Drilling
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 14bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results. Built 350 bbl of premix using 80 bbls of slops to reduce OWR in active. 3bbl of mud was lost over the shakers during circulation.
For Report # 051 On 08/08/2008	**Operation at Depth 4,220.0 m**
Rig Activity	Cont. drill 9 1/2" hole from 3791m to 4220m as per DD instructions. Base Oil: Brine: Rig 1192bbl 1136bbl Battler - 740bbl Valkyrie - -
Activity	Drilling
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.
For Report # 052 On 08/09/2008	**Operation at Depth 4,582.0 m**
Rig Activity	Cont. drill 9 1/2" hole from 4220m to 4558m as per DD instructions. Washpipe leaking. POOH 5 stds from 4558m to 4411m. Pick up XTSS DP. RIH and back ream tight spot at 4412m. Pick up 10 joints XTSS DP and 2 joints of XT57. Cont. to drill from 4558m to 4582m. Base Oil: Brine: Rig 237bbl 1136bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Drilling
Fluid Treatment	Added 0.5ppb LE Supermul and 0.2ppb Adadpta to active to maintain mud properties. Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	734 bbls (117m3) Base Oil returned to Pacific Valkyrie.
For Report # 053 On 08/10/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. drill 9 1/2" hole from 4582m to 4648m as per DD instructions. Reached TD. Circ. 5 times bottoms up and ream from 4648m to 4354m. Washpipe leaking, change out washpipe. Cont. back ream from 4354m to 3823m. Base Oil: Brine: Rig 237bbl 1096bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Backreaming
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.
For Report # 054 On 08/11/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. back ream from 3823m to 3469m. Observed backflow, circulate and condition mud. Cont. backream 3469m to 2607m. Circ. 2X bottoms up. Perform flow check, static. POOH wet from 2607m to 2163m. Pumped 30 bbl slug, chased with 10 bbl mud. Cont. POOH dry from 2163m to 214m. Break out and lay out BHA. Rig up weatherford equipment, make up cement head. Base Oil: Brine: Rig 113bbl 1096bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Rig up and rig down
Fluid Treatment	Mixed 270bbl reserve mud to fill hole as contingency.
For Report # 055 On 08/12/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. rig up cement head stand as per BOT instructions. Change out bails, rig up 7" handling equipment and weatherford equipment. Commence picking up and RIH 7" liner from surface to 2017m. Filling liner every 5 joints. Base Oil: Brine: Rig 113bbl 1200bbl Battler - 636bbl Valkyrie 734bbl -
Activity	Run casing and cement
Fluid Treatment	Returned 433bbls of SBM to pacific Valkyrie. Mixed 6ppb SAPP solution to clean mud pits. Received completion fluid chemicals off boat. NOTE: 8 Drums of RADIAGREEN EME SALT & 80 pails of LIQUI-VIS EP is not shown in inventory due to lack of pricing infomation.
For Report # 056 On 08/13/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. run 7" liner from 2017m to 2047m, filling liner every 5 joints. Rig down 500T bails and 7" handling gear and install 5 1/2" handling gear. Make up 7" setting sleeve running tool and break circ. Continue to RIH with 7" liner on 5 1/2" drillpipe to 4648m

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Pick up to 4647m. Rig up for cement job. Pump 60bbl Base Oil spacer and 60bbl tuned spacer Attempt to pump cement pressure up to 2500psi. Bleed down and await instruction. Circ at 32spm/3500psi, stop pumping partial pack off. Manage to circ, spacer returns at 5000stks indicating circulating from top of liner. Rig down cement line and head. POOH from 4648m to 4584m.
Activity	Tripping
Fluid Treatment	Clean mud pits #4, #8 and #7. Note on rheology of Liqui-Vis EP sweep: FV 120sec/qt, 140/100/85/60/13/8 gels 8/14. Prepare 393bbl 11.0ppg brine with 1.5% Radiagreen EME and 1gal/bbl Liqui-vis EP in pit #8. Prepared 383bbl 11.0ppg brine with 5% Baraklean NS in pit #4. Prepared 70bbl brine with 1.8ppb N-Vis in slug pit. Rec'd approx. 554bbl 11.3ppg Brine from Ocean Battler. Circulate Base Oil and Tuned spacers out of hole and direct spacer returns to slops pit (pit #2). Transferred slug pit to pit #8 to allow preparation of HW slug for POOH.
For Report # 057 On 08/14/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Sand Traps - 150bbl SBM Trip Tank - 32bbl SBM Continue to POOH from 4584m to surface. Break out 7" liner running tool. Test BOP. Make up RTTS and RIH. Base Oil: Brine: Rig 50bbl 1056bbl Battler - 566bbl Valkyrie 742bbl 748bbl
Activity	Tripping
Fluid Treatment	Cleaned pit #7. Transferred dead volume from pit #6 and slug pit to active tank with wilden pump for volume. Slops pit (pit #2) O/W ratio 25/75. Slops pit now set as separate fluid set. Current Mud Pit Volumes: Pit #1 - 50bbl Base Oil Pit #2 - 262bbl "Slops" Pit #3 - 354bbl SAPP/water Pit #4 - 285bbl 11.0ppg Brine/Baraklean Pit #5 - 152bbl SBM (Active Pit) Pit #6 - 12bbl SBM Pit #7 - Clean Pit #8 - 450bbl 11.0ppg Brine/Radiagreen/Liqui-vis
For Report # 058 On 08/15/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to RIH with RTTS to 2735m. Set Packer and attempt to circulate. No returns, max pressure 5000psi. Unseat packer and POOH. Pick up 3 3/8" TCP gun assembly and make up same. Pick up 3 1/2" drill pipe from deck and RIH to 498m.
Activity	Tripping
Fluid Treatment	Transfer dead volume from pit #6 to active and clean pit #6. Transfer SBM from slug pit to pit #5 and clean slug pit. Transfer 382bbl 11.3ppg brine from bulk storage tank to pit #7 and 378bbl 11.3ppg Brine to pit #6 to allow unloading of Brine from Valkyrie to bulk brine tank. Base Oil: Brine: Rig 50bbl 1056bbl

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**
			Battler - 566bbl Valkyrie 742bbl 748bbl				
For Report	**# 059**	**On**	**08/16/2008**	**Operation at Depth**	**4,648.0 m**		
Rig Activity			Continue to RIH with TCP gun, picking up 3 1/2" drill pipe from deck to 2003m. Change bails and elevators and RIH with 5 1/2" drill pipe to 2241m. Observed back-flow. Make up TDS and circ mud. Continue to RIH from 2241m to 4560m. Set RTTS packer. Test cement line. Fire TCP gun with cement unit. Establish returns with cement unit. Circulate liner/open hole volume with mud pumps 5bpm/1500psi. No losses.				
Activity			Tripping				
Fluid Treatment			Prepare 60bbl cementers tuned spacer in slug pit weighted to 13.0ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg - 11.8ppg. Added Barite to maintain mud weight and circulate until mud weight consistent. Received approx. 692bbl of 11.3ppg Brine from Valkyrie. Base Oil: Brine: Rig 50bbl 992bbl Battler - 566bbl Valkyrie 742bbl -				
For Report	**# 060**	**On**	**08/17/2008**	**Operation at Depth**	**4,648.0 m**		
Rig Activity			Continue to circ and condition mud until weight even. POOH from 4560m to 4189m Set RTTS and rig up cement line. Hold JSA and cement liner as programmed. Break circ. Rack back cement stand. Continue to circ bottoms up. Continue to POOH to 1592m. Service break RTTS. Continue to POOH to top of guns. Base Oil: Brine: Rig 50bbl 992bbl Battler - 566bbl Valkyrie 742bbl -				
Activity			Tripping				
Fluid Treatment			Continue to add Barite to active system while circulating to ensure mud weight 12.2ppg out and 12.3ppg in. Prepare 30bbl pumpable 13.0ppg Slug for cement job. Clean pit #3. Added LE Supermul to active pit to maintain ES. Received 35 MT Barite from Valkyrie. Back-loaded 705bbl slops (Slops pit and SAPP waste) to Valkyrie in port tank #2 and starboard tank #2 on vessel. Backloaded 2x Bulk bags of KCl Tech Grade.				
For Report	**# 061**	**On**	**08/18/2008**	**Operation at Depth**	**4,648.0 m**		
Rig Activity			POOH TCP guns and lay out same. Rig up Schlumberger and run TCP guns on wire-line to 2675m. Fire gun and POOH. Lay down tools and rig down Schlumberger. Make up 7" cement retainer BHA. RIH to 2649m, lay out top single and pick up cement stand. Circulate at 500gpm. Set cement retainer. Release stinger and confirm clear. Sting back into retainer and slowly establish circ. Test cement line and pump cement as per program. Displace cement with SBM. Rig down cement line, pump HW slug and POOH to 1938m laying out pipe.				
Activity			Tripping				
Fluid Treatment			Clean slug pit in preparation for mixing tuned spacer. Prepare 13.5ppg slug in slug pit. Increase in water percentage due to contamination from water/spacers used in previous cement jobs. Cementing through the perforations in the top of the 7" liner, 274bbl of Accolade mud was contaminated with the cement spacer train and was disposed to slops pit.				

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Accolade volume transferred to slops pit was contaminated with 35bbl water, 60bbl tuned spacer, 10bbl water, 5-10bbl cement and a further 10bbl water from cement job.
For Report # 062 On 08/19/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH laying out singles. Carry out injectivity test on cement plug at top of liner. Continue to POOH to surface. Made up 9 1/2" bit, RIH and cleaned out the 10 3/4" csg to the top of 7" liner. Circ bottoms up, pump slug and POOH. Base Oil: Brine: Rig - 992bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Back-loaded 465 bbl of 11.6 ppg contaminated "slops" SBM mud with cement spacer and water from the slops pit to Vessel Battler in Port tank #2 and Stbd tank #2, to be offloaded for conditioning. SEE MUD CHECK #3. Backloaded 8 drums of OMC-42 to Vessel Battler. Added 50bbl Base Oil and 10bbl Slops to active and treated with LE Supermul and Tau Mod to maintain properties and weighted to 12.0ppg with Barite. Transferred volume from soilds control tanks to active. Rec'd 160x Liqui-vis and 9x Oxygon as per manifest WT-0079 OUT. 3rd Mud Check is slops backloaded to Battler. Not indicative of mud properties.
For Report # 063 On 08/20/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Backloaded surplus SBM chemicals to Valkyrie. Continue to POOH. Make up 6 " bit, motor and BHA and RIH with 3 1/2" drill pipe to 2535m. Slip and cut drill line. Continue to RIH from 2535m to 2641m. Drill out cement retainer to 2669m at time of report. Base Oil: Brine: Rig - 802bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Drill out
Fluid Treatment	Backloaded onto the Vessel Battler, 125 bbls of slops (waste mud) into Port tank #1 and 200 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #1. Topped up 11.3ppg Brine volume in pits #3 and #7. cut back with water to 11.0ppg to have 450bbl in pit #7 and 475bbl in pit #3. Added 1 drum of Radiagreen EME into pit #8 to maintain 1.5% v/v concentration. Also added 50 bbls of 11.0 ppg brine and 110 gal of BARAKLEAN into pit #4 to increase the volume required for displacement. Added LE Supermul, Tau Mod and Calcium Chloride to active while drilling cement retainer to maintain properties.
For Report # 064 On 08/21/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to drill out retainer. Pump HW slug and POOH. Lay out motor, change bit and BHA and RIH. Drill out retainer and circ bottoms up. Pump HW slug and POOH. Base Oil: Brine: Rig - 802bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Tripping

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

Fluid Treatment	Prepare HW slug for POOH. Added Rheomod-L to active when circulating to minimize Barite slump when Accolade mud backloaded on boats. Prepare further HW slug for POOH.
For Report # 065 On 08/22/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH to 117m. Check 3 1/2" drill pipe. RIH 2777m. Take continuous weight 5-9K. Work and push down cement retainer to 4490m. Circulate bottoms up. Commence displacement program. Base Oil: Brine: Rig - 732bbl Battler - 471bbl Valkyrie - 717bbl
Activity	Cond. mud & Circ.
Fluid Treatment	Backloaded 2 drums of RHEOMOD L and 12 sx of TAU-MOD to Vessel Valkyrie. Added Tau Mod to active to prevent Barite slump when back-loading the SBM mud to the boat. Added 70 bbl of 11.3 ppg brine, 7 bbls of drill water and BARAKLEAN into pit #4 to increase the volume required to clean the lines. Displacement of well to brine on following daily report.
For Report # 066 On 08/23/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to displace well to brine and flush surface lines. POOH and layout 3 1/2" drill pipe. Break out BHA and layout same. Make up RTTS BHA and RIH to 200m. Rec'd 750bbl 11.3ppg brine from Valkyrie. Environmental Incident: When backloading SBM to the Ocean Valkyrie the transfer hose to the boat split, discharging 21bbl of SBM to the ocean. Base Oil: Brine: Rig - 1093bbl Battler - 471bbl Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Displace well to brine. Pumped 75bbl 11.0ppg Radiagreen Hi-vis, 250bbl 11.0ppg Baraklean brine, 800bbl 11.0ppg brine, 325bbl 11.0ppg Radiagreen Hi-vis brine and displaced string with 175bbl 11.3ppg brine. All mud pumps flushed while pumping Baraklean brine. Flushed all surface lines when Baraklean brine returned to surface. 289bbl of dirty brine was diverted to the slops pit. 50bbl water/SBM was dumped to slops pit from rig floor scalper tank. When brine returns clean at shakers, 457bbl clean brine returns dumped overboard. Backloaded onto the Vessel Valkyrie, 809 bbls of 12.0 ppg good ACCOLADE SBM into Port and Stbd tank #3.
For Report # 067 On 08/24/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Set RTTS and pressure test wellhead seals. POOH laying out HW drill pipe and drill collars. Rig up and make up TCP guns and RIH. Base Oil: Brine: Rig - 1093bbl Battler - 471bbl Valkyrie 742bbl -

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

Activity	Make up TCP Guns
Fluid Treatment	Clean flowline, shakers and shaker troughs. Backloaded onto the Vessel Battler, 470 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #2 and Stbd tank #1and also backloaded into Port tank #1 230 bbls of Slops (waste mud). Cleaning mixing lines and mud pits. Brine volume dumped due to dead volume in pits when re-cleaning after initial displacement.

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

For Report # 068 On 08/25/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up and RIH TCP guns. RIH with 5 1/2" DP to 4414m. Rig up Schlumberger wire-line and run correlation log. Preesure test cement line, drop ball then pressure up to 2750psi with cement unit. Good indication of guns fire. Well takes 44bbl of brine. Losses 18bbl/hr. Circ bottoms up through choke. Flow check (losses 3bbl/hr). POOH. Base Oil: Brine: Rig - 762bbl Battler - - Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Function test brine filtration system with seawater. Continue to clean mud pits. Filtered 900bbl 11.3ppg brine and cut back with water to 11.0ppg. Received 774 bbls of 11.3 ppg Brine from Vessel Battler into rig main brine storage tank. Mixed 260 bbls of filtered brine HEC pill in pit #7. Volume of unfiltered 11.3 ppg brine in Main rig tank 762 bbls. Volume of Filtered brine 11.0 ppg 484 bbls Pit #3. Volume of 11.0 ppg unfiltered brine in pit #6, 223 bbls 69 bbls of 11.0 ppg brine in slug pit for LCM pill.
For Report # 069 On 08/26/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH. POOH and lay out TCP guns. Make up 10 3/4" scraper BHA and RIH. Base Oil: Brine: Rig - 57bbl Battler - - Valkyrie 742bbl 717bbl
Activity	Tripping
Fluid Treatment	Filtered 450bbl of 11.3ppg brine into pit #4 and cut back with water to 11.0ppg to 495bbl total. Transferred filtered brine from pit #3 to pit #8 and added 57bbl filtered 11.3ppg brine and cut back with water to 11.0ppg to 485bbl total. Filtered remaining 197bbl of 11.3ppg brine from rig storage tank into pit #3 and cut back with water to 11.0ppg to 302bbl total volume. Transferred slops volume from pit #1 to pit #2. Flushed pit #1 with seawater and Baraklean.
For Report # 070 On 08/27/2008	**Operation at Depth 4,648.0 m**
Rig Activity	inhibited brine. Displacement to inhibited brine: Pumped 222bbl of inhibited 11.0ppg brine. Prepared further 447bbl of inhibited 11.0ppg brine and pumped 415bbl. Take returns of filtered brine from second displacement to pit #5 and #3. Filter further 160bbl brine from pit #3 to pit #4. Rec'd 748bbl brine from Ocean Valkyrie. Continue to RIH with scraper BHA. Brush through BOP and riser. Scrape AHC setting depth from 2526m to 2564m. Displace well to filtered brine. Monitor losses, losses at 1.7bbl/hr. POOH to 2273m. Displace well with inhibited brine. Continue to POOH laying out drillpipe.
Activity	Tripping
Fluid Treatment	Prepared 70bbl 11.0ppg brine using sacks in slug pit for extra unfiltered brine volume and used to mix 75bbl Baraklean brine pill for displacement. Added 46bbl of 11.0ppg filtered brine from pit #3 to active pit #6 to allow sufficient volume for circulating. Initial displacement: Pumped 75bbl Baraklean pill. Prepared 75bbl, 3% Flo-clean pill in slug pit and pumped. Pumped 75bbl HEC pill from pit #7 then displaced with 917bbl

Interval	05		From Date	068	Top of Interval	4,648.0	m
Max. Hole Size / Bit Size	9.500 / 9.500	in	To Date	092	Bottom of Interval	4,648.0	m

	of filtered 11.0ppg brine. Prepared 239bbl inhibited brine in pit #8. Attempt to filter contaminated brine, unable to filter. Dumped unfiltered contaminated brine from displacement of well to filtered brine and then to
For Report # 071 On 08/28/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH laying out drill pipe. Pumped 30bbl unfiltered brine at 1073m (backflow). Continue to POOH laying out DP. Lay out clean out BHA. Make up BHA, well patroller, ball catcher, circ valve and bore protector retrieval tool. RIH to 92.38m and jet at 10bpm. Retrieve bore protector. Pick up and rig up liner handling equipment and prepare to run completion assy. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Prepared further 166bbl of 11.0ppg inhibited brine in pit #8. Filled slug pit with 56bbl unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr. Backloaded 357bbl slops to Ocean Valkyrie, Port tank #2 and Stbd tank #2.
For Report # 072 On 08/29/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up and RIH 5 1/2" and 7" completion string.
Activity	Run completion string
Fluid Treatment	Fill trip tank as required with inhibited brine from pit #8. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 073 On 08/30/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to run 7" tubing and completion assembly.
Activity	Run Completion String
Fluid Treatment	Continue to fill trip tank from pit #8 if required. Returns from casing displacement to pit #8. Clean mud pits #1 and #2. Backloaded 3 drums Radiagreen EME and SBM Mud Samples on Ocean Valkyrie (FM 044). Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 074 On 08/31/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to run completion and testing assembly. Install flow head and pressure test. Hold JSA. Rig up Expro slickline and run as per program.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Activity	Run completion
Fluid Treatment	Continue to clean pit #2. Fill trip tank as required from inhibited brine in pit #8. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 075 On 09/01/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up well testing equipment. Run plugs. Displace tubing to diesel. Attempt ot pressure test to packer - no success. Communication between annulus and tubing. Bleed of annulus, line up down tubing and repeat packer setting sequence. Line up on annular and attempt to test top packer - no success. Pressure up tubing and sttempt to reset packer.
Activity	Pressure Test Packers
Fluid Treatment	Fill trip tank as required with inhibited brine from pit #8. Displace competion string to diesel. Returns taken to pit #5. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 076 On 09/02/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to attempt to pressure test packer - no success. Attempt to reverse circulate diesel out of tubing through Expro choke. Bullhead diesel from tubing to formation by pumping inhibited brine. Hold pressure on tubing. Bled off pressures - no test on packer. Monitor well while dicussed and developed forward plan with town. Hold PJSM. Expro prepare tools and re-terminate rope. RIH with slickline to set protection sleeve.
Activity	Retrieve completion string
Fluid Treatment	Transfer inhibited brine from pit #8 to cement unit for pressure testing as required. Rec'd approx. 660bbl of 11.3ppg brine from Ocean Battler. Bullheaded diesel from production tubing into formation at 5bpm with 223bbl of inhibited brine from pit #8 and pit #5. Brine: Rig 776bbl (unfiltered in mud pits) Battler - Valkyrie -
For Report # 077 On 09/03/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue slickline operations to attempt to retrieve packers. Displace well to brine to kill well. Flow check well. Commence rigging down well test equipment. Rig up slick-line and RIH and set plug at 2552m. POOH with plug running tool. Check tool for confirmation plug set.
Activity	Retrieve Completion String
Fluid Treatment	Transfer brine from pit #5 to cement unit as required for pumping/pressure testing operations. Circulated well with 11.0ppg brine to kill well. 333bbl of brine dumped. Brine: Rig 776bbl (unfiltered in mud pits) Battler - Valkyrie -

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

For Report	**# 078**	**On**	**09/04/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Preesure test plug to confirm set. Rig down well testing equipment. Remove chiksan lines & hydraulics from flow head. Make up Schlumberger wire line, rig up cement line, and pressure test. Install stuffing box assembly and RIH with chemical cutter. Fire guns andPOOH with chemical cutter to surface. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger.	
Activity				RIH with XT 57 DP from Derreck to top of tubing hanger	
Fluid Treatment				Continue to pump brine to cement unit as required for pressure testing operations.	
For Report	**# 079**	**On**	**09/05/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				RIH & landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, Had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well. Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke.Broke off 1 stand of DP and installed TIW Continued to pick up string 23m total stripping through annular while pumping @ 1.3 bpm & 300 psi, pressure remained constant.Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked well, down hole losses were 9 bbls per hour. Pumped HEC pill and displaced well with 230 bbls of brine, observed 20 bbl loss. Flow checked well and observed 6 bbl per hour loss. Pulled tbg hanger surface, removed control lines and laid out hanger. Laid out completion string as per tally F 2478m to 2466m. Observed backflow from string, installed TIW v/v and pumped 30 bbls of 11 ppg brine then layed out TIW and monitored flow- no flow back. Continued to POOH with completion string F 2466 to 2378m, at 2438 laid out TRSSV assembly.	
Activity				Lay out TRSSV assembly	
Fluid Treatment				Added 35 Sx of CaCl to make an additional 57 bbls and weight up brine in pit 2 from 10.7+ to 11.0 ppg.	
For Report	**# 080**	**On**	**09/06/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Flushed pits 4, 7 and 8 with see water. Washed clean in preparation for completion brine. POOH 7" completion tubing F 2378m to surface. Made up Cameron test tool.	
Activity				Make up Cameron test tool	
Fluid Treatment				Transffered Volume from pit # 7 into pits # 1, 2, & 3.	
For Report	**# 081**	**On**	**09/07/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Continued to RIH with ws test tool on 5.5" drill Pipe. Flushed lines, tested both tool and BOP and POOH. Laid down 12 joints. Rig up Schlumberger wire line equipment, gauge ring, bore protector and RIH. POOH and pressure test. Made up TIW v/v to water bushings, changed elevators and RIH with 7" tubing F 369m to 965m,	
Activity				RIH 7" completion tubing.	
Fluid Treatment				Received 660bbls of CaCl2 completion brine (at 10.9ppg) from the Pacific Battler. Filtered 660 bbls of 10.9 ppg completion brine to 14 NTU. 387 bbls of completion brine is in pit # 7 and 249 bbls is in pit# 8. 24 bbls of completion brine used to prime the pit lines.	
For Report	**# 082**	**On**	**09/08/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Used 26 bbls for Halliburton Cementers pressure testing. RIH 7" tubing F 965m to 2576m, tagged PBR with seal assembly to confirm space out. POOH to pick up SSSV at 2321m. Pick and made up SSSV and terminate and test control lines, no initial test change out 2 x needle valves. Continued to RIH with 7" tubing F 2321 to 2472m. aab	

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Activity	RIH 7" Completion Tubing
Fluid Treatment	No Treatments today. Brine 16 NTU's according to Scotch Tech Filtration personal.

For Report	**# 083**	**On**	**09/09/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Pick and make up tubing hanger- Terminate TR SSV control lines through TH and pressure test control lines to 4000 psi/ 5 min. Baker installed and test quest E-Line connection through TH to 7500 psi perform pre-submergence check. Install spilt bushing into rotary table & land out TH & table. Laid down THHTT. Picked up & made up MTHRT to TH & perform final checks prior to running. Up WT 192 K, down WT 174K. Run landing string & completion F 2477m to 2570.77m Take up & down weight 5m above SST. Up weight 194K, down WT 175K. ROV open CSM & test rotary valves + PMV, XOV, AAV, AMW. Land TH with 30 K down. TH orientation helix engage. Land off TBG string weight & hold land string weight (N 8 K). Close AAV, AMV. Lock test Th at 500 psi/ 5 min, 4000 psi/ 10 min, with landing string at neutral weight. rotated 3.8 turns CW to lock TH. rotate back 3.8 turns CCW perform over pull of 130 K.Pressure test SST valves as per program.
Activity	Shut in well and monitor pressure
Fluid Treatment	CRW24100 received at $563.88 / drum (this is a placeholder price only - to be revised). Transfered 26 bbls of filtered completion brine to Halliburton Cementing unit. Monitored fluid levels in pits.

For Report	**# 084**	**On**	**09/10/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Made up 4.5" GS pulling tool. Pressure test lubricator to 4000psi and RIH and open sliding sleeve at 2476m. POOH with shifting tool left tool in lubricator and close swab valve. Close annular and line up to Circulate down choke line, taking returns through Expro choke and down to the downwind flare boom. Returns will be discharged and vented via the flare boom. Lined up and circulated 300 bbls of 10.9 filtered, inhibited brine down tubing string with cementing unit and took returns back to pits. Removed lubricator and laid out sliding sleeve tool. Pressure test tag above XX plug I 5000 psi to 5 minutes. Bled off pressure I 500 psi close SSSL and bled off pressure in TBG, I 1000psi. Perform 15 mon in flow test. Open FMV, RIH with 4.562" retrieval tool and latch plug.
Activity	RIH with 4.562" retrieval tool.
Fluid Treatment	Stock correction - zeroed out Base Oil and Stored Brine figures. The storage tanks were cleaned out some time ago and recovered fluid was returned to town with slops. Used 4X crw 24100 inhibitor (double concentration) in filtered brine in Pit # 8.

For Report	**# 085**	**On**	**09/11/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Continue to RIH with $.562" Plug retrieval tool. Break off lubricator and laid down Retrieval tool, made GS tool and pressure test to 4000 psi for 5 minutes. Then latch plug at 2450m and POOH to surface. Break off Lubricator, laid down 4.562" plug, changed out tool to 3.813" shifting tool, installed lubricator and pressure tested to 4000psi / 5 minutes. Pumped 205 bbls of Diesel, Expro RIH with shifting tool and retrieved sliding sleeve at 2467m and POOH.RIH and tested Expro tool at 2457m. Continued to POOH with RX running tool, break lubricator and made up G5 pulling tool and tested. Setpacker with 5500 psi and bled off pressure. Rig up to test packer, closed annular and increased pressure in stages I 3800 psi. POOH RX plug after we bled off pressure.Pressure test to 4000 psi.
Activity	Pressure testing to 4000 psi.
Fluid Treatment	No treatments today. Retort results for Pits # 1, 2 and 5 were less than 1% Diesel. Reported to results to Rocco Company Man.

For Report	**# 086**	**On**	**09/12/2008**	**Operation at Depth**	**4,648.0 m**

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Rig Activity	RIH with Slick line and confirmed 2473m depth. POOH, break off and change out tools. Test Lubricator to 4000 psi RIH with Expro tool latch plug and remove. POOH to surface. Installed otis cap and test to 4000 psi and prepare to flow well. Perform ESD function test. Commence to flow well.Maintained pressure between 200 - 400 psi to trip tank through choke as required.
Activity	Flow the Well and Flaring
Fluid Treatment	Charged for 2 bulk containers of BARAKLEAN NL plus used for pit, tank, shakers and rig cleaning. Transfered brine from pits # 1, 2 and 5 into pit # 3 and Contaminated Brine into Pit # 1 for flaring.

For Report	**# 087**	**On**	**09/13/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Flowed well between 200-400 psi Bled off annulus pressure to zero, shut well wait on pressure build up. Closed SSSV, Bled off pressure to zero. Flushing the lines and pumping 20 bbls of Glycol down hole.
Activity	Pumped 20 bbls of Glycol Down Hole
Fluid Treatment	Transfer of 150 bbls of brine into pit 1 and Dilute with 270 bbls of sea water and dump. The process is being continued until brine is empty of pits.

For Report	**# 088**	**On**	**09/14/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Pumped contaminated brine to flare 67 bbls and 20 bbls of filtered brine from Halliburton cementers and burned off. Rig up slick line and flushed flare boom. RIH and set tubing hanger, test failed twice before 4000 psi. Conducted SSSV test and test passed above 3400 psi. Flushed all lines. continued to rig down and back load.
Activity	Rig Down
Fluid Treatment	Continued to dilute 1/3 Brine to 2/3 Sea Water and Dumped. Whilst dumping Continued to add Sea Water to further dilute brine. Also used the same process to dump the trip and sand traps.

For Report	**# 089**	**On**	**09/15/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Flushed landing string. Laid down side entry assembly and changed out elevators, RIH to 92m and reverse circulate 50 bbls at 5 minutes. POOH with setting assembly. Change out elevators, and reset ITC running tool, test and POOH. Continued to rig down.
Activity	Rig Down.
Fluid Treatment	Back Loaded, 36 Pails LIQUI-VIS in Container (030), 36 Pails LIQUI-VIS in Container (032) and 48 Sx N-VIS in Container (032. Received, 36 Sx of BARAZAN D PLUS, 40 Sx Guar Gum and 40 Sx OF Soda Ash. Will charge off these chemicals when we reach Bazzard-1 location. Continued to Clean Pits 1 thought to 8 including sand and slug pits.

For Report	**# 090**	**On**	**09/16/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Rig Down.
Activity	Rig Down
Fluid Treatment	3 sx of Salt used at the end of testing the well.

For Report	**# 091**	**On**	**09/17/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Continue to rig down, prepare for move to new location. Stuart Petroleum, Bazzard-1 well.
Activity	Continue to Rig Down.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Fluid Treatment	Returned to Corio Quay for Nexus credit 72 pails of LIQUI-VIS EP and 48 sx of N-VIS. Credit well for 2 x 1054 lt BARAKLEAN NS Plus not used, to be returned to Corio Quay. Prepare Well Sight for Stuart Petroleum, Bazzard-1 well. clean and Maintain pits, sand traps, pump room, repaire valves in pump room.

For Report	**# 092**	**On**	**09/18/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	End of Nexus Energy Project, moving Seadrill rig West Triton to Stuart Petroleum Bazzard-1 Location.
Activity	Moving rig to Bazzard-1 location

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Deviation Actual

Survey Date	MD m	TVD m	Angle	Direction	Horiz Displ. m
07/02/2008	1,998	1,868	27.26	181.7	129.6
07/05/2008	2,414	2,222	37.70	183.2	191.8
07/28/2008	2,971	2,593	45.10	184.6	377.4
07/30/2008	1,405	1,353	30.04	18.3	51.3
08/04/2008	3,254	2,633	84.40	184.0	1,440.0
08/07/2008	3,595	2,625	91.46	181.0	1,779.0
08/07/2008	3,740	2,623	88.50	184.9	1,926.0
08/08/2008	4,183	2,671	81.40	187.3	2,364.7
08/09/2008	4,507	2,681	84.60	193.0	2,683.8
08/10/2008	4,648	2,696	80.20	185.5	2,822.6

DAILY MUD REPORTS

Baroid Fluid Services

Report No 001

Daily Drilling Fluid Report

Date 06/19/2008	**Depth** 0.0 m		
Spud Date 06/20/2008	**Rig Activity** Pre-Load		
Operator NEXUS ENERGY	**Report For** Bill Openshaw/Rocco Moussow	**Well Name** Longtom - 4	
Contractor Seadrill	**Report For** Carlos Carvajal	**Rig Name** West Triton	**Unit System** Nexus Energy
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Strait	**Field or Block** VIC P29

Bit Information		Drill String (in) / (m) OD ID Length	in Casing m OD Set MD	Circulation/Hydraulics Data		
Bit Size	in			Model		
Make/Type				Bore in		
Jets				Strokes in		
TFA	sq-in			Eff(%)		
Jets Velocity	m/sec			bbl/strk		
Jet Impact Force	lbf			SPM		
Bit HHSI	hhp/in2			gpm|bbl/min		
Press Drop @ Bit	psi			Total GPM	AV, Riser	Circ Press psi
Bit Depth	m			Total Circ Time	AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg			BU Time , min	AV max DC	Press Drop DP
ECD @ Bit	ppg			Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

.

Rig Activity

Rig on tow to location. Jacking @ preload air gap. Start preload. Release Pacific Valkyrie. Slip and cut drilling line 86ft. Draw works calibration, finish preload. Hold for 2 hrs 100%. Dump preload. Release Pacific Battler from Bow.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can		9		9	
Amodrill 1235	1500 l drum		2		2	
BARACOR 100	55 gal drum		4		4	
BARA-DEFOAM W300	5 gal can		17		17	
BARAZAN D PLUS	25 kg bag		107		107	
barite	1000 kg bulk		88.980		88.980	
BAROFIBRE FINE	25 lb bag		50		50	
bentonite	1000 kg bulk		51.570		51.570	
calcium chloride flake 77%	25 kg bag		39		39	
caustic soda	25 kg pail		31		31	
Circal 60/16	25 kg sack		143		143	
Circal Y	25 kg sack		286		286	
citric acid	25 kg bag		21		21	
CLAYSEAL PLUS	216 kg drum		29		29	
CON DET	5 gal can		32		32	
CON DET	55 gal drum		8		8	
DEXTRID LTE	25 kg sack		75		75	
EZ SPOT	55 gal drum		8		8	
EZ-MUD	25 kg pail		109		109	
EZ-MUD DP	25 kg bag		14		14	
guar gum	25 kg bag		70		70	
KCL Tech Grade (bulk)	1000 kg bulk		2.000		2.000	
Kwikseal Fine	40 lb bag		38		38	
lime	25 kg bag		66		66	
N-DRIL HT PLUS	50 lb bag		55		55	
NO-SULF	17 kg pail		48		48	
Omyacarb 5	25 kg bulk		33.000		33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	3.5
Logging	
Dir Work	
Repair	2.0
Other	9.5
Total	15.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol		Total		Total Losses	

Fluid Types	Vol bbl

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$0.00	Total Cumulative Cost	$2,500.00

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 002

Daily Drilling Fluid Report

Date 06/20/2008		Depth 96.0 m	
Spud Date 06/20/2008		Rig Activity Pick up BHA	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	26.000	in
Make/Type	REED/Y11CC	
Jets	3x22|1x16	
TFA	1.310	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	96.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	18.7
Drill Collar	8.250	2.813	40.0
Drill Collar	9.500	3.000	30.0
Other	36.000	0.000	3.7
Other	36.000	0.000	3.7

in Casing m

OD	Set	MD

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	0.000	0.000	0.000
Strokes in	14.000	14.000	14.000
Eff(%)	0	0	0
bbl/strk	0.000	0.000	0.000
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #4					
Time		20:00					
Depth	m	0					
FL Temp	Deg C						
Density @ Deg C	ppg	9.60 @ 25					
FV @ Deg C	sec/qt	155 @ 25					
PV @ Deg C	cP	20 @ 25					
YP	lbs/100 ft2	70					
GELS	lbs/100 ft2	55/60/70					
600/300		110.0/90.0					
200/100		85.0/75.0					
6/3		55.0/52.0					
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol	-/99.0					
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Build 1680 bbls of 35 ppb PBH.
Took 860 bbls KCL /Polymer mud from the Battler. To be used as displacement fluid.
Received and dumped +/- 100bbls dirty water from the boat, used for flushing boats tanks.

Flocculated PHB with sea water (75/25 or 67/33 to required viscosity) and added 0.275 ppb lime, prior to pumping as sweeps.

Rig Activity

Dump pre-load. Jack up rig to 17ft air gap. Prepare rig for skidding. Skid cantilever out. Install gumbo hose. Cont. skidding in to drilling position. Install HP mud hoses. Pick up BHA. Make 30" running tool. Pick up and make up BHA & lay out stabilizer. Sea level @ 39.9m

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	51.570	22.000	17.000	56.570	$8,412.96
caustic soda	25 kg pail	31		3	28	$132.57
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	88.980			88.980	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	39			39	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	70			70	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	66			66	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3004.0	Total		Total Losses	

Fluid Types	Vol bbl
KCl/Polymer	857.0
PHB	1681.0
Seawater	466.0

Deviation Information

Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

Daily Products Cost	$8,545.53	Total Daily Cost	$11,045.53
Cumulative Products Cost	$8,545.53	Total Cumulative Cost	$13,545.53

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 003

Daily Drilling Fluid Report

Date 06/21/2008		Depth 132.0 m	
Spud Date 06/20/2008		Rig Activity Rig up and rig down	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	36.000		36.0

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	0.000	0.000	0.000
Strokes in	14.000	14.000	14.000
Eff(%)	0	0	0
bbl/strk	0.000	0.000	0.000
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #4						
Time		22:00						
Depth	m	0						
FL Temp	Deg C							
Density @ Deg C	ppg	9.60					8.33	10.00
FV @ Deg C	sec/qt	180 @ 25					100	300
PV @ Deg C	cP	25 @ 25						
YP	lbs/100 ft2	70					40	150
GELS	lbs/100 ft2							
600/300		120.0/95.0						
200/100		85.0/75.0						
6/3		60.0/55.0						
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/99.0						
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Fluid Treatments

Fluid Type Seawater

Made 160 bbls cement mix water, 8.25 ppb calcium chloride.

Rig Activity

Cont. RIH with 26" BHA to 97m. Drill ahead from 97m to 132m, pumping 75 bbl sweeps. Pump 200 bbl gel and displace hole with 280 bbl Inhibited mud @ TD. POOH to surface. Install 30" conductor handling tools. Pick up 30" conductor and wellhead and RIH. Set @ 128.86m. Wellhead stick up 1.93m. Rig up cement lines, pump cement slurry @ 15.8ppg. Wait on cement. Release 30" conductor running tool.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	56.570		3.800	52.770	$1,880.54
calcium chloride flake 77%	25 kg bag	39		24	15	$331.68
caustic soda	25 kg pail	28		1	27	$44.19
lime	25 kg bag	66		2	64	$13.10
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	88.980	76.720		165.700	
BAROFIBRE FINE	25 lb bag	50			50	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	70			70	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.5
Circulating	0.5
Trips	8.5
Rig	
Surveys	
Fishing	
Run Casing	5.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	7.0
Total	24.0
Rotating	2.5
ROP	14.4
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	466.0	Dewatering		SCE	-426.6
Total Hole	95.2	Sea Water		Evaporation	
Total Circ	466.0	Whole Mud	521.8	Trips	
Reserve		Barite		Other	
Prev Vol	3004.0	Chemicals		Total Surface	
Net Change	95.2	Other		Downhole	
Total Vol	561.2	Total	521.8	Total Losses	-426.6

Fluid Types	Vol bbl
KCl/Polymer	620.0
PHB	1506.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$2,269.51	Total Daily Cost	$4,769.51
Cumulative Products Cost	$10,815.04	Total Cumulative Cost	$18,315.04

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 004

Daily Drilling Fluid Report

Date 06/22/2008		Depth 374.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	22.000	in
Make/Type	SMITH/XR+C	
Jets	3x22|1x15	
TFA	1.286	sq-in
Jets Velocity	90.6	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	374.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	301.0
Drill Collar	8.250	2.813	30.0
Drill Collar	9.500	3.000	43.0
Open Hole	22.000		245.2

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	99		99		99	
bbl/strk	0.142		0.142		0.142	
SPM	100		100		0	
gpm|bbl/min	597	14.22	597	14.22		
Total GPM	1,195	AV, Riser			Circ Press psi	
Total Circ Time	29	AV min DP	11.8		Tot Pres Loss	
BU Time , min	15	AV max DC	22.7		Press Drop DP	
Total Strokes	5,849	BU Strokes	2,958		Press Drop An	

Properties		1	2	3	4	Targets	Program	
Source		Pit #5						
Time		22:00						
Depth	m	0						
FL Temp	Deg C							
Density @ Deg C	ppg	9.60					8.33	10.00
FV @ Deg C	sec/qt	180 @ 25				X	80	
PV @ Deg C	cP	25 @ 25						
YP	lbs/100 ft2	70				X	30	
GELS	lbs/100 ft2							
600/300		120.0/95.0						
200/100		85.0/75.0						
6/3		60.0/55.0						
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/99.0						
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Fluid Treatments

Fluid Type Seawater

Cut back 35ppb PHB with sea water 7:3 and add 0.3ppb lime for viscosity prior to pumping as sweeps.

Mixed 450 bbl Guar Gum, 630 bbl PHB today.

Rig Activity

Cont. break out running tool. Lay out BHA. Pick up and make up 22" BHA. RIH to 95m and shallow test MWD tools. Attempt to stab in. No success. Launch ROV unit, guide to stab in well head @ 95.13m. Install master bushing. Cont. RIH with 22" BHA, tag cement @ 124.87m. Drill cement from 124.87m to 132.8m. Drilled 22" hole from 132.8m to 374m, pumping 50 bbl gel sweeps.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	52.770		6.000	46.770	$2,969.28
guar gum	25 kg bag	70		20	50	$1,698.60
caustic soda	25 kg pail	27		1	26	$44.19
lime	25 kg bag	64		3	61	$19.65
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	15			15	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	10.0
Circulating	0.5
Trips	10.0
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.5
Total	24.0
Rotating	10.0
ROP	24.2
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus	420.7	Base		Fluid Dumped	
Pipe Cap	12.1	Drill Water		Transferred	
Active Pits	399.0	Dewatering		SCE	-533.3
Total Hole	432.9	Sea Water		Evaporation	
Total Circ	831.9	Whole Mud	804.0	Trips	
Reserve		Barite		Other	
Prev Vol	561.2	Chemicals		Total Surface	
Net Change	270.7	Other		Downhole	
Total Vol	831.9	Total	804.0	Total Losses	-533.3

Fluid Types	Vol bbl
KCl/Polymer	620.0
PHB	1384.0
Guar Gum	400.0

Deviation Information

Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

Daily Products Cost	$4,731.72	Total Daily Cost	$7,231.72
Cumulative Products Cost	$15,546.76	Total Cumulative Cost	$25,546.76

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 005

Daily Drilling Fluid Report

Date 06/23/2008		Depth 749.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	22.000	in
Make/Type	SMITH/XR+C	
Jets	3x22|1x15	
TFA	1.286	sq-in
Jets Velocity	90.2	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	749.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	676.0
Drill Collar	8.250	2.813	30.0
Drill Collar	9.500	3.000	43.0
Open Hole	22.000		620.2

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	99	100	0
gpm|bbl/min	591 | 14.08	597 | 14.22	

Total GPM	1,189	AV, Riser		Circ Press psi	
Total Circ Time	49	AV min DP	11.8	Tot Pres Loss	
BU Time , min	34	AV max DC	22.6	Press Drop DP	
Total Strokes	9,741	BU Strokes	6,761	Press Drop An	

Properties		1	2	3	4	Targets	Program		Fluid Treatments
Source		Pit #8							Fluid Type Seawater
Time		20:00							Cut back 35ppb PHB with sea water 7:3 and add 0.1-0.3 ppb lime for viscosity prior to pumping as sweeps.
Depth	m	0							
FL Temp	Deg C								Mixed 750 bbls Guar gum
Density @ Deg C	ppg	9.60					8.33	10.00	Mixed 920 bbl PHB mud.
FV @ Deg C	sec/qt	155 @ 25				X	80		
PV @ Deg C	cP	20 @ 25							
YP	lbs/100 ft2	70				X	30		
GELS	lbs/100 ft2	55/60/70							
600/300		110.0/90.0							
200/100		85.0/75.0							
6/3		55.0/52.0							
API Filt	ml/30 min								
HTHP @ Deg C	ml/30 min								
Cake API/HTHP	32nd in								
Corr Solid	% by Vol								
NAP/Water	% by Vol	-/99.0							
Sand	% by vol								
MBT	ppb Eq.								
pH @ Deg C									
ALK Mud	Pm								
ALK Filt	Pf/Mf								
Chlorides	mg/l								
Tot. Hardness	mg/l								
LGS/HGS	% by Vol								
LGS/HGS	ppb								
ASG	SG								
Additional Properties									

Rig Activity

Cont. drilling 22" hole from 374m to 749m. Pumping 3 X 50 bbl sweeps per stand. Using guar gum sweeps in the middle of the stand.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	46.770	7.000	8.770	45.000	$4,340.10
guar gum	25 kg bag	50		41	9	$3,482.13
lime	25 kg bag	61		7	54	$45.85
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	15.6
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus	961.6	Base		Fluid Dumped	
Pipe Cap	24.7	Drill Water		Transferred	
Active Pits	399.0	Dewatering		SCE	-1653.9
Total Hole	986.3	Sea Water	374.0	Evaporation	
Total Circ	1385.3	Whole Mud	2207.4	Trips	
Reserve	374.0	Barite		Other	
Prev Vol	831.9	Chemicals		Total Surface	
Net Change	927.5	Other		Downhole	
Total Vol	1759.3	Total	2581.4	Total Losses	-1653.9

Fluid Types	Vol bbl
KCl/Polymer	754.0
Guar Gum	387.0
PHB	863.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$7,868.08	Total Daily Cost	$10,368.08
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$35,914.84

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 006

Daily Drilling Fluid Report

Date 06/24/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Repair rig	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type KCl/Polymer

Pumped 150 bbl PHB sweep @ TD
Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer to completely displace hole.

Rig Activity

Cont. drilling 22" hole from 749m to 755m. Pumped 150 bbl PHB sweep. Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer mud. POOH to 741m, 30k overpull. Work through tight spots with pumps. POOH to 402m. Service top drive. POOH and lay down BHA. Make up 18 3/4" wellhead. RIH to 90m, try to stab 16" casing in the wellhead. Launch ROV, stabb in well head. RIH to 145m. Bend bails latches on top drive. Rig them down for repair.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			9	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	0.5
Circulating	1.0
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	13.0
Coring	
Reaming	0.5
Testing	
Logging	
Dir Work	
Repair	2.0
Other	2.0
Total	24.0
Rotating	1.0
ROP	12.0
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	-825.5
Total Hole	484.5	Sea Water		Evaporation	
Total Circ		Whole Mud	556.0	Trips	
Reserve		Barite		Other	
Prev Vol	754.0	Chemicals		Total Surface	
Net Change	-269.5	Other		Downhole	
Total Vol	484.5	Total	556.0	Total Losses	-825.5

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$38,414.84

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 007

Daily Drilling Fluid Report

Date 06/25/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	755.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						

Additional Properties

Fluid Treatments

Fluid Type KCl/Polymer

Dumped and cleaned pits. Hydro-tested same.

Back load WBM chemicals to make room for SBM chemicals.

Rig Activity

Cont. repairs on top drive bail latches. RIH with 16" casing to 647m. Pick up 20 X 16" crossover and make up to 16" casing. Land off. RIH with 5 1/2" drill pipe from surface to 613m. Cont. to run 16" casing on 5 1/2" DP landing string. Land out well head @ 95.13m. Cement casing. Rig down cement lines. POOH 5 1/2" DP to surface.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4				
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			47	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	9			1	
CON DET	5 gal can	32				
CON DET	55 gal drum	8				
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			13	
EZ-MUD DP	25 kg bag	14				
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	55			15	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	7.5
Rig	
Surveys	
Fishing	
Run Casing	10.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	3.0
Other	3.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	484.5	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	82.0	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	484.5	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$40,914.84

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 008

Daily Drilling Fluid Report

Date 06/26/2008	**Depth** 755.0 m		
Spud Date 06/20/2008	**Rig Activity** Wait on weather		
Operator NEXUS ENERGY	**Report For** Sean DeFreitas/Stefan Schmidt	**Well Name** Longtom - 4	
Contractor Seadrill	**Report For** Mike Barry	**Rig Name** West Triton	**Unit System** Nexus Energy
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Strait	**Field or Block** VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	750.0	Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	99	99	99
Jets Velocity	m/sec							bbl/strk	0.142	0.142	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM	AV, Riser	Circ Press psi	
Bit Depth	755.0 m	Open Hole	22.000	6.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	ppg							BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	ppg							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Rig Activity

Hold JSA and lift H4 connector and set in C-plate. Make up and run 22" riser. Wait on weather.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	
PAC-L	25 kg bag	18			18	
potassium hydroxide	25 kg bag	73			73	
sapp	25 kg bag	40			40	
sodium bicarbonate	25 kg bag	32			32	

Daily Products Cost	$0.00	Total Daily Cost			$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost			$43,414.84
Baroid Representatives	Eugene Edwards		Tim Waldhuter		
Office	90 Talinga Rd Melbourne		Telephone	61-03-9581-7555	
Warehouse	c/o of Esso Australia Ltd		Telephone	61-3-56-881-445	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	627.0	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information		
Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

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Baroid Fluid Services

Report No 009

Daily Drilling Fluid Report

Date 06/27/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Wait on weather	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	755.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Received 1064bbl of base oil and SBM chemicals from Ocean Battler.

Rig Activity

Continue to wait on weather. Continue to run 22" riser. Nipple up BOP.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
calcium chloride	1000 kg bag		52	52		$28,748.72
ACCOLADE BASE	1 bbl bulk		1,046.000		1,046.000	
ADAPTA HP	25 kg sack		72		72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum		8		8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	165.700	45.000		210.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack		160		160	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26				
Circal 60/16	25 kg sack	143	192		335	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum		4		4	
DEXTRID LTE	25 kg sack	75				
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum		36		36	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	775.8	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0
brine	148.8

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$28,748.72	Total Daily Cost	$31,248.72
Cumulative Products Cost	$52,163.56	Total Cumulative Cost	$74,663.56

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 010

Daily Drilling Fluid Report

Date 06/28/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Nipple up B.O.P.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD
Bit Size	in				30.000 @		128.8
Make/Type					16.000 @		750.0
Jets							
TFA	sq-in						
Jets Velocity	m/sec						
Jet Impact Force	lbf						
Bit HHSI	hhp/in2						
Press Drop @ Bit	psi						
Bit Depth 755.0	m	Open Hole 22.000		6.0			
ECD @ Csg Shoe	ppg						
ECD @ Bit	ppg						

Circulation/Hydraulics Data			
Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			
Total GPM	AV, Riser	Circ Press psi	
Total Circ Time	AV min DP	Tot Pres Loss	
BU Time , min	AV max DC	Press Drop DP	
Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Received 1692bbl of SBM ACCOLADE mud. 160bbl remaining on Ocean Valkyrie. Adjust oil/water ratio to 70/30 and treat to ensure properties within specifications. Weight SBM with Barite to 12.0ppg.

Rig Activity

Continue to nipple up BOP and pressure test. Make up 14 3/4" BHA and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE	bbl		1,692.0	1,692.0		$537,446.88
ACCOLADE BASE	1 bbl bulk	1,046.000		53.000	993.000	$19,929.59
ADAPTA HP	25 kg sack	72			72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	210.700			210.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	15			15	
Circal 60/16	25 kg sack	335			335	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	36			36	
lime	25 kg bag	6			6	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment			
Shaker	Screens	Hrs	
VSM-300	89		
VSM-300	89		
VSM-300	89		
VSM-300	89		
Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		
Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time	
Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	2.0
Logging	
Dir Work	
Repair	
Other	16.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2520.8	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0
brine	148.8
ACCOLADE	1745.0

Deviation Information	
Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$557,376.47	Total Daily Cost	$559,876.47
Cumulative Products Cost	$609,540.03	Total Cumulative Cost	$634,540.03

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 011

Daily Drilling Fluid Report

Date 06/29/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program		Fluid Treatments
Source		Pit #6	Pit #6						**Fluid Type**
Time		10:00	22:00						Continue to adjust active mud properties and weight to 12.0ppg.
Depth	m	755	755						Added 5 ppb Omyacarb 5 and 5 ppb Circal 60/16 to displacement volume.
FL Temp	Deg C								
Density @ Deg C	ppg	9.10 @ 20	12.00 @ 20			X	12.00	12.20	Drill out cement and shoe track with seawater and Guar Gum/PHB sweeps, returns overboard.
FV @ Deg C	sec/qt	70 @ 20	70 @ 20						
PV @ Deg C	cP	22 @ 49	31 @ 49						Received 457bbl, 11.3ppg brine.
YP	lbs/100 ft2	8	14						
GELS	lbs/100 ft2		8/12/15						
600/300		52.0/30.0	76.0/45.0						
200/100		23.0/14.0	35.0/23.0						
6/3		4.0/3.0	7.0/6.0						
NAP/Water Ratio		65.2/34.8	66.7/33.3						
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120						
Cake API/HTHP	32nd in	-/1	-/1						
Corr Solid	% by Vol	6.0	16.5						
NAP/Water	% by Vol	60.0/32.0	54.0/27.0						
Sand	% by vol								
Alkalinity Pom	ml								
AgNO3	ml	2.00	2.30						
THTS	ml	3.10	3.00						
CaCl2	ppb	27.44	29.12						
NaCl(Sol/Insol)	ppb		2.56/-						
WPS	ppm	196,562	250,803						
Excess Lime	ppb								
Elec Stability	volt	220	380						
LGS/HGS	% by vol	3.3/2.7	3.8/12.8						
LGS/HGS	ppb	30.06/40.00	34.36/188.01						
ASG	SG	3.323	3.835						
Additional Properties									
Density at Flow Line	ppg	9.10	12.00						

Rig Activity

Continue to RIH. Tag cement at 736m, drill out cement and shoe track with seawater. Drill 3m new formation, circulate hole clean and conduct LOT. EMW 13.7ppg at 650psi. POOH and lay out 14 3/4" BHA. Make up 13 1/2" BHA and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	210.700		111.720	98.980	$53,053.59
LE SUPERMUL	55 gal drum	36		11	25	$9,535.68
ADAPTA HP	25 kg sack	72		6	66	$3,005.76
RHEMOD L	55 gal drum	8		1	7	$2,213.79
Tau Mod	50 lb sack	60		5	55	$479.30
Circal 60/16	25 kg sack	335		37	298	$374.81
Omyacarb 5	25 kg bulk	321.000		37.000	284.000	$347.43
calcium chloride flake 77%	25 kg bag	15		1	14	$13.82
ACCOLADE BASE	1 bbl bulk	993.000			993.000	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Daily Products Cost	$69,024.18	Total Daily Cost	$71,524.18
Cumulative Products Cost	$678,564.22	Total Cumulative Cost	$706,064.22

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	89	
VSM-300	89	
VSM-300	89	
VSM-300	89	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	22.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	1.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2374.0	Total		Total Losses	

Fluid Types	Vol bbl
ACCOLADE	1917.0
brine	457.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 012

Daily Drilling Fluid Report

Date 06/30/2008		Depth 1,448.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500 in
Make/Type	REED/RSH616M-A3
Jets	3x18|3x16
TFA	1.335 sq-in
Jets Velocity	83.8 m/sec
Jet Impact Force	1958.1 lbf
Bit HHSI	3.78 hhp/in2
Press Drop @ Bit	810 psi
Bit Depth	1,448.0 m
ECD @ Csg Shoe	12.17 ppg
ECD @ Bit	12.09 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,264.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		693.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	96	96	0
gpm|bbl/min	573 13.65	573 13.65	
Total GPM	1,147	AV, Riser 18.9	Circ Press psi 3800
Total Circ Time	30	AV min DP 43.2	Tot Pres Loss 6787
BU Time , min	20	AV max DC	Press Drop DP 5812
Total Strokes	5,847	BU Strokes 3,860	Press Drop An 22

Properties		1	2	Hyd 3	4	Targets				Program	
Source		Flow Line	Pit #6	Pit #6	Flow Line						
Time		9:00	16:00	22:00	3:00						
Depth	m	1,038	1,244	1,424	758						
FL Temp	Deg C	32	49	52	25						
Density @ Deg C	ppg	11.90 @ 20	11.90 @ 49	12.00 @ 52	12.00 @ 20	X	X			12.00	12.20
FV @ Deg C	sec/qt	85 @ 20	76 @ 49	78 @ 52	70 @ 20						
PV @ Deg C	cP	32 @ 49	35 @ 49	37 @ 49	31 @ 49						
YP	lbs/100 ft2	24	33	37	14						
GELS	lbs/100 ft2	11/12/12	15/19/-	15/20/-	8/12/14						
600/300		88.0/56.0	103.0/68.0	111.0/74.0	76.0/45.0						
200/100		43.0/31.0	55.0/40.0	60.0/43.0	35.0/23.0						
6/3		10.0/9.0	16.0/14.0	16.0/15.0	7.0/6.0						
NAP/Water Ratio		65.0/35.0	67.5/32.5	65.9/34.1	70.0/30.0						
HTHP @ Deg C	ml/30 min	2.0 @ 120	4.0 @ 120	4.4 @ 120	4.0 @ 120						
Cake API/HTHP	32nd in	-/1		-/1	-/1						
Corr Solid	% by Vol	18.1	15.1	16.5	17.5						
NAP/Water	% by Vol	52.0/28.0	56.0/27.0	54.0/28.0	56.0/24.0						
Sand	% by vol										
Alkalinity Pom	ml										
AgNO3	ml	1.70	1.90	1.50	2.30						
THTS	ml	1.80	2.70	3.00	3.00						
CaCl2	ppb	17.47	26.07	20.58	29.12						
NaCl(Sol/Insol)	ppb	6.16/-			2.56/-						
WPS	ppm	194,058	215,968	173,349	273,577						
Excess Lime	ppb										
Elec Stability	volt	535	580	570	380						
LGS/HGS	% by vol	6.7/11.4	0.7/14.4	2.4/14.1	5.4/12.1						
LGS/HGS	ppb	61.18/167.27	6.77/211.26	21.73/208.23	49.64/177.49						
ASG	SG	3.606	4.121	3.969	3.702						
Additional Properties											
Density at Flow Line	ppg	11.95	11.90	12.00	11.95						

Fluid Treatments

Fluid Type ACCOLADE

Prepare 50bbl high vis spacer for displacement with Rheomod L.

Pump 50bbl spacer and displace lines and well to ACCOLADE mud. Added Barite direct to active to maintain mud weight 12.0ppg after displacement. Screened up shakers to 255's and 280's. Barite being stripped out, mud weight dropping to 11.7 - 11-9 ppg. Screened down shakers to 215's to control mud weight at 12 ppg. Added LE Supermul to active to ensure barite oil wet. Downhole losses in Latrobe formation of 10-20bbl/hr. Treated by direct addition of Steelseal, Circal 60/16 and Omyacarb 5 to active. Prepare 400bbl SBM premix using Base Oil/Brine.

Rig Activity

Continue to RIH. Hold PJSM and JSA for displacement to SBM. Displace lines and well to SBM. Drill 13 1/2" hole from 758m to 1448m.

Vol% Oil on cuttings: 6.21%

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	993.000		379.000	614.000	$142,515.37
LE SUPERMUL	55 gal drum	25		17	8	$14,736.96
barite	1000 kg bulk	98.980	102.000	30.980	170.000	$14,711.78
STEELSEAL	25 kg sack	180		60	120	$5,322.00
Omyacarb 5	25 kg bulk	284.000		44.000	240.000	$413.16
Circal 60/16	25 kg sack	298		22	276	$222.86
ADAPTA HP	25 kg sack	66			66	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	6			6	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	23.0
VSM-300	215 255	23.0
VSM-300	215 255	23.0
VSM-300	89	23.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	20.5
Circulating	2.5
Trips	1.0
Rig Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	20.5
ROP	33.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base		Fluid Dumped	
Pipe Cap	48.5	Drill Water		Transferred	
Active Pits	234.0	Dewatering		SCE	-153.0
Total Hole	597.5	Sea Water		Evaporation	
Total Circ	831.5	Whole Mud	398.0	Trips	
Reserve	991.0	Barite	46.4	Other	
Prev Vol	2374.0	Chemicals	31.5	Total Surface	
Net Change	240.3	Other		Downhole	-82.6
Total Vol	1822.5	Total	475.9	Total Losses	-235.6

Fluid Types	Vol bbl
brine	357.0
Base Oil	81.0

Deviation Information

Survey MD	1,404.6 m
Survey TVD	1,353.3 m
Angle	30.04 Deg
Direction	18
Horiz Displ.	51.3 m

Daily Products Cost	$177,922.13	Total Daily Cost	$180,422.13
Cumulative Products Cost	$856,486.35	Total Cumulative Cost	$886,486.35

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 013

Daily Drilling Fluid Report

Date 07/01/2008		Depth 1,720.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	REED/RSH616M-A3	
Jets	3x18|3x16	
TFA	1.335	sq-in
Jets Velocity	78.6	m/sec
Jet Impact Force	1735.3	lbf
Bit HHSI	3.14	hhp/in2
Press Drop @ Bit	718	psi
Bit Depth	1,720.0	m
ECD @ Csg Shoe	12.26	ppg
ECD @ Bit	12.17	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,536.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		965.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220		
Bore in	6.500	6.500	6.500		
Strokes in	14.000	14.000	14.000		
Eff(%)	99	99	99		
bbl/strk	0.142	0.142	0.142		
SPM	90	0	90		
gpm|bbl/min	538	12.80		538	12.80
Total GPM	1,075	AV, Riser	17.7	Circ Press psi	3100
Total Circ Time	34	AV min DP	40.5	Tot Pres Loss	7152
BU Time , min	21	AV max DC		Press Drop DP	6283
Total Strokes	6,178	BU Strokes	3,860	Press Drop An	20

Properties

		1	Hyd 2	3	4	Targets	Program	
Source		Flow Line	Flow Line	Pit #6	Flow Line			
Time		4:15	21:30	13:30	16:30			
Depth	m	1,505	1,685	1,542	1,599			
FL Temp	Deg C	60	66	61	64			
Density @ Deg C	ppg	12.10 @ 57	12.10 @ 61	12.10 @ 58	12.00 @ 60		12.00	12.20
FV @ Deg C	sec/qt	76 @ 57	78 @ 61	78 @ 58	70 @ 60			
PV @ Deg C	cP	35 @ 49	35 @ 49	45 @ 49	46 @ 49			
YP	lbs/100 ft2	38	36	40	39			
GELS	lbs/100 ft2	10/17/19	14/19/19	17/19/19	16/18/19			
600/300		108.0/73.0	106.0/71.0	130.0/85.0	131.0/85.0			
200/100		59.0/41.0	56.0/39.0	67.0/47.0	67.0/47.0			
6/3		16.0/15.0	15.0/13.0	17.0/15.0	17.0/14.0			
NAP/Water Ratio		63.8/36.3	67.5/32.5	66.7/33.3	67.9/32.1			
HTHP @ Deg C	ml/30 min	4.2 @ 120	4.0 @ 120	2.4 @ 120	2.8 @ 120			
Cake API/HTHP	32nd in	-/1	-/1	-/1	-/1			
Corr Solid	% by Vol	16.5	17.5	17.2	17.0			
NAP/Water	% by Vol	51.0/29.0	54.0/26.0	54.0/27.0	55.0/26.0			
Sand	% by vol							
Alkalinity Pom	ml							
AgNO3	ml	3.20	2.20	1.80	2.00			
THTS	ml	4.20	2.50	3.20	3.40			
CaCl2	ppb	40.77	24.27	24.70	27.44			
NaCl(Sol/Insol)	ppb	3.30/-	6.23/-					
WPS	ppm	302,408	250,717	206,954	231,424			
Excess Lime	ppb							
Elec Stability	volt	590	574	573	596			
LGS/HGS	% by vol	4.7/11.7	4.7/12.8	3.5/13.7	4.0/12.9			
LGS/HGS	ppb	43.25/172.54	43.03/188.22	32.03/201.52	36.77/190.46			
ASG	SG	3.739	3.768	3.873	3.820			
Additional Properties								
Density at Flow Line	ppg	12.10	12.10	0.00	12.10			

Fluid Treatments

Fluid Type ACCOLADE

Added Calcium Chloride to active to increase WPS. Continue to mix premix.

Built 241 bbls premix for volume.

Added 0.1ppb No sulf H2S scavenger.
Added 1 sx each of Circal 60/16, Omyacarb 5 and Steel Seal per stand. Added Barite to active as necessary to maintain mud weight and added LE Supermul to active to ensure Barite oil wet.

Rig Activity

Continue to drill 13 1/2" hole from 1448m to 1720m with surveys.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	614.000		310.000	304.000	$116,569.30
ADAPTA HP	25 kg sack	66		26	40	$13,024.96
Tau Mod	50 lb sack	55		50	5	$4,793.00
BARAKLEAN PLUS	1054 l bulk	1.000		1.000		$4,622.14
barite	1000 kg bulk	170.000		8.700	161.300	$4,131.46
LE SUPERMUL	55 gal drum	8		3	5	$2,600.64
RHEMOD L	55 gal drum	7		1	6	$2,213.79
NO-SULF	17 kg pail	48		10	38	$1,181.20
Calcium chloride 94%	25 kg sack	160		80	80	$1,105.60
STEELSEAL	25 kg sack	120		11	109	$975.70
Circal 60/16	25 kg sack	276		51	225	$516.63
Omyacarb 5	25 kg bulk	240.000		54.000	186.000	$507.06
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	215 255	24.0
VSM-300	215 255	24.0
VSM-300	89	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	11.3
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base	170.0	Fluid Dumped	
Pipe Cap	57.7	Drill Water		Transferred	
Active Pits	272.0	Dewatering		SCE	-91.0
Total Hole	606.6	Sea Water		Evaporation	-28.0
Total Circ	878.6	Whole Mud	220.0	Trips	
Reserve	1050.0	Barite	13.0	Other	
Prev Vol	1822.5	Chemicals	25.4	Total Surface	
Net Change	236.9	Other		Downhole	-72.5
Total Vol	1928.6	Total	428.4	Total Losses	-191.5

Fluid Types	Vol bbl
Base Oil	222.0
brine	307.0

Deviation Information

Survey MD	1,404.6	m
Survey TVD	1,353.3	m
Angle	30.04	Deg
Direction	18	
Horiz Displ.	51.3	m

Daily Products Cost	$152,241.48	Total Daily Cost	$154,741.48
Cumulative Products Cost	$1,008,727.82	Total Cumulative Cost	$1,041,227.82

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 014

Daily Drilling Fluid Report

Date 07/02/2008		Depth 2,031.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500 in
Make/Type	REED/RSH616M-A3
Jets	3x18|3x16
TFA	1.335 sq-in
Jets Velocity	78.6 m/sec
Jet Impact Force	1721.0 lbf
Bit HHSI	3.12 hhp/in2
Press Drop @ Bit	712 psi
Bit Depth	1,754.0 m
ECD @ Csg Shoe	12.15 ppg
ECD @ Bit	12.07 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,570.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,276.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220		
Bore in	6.500	6.500	6.500		
Strokes in	14.000	14.000	14.000		
Eff(%)	99	99	99		
bbl/strk	0.142	0.142	0.142		
SPM	90	0	90		
gpm|bbl/min	538 | 12.80		538 | 12.80		
Total GPM	1,075	AV, Riser	17.7	Circ Press psi	2400
Total Circ Time	36	AV min DP	40.5	Tot Pres Loss	7565
BU Time , min	21	AV max DC		Press Drop DP	6696
Total Strokes	6,531	BU Strokes	3,860	Press Drop An	20

Properties		1	2	3	Hyd 4	Targets	Program	
Source		Pit #6	Pit #6	Flow Line	Pit #6			
Time		11:30	16:30	4:30	21:30			
Depth	m	1,904	2,003	1,808	2,031			
FL Temp	Deg C	71	74	69	67			
Density @ Deg C	ppg	12.00 @ 60	11.90 @ 60	12.00 @ 60	12.00 @ 60		9.50	12.00
FV @ Deg C	sec/qt	74 @ 60	69 @ 60	71 @ 60	72 @ 60			
PV @ Deg C	cP	48 @ 49	49 @ 49	39 @ 49	38 @ 49	X X		45
YP	lbs/100 ft2	43	42	36	34			
GELS	lbs/100 ft2	17/21/21	18/21/20	15/18/-	14/19/19			
600/300		139.0/91.0	140.0/91.0	114.0/75.0	110.0/72.0			
200/100		73.0/51.0	76.0/52.0	60.0/42.0	56.0/39.0			
6/3		17.0/15.0	18.0/15.0	15.0/13.0	15.0/13.0			
NAP/Water Ratio		70.0/30.0	70.0/30.0	68.8/31.3	70.0/30.0			
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120	3.0 @ 120			8.0
Cake API/HTHP	32nd in	-/1	-/1	-/1	-/1			
Corr Solid	% by Vol	17.2	17.1	17.7	17.4			
NAP/Water	% by Vol	56.0/24.0	56.0/24.0	55.0/25.0	56.0/24.0			
Sand	% by vol							
Alkalinity Pom	ml							
AgNO3	ml	2.40	2.40	2.20	2.40			
THTS	ml	2.60	2.50	3.30	3.30			
CaCl2	ppb	25.24	24.27	30.18	32.03			
NaCl(Sol/Insol)	ppb	8.09/-	9.12/-		0.94/-			
WPS	ppm	283,783	284,097	256,211	281,581			
Excess Lime	ppb							
Elec Stability	volt	520	535	516	546			
LGS/HGS	% by vol	4.9/12.3	5.6/11.6	5.9/11.8	5.5/11.9			
LGS/HGS	ppb	44.60/180.88	50.63/170.60	53.69/174.30	50.33/175.51			
ASG	SG	3.744	3.682	3.668	3.693			
Additional Properties								
Density at Flow Line	ppg	12.10	12.00	12.00	12.00			

Fluid Treatments

Fluid Type ACCOLADE

Weighted 235bbl of premix with Barite to 10.6ppg to allow addition to active without reduction in mud weight.

Continue to add 1sx each Steel Seal, Circal 60/16 and Omyacarb 5 each stand and increased rate of addition to every 30 minutes as required.
Prepared 285bbl premix with Base Oil/Brine for volume. Prepared HW slug for POOH. No dynamic losses prior to POOH.

Upgraded shaker #4 to 145/215 mesh to aid solids control.

Rig Activity

Continue to drill 13 1/2" hole from 1720m to 1928m. Troubleshoot camera screen on cyberbase, circ and work string. Continue drilling 13 1/2" hole from 1928m to 2017m Troubleshoot top-drive problem. Continue to drill 13 1/2" hole from 2017m to 2031m. Circ hole clean, flow check and POOH wet 5 stands. Pump 30bbl slug and continue to POOH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	161.300		12.170	149.130	$5,779.29
LE SUPERMUL	55 gal drum	5		3	2	$2,600.64
STEELSEAL	25 kg sack	109		27	82	$2,394.90
Circal 60/16	25 kg sack	225		36	189	$364.68
Omyacarb 5	25 kg bulk	186.000		37.000	149.000	$347.43
NO-SULF	17 kg pail	38		1	37	$118.12
Tau Mod	50 lb sack	5		1	4	$95.86
lime	25 kg bag	6		2	4	$13.10
ACCOLADE BASE	1 bbl bulk	304.000			304.000	
ADAPTA HP	25 kg sack	40			40	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	21.0
VSM-300	215 255	21.0
VSM-300	215 255	21.0
VSM-300	145 215	21.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	5.0
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	7.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base		Fluid Dumped	
Pipe Cap	58.8	Drill Water		Transferred	
Active Pits	321.0	Dewatering		SCE	-102.0
Total Hole	607.8	Sea Water		Evaporation	-19.0
Total Circ	928.8	Whole Mud	272.0	Trips	
Reserve	911.0	Barite	18.2	Other	
Prev Vol	1928.6	Chemicals	10.8	Total Surface	
Net Change	88.3	Other		Downhole	-91.7
Total Vol	1839.8	Total	301.0	Total Losses	-212.7

Fluid Types	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0 m
Survey TVD	1,868.4 m
Angle	27.26 Deg
Direction	182
Horiz Displ.	129.6 m

Daily Products Cost	$11,714.02	Total Daily Cost	$14,214.02
Cumulative Products Cost	$1,020,441.84	Total Cumulative Cost	$1,055,441.84
Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 015

Daily Drilling Fluid Report

Date	07/03/2008	Depth	2,047.0 m
Spud Date	06/20/2008	Rig Activity	Tripping

Operator: NEXUS ENERGY	Report For: Sean DeFreitas/Stefan Schmidt	Well Name: Longtom - 4	
Contractor: Seadrill	Report For: Mike Barry	Rig Name: West Triton	Unit System: Nexus Energy
Country: Australia	State/Province/Region: Victoria	Geographic Area/County: Bass Strait	Field or Block: VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	SMITH/M516LSPX	
Jets	3x18|2x20	
TFA	1.359	sq-in
Jets Velocity	80.6	m/sec
Jet Impact Force	1844.2	lbf
Bit HHSI	3.43	hhp/in2
Press Drop @ Bit	749	psi
Bit Depth	2,047.0	m
ECD @ Csg Shoe	12.16	ppg
ECD @ Bit	12.22	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,863.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,282.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	94	94	0
gpm|bbl/min	561 | 13.37	561 | 13.37	

Total GPM	1,123	AV, Riser	18.5	Circ Press psi	3300
Total Circ Time	56	AV min DP	42.3	Tot Pres Loss	9343
BU Time , min	44	AV max DC	74.1	Press Drop DP	8374
Total Strokes	10,600	BU Strokes	8,198	Press Drop An	72

Properties		Hyd 1	2	3	4	Targets	Program	
Source		Pit #6	Pit #6					
Time		2:30	20:00					
Depth	m	2,031	2,031					
FL Temp	Deg C							
Density @ Deg C	ppg	12.00 @ 60	12.00 @ 30				9.50	12.00
FV @ Deg C	sec/qt	75 @ 60	126 @ 30					
PV @ Deg C	cP	38 @ 49	38 @ 49					45
YP	lbs/100 ft2	34	34					
GELS	lbs/100 ft2	14/19/19	14/19/19					
600/300		110.0/72.0	110.0/72.0					
200/100		56.0/39.0	56.0/39.0					
6/3		15.0/13.0	15.0/13.0					
NAP/Water Ratio		70.0/30.0	70.0/30.0					
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120					8.0
Cake API/HTHP	32nd in	-/1	-/1					
Corr Solid	% by Vol	17.4	17.4					
NAP/Water	% by Vol	56.0/24.0	56.0/24.0					
Sand	% by vol		0.20					
Alkalinity Pom	ml							
AgNO3	ml	2.40	2.40					
THTS	ml	3.30	3.30					
CaCl2	ppb	32.03	32.03					
NaCl(Sol/Insol)	ppb	0.94/-	0.94/-					
WPS	ppm	281,581	281,581					
Excess Lime	ppb							
Elec Stability	volt	546	546					
LGS/HGS	% by vol	5.5/11.9	5.5/11.9					
LGS/HGS	ppb	50.33/175.51	50.33/175.51					
ASG	SG	3.693	3.693					
Additional Properties								
Density at Flow Line	ppg	0.00	0.00					

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix premix in pit 7 for volume.

Base Oil Volumes:
Rig: 270bbl
Valkyrie: 635bbl
Battler: 440bbl

Rig Activity

Continue to POOH. Change bit and BHA. RIH and continue drilling 13 1/2" hole from 2031m to 2047m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	304.000		14.000	290.000	$5,264.42
ADAPTA HP	25 kg sack	40		8	32	$4,007.68
LE SUPERMUL	55 gal drum	2		1	1	$866.88
Tau Mod	50 lb sack	4		4		$383.44
Circal 60/16	25 kg sack	189		15	174	$151.95
Omyacarb 5	25 kg bulk	149.000		15.000	134.000	$140.85
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	149.130			149.130	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	215 255	24.0
VSM-300	215 255	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.0
Circulating	
Trips	22.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	2.0
ROP	8.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1165.8	Base	14.0	Fluid Dumped	
Pipe Cap	68.7	Drill Water		Transferred	
Active Pits	273.0	Dewatering		SCE	-4.0
Total Hole	1234.5	Sea Water		Evaporation	
Total Circ	1507.5	Whole Mud		Trips	-20.0
Reserve	940.0	Barite		Other	
Prev Vol	1839.8	Chemicals	4.5	Total Surface	
Net Change	-29.3	Other		Downhole	-23.9
Total Vol	2447.5	Total	18.5	Total Losses	-47.9

Fluid Types

	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0	m
Survey TVD	1,868.4	m
Angle	27.26	Deg
Direction	182	
Horiz Displ.	129.6	m

Daily Products Cost	$10,815.22	Total Daily Cost	$13,315.22
Cumulative Products Cost	$1,031,257.06	Total Cumulative Cost	$1,068,757.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 016

Daily Drilling Fluid Report

Date 07/04/2008		Depth 2,405.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500 in
Make/Type	SMITH/M516LSPX
Jets	3x18|2x20
TFA	1.359 sq-in
Jets Velocity	53.2 m/sec
Jet Impact Force	802.3 lbf
Bit HHSI	0.98 hhp/in2
Press Drop @ Bit	326 psi
Bit Depth	2,405.0 m
ECD @ Csg Shoe	12.15 ppg
ECD @ Bit	12.22 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,221.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,656.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220			
Bore in	6.500	6.500	6.500			
Strokes in	14.000	14.000	14.000			
Eff(%)	99	99	99			
bbl/strk	0.142	0.142	0.142			
SPM	0	62	62			
gpm|bbl/min		370 | 8.82	370 | 8.82			
Total GPM	741	AV, Riser	12.2	Circ Press psi	2945	
Total Circ Time	97	AV min DP	27.9	Tot Pres Loss	5456	
BU Time , min	76	AV max DC	48.9	Press Drop DP	4973	
Total Strokes	12,041	BU Strokes	9,448	Press Drop An	83	

Properties		1	2	3	Hyd 4	Targets	Program	
Source		Flow Line	Flow Line	Flow Line	Pit #6			
Time		2:20	10:10	17:00	22:00			
Depth	m	2,140	2,347	2,405	2,405			
FL Temp	Deg C	67	70	70	70			
Density @ Deg C	ppg	12.00 @ 60	12.00 @ 60	12.00 @ 65	12.00 @ 65		9.50	12.00
FV @ Deg C	sec/qt	71 @ 60	78 @ 60	84 @ 65	78 @ 65			
PV @ Deg C	cP	41 @ 49	43 @ 49	41 @ 49	41 @ 49			45
YP	lbs/100 ft2	33	38	38	38			
GELS	lbs/100 ft2	15/19/19	16/19/20	16/19/19	16/19/19			
600/300		115.0/74.0	124.0/81.0	120.0/79.0	120.0/79.0			
200/100		58.0/40.0	62.0/44.0	60.0/42.0	62.0/42.0			
6/3		16.0/14.0	16.0/13.0	16.0/14.0	16.0/14.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	70.0/30.0	70.0/30.0			
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	4.0 @ 120	4.0 @ 120			8.0
Cake API/HTHP	32nd in		-/1	-/1	-/1			
Corr Solid	% by Vol	18.7	18.8	18.0	17.8			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	56.0/24.0	56.0/24.0			
Sand	% by vol	1.00	0.50	0.50	0.50			
Alkalinity Pom	ml							
AgNO3	ml	2.20	2.10	2.00	2.10			
THTS	ml	3.30	3.10	3.00	3.10			
CaCl2	ppb	30.18	28.81	27.44	28.81			
NaCl(Sol/Insol)	ppb							
WPS	ppm	264,068	255,127	245,966	255,127			
Excess Lime	ppb							
Elec Stability	volt	460	490	495	465			
LGS/HGS	% by vol	7.9/10.9	7.9/10.9	5.9/12.1	5.8/12.0			
LGS/HGS	ppb	71.61/159.89	72.19/160.68	53.49/177.88	52.94/177.05			
ASG	SG	3.528	3.527	3.677	3.679			
Additional Properties								
Density at Flow Line	ppg	12.00	12.00	12.00	12.05			

Fluid Treatments

Fluid Type ACCOLADE

Weight 250bbl premix to 12.0ppg to allow addition to active without reduction in mud weight. Increase in LGS indicative of damaged screens. Immediately checked all screens and replaced damaged screens. 4x280 mesh, 2x215 mesh.

Received: 75MT Barite.
460bbl Base Oil

Oil cutiings average: 8.68%

Rig Activity

Continue drilling 13 1/2" hole from 2047m to 2346m with surveys. Stop drilling due to leak between standpipe manifold and mud hose. Replace hose. Continue drilling 13 1/2" hole from from 2346m to 2405m. Repair leak on standpipe 1. Attempt to POOH 4 stands - no go, 25k overpull and swabbing. Rig up side entry sub and hoses to circulate. Continue to repair leak on standpipe while circulating.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	149.130	75.000	22.480	201.650	$10,675.30
ACCOLADE BASE	1 bbl bulk	290.000	640.000	20.000	910.000	$7,520.60
ADAPTA HP	25 kg sack	32			32	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	174			174	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	1			1	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	
OMC	55 gal drum	8			8	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	11.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	13.0
Other	
Total	24.0
Rotating	11.0
ROP	32.5
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1343.6	Base	20.0	Fluid Dumped	
Pipe Cap	80.7	Drill Water		Transferred	
Active Pits	288.0	Dewatering		SCE	-106.0
Total Hole	1424.3	Sea Water		Evaporation	
Total Circ	1712.3	Whole Mud		Trips	
Reserve	680.0	Barite	33.7	Other	
Prev Vol	2453.3	Chemicals		Total Surface	
Net Change	-61.0	Other		Downhole	-8.6
Total Vol	2392.3	Total	53.7	Total Losses	-114.6

Fluid Types	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0 m
Survey TVD	1,868.4 m
Angle	27.26 Deg
Direction	182
Horiz Displ.	129.6 m

Daily Products Cost	$18,195.90	Total Daily Cost	$20,695.90
Cumulative Products Cost	$1,049,452.97	Total Cumulative Cost	$1,089,452.97

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

HALLIBURTON | Fluid Systems

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Baroid Fluid Services

Report No 017

Daily Drilling Fluid Report

Date 07/05/2008		Depth 2,463.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500 in
Make/Type	SMITH/M516LSPX
Jets	3x18|2x20
TFA	1.359 sq-in
Jets Velocity	80.6 m/sec
Jet Impact Force	1844.2 lbf
Bit HHSI	3.43 hhp/in2
Press Drop @ Bit	749 psi
Bit Depth	2,463.0 m
ECD @ Csg Shoe	12.17 ppg
ECD @ Bit	12.25 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,279.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,685.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	99		99		99	
bbl/strk	0.142		0.142		0.142	
SPM	94		94		0	
gpm|bbl/min	561	13.37	561	13.37		
Total GPM	1,123	AV, Riser	18.5	Circ Press psi	3960	
Total Circ Time	63	AV min DP	42.3	Tot Pres Loss	11352	
BU Time , min	51	AV max DC	74.1	Press Drop DP	10353	
Total Strokes	11,931	BU Strokes	9,570	Press Drop An	98	

Properties		1	2	Hyd 3	4	Targets	Program	
Source		Pit #6	Flow Line	Flow Line				
Time		2:30	13:00	21:00				
Depth	m	2,405	2,433	2,434				
FL Temp	Deg C	70	70	70				
Density @ Deg C	ppg	12.00 @ 68	12.00 @ 70	12.00 @ 70			9.50	12.00
FV @ Deg C	sec/qt	71 @ 68	74 @ 70	74 @ 70				
PV @ Deg C	cP	38 @ 49	49 @ 49	45 @ 49		X		45
YP	lbs/100 ft2	38	41	37				
GELS	lbs/100 ft2	14/19/19	16/19/21	15/21/21				
600/300		114.0/76.0	139.0/90.0	127.0/82.0				
200/100		58.0/40.0	72.0/49.0	65.0/45.0				
6/3		15.0/13.0	16.0/14.0	16.0/14.0				
NAP/Water Ratio		70.0/30.0	70.0/30.0	70.0/30.0				
HTHP @ Deg C	ml/30 min	4.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/1	-/1	-/1				
Corr Solid	% by Vol	17.8	17.8	17.7				
NAP/Water	% by Vol	56.0/24.0	56.0/24.0	56.0/24.0				
Sand	% by vol	0.50	0.50	0.50				
Alkalinity Pom	ml							
AgNO3	ml	2.10	2.10	2.20				
THTS	ml	3.20	3.20	3.00				
CaCl2	ppb	28.81	28.81	29.12				
NaCl(Sol/Insol)	ppb			1.12/-				
WPS	ppm	255,127	255,127	264,401				
Excess Lime	ppb							
Elec Stability	volt	545	530	574				
LGS/HGS	% by vol	5.8/12.0	5.8/12.0	5.6/12.0				
LGS/HGS	ppb	52.94/177.05	52.94/177.05	51.43/177.14				
ASG	SG	3.679	3.679	3.689				
Additional Properties								
Density at Flow Line	ppg	12.05	12.00	12.05				

Fluid Treatments

Fluid Type ACCOLADE

Added Circal 60/16, Omyacarb 5 and Steel Seal to active while circulating during repairs to minimize seepage losses and maintain concentrations.

Prepare further 420bbl premix for volume if required or to be used on next hole section.

Recd chemicals on manifest WT-0068 OUT

Base Oil volumes:
Rig 626bbl
Valkyrie 81bbl
Battler 440bbl

Rig Activity

Continue to repair stand pipe. Continue drilling 13 1/2" hole from 2405m to 2434m. Circulate through cement hose and repair stand pipe manifold leak. Continue drilling 13 1/2" hole from 2434m to 2464m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	910.000		284.000	626.000	$106,792.52
STEELSEAL	25 kg sack	82	60	22	120	$1,951.40
LE SUPERMUL	55 gal drum	1	20	2	19	$1,733.76
Circal 60/16	25 kg sack	174		20	154	$202.60
Omyacarb 5	25 kg bulk	134.000		20.000	114.000	$187.80
ADAPTA HP	25 kg sack	32	120		152	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	201.650			201.650	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.5
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	21.5
Other	
Total	24.0
Rotating	2.5
ROP	23.2
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1361.0	Base	284.0	Fluid Dumped	
Pipe Cap	82.7	Drill Water		Transferred	-0.1
Active Pits	253.0	Dewatering		SCE	-18.0
Total Hole	1443.7	Sea Water		Evaporation	-23.0
Total Circ	1696.7	Whole Mud	82.1	Trips	
Reserve	972.0	Barite		Other	
Prev Vol	2392.3	Chemicals	6.9	Total Surface	
Net Change	286.7	Other		Downhole	-45.2
Total Vol	2668.7	Total	373.0	Total Losses	-86.3

Fluid Types	Vol bbl
brine	175.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$110,868.08	Total Daily Cost	$113,368.08
Cumulative Products Cost	$1,160,321.05	Total Cumulative Cost	$1,202,821.05

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 018

Daily Drilling Fluid Report

Date 07/06/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Flow Line	Flow Line	Pit #6				
Time		4:30	8:00	20:00				
Depth	m	2,578	2,600	2,600				
FL Temp	Deg C	71	70					
Density @ Deg C	ppg	12.00 @ 70	12.00 @ 60	12.00 @ 45			9.50	12.00
FV @ Deg C	sec/qt	71 @ 70	63 @ 60	70 @ 45				
PV @ Deg C	cP	43 @ 49	40 @ 49	40 @ 49				45
YP	lbs/100 ft2	36	35	35				
GELS	lbs/100 ft2	15/20/20	15/19/20	15/19/19				
600/300		122.0/79.0	115.0/75.0	115.0/75.0				
200/100		62.0/43.0	57.0/40.0	57.0/40.0				
6/3		16.0/14.0	14.0/12.0	14.0/12.0				
NAP/Water Ratio		70.5/29.5	70.5/29.5	70.5/29.5				
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/1	-/2	-/1				
Corr Solid	% by Vol	19.5	19.7	19.7				
NAP/Water	% by Vol	55.0/23.0	55.0/23.0	55.0/23.0				
Sand	% by vol	0.75	0.50	0.50				
Alkalinity Pom	ml							
AgNO3	ml	2.30	2.10	2.10				
THTS	ml	3.00	2.60	2.60				
CaCl2	ppb	29.12	25.24	25.24				
NaCl(Sol/Insol)	ppb	2.56/-	3.76/-	3.76/-				
WPS	ppm	282,116	264,542	264,542				
Excess Lime	ppb							
Elec Stability	volt	570	550	547				
LGS/HGS	% by vol	9.5/10.0	9.5/10.1	9.5/10.1				
LGS/HGS	ppb	86.76/146.74	87.01/149.18	87.01/149.18				
ASG	SG	3.418	3.424	3.424				
Additional Properties								
Density at Flow Line	ppg	12.10	12.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix premix in pit 5. Weighted 200bbl premix to 12.0ppg with Barite to build volume prior to POOH for logging. LGS increase due to degasser pumping sand trap 1 into the active system on connections. Prepare HW slug x2 in slug pit for POOH. Weighting remaining premix with Barite to 12.0ppg.

Base Oil volumes:
Rig 596bbl
Valkyrie 81bbl
Battler 452bbl

Rig Activity

Continue drill 13 1/2" hole from 2464m to 2600m TD. Circ hole clean. POOH 10 stds wet. Pump HW slug. Continue to POOH from 2316m to 2049m, tight spot @2215m, 20k overpull. Cont to POOH from 2049m to 1741m Worked tight spots at 1888m, 1781m - 1752m, 1752m - 1727m. Unable to wipe @1741m. Circ and work string from 1752m to 1727m. Attempt to POOH on elevators from 1727m to 1715m, 20-25k overpull. Backream from 1727m to 1604m. POOH from 1604m to 1574m. Make up TDS and circ bottoms up. RIH from 1547m to 1781m, hole good. Continue to POOH to surface. Break bit and rack back BHA.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	201.650		49.410	152.240	$23,463.82
ACCOLADE BASE	1 bbl bulk	626.000		30.000	596.000	$11,280.90
ADAPTA HP	25 kg sack	152		14	138	$7,013.44
LE SUPERMUL	55 gal drum	19		6	13	$5,201.28
Tau Mod	50 lb sack		60	35	25	$3,355.10
Circal 60/16	25 kg sack	154		30	124	$303.90
Omyacarb 5	25 kg bulk	114.000		18.000	96.000	$169.02
Circal Y	25 kg sack	286		12	274	$153.60
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	6.0
Circulating	2.5
Trips	14.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	1.5
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	7.5
ROP	22.8
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	30.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	213.0	Dewatering		SCE	-55.0
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	213.0	Whole Mud		Trips	-6.0
Reserve	792.0	Barite	74.0	Other	
Prev Vol	2679.2	Chemicals	15.8	Total Surface	
Net Change	25.3	Other		Downhole	-33.5
Total Vol	2704.3	Total	119.9	Total Losses	-94.5

Fluid Types	Vol bbl
brine	175.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$50,941.06	Total Daily Cost	$53,441.06
Cumulative Products Cost	$1,211,262.11	Total Cumulative Cost	$1,256,262.11
Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 019

Daily Drilling Fluid Report

Date 07/07/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

	OD	Set	MD
	30.000	@	128.8
	16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM		AV, Riser	Circ Press psi
Total Circ Time		AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets			Program	
Source		Pit #6	Pit #6	Pit #6						
Time		3:00	12:00	21:30						
Depth	m	2,600	2,600	2,600						
FL Temp	Deg C									
Density @ Deg C	ppg	12.00 @ 40	12.10 @ 30	12.20 @ 18			X	X	9.50	12.00
FV @ Deg C	sec/qt	84 @ 40	90 @ 30	135 @ 18						
PV @ Deg C	cP	40 @ 49	37 @ 49	37 @ 49						45
YP	lbs/100 ft2	35	36	36						
GELS	lbs/100 ft2	15/19/19	15/19/19	14/19/19						
600/300		115.0/75.0	110.0/73.0	110.0/73.0						
200/100		57.0/40.0	60.0/42.0	60.0/42.0						
6/3		14.0/12.0	14.0/12.0	14.0/12.0						
NAP/Water Ratio		70.5/29.5	70.5/29.5	71.8/28.2						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	2.5 @ 120						8.0
Cake API/HTHP	32nd in	-/1	-/2	-/2						
Corr Solid	% by Vol	19.7	19.7	19.6						
NAP/Water	% by Vol	55.0/23.0	55.0/23.0	56.0/22.0						
Sand	% by vol	0.50	0.50	0.50						
Alkalinity Pom	ml									
AgNO3	ml	2.10	2.20	2.20						
THTS	ml	2.60	3.00	3.00						
CaCl2	ppb	25.24	29.12	29.12						
NaCl(Sol/Insol)	ppb	3.76/-	1.12/-	1.12/-						
WPS	ppm	264,542	272,761	281,667						
Excess Lime	ppb									
Elec Stability	volt	556	550	629						
LGS/HGS	% by vol	9.5/10.1	9.0/10.7	8.1/11.6						
LGS/HGS	ppb	87.01/149.18	81.76/157.39	73.55/170.43						
ASG	SG	3.424	3.470	3.543						
Additional Properties										
Density at Flow Line	ppg	0.00	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Dressed shakers with all 255/280 mesh for next hole section, 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr.

Received:
Part delivery of manifest WT-0069 OUT
79MT Barite

Base Oil volumes:
Rig 261bbl
Valkyrie 81bbl
Battler 452bbl

Rig Activity

Rig up Schluberger and run wire-line logs as per program.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	596.000		335.000	261.000	$125,970.05
LE SUPERMUL	55 gal drum	13		12	1	$10,402.56
ADAPTA HP	25 kg sack	138		17	121	$8,516.32
Tau Mod	50 lb sack	25		25		$2,396.50
RHEMOD L	55 gal drum	14		1	13	$2,213.79
barite	1000 kg bulk	152.240	79.320	2.350	229.210	$1,115.97
Circal 60/16	25 kg sack	124	48	45	127	$455.85
Omyacarb 5	25 kg bulk	96.000	96.000	35.000	157.000	$328.65
Circal Y	25 kg sack	274		15	259	$192.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80	80		160	
calcium chloride flake 77%	25 kg bag	14			14	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Daily Products Cost	$151,591.69	Total Daily Cost	$154,091.69
Cumulative Products Cost	$1,362,853.79	Total Cumulative Cost	$1,410,353.79

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	255 280	
VSM-300	255 280	
VSM-300	255 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	24.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	335.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	210.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	210.0	Whole Mud		Trips	
Reserve	1148.0	Barite	3.5	Other	
Prev Vol	2704.3	Chemicals	26.8	Total Surface	
Net Change	353.0	Other		Downhole	-12.3
Total Vol	3057.3	Total	365.3	Total Losses	-12.3

Fluid Types	Vol bbl
brine	175.0
Base Oil	69.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 020

Daily Drilling Fluid Report

Date 07/08/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program	
Source		Pit #6	Pit #6	Pit #6							
Time		3:00	16:00	21:00							
Depth	m	2,600	2,600	2,600							
FL Temp	Deg C										
Density @ Deg C	ppg	12.20 @ 18	12.20 @ 18	12.20 @ 18		X	X	X		9.50	12.00
FV @ Deg C	sec/qt	135 @ 18	135 @ 18	135 @ 18							
PV @ Deg C	cP	37 @ 49	34 @ 49	34 @ 49							45
YP	lbs/100 ft2	36	29	29							
GELS	lbs/100 ft2	14/19/19	14/18/19	14/19/19							
600/300		110.0/73.0	97.0/63.0	97.0/63.0							
200/100		60.0/42.0	50.0/34.0	50.0/34.0							
6/3		14.0/12.0	13.0/11.0	13.0/11.0							
NAP/Water Ratio		70.5/29.5	72.5/27.5	72.5/27.5							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120							8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2							
Corr Solid	% by Vol	19.7	17.3	17.3							
NAP/Water	% by Vol	55.0/23.0	58.0/22.0	58.0/22.0							
Sand	% by vol	0.50	0.25	0.50							
Alkalinity Pom	ml										
AgNO3	ml	2.20	2.40	2.40							
THTS	ml	3.00	3.00	3.00							
CaCl2	ppb	29.12	29.12	29.12							
NaCl(Sol/Insol)	ppb	1.12/-	4.01/-	4.01/-							
WPS	ppm	272,761	300,493	300,493							
Excess Lime	ppb										
Elec Stability	volt	574	700	657							
LGS/HGS	% by vol	8.2/11.4	3.4/13.9	3.4/13.9							
LGS/HGS	ppb	74.94/168.42	31.36/203.98	31.36/203.98							
ASG	SG	3.531	3.882	3.882							
Additional Properties											
Density at Flow Line	ppg	0.00	0.00	0.00							

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix unweighted premix in pit 7.

Rig Activity

Continue wireline logging. Rig down Schlumberger and make up BHA for wiper trip.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Tau Mod	50 lb sack		30	17	13	$1,629.62
ACCOLADE BASE	1 bbl bulk	261.000			261.000	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	229.210			229.210	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	127			127	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	1			1	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	1.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	23.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	205.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	205.0	Whole Mud	90.0	Trips	
Reserve	1234.0	Barite		Other	
Prev Vol	3057.3	Chemicals	1.1	Total Surface	
Net Change	81.0	Other		Downhole	-10.1
Total Vol	3138.3	Total	91.1	Total Losses	-10.1

Fluid Types

	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$1,629.62	Total Daily Cost	$4,129.62
Cumulative Products Cost	$1,364,483.41	Total Cumulative Cost	$1,414,483.41

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 021

Daily Drilling Fluid Report

Date 07/09/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program	
Source		Pit #6	Flow Line	Pit #6							
Time		2:00	15:00	20:00							
Depth	m	2,600	2,600	2,600							
FL Temp	Deg C		41								
Density @ Deg C	ppg	12.20 @ 18	12.10 @ 30	12.10 @ 24		X	X	X		9.50	12.00
FV @ Deg C	sec/qt	135 @ 18	96 @ 30	112 @ 24							
PV @ Deg C	cP	34 @ 49	46 @ 49	44 @ 49			X				45
YP	lbs/100 ft2	29	32	32							
GELS	lbs/100 ft2	14/19/19	15/19/20	15/19/19							
600/300		97.0/63.0	124.0/78.0	120.0/76.0							
200/100		50.0/34.0	61.0/42.0	59.0/40.0							
6/3		13.0/11.0	15.0/13.0	15.0/13.0							
NAP/Water Ratio		72.5/27.5	74.4/25.6	74.4/25.6							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120							8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2							
Corr Solid	% by Vol	17.3	19.3	19.3							
NAP/Water	% by Vol	58.0/22.0	58.0/20.0	58.0/20.0							
Sand	% by vol	0.50	0.50	0.50							
Alkalinity Pom	ml										
AgNO3	ml	2.40	2.40	2.40							
THTS	ml	3.00	3.00	3.00							
CaCl2	ppb	29.12	29.12	29.12							
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-	4.01/-							
WPS	ppm	300,493	320,899	320,899							
Excess Lime	ppb										
Elec Stability	volt	684	500	476							
LGS/HGS	% by vol	3.4/13.9	8.1/11.2	8.1/11.2							
LGS/HGS	ppb	31.36/203.98	73.72/164.43	73.72/164.43							
ASG	SG	3.882	3.528	3.528							
Additional Properties											
Density at Flow Line	ppg	0.00	12.10	0.00							

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH on wiper trip.

No evidence of Barite Sag monitored on bottoms up from wiper trip.

Rig Activity

Continue to make up BHA and RIH for wiper trip.
Circ hole clean and POOH for wire-line log.
Hole found to be in good condition with no evidence of Barite Sag.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	261.000		6.200	254.800	$2,331.39
barite	1000 kg bulk	229.210		4.380	224.830	$2,079.97
LE SUPERMUL	55 gal drum	1	20	1	20	$866.88
Circal 60/16	25 kg sack	127		5	122	$50.65
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	8.0
VSM-300	255 280	8.0
VSM-300	255 280	8.0
VSM-300	255 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	22.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	342.0	Dewatering		SCE	-20.0
Total Hole	1699.3	Sea Water		Evaporation	-2.0
Total Circ	342.0	Whole Mud		Trips	-17.0
Reserve	1052.0	Barite	6.6	Other	
Prev Vol	3138.3	Chemicals	1.6	Total Surface	
Net Change	-45.0	Other		Downhole	-14.2
Total Vol	3093.3	Total	8.2	Total Losses	-53.2

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$5,328.89	Total Daily Cost	$7,828.89
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,422,312.30

Baroid Representatives Brian Auckram Tim Waldhuter
Office 90 Talinga Rd Melbourne Telephone 61-03-9581-7555
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Baroid Fluid Services

Report No 022

Daily Drilling Fluid Report

Date 07/10/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program	
Source		Pit #6	Flow Line	Pit #6							
Time		2:00	12:00	22:00							
Depth	m	2,600	2,600	2,600							
FL Temp	Deg C										
Density @ Deg C	ppg	12.10 @ 20	12.10 @ 30	12.10 @ 20		X	X	X		9.50	12.00
FV @ Deg C	sec/qt	120 @ 20	150 @ 30	120 @ 20							
PV @ Deg C	cP	44 @ 49	46 @ 49	44 @ 49			X				45
YP	lbs/100 ft2	32	32	32							
GELS	lbs/100 ft2	15/19/19	15/19/20	15/19/20							
600/300		120.0/76.0	124.0/78.0	120.0/76.0							
200/100		59.0/40.0	61.0/42.0	60.0/41.0							
6/3		15.0/13.0	15.0/13.0	15.0/14.0							
NAP/Water Ratio		74.4/25.6	74.4/25.6	74.4/25.6							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120							8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2							
Corr Solid	% by Vol	19.3	19.3	19.3							
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	58.0/20.0							
Sand	% by vol	0.50	0.25	0.25							
Alkalinity Pom	ml										
AgNO3	ml	2.40	2.40	2.40							
THTS	ml	3.00	3.00	3.00							
CaCl2	ppb	29.12	29.12	29.12							
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-	4.01/-							
WPS	ppm	320,899	320,899	320,899							
Excess Lime	ppb										
Elec Stability	volt	547	520	520							
LGS/HGS	% by vol	8.1/11.2	8.1/11.2	8.1/11.2							
LGS/HGS	ppb	73.72/164.43	73.72/164.43	73.72/164.43							
ASG	SG	3.528	3.528	3.528							
Additional Properties											
Density at Flow Line	ppg	0.00	0.00	0.00							

Fluid Treatments

Fluid Type ACCOLADE

Flushed standpipe and lines with water/Baraklean, returns to slops pit.

Rig Activity

Continue to POOH. Rig up Schlumberger and run wire-line log. Test BOP. Power Failure - troubleshoot same. Monitoring well on trip tank, static.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160	80		240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	122	96		218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,424,812.30

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	3.0
Logging	11.5
Dir Work	
Repair	7.5
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	253.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	253.0	Whole Mud		Trips	-24.0
Reserve	1105.0	Barite		Other	
Prev Vol	3093.3	Chemicals		Total Surface	
Net Change	-36.0	Other		Downhole	-12.0
Total Vol	3057.3	Total		Total Losses	-36.0

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 023

Daily Drilling Fluid Report

Date 07/11/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Repair rig	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		12:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	98 @ 20	100 @ 25						
PV @ Deg C	cP	46 @ 49	44 @ 49			X			45
YP	lbs/100 ft2	32	45						
GELS	lbs/100 ft2	15/19/20	15/20/22						
600/300		124.0/78.0	133.0/89.0						
200/100		61.0/42.0	70.0/49.0						
6/3		15.0/13.0	17.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	7.3/11.9	7.3/11.9						
LGS/HGS	ppb	66.90/175.45	66.90/175.45						
ASG	SG	3.590	3.590						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Prepare and clean slug pit for cement displacement.

Rig Activity

Troubleshoot power failures with engines. Perform general maintenance and cleaning whilst mechanic works on fuel injections on engines.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	24.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	240.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	240.0	Whole Mud		Trips	
Reserve	1118.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3057.3	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,427,312.30

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 024

Daily Drilling Fluid Report

Date 07/12/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		12:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	98 @ 25	100 @ 25						
PV @ Deg C	cP	44 @ 49	44 @ 49						45
YP	lbs/100 ft2	44	45						
GELS	lbs/100 ft2	15/20/22	15/20/22						
600/300		132.0/88.0	133.0/89.0						
200/100		69.0/50.0	70.0/49.0						
6/3		17.0/14.0	17.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	7.3/11.9	7.3/11.9						
LGS/HGS	ppb	66.90/175.45	66.90/175.45						
ASG	SG	3.590	3.590						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Prepare and clean slug pit for cement displacement.

Rig Activity

Cont. monitor hole on trip tank whilst waiting on rig engines. Jetting BOP retrieve wear bushing, cont. jetting wellhead. Make up cement head. Make up 10 3/4" casing running tool. Held JSA for rigging up 10 3/4" casing.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	7.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	17.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	220.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	220.0	Whole Mud		Trips	
Reserve	1138.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3057.3	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,429,812.30

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 025

Daily Drilling Fluid Report

Date 07/13/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,324.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,324.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		12:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	100 @ 25	98 @ 25						
PV @ Deg C	cP	44 @ 49	44 @ 49						45
YP	lbs/100 ft2	45	44						
GELS	lbs/100 ft2	15/19/20	15/19/20						
600/300		133.0/89.0	132.0/88.0						
200/100		70.0/49.0	69.0/50.0						
6/3		17.0/14.0	17.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	7.3/11.9	7.3/11.9						
LGS/HGS	ppb	66.90/175.45	66.90/175.45						
ASG	SG	3.590	3.590						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Cont. rig up 10 3/4" casing equipment. Run casing into hole to 2328m as per casing tally, filling up each joint with mud.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	224.830		7.230	217.600	$3,433.38
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	23.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	1.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	683.0	Base		Fluid Dumped	
Pipe Cap	705.6	Drill Water	30.2	Transferred	
Active Pits	346.6	Dewatering		SCE	
Total Hole	1548.9	Sea Water		Evaporation	
Total Circ	1735.2	Whole Mud		Trips	
Reserve	1192.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change	30.2	Other		Downhole	
Total Vol	3087.5	Total	30.2	Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$3,433.38	Total Daily Cost	$5,933.38
Cumulative Products Cost	$1,373,245.69	Total Cumulative Cost	$1,435,745.69

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 026

Daily Drilling Fluid Report

Date 07/14/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,538.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,538.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program	
Source		Pit #6	Pit #6								
Time		15:00	22:00								
Depth	m	2,600	2,600								
FL Temp	Deg C										
Density @ Deg C	ppg	12.15 @ 25	12.15 @ 25			X	X			9.50	12.00
FV @ Deg C	sec/qt	96 @ 25	98 @ 25								
PV @ Deg C	cP	46 @ 49	45 @ 49			X					45
YP	lbs/100 ft2	32	33								
GELS	lbs/100 ft2	15/19/20	15/19/20								
600/300		124.0/78.0	123.0/78.0								
200/100		61.0/42.0	62.0/41.0								
6/3		15.0/13.0	15.0/13.0								
NAP/Water Ratio		74.0/26.0	74.0/26.0								
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120								8.0
Cake API/HTHP	32nd in	-/2	-/2								
Corr Solid	% by Vol	20.3	20.3								
NAP/Water	% by Vol	57.0/20.0	57.0/20.0								
Sand	% by vol	0.25	0.30								
Alkalinity Pom	ml										
AgNO3	ml	2.40	2.40								
THTS	ml	3.00	3.00								
CaCl2	ppb	29.12	29.12								
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-								
WPS	ppm	320,899	320,899								
Excess Lime	ppb										
Elec Stability	volt	550	550								
LGS/HGS	% by vol	9.8/10.4	9.8/10.4								
LGS/HGS	ppb	89.56/153.56	89.56/153.56								
ASG	SG	3.424	3.424								
Additional Properties											
Density at Flow Line	ppg	0.00	0.00								

Fluid Treatments

Fluid Type ACCOLADE

Pumped tuned spacer into active system.

Rig Activity

Cont. run 10 3/4" casing to 2498m. Circulate 150% casing volume at 57 spm. Held pjsm for cement job as per programme. Pumped 5 bbl water, followed by 50 bbl tuned spacer @ 12.5ppg. Observed pressure spike of 2700psi. Assess situation, drop ball, pump 3.5bbl in attempt to launch bottom plug. No pressure increase. Circulate @ 71spm, bumped plug. Release casing handling equipment. Make up 9 1/2" BHA, RIH to 358m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	217.600			217.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	3.5
Rig	
Surveys	
Fishing	
Run Casing	18.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	728.5	Base		Fluid Dumped	
Pipe Cap	770.5	Drill Water	69.6	Transferred	
Active Pits	380.0	Dewatering		SCE	
Total Hole	1535.1	Sea Water		Evaporation	
Total Circ	1879.0	Whole Mud		Trips	
Reserve	1242.0	Barite		Other	
Prev Vol	3087.5	Chemicals		Total Surface	
Net Change	69.6	Other		Downhole	
Total Vol	3157.1	Total	69.6	Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,373,245.69	Total Cumulative Cost	$1,438,245.69

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 027

Daily Drilling Fluid Report

Date 07/15/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,600.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Flow Line	Pit #5						
Time		14:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 30	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	133 @ 25	130 @ 25						
PV @ Deg C	cP	34 @ 49	32 @ 49						45
YP	lbs/100 ft2	29	31						
GELS	lbs/100 ft2	13/17/18	13/17/18						
600/300		97.0/63.0	95.0/63.0						
200/100		50.0/34.0	50.0/34.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.3	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.20						
THTS	ml	2.80	3.10						
CaCl2	ppb	27.18	30.09						
NaCl(Sol/Insol)	ppb	6.05/-	0.10/-						
WPS	ppm	283,156	264,070						
Excess Lime	ppb								
Elec Stability	volt	490	490						
LGS/HGS	% by vol	12.8/8.5	13.4/8.3						
LGS/HGS	ppb	116.39/124.89	122.47/121.86						
ASG	SG	3.239	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Made and pumped 14.5 ppg slug for tripping out of hole.

Rig Activity

Cont. RIH from 358m to 2550m filling pipe every 20 stds. Break circulation at 2550m and establish parameters. Tap plug @ 2566m. Drill out top, bottom plugs and float. Work string through, clean out shoe track to top of shoe, drill out 10 3/4" casing shoe from 2590m and tag bottom @ 2600m. Circulate hole clean. Flow check, POOH. Make up cementing equipment. RIH with 2 7/8" tail pipe on 5 1/2" DP, RIH to 769m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	217.600		4.400	213.200	$2,089.47
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	5.5
Circulating	1.5
Trips	17.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	5.5
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	741.7	Base		Fluid Dumped	
Pipe Cap	789.4	Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1531.0	Sea Water		Evaporation	
Total Circ	1531.0	Whole Mud		Trips	-16.6
Reserve		Barite	6.6	Other	-2.0
Prev Vol	3157.1	Chemicals		Total Surface	
Net Change	-12.0	Other		Downhole	
Total Vol	1531.0	Total	6.6	Total Losses	-18.6

Fluid Types Vol bbl

Deviation Information

Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$2,089.47	Total Daily Cost	$4,589.47
Cumulative Products Cost	$1,375,335.16	Total Cumulative Cost	$1,442,835.16

Baroid Representatives	Brian Auckram	James Munford	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 028

Daily Drilling Fluid Report

Date 07/16/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	HOC/RTTS PKR	
Jets	1x12	
TFA	0.110	sq-in
Jets Velocity	301.9	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,499.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,499.0
Riser	22.000		96.0
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	57	0	0
gpm|bbl/min	340	8.11	
Total GPM	340	AV, Riser 5.6	Circ Press psi
Total Circ Time	121	AV min DP 39.1	Tot Pres Loss
BU Time , min	77	AV max DC	Press Drop DP
Total Strokes	6,897	BU Strokes 4,407	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #6	Pit #6					
Time		11:00	22:00					
Depth	m	2,600	2,600					
FL Temp	Deg C							
Density @ Deg C	ppg	12.15 @ 30	12.15 @ 30			X X	9.50	12.00
FV @ Deg C	sec/qt	126 @ 30	125 @ 30					
PV @ Deg C	cP	50 @ 49	44 @ 49			X		45
YP	lbs/100 ft2	30	31					
GELS	lbs/100 ft2	13/19/21	13/18/20					
600/300		130.0/80.0	119.0/75.0					
200/100		60.0/40.0	54.0/36.0					
6/3		14.0/11.0	13.0/11.0					
NAP/Water Ratio		68.4/31.6	68.4/31.6					
HTHP @ Deg C	ml/30 min	4.0 @ 120	3.0 @ 120					8.0
Cake API/HTHP	32nd in	-/2	-/2					
Corr Solid	% by Vol	21.3	21.5					
NAP/Water	% by Vol	52.0/24.0	52.0/24.0					
Sand	% by vol	0.25	0.25					
Alkalinity Pom	ml							
AgNO3	ml	2.40	2.30					
THTS	ml	3.00	3.00					
CaCl2	ppb	29.12	29.12					
NaCl(Sol/Insol)	ppb	4.01/-	2.56/-					
WPS	ppm	282,526	273,577					
Excess Lime	ppb							
Elec Stability	volt	450	400				300	600
LGS/HGS	% by vol	12.6/8.8	12.8/8.7					
LGS/HGS	ppb	114.61/128.87	116.41/128.52					
ASG	SG	3.257	3.250					
Additional Properties								
Density at Flow Line	ppg	0.00	0.00					

Fluid Treatments

Fluid Type ACCOLADE

Made water based Hi Vis spacer for riser displacement

Rig Activity

Cont. RIH from 769m to 2350m. Remove diverter packer inserts. Make up wear bushing retrival tool, retreive same. Make up RTTS packer, RIH and set @ 140m. Circ. bottom up @ 2490m. Unseat RTTS, pick up cementing equipment. Pump 200 bbl 13.5ppg cement. Displaced cement with SBM. Monitor hole whist waiting on cement. Attempt to bleed off pressure below TIW, unable to open valve. Attempt below TIW with pressure bled, no success. Closed annular, pumped 350 psi @ backside. Unseat RTTS with 60k overpull.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800		25.500	229.300	$9,588.77
BARAZAN D PLUS	25 kg bag	47		2	45	$304.48
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
barite	1000 kg bulk	213.200			213.200	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	6.5
Rig	
Surveys	
Fishing	
Run Casing	7.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	8.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	626.8	Base	17.5	Fluid Dumped	
Pipe Cap	84.1	Drill Water		Transferred	
Active Pits	270.0	Dewatering		SCE	
Total Hole	746.3	Sea Water		Evaporation	
Total Circ	980.9	Whole Mud		Trips	
Reserve	1744.0	Barite		Other	-362.4
Prev Vol	1531.0	Chemicals		Total Surface	-40.0
Net Change	-384.9	Other		Downhole	
Total Vol	2760.3	Total	17.5	Total Losses	-402.4

Fluid Types	Vol bbl
Base Oil	77.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$9,893.25	Total Daily Cost	$12,393.25
Cumulative Products Cost	$1,385,228.40	Total Cumulative Cost	$1,455,228.40

Baroid Representatives	Brian Auckram	James Munford	
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Baroid Fluid Services

Report No 029

Daily Drilling Fluid Report

Date 07/17/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Nipple down B.O.P.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		14:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	125 @ 25	123 @ 25						
PV @ Deg C	cP	45 @ 49	43 @ 49						45
YP	lbs/100 ft2	32	34						
GELS	lbs/100 ft2	13/18/20	13/18/21						
600/300		122.0/77.0	120.0/77.0						
200/100		60.0/40.0	55.0/36.0						
6/3		14.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.00	3.10						
CaCl2	ppb	29.12	30.09						
NaCl(Sol/Insol)	ppb	1.12/-	0.10/-						
WPS	ppm	264,401	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.3/8.3	13.4/8.3						
LGS/HGS	ppb	121.61/122.66	122.47/121.86						
ASG	SG	3.215	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

NOTE: Actual Volume is 150 bbl more due to displacement and Volumetric adjustments to balance volumes.

Rig Activity

Perform 10min flow check & TOOH 149m with RTTS, L/O some tail pipe @2350m. Cont. TOOH from 2350m to 917m, pumped 30bbl slug @ 1422m. M/U assay running tool, RIH & set assy @95.19m. Release Cameron wellhead running tool. TIH with RTTS with storm valve to 155m. Set RTTS, pumped 50 bbl spacer, displaced hole from 150m to surface with SW. Nipple down BOP.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	213.200		11.940	201.260	$5,670.07
ACCOLADE BASE	1 bbl bulk	229.300		10.000	219.300	$3,760.30
BARAZAN D PLUS	25 kg bag	45		3	42	$456.72
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	10.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	8.0
Logging	
Dir Work	
Repair	
Other	5.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	10.0	Fluid Dumped	
Pipe Cap		Drill Water	29.8	Transferred	
Active Pits	366.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	366.0	Whole Mud		Trips	
Reserve	1687.0	Barite	17.9	Other	
Prev Vol	2760.3	Chemicals		Total Surface	
Net Change	57.7	Other		Downhole	
Total Vol	2817.9	Total	57.7	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$9,887.09	Total Daily Cost	$12,387.09
Cumulative Products Cost	$1,395,115.49	Total Cumulative Cost	$1,467,615.49

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 030

Daily Drilling Fluid Report

Date 07/18/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wellhead Operations	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #5	Pit #5						
Time		14:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	123 @ 25						
PV @ Deg C	cP	45 @ 49	43 @ 49						45
YP	lbs/100 ft2	32	35						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		122.0/77.0	121.0/78.0						
200/100		60.0/40.0	58.0/40.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.8	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.10	2.20						
THTS	ml	3.10	3.10						
CaCl2	ppb	28.81	30.09						
NaCl(Sol/Insol)	ppb		0.10/-						
WPS	ppm	255,127	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.5/8.3	13.4/8.3						
LGS/HGS	ppb	123.12/122.57	122.47/121.86						
ASG	SG	3.210	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Removed BOP work platform, set under cantilever. Make up clutch type running tool. Remove CTU. Layout 22" riser. Skid Rig approx. 25'. Lowered H4 connector to main deck.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	219.300		18.000	201.300	$6,768.54
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	18.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2817.9	Chemicals		Total Surface	
Net Change	18.0	Other		Downhole	
Total Vol	2835.9	Total	18.0	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$6,768.54	Total Daily Cost	$9,268.54
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,476,884.03

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 031

Daily Drilling Fluid Report

Date 07/19/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Installing Subsea Tree	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #5						
Time		22:00	14:30						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	122 @ 25						
PV @ Deg C	cP	44 @ 49	43 @ 49						45
YP	lbs/100 ft2	34	35						
GELS	lbs/100 ft2	13/19/20	13/18/20						
600/300		122.0/78.0	121.0/78.0						
200/100		60.0/40.0	58.0/40.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25							
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.10						
CaCl2	ppb	30.09	30.09						
NaCl(Sol/Insol)	ppb	0.10/-	0.10/-						
WPS	ppm	264,070	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.4/8.3	13.4/8.3						
LGS/HGS	ppb	122.47/121.86	122.47/121.86						
ASG	SG	3.210	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Skid out cantilever. Remove tension deck stairs & raise, set back tension deck. Skid cantilever in line with subsea tree. Pick up subsea tree, weight 142k. Skid the rig to 25', lowered subsea tree below the hull. Skid the transverse to well center. Skid rig forward to reach the string to clamp umbilical cord. Lowered tree to 90m on HWDP. Skid rig to well center. ROV not functioning, troubleshoot. Jumped ROV into water, removed debris cover. Skid the rig, position tree over the wellbore.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300			201.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2835.9	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,479,384.03

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 032

Daily Drilling Fluid Report

Date 07/20/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run 22" Riser	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program		Fluid Treatments
Source		Pit #5	Pit #5									Fluid Type ACCOLADE
Time		12:00	22:00									
Depth	m	2,600	2,600									
FL Temp	Deg C											
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X			9.50	12.00	
FV @ Deg C	sec/qt	120 @ 25	123 @ 25									
PV @ Deg C	cP	45 @ 49	44 @ 49								45	
YP	lbs/100 ft2	32	33									
GELS	lbs/100 ft2	13/18/20	13/18/20									
600/300		122.0/77.0	121.0/77.0									
200/100		58.0/43.0	59.0/43.0									
6/3		13.0/11.0	13.0/11.0									
NAP/Water Ratio		68.4/31.6	68.4/31.6									
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120								8.0	
Cake API/HTHP	32nd in	-/2	-/2									
Corr Solid	% by Vol	21.7	21.7									
NAP/Water	% by Vol	52.0/24.0	52.0/24.0									
Sand	% by vol	0.25	0.25									
Alkalinity Pom	ml											
AgNO3	ml	2.20	2.20									
THTS	ml	3.10	3.00									
CaCl2	ppb	30.09	29.12									
NaCl(Sol/Insol)	ppb	0.10/-	1.12/-									
WPS	ppm	264,070	264,401									
Excess Lime	ppb											
Elec Stability	volt	400	400							300	600	
LGS/HGS	% by vol	13.4/8.3	13.3/8.3									
LGS/HGS	ppb	122.47/121.86	121.61/122.66									
ASG	SG	3.210	3.215									
Additional Properties												
Density at Flow Line	ppg	0.00	0.00									

Rig Activity

Lowered tree onto wellhead. Lock SST D&W hydraulic connector. Wellhead take 50k overpull. Cameron pressure test vx gasket 5000psi. Skid rig and pick up lower stress joints. Fold tension deck down. Make up, torque and run 22" riser with umbilical strapped.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300			201.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2835.9	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,481,884.03

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 033

Daily Drilling Fluid Report

Date 07/21/2008	**Depth** 2,600.0 m		
Spud Date 06/20/2008	**Rig Activity** Wait on Weather		
Operator NEXUS ENERGY	**Report For** Bill Openshaw/Rocco Moussow	**Well Name** Longtom - 4	
Contractor Seadrill	**Report For** Mike Barry	**Rig Name** West Triton	**Unit System** Nexus Energy
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Strait	**Field or Block** VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	99	99	99
Jets Velocity	m/sec							bbl/strk	0.142	0.142	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM		AV, Riser	Circ Press psi
Bit Depth 2,600.0	m	Open Hole	13.500	17.0				Total Circ Time		AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg							BU Time , min		AV max DC	Press Drop DP
ECD @ Bit	ppg							Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program		Fluid Treatments
Source		Pit #5	Flow Line							**Fluid Type** ACCOLADE
Time		12:00	22:00							Received 368 bbl of ACCOLADE base oil from boat.
Depth	m	2,600	2,600							
FL Temp	Deg C									Note: Water addition to Accolade is from emptying Tasman Oil tools Mud-Vacs, Accolade charged is a balance of figures.
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00	
FV @ Deg C	sec/qt	122 @ 25	120 @ 25							
PV @ Deg C	cP	43 @ 49	45 @ 49						45	
YP	lbs/100 ft2	34	32							
GELS	lbs/100 ft2	13/18/20	13/18/20							
600/300		120.0/77.0	122.0/77.0							
200/100		58.0/37.0	59.0/35.0							
6/3		13.0/11.0	13.0/11.0							
NAP/Water Ratio		68.4/31.6	68.4/31.6							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0	
Cake API/HTHP	32nd in	-/2	-/2							
Corr Solid	% by Vol	22.0	22.0							
NAP/Water	% by Vol	52.0/24.0	52.0/24.0							
Sand	% by vol	0.25	0.25							Rig Activity
Alkalinity Pom	ml									Cont. run 22" riser. Change out handling equipment. Land out riser on to tree. Set down and lock with 90k overpull. Fill riser with seawater with fluoresent dye. Lower CTU into position. Suspend operations due to rough weather. Wait on weather, wind speed 50-55 knots.
AgNO3	ml	2.00	2.00							
THTS	ml	3.00	3.00							
CaCl2	ppb	27.44	27.44							
NaCl(Sol/Insol)	ppb									
WPS	ppm	245,966	245,966							
Excess Lime	ppb									
Elec Stability	volt	400	400					300	600	
LGS/HGS	% by vol	13.6/8.4	13.6/8.4							
LGS/HGS	ppb	123.67/123.39	123.67/123.39							
ASG	SG	3.211	3.211							
Additional Properties										
Density at Flow Line	ppg	0.00	0.00							

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300	368.000	17.000	552.300	$6,392.51
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment				Time	
Shaker	Screens	Hrs		Drilling	
VSM-300				Circulating	
VSM-300				Trips	
VSM-300				Rig	
VSM-300				Surveys	
				Fishing	
				Run Casing	
				Coring	
				Reaming	
Hydrocyclone	Cones	Screens	Hrs	Testing	
D 16	16 4			Logging	
				Dir Work	
				Repair	
				Other	24.0
Centrifuge	Speed	Feed Rate	Hrs	Total	24.0
Centrifuge	3,000	40.00		Rotating	
Centrifuge	3,000	40.00		ROP	
				Dil Rate	0.00

Fluid Volume Breakdown		ACCOLADE			
Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	17.0	Fluid Dumped	
Pipe Cap		Drill Water	20.0	Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1745.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change	37.0	Other		Downhole	
Total Vol	2872.9	Total	37.0	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	181.0

Deviation Information	
Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$6,392.51	Total Daily Cost	$8,892.51
Cumulative Products Cost	$1,408,276.54	Total Cumulative Cost	$1,490,776.54
Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 034

Daily Drilling Fluid Report

Date 07/22/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Nipple up B.O.P.	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #5	Pit #5						
Time		12:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	121 @ 25						
PV @ Deg C	cP	45 @ 49	43 @ 49						45
YP	lbs/100 ft2	32	34						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		122.0/77.0	120.0/77.0						
200/100		60.0/40.0	55.0/36.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	22.0	21.1						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.00	3.00						
THTS	ml	3.00	2.00						
CaCl2	ppb	27.44	19.41						
NaCl(Sol/Insol)	ppb		13.13/9.77						
WPS	ppm	245,966	278,930						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.6/8.4	12.2/8.9						
LGS/HGS	ppb	123.67/123.39	111.40/130.57						
ASG	SG	3.211	3.273						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Wait on weather, wind speeds 33-39 knots, sea state 3.5m. Wind & Sea acceptable, call in stand by boat. Install CTU. Install clexton clamp, torque same tensioned CTU 72 bar. Release clutch type running tool. Nipple up 18 5/8" BOP. Test BOP connection against shear rams. Install overshot & diverter packer. Nipple choke line.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	552.300		330.000	222.300	$124,089.90
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	0.5
Logging	
Dir Work	
Repair	
Other	23.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water	10.0	Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1755.0	Barite		Other	
Prev Vol	2872.9	Chemicals		Total Surface	
Net Change	10.0	Other		Downhole	
Total Vol	2882.9	Total	10.0	Total Losses	

Fluid Types	Vol bbl
Base Oil	407.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$124,089.90	Total Daily Cost	$126,589.90
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,617,366.44

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 035

Daily Drilling Fluid Report

Date 07/23/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets				Program	
Source		Pit #6	Pit #5								
Time		8:00	22:00								
Depth	m	2,600	2,600								
FL Temp	Deg C										
Density @ Deg C	ppg	12.20 @ 20	12.20 @ 20			X	X			9.50	12.00
FV @ Deg C	sec/qt	128 @ 20	125 @ 20								
PV @ Deg C	cP	45 @ 49	45 @ 49								45
YP	lbs/100 ft2	32	33								
GELS	lbs/100 ft2	13/18/20	13/18/20								
600/300		122.0/77.0	123.0/78.0								
200/100		61.0/41.0	61.0/42.0								
6/3		14.0/11.0	14.0/11.0								
NAP/Water Ratio		68.4/31.6	68.4/31.6								
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120								8.0
Cake API/HTHP	32nd in	-/2	-/2								
Corr Solid	% by Vol	21.7	21.7								
NAP/Water	% by Vol	52.0/24.0	52.0/24.0								
Sand	% by vol		0.25								
Alkalinity Pom	ml										
AgNO3	ml	2.20	2.20								
THTS	ml	3.10	3.10								
CaCl2	ppb	30.09	30.09								
NaCl(Sol/Insol)	ppb	0.10/-	0.10/-								
WPS	ppm	264,070	264,070								
Excess Lime	ppb										
Elec Stability	volt	400	400							300	600
LGS/HGS	% by vol	12.7/9.0	12.7/9.0								
LGS/HGS	ppb	115.64/132.88	115.64/132.88								
ASG	SG	3.265	3.265								
Additional Properties											
Density at Flow Line	ppg	0.00	0.00								

Fluid Treatments

Fluid Type ACCOLADE

Base Oil		Brine	
Rig	37m3	Rig	-
Battler	116m3	Battler	-
Valkyrie	13m3	Valkyrie	50m3

Rig Activity

Cont. hook up choke line, change saver sub. Attempt to remove dolly roller, no success. Slip on 90ft of drill line. Remove pipe handler, lowered dolly. Replace rollers and bearings. Slip & cut 90ft drilling line. Calibrate travelling block settings. Make up RTTS retrieving tool to retrieve RTTS packer and cement string.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	222.300			222.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	0.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	15.5
Other	8.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1755.0	Barite		Other	
Prev Vol	2882.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2882.9	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	407.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,619,866.44

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 036

Daily Drilling Fluid Report

Date 07/24/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	SMITH/M716PXC	
Jets	7x16	
TFA	1.374	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	1,220.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,005.0
Drill Pipe	5.500	3.250	180.9
Drill Collar	6.750	2.813	34.1
Riser	20.500		96.0
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM		AV, Riser	Circ Press psi
Total Circ Time		AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		3:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 20	12.20 @ 20			X	X	9.50	12.00
FV @ Deg C	sec/qt	125 @ 20	125 @ 20						
PV @ Deg C	cP	45 @ 49	45 @ 49						45
YP	lbs/100 ft2	33	33						
GELS	lbs/100 ft2	13/18/20	15/18/20						
600/300		123.0/78.0	123.0/78.0						
200/100		61.0/42.0	61.0/42.0						
6/3		14.0/11.0	14.0/11.0						
NAP/Water Ratio		68.4/31.6	71.1/28.9						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	54.0/22.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.20						
CaCl2	ppb	30.09	30.18						
NaCl(Sol/Insol)	ppb	0.10/-							
WPS	ppm	264,070	281,320						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	12.7/9.0	12.4/9.3						
LGS/HGS	ppb	115.64/132.88	112.98/136.81						
ASG	SG	3.265	3.286						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

RIH to 153m and displace water from hole with SBM.

Base Oil:		Brine:	
Rig	314bbl	Rig	181bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	314bbl

Rig Activity

Pressure test BOP. Change wash-pipe. Make up 9 1/2" BHA and RIH to 153m. Displace water from hole with SBM. Continue to RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	222.300	92.000		314.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	0.5
Trips	9.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	14.0
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	345.7	Base		Fluid Dumped	
Pipe Cap	41.0	Drill Water	52.4	Transferred	
Active Pits	474.0	Dewatering		SCE	
Total Hole	810.3	Sea Water		Evaporation	
Total Circ	860.6	Whole Mud	108.0	Trips	
Reserve	1759.0	Barite		Other	
Prev Vol	2882.9	Chemicals		Total Surface	
Net Change	160.4	Other		Downhole	
Total Vol	3043.3	Total	160.4	Total Losses	

Fluid Types	Vol bbl
Base Oil	299.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,622,366.44

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 037

Daily Drilling Fluid Report

Date 07/25/2008		Depth 2,819.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	SMITH/M716PXC
Jets	7x16
TFA	1.374 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	845.6 lbf
Bit HHSI	2.14 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	2,819.0 m
ECD @ Csg Shoe	12.80 ppg
ECD @ Bit	12.78 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,604.0
Drill Pipe	5.500	3.250	180.9
Drill Collar	6.750	2.813	34.1
Riser	19.000		96.0
Open Hole	13.500		236.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220		
Bore in	6.500		6.500		6.500		
Strokes in	14.000		14.000		14.000		
Eff(%)	99		99		99		
bbl/strk	0.142		0.142		0.142		
SPM	64		64		0		
gpm|bbl/min	382	9.10	382	9.10			
Total GPM	765	AV, Riser	17.3	Circ Press psi	3113		
Total Circ Time	66	AV min DP	37.6	Tot Pres Loss	6985		
BU Time , min	39	AV max DC	41.8	Press Drop DP	6235		
Total Strokes	8,401	BU Strokes	5,048	Press Drop An	330		

Properties		1	2	Hyd 3	4
Source		Pit #6	Pit #6	Flow Line	Pit #6
Time		7:00	14:00	22:20	3:00
Depth	m	2,600	2,642	2,790	2,600
FL Temp	Deg C		110	57	
Density @ Deg C	ppg	12.20 @ 20	12.00 @ 20	12.00 @ 40	12.20 @ 20
FV @ Deg C	sec/qt	125 @ 20	108 @ 20	85 @ 40	128 @ 20
PV @ Deg C	cP	44 @ 49	37 @ 49	42 @ 49	45 @ 49
YP	lbs/100 ft2	34	21	36	33
GELS	lbs/100 ft2	13/18/21	12/18/21	15/18/21	13/18/20
600/300		122.0/78.0	95.0/58.0	120.0/78.0	123.0/78.0
200/100		61.0/42.0	44.0/29.0	58.0/39.0	61.0/42.0
6/3		13.0/11.0	10.0/8.0	13.0/11.0	14.0/11.0
NAP/Water Ratio		68.4/31.6	67.1/32.9	67.9/32.1	68.4/31.6
HTHP @ Deg C	ml/30 min	3.0 @ 120	2.0 @ 120	2.0 @ 120	3.0 @ 120
Cake API/HTHP	32nd in		-/2	-/2	-/2
Corr Solid	% by Vol	21.7	18.8	18.0	21.7
NAP/Water	% by Vol	52.0/24.0	53.0/26.0	53.0/25.0	52.0/24.0
Sand	% by vol			0.25	0.25
Alkalinity Pom	ml				
AgNO3	ml	2.20	2.00	3.60	2.20
THTS	ml	3.10	2.50	5.50	3.10
CaCl2	ppb	30.09	24.27	49.39	30.09
NaCl(Sol/Insol)	ppb	0.10/-	3.34/-		0.10/-
WPS	ppm	264,070	232,486	360,481	264,070
Excess Lime	ppb				
Elec Stability	volt	400	397	417	400
LGS/HGS	% by vol	12.7/9.0	8.0/10.9	8.9/9.0	12.7/9.0
LGS/HGS	ppb	115.64/132.88	72.45/160.36	81.55/132.98	115.64/132.88
ASG	SG	3.265	3.525	3.404	3.265
Additional Properties					
Density at Flow Line	ppg	0.00	12.00	12.00	0.00
ECD from PWD	ppg		12.57	12.69	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Initial mud weights while drilling cement 11.4ppg to 13.2ppg, due to barite sag from 10 days no circulating. Bled in 8.7ppg premix and dusted in barite to even mud weight 11.9+ppg for FIT.

Added 0.7ppb TauMod to active to maintain rheology.
Fined Up screens to 280 mesh, running 3 shakers only. Centrifuge shut down at 18.00 hours due to cuttings discharge chute blockage. Offlined for 5 hours while unblocking/cleaning.

Rig Activity

Continue to RIH. Tag cement at 2551m. Drill out cement and shoe track. Drill 3m new hole and conduct FIT. Drill 9 1/2" hole to 2818m at time of report.

Base Oil:		Brine:	
Rig	308bbl	Rig	181bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	314bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	201.260		8.660	192.600	$4,112.46
ACCOLADE BASE	1 bbl bulk	314.300		6.000	308.300	$2,256.18
Tau Mod	50 lb sack	43		13	30	$1,246.18
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	89 89	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	8.0
Centrifuge	3,000	40.00	8.0

Time

Drilling	14.0
Circulating	1.0
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.0
Total	24.0
Rotating	14.0
ROP	15.6
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	717.9	Base		Fluid Dumped	
Pipe Cap	94.8	Drill Water		Transferred	
Active Pits	382.0	Dewatering		SCE	-68.0
Total Hole	812.7	Sea Water		Evaporation	-0.5
Total Circ	1194.7	Whole Mud		Trips	
Reserve	1794.0	Barite	13.0	Other	
Prev Vol	3043.3	Chemicals	0.9	Total Surface	
Net Change	-54.7	Other		Downhole	
Total Vol	2988.7	Total	13.8	Total Losses	-68.5

Fluid Types	Vol bbl
Base Oil	299.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$7,614.82	Total Daily Cost	$10,114.82
Cumulative Products Cost	$1,539,981.26	Total Cumulative Cost	$1,632,481.26

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 038

Daily Drilling Fluid Report

Date 07/26/2008		Depth 2,841.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	HTC/BHC-406	
Jets		
TFA	0.750	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,061.7
Drill Pipe	5.500	3.250	181.3
Drill Collar	6.500	2.813	56.1
Drill Collar	6.760	5.378	68.9
Riser	19.000		96.0
Open Hole	13.500		258.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM		AV, Riser	Circ Press psi
Total Circ Time		AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #6	Pit #6		
Time		3:00	20:00		
Depth	m	2,841	2,841		
FL Temp	Deg C				
Density @ Deg C	ppg	12.00 @ 40	12.00 @ 20		
FV @ Deg C	sec/qt	83 @ 40	86 @ 20		
PV @ Deg C	cP	42 @ 49	43 @ 49		
YP	lbs/100 ft2	37	35		
GELS	lbs/100 ft2	15/18/21	14/18/21		
600/300		121.0/79.0	121.0/78.0		
200/100		61.0/40.0	61.0/40.0		
6/3		13.0/11.0	13.0/12.0		
NAP/Water Ratio		67.9/32.1	67.9/32.1		
HTHP @ Deg C	ml/30 min	2.0 @ 120	2.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/1		
Corr Solid	% by Vol	18.4	18.6		
NAP/Water	% by Vol	53.0/25.0	53.0/25.0		
Sand	% by vol	0.25			
Alkalinity Pom	ml				
AgNO3	ml	3.30	3.10		
THTS	ml	4.80	4.60		
CaCl2	ppb	45.28	42.53		
NaCl(Sol/Insol)	ppb				
WPS	ppm	340,675	326,775		
Excess Lime	ppb				
Elec Stability	volt	408	400		
LGS/HGS	% by vol	9.2/9.1	9.4/9.2		
LGS/HGS	ppb	84.24/134.41	85.91/135.48		
ASG	SG	3.395	3.390		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH.

Recieved approx. 289bbl brine from Ocean Valkyrie.

Base Oil:		Brine:	
Rig	303bbl	Rig	470bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	-

Rig Activity

Continue drilling 9 1/2" hole from 2818m to 2841m. Circulate hole clean. POOH pumping and logging while tripping. Lay out BHA. Make up 9 1/2" coring BHA and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	192.600		4.100	188.500	$1,947.01
ACCOLADE BASE	1 bbl bulk	308.300			308.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	89 89	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	3.0
Circulating	
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	3.0
ROP	7.3
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	557.3	Base		Fluid Dumped	
Pipe Cap	83.4	Drill Water		Transferred	
Active Pits	397.0	Dewatering		SCE	-4.0
Total Hole	855.9	Sea Water		Evaporation	
Total Circ	1037.8	Whole Mud		Trips	
Reserve	1736.0	Barite	6.1	Other	
Prev Vol	2988.7	Chemicals		Total Surface	
Net Change	0.2	Other		Downhole	-1.9
Total Vol	2988.9	Total	6.1	Total Losses	-5.9

Fluid Types	Vol bbl
brine	470.0
Base Oil	299.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$1,947.01	Total Daily Cost	$4,447.01
Cumulative Products Cost	$1,541,928.27	Total Cumulative Cost	$1,636,928.27

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 039

Daily Drilling Fluid Report

Date 07/27/2008		Depth 2,896.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		313.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	38	0
gpm|bbl/min		227	5.40

Total GPM	227	AV, Riser	Circ Press psi
Total Circ Time	64	AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes	2,433	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Flow Line	Flow Line	Pit #6	
Time		3:00	6:20	23:00	
Depth	m	2,849	2,896	2,895	
FL Temp	Deg C	48	50		
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 25	12.15 @ 20	
FV @ Deg C	sec/qt	120 @ 30	84 @ 25	128 @ 20	
PV @ Deg C	cP	44 @ 49	48 @ 49	45 @ 49	
YP	lbs/100 ft2	29	19	20	
GELS	lbs/100 ft2	12/15/18	12/15/18	12/15/18	
600/300		117.0/73.0	115.0/67.0	110.0/65.0	
200/100		53.0/32.0	50.0/34.0	49.0/34.0	
6/3		11.0/10.0	11.0/8.0	11.0/8.0	
NAP/Water Ratio		69.2/30.8	68.8/31.2	69.2/30.8	
HTHP @ Deg C	ml/30 min	3.5 @ 120	4.0 @ 120	4.0 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	18.5	20.7	19.6	
NAP/Water	% by Vol	54.0/24.0	53.0/24.0	54.0/24.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	3.20	2.20	2.30	
THTS	ml	4.60	4.00	4.00	
CaCl2	ppb	43.90	30.18	31.56	
NaCl(Sol/Insol)	ppb				
WPS	ppm	342,936	264,068	272,796	
Excess Lime	ppb				
Elec Stability	volt	309	331	328	
LGS/HGS	% by vol	9.2/9.3	11.3/9.4	8.8/10.8	
LGS/HGS	ppb	83.46/137.19	103.29/138.15	80.02/159.28	
ASG	SG	3.407	3.325	3.483	
Additional Properties					
Density at Flow Line	ppg	12.05	12.15	12.15	
ECD from PWD	ppg	0.00	0.00	0.00	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Checked and replaced damaged screens. New screens used 4 x 280 mesh. Discarded 2x280 mesh screens.

Dresssed shaker #1 with 255mesh, for drilling next interval. Intended to run centrifuge while coring, in barite recovery mode, to reduce LGS, overboard discharge line blocked after 20 minutes operation resulting in insufficient operation to reduce LGS.
Added to the active, 0.1ppb Rheomod-L to maintain rheology and 0.2 ppb LE Supermul to improve ES.

Rig Activity

Continue to RIH. Cut core from 2841m to 2895m. POOH and lay out coring assembly. Make up 9 1/2" BHA.

	Base Oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	20		4	16	$3,467.52
RHEMOD L	55 gal drum	13		1	12	$2,213.79
ACCOLADE BASE	1 bbl bulk	308.300		5.000	303.300	$1,880.15
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	188.500			188.500	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	1.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	1.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	4.0
Circulating	
Trips	19.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	1.0
Other	
Total	24.0
Rotating	4.0
ROP	13.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	346.0	Dewatering		SCE	
Total Hole	955.5	Sea Water		Evaporation	
Total Circ	346.0	Whole Mud		Trips	
Reserve	1694.0	Barite		Other	
Prev Vol	2988.9	Chemicals	6.5	Total Surface	
Net Change	6.5	Other		Downhole	
Total Vol	2995.5	Total	6.5	Total Losses	

Fluid Types

	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$7,561.46	Total Daily Cost	$10,061.46
Cumulative Products Cost	$1,549,489.73	Total Cumulative Cost	$1,646,989.73

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 040

Daily Drilling Fluid Report

Date 07/28/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	SMITH/M716PXC
Jets	7x16
TFA	1.374 sq-in
Jets Velocity	51.5 m/sec
Jet Impact Force	761.8 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	306 psi
Bit Depth	2,480.0 m
ECD @ Csg Shoe	12.77 ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,271.0
Drill Pipe	5.500	3.250	181.3
Drill Collar	6.750	2.813	27.7
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		97	
bbl/strk	0.139		0.139		0.139	
SPM	62		62		0	
gpm|bbl/min	363	8.64	363	8.64		
Total GPM	726	AV, Riser	16.4	Circ Press psi	2800	
Total Circ Time	62	AV min DP	83.4	Tot Pres Loss	5758	
BU Time , min	34	AV max DC	109.1	Press Drop DP	5069	
Total Strokes	7,724	BU Strokes	4,191	Press Drop An	308	

Properties		1	2	3	Hyd 4
Source		Pit #6	Pit #6	Pit #6	Flow Line
Time		2:00	11:45	14:10	21:30
Depth	m	2,895	2,896	2,960	2,987
FL Temp	Deg C			53	59
Density @ Deg C	ppg	12.15 @ 20	12.00 @ 20	12.10 @ 20	12.00 @ 45
FV @ Deg C	sec/qt	128 @ 20	110 @ 20	95 @ 20	78 @ 45
PV @ Deg C	cP	40 @ 49	40 @ 49	42 @ 49	44 @ 49
YP	lbs/100 ft2	22	26	36	32
GELS	lbs/100 ft2	12/16/18	13/17/19	13/17/20	15/18/21
600/300		102.0/62.0	106.0/66.0	120.0/78.0	120.0/76.0
200/100		49.0/30.0	50.0/31.0	52.0/37.0	59.0/41.0
6/3		11.0/8.0	12.0/8.0	13.0/11.0	14.0/12.0
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.2/30.8	69.6/30.4
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120	4.0 @ 120	4.0 @ 120
Cake API/HTHP	32nd in	-/2	-/2	-/2	-/2
Corr Solid	% by Vol	18.0	18.6	19.7	18.7
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	54.0/24.0	55.0/24.0
Sand	% by vol	0.25			
Alkalinity Pom	ml				
AgNO3	ml	2.80	2.30	2.20	2.20
THTS	ml	4.80	3.80	3.60	3.20
CaCl2	ppb	38.42	31.56	30.18	30.18
NaCl(Sol/Insol)	ppb				
WPS	ppm	313,508	272,796	264,068	264,068
Excess Lime	ppb				
Elec Stability	volt	431	360	398	510
LGS/HGS	% by vol	6.3/11.7	7.8/10.8	9.2/10.5	7.9/10.9
LGS/HGS	ppb	57.26/172.31	71.00/159.13	84.04/154.53	71.61/159.89
ASG	SG	3.641	3.530	3.452	3.528
Additional Properties					
Density at Flow Line	ppg	0.00	12.10	12.20	12.00
ECD from PWD	ppg	0.00	0.00	12.80	12.70

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Added 1ppb Le Supermul to premix pits 1 and 2. Added 1.2 ppb Le Supermul, 0.3ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties.

Dusted in Barite to active to maintain mud weight 12.0ppg while drilling rat hole. Prepared HW slug for POOH.

Run centrifuge in barite recovery mode to reduce LGS.

Rig Activity

Continue to make up 9 1/2" BHA and RIH. Was down and log from 2620m to 2637m. RIH from 2637m to 2841m. Ream cored section from 2841m to 2896m. Continue drilling 9 1/2" hole from 2896m to 2987m, survey every connection. Circ hole clean. Flow check and POOH.

	Base oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	16		12	4	$10,402.56
BARAKLEAN PLUS	1054 l bulk	1.000		1.000		$4,622.14
barite	1000 kg bulk	188.500		6.360	182.140	$3,020.24
ADAPTA HP	25 kg sack	121		6	115	$3,005.76
Tau Mod	50 lb sack	30		6	24	$575.16
ACCOLADE BASE	1 bbl bulk	303.300			303.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	280 280	18.0
VSM-300	280 280	18.0
VSM-300	280 280	18.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	9.0
Centrifuge	3,000	40.00	9.0

Time

Drilling	11.0
Circulating	0.5
Trips	10.5
Rig Surveys	
Fishing	
Run Casing	
Coring	
Reaming	2.0
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	13.0
ROP	8.3
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	584.0	Base		Fluid Dumped	
Pipe Cap	83.3	Drill Water		Transferred	
Active Pits	409.0	Dewatering		SCE	-60.0
Total Hole	814.8	Sea Water		Evaporation	-16.0
Total Circ	1076.3	Whole Mud		Trips	
Reserve	1704.0	Barite	9.5	Other	
Prev Vol	2995.5	Chemicals	17.0	Total Surface	
Net Change	-67.8	Other		Downhole	-18.3
Total Vol	2927.8	Total	26.6	Total Losses	-94.3

Fluid Types

	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$21,625.86	Total Daily Cost	$24,125.86
Cumulative Products Cost	$1,571,115.59	Total Cumulative Cost	$1,671,115.59

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 041

Daily Drilling Fluid Report

Date 07/29/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		2:30	14:00	22:00			
Depth	m	2,987	2,987	2,987			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 40	12.10 @ 32	12.20 @ 26			
FV @ Deg C	sec/qt	83 @ 40	102 @ 32	130 @ 26			
PV @ Deg C	cP	44 @ 49	45 @ 49	36 @ 49			
YP	lbs/100 ft2	32	31	31			
GELS	lbs/100 ft2	15/18/21	14/18/21	13/16/19			
600/300		120.0/76.0	121.0/76.0	103.0/67.0			
200/100		59.0/41.0	60.0/40.0	50.0/34.0			
6/3		14.0/12.0	14.0/12.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	18.8	19.0	18.8			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.00	2.10			
THTS	ml	3.10	3.10	3.20			
CaCl2	ppb	28.81	27.44	28.81			
NaCl(Sol/Insol)	ppb						
WPS	ppm	255,127	245,966	255,127			
Excess Lime	ppb						
Elec Stability	volt	507	498	491			
LGS/HGS	% by vol	7.9/10.9	7.2/11.7	6.4/12.4			
LGS/HGS	ppb	72.19/160.68	65.92/172.52	58.55/182.72			
ASG	SG	3.527	3.589	3.654			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Added premix weighted to 12.0ppg to maintain volume.

	Base Oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Rig Activity

Continue to POOH for wire-line logging. Rig up Shlumberger and run log #1.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	182.140		1.000	181.140	$474.88
ACCOLADE BASE	1 bbl bulk	303.300			303.300	
ADAPTA HP	25 kg sack	115			115	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	4			4	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	
OMC	55 gal drum	8			8	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	19.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water	29.2	Transferred	
Active Pits	335.0	Dewatering		SCE	
Total Hole	981.7	Sea Water		Evaporation	
Total Circ	335.0	Whole Mud		Trips	
Reserve	1642.0	Barite	1.5	Other	
Prev Vol	2927.8	Chemicals		Total Surface	
Net Change	30.7	Other		Downhole	
Total Vol	2958.7	Total	30.7	Total Losses	

Fluid Types	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$474.88	Total Daily Cost	$2,974.88
Cumulative Products Cost	$1,571,590.47	Total Cumulative Cost	$1,674,090.47

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 042

Daily Drilling Fluid Report

Date 07/30/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,987.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		2:00	11:00	20:00			
Depth	m	2,987	2,987	2,987			
FL Temp	Deg C						
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 20	12.20 @ 20			
FV @ Deg C	sec/qt	130 @ 22	132 @ 20	132 @ 20			
PV @ Deg C	cP	36 @ 49	36 @ 49	36 @ 49			
YP	lbs/100 ft2	31	32	33			
GELS	lbs/100 ft2	13/16/19	13/16/18	13/16/18			
600/300		103.0/67.0	104.0/68.0	105.0/69.0			
200/100		50.0/34.0	51.0/36.0	51.0/37.0			
6/3		13.0/11.0	14.0/12.0	14.0/12.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	18.8	18.8	18.8			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.10			
THTS	ml	3.20	3.20	3.20			
CaCl2	ppb	28.81	28.81	28.81			
NaCl(Sol/Insol)	ppb						
WPS	ppm	255,127	255,127	255,127			
Excess Lime	ppb						
Elec Stability	volt	493	481	490			
LGS/HGS	% by vol	6.4/12.4	6.4/12.4	6.4/12.4			
LGS/HGS	ppb	58.55/182.72	58.55/182.72	58.55/182.72			
ASG	SG	3.654	3.654	3.654			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Built additional premix using 70 bbls from slops pit.
Cleaned slug pit and mixed cementers tuned spacer.

Received 754bbl Base Oil and 716bbl Brine from Ocean Battler.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to run log #1. Lay out tools. Make up tools and run log #2. Lay out tools and rig down Shlumberger. Make up cement stinger and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	303.300	754.000	287.000	770.300	$107,920.61
ADAPTA HP	25 kg sack	115		12	103	$6,011.52
LE SUPERMUL	55 gal drum	4		4		$3,467.52
RHEMOD L	55 gal drum	12		1	11	$2,213.79
Tau Mod	50 lb sack	24		7	17	$671.02
Circal 60/16	25 kg sack	218		14	204	$141.82
Omyacarb 5	25 kg bulk	205.000		13.000	192.000	$122.07
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	181.140			181.140	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	18.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	347.5	Dewatering		SCE	
Total Hole	981.7	Sea Water		Evaporation	
Total Circ	347.5	Whole Mud	159.0	Trips	
Reserve	1799.0	Barite		Other	
Prev Vol	2958.7	Chemicals	10.4	Total Surface	
Net Change	169.4	Other		Downhole	
Total Vol	3128.2	Total	169.4	Total Losses	

Fluid Types	Vol bbl
Base Oil	427.0
brine	1186.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$120,548.35	Total Daily Cost	$123,048.35
Cumulative Products Cost	$1,692,138.82	Total Cumulative Cost	$1,797,138.82

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 043

Daily Drilling Fluid Report

Date 07/31/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	2.875	in
Make/Type	DUMMY/2 7/8 Open End	
Jets		
TFA	1.500	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	283.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	118.0
Drill Pipe	2.875	2.441	165.0
Riser	19.000		96.0
Open Hole	9.500		

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM | AV, Riser | Circ Press psi
Total Circ Time | AV min DP | Tot Pres Loss
BU Time , min | AV max DC | Press Drop DP
Total Strokes | BU Strokes | Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #6	Pit #3	Pit #6				
Time		2:30	16:00	21:00				
Depth	m	2,987	2,987	2,987				
FL Temp	Deg C							
Density @ Deg C	ppg	12.20 @ 20	9.50 @ 25	12.00 @ 36		X	9.50	12.00
FV @ Deg C	sec/qt	132 @ 20	100 @ 25	110 @ 36				
PV @ Deg C	cP	36 @ 49	70 @ 49	37 @ 49		X		45
YP	lbs/100 ft2	33	35	36				
GELS	lbs/100 ft2	13/16/18	9/15/23	12/18/21				
600/300		105.0/69.0	175.0/105.0	110.0/73.0				
200/100		51.0/37.0	77.0/47.0	50.0/32.0				
6/3		14.0/12.0	11.0/8.0	12.0/10.0				
NAP/Water Ratio		69.6/30.4	32.6/67.4	67.5/32.5				
HTHP @ Deg C	ml/30 min	4.0 @ 120		5.0 @ 120				8.0
Cake API/HTHP	32nd in	-/2		-/2				
Corr Solid	% by Vol	18.8	6.2	18.0				
NAP/Water	% by Vol	55.0/24.0	30.0/62.0	54.0/26.0				
Sand	% by vol		0.10					
Alkalinity Pom	ml							
AgNO3	ml	2.10	1.20	2.00				
THTS	ml	3.10	0.35	2.90				
CaCl2	ppb	28.81	3.40	27.44				
NaCl(Sol/Insol)	ppb		13.76/-					
WPS	ppm	255,127	73,162	231,424				
Excess Lime	ppb							
Elec Stability	volt	492	12	310		X	300	600
LGS/HGS	% by vol	6.4/12.4	2.4/3.8	6.1/11.8				
LGS/HGS	ppb	58.55/182.72	22.00/56.22	56.02/174.09				
ASG	SG	3.654	3.580	3.653				
Additional Properties								
Density at Flow Line	ppg	0.00	0.00	0.00				
ECD from PWD	ppg	0.00	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

N.B. Mud check #2 for slops pit (Pit #3), not indicative of active mud properties.

Prepare HW slug with Barite for POOH. Rec'd LE Supermul, Tau Mod, Baraklean and Calcium Chloride from Ocean Battler.

Base Oil:	Brine:
Rig 1197bbl	1186bbl
Battler -	-
Valkyrie -	-

Rig Activity

Continue to RIH with cement stinger to 253m. Power failure due to loss of engine. Continue to RIH from 253m to 785m. Loss of engine, power failure. Continue to RIH from 785m to 2591m. Unable to continue RIH with 2 engines in open hole. Work on engines. Continue to RIH from 2591m to 2858m. Pump cement plugs as per programmed. POOH from 2858m to 2681m. Circ hole clean. Continue to POOH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	770.300		21.000	749.300	$7,896.63
barite	1000 kg bulk	181.140		5.930	175.210	$2,816.04
ADAPTA HP	25 kg sack	103			103	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240	80		320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum		32		32	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.0
Trips	13.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	5.5
Other	3.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	150.9	Base		Fluid Dumped	
Pipe Cap	7.1	Drill Water		Transferred	
Active Pits	374.0	Dewatering		SCE	
Total Hole	856.3	Sea Water		Evaporation	
Total Circ	532.0	Whole Mud		Trips	
Reserve	1851.0	Barite	2.2	Other	-44.3
Prev Vol	3128.2	Chemicals		Total Surface	
Net Change	-42.1	Other		Downhole	
Total Vol	3081.3	Total	2.2	Total Losses	-44.3

Fluid Types	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$10,712.67	Total Daily Cost	$13,212.67
Cumulative Products Cost	$1,702,851.49	Total Cumulative Cost	$1,810,351.49

Baroid Representatives	Brian Auckram	Tim Waldhuter	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 044

Daily Drilling Fluid Report

Date 08/01/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wait on weather	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,443.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,228.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM | AV, Riser | Circ Press psi
Total Circ Time | AV min DP | Tot Pres Loss
BU Time , min | AV max DC | Press Drop DP
Total Strokes | BU Strokes | Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:00	20:00				
Depth	m	2,600	2,600				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 32	12.00 @ 24				
FV @ Deg C	sec/qt	118 @ 32	123 @ 24				
PV @ Deg C	cP	38 @ 49	37 @ 49				
YP	lbs/100 ft2	36	36				
GELS	lbs/100 ft2	12/18/21	12/18/21				
600/300		112.0/74.0	110.0/73.0				
200/100		49.0/33.0	50.0/34.0				
6/3		12.0/10.0	13.0/11.0				
NAP/Water Ratio		67.5/32.5	67.5/32.5				
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	18.0	17.9				
NAP/Water	% by Vol	54.0/26.0	54.0/26.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10				
THTS	ml	2.90	3.00				
CaCl2	ppb	27.44	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	231,424	240,216				
Excess Lime	ppb						
Elec Stability	volt	307	304				
LGS/HGS	% by vol	6.1/11.8	6.1/11.8				
LGS/HGS	ppb	56.02/174.09	55.53/173.21				
ASG	SG	3.653	3.654				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare chemicals and check shakers for next hole section.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to POOH and lay out 2 7/8" cement stinger. Make up 9 1/2" BHA and RIH to 214m Shallow test MWD tools. Continue RIH from 214m to 293m picking up drillpipe from deck. Change burst hose on iron roughneck. Continue to RIH picking up drill pipe from 293m to 1246m. Rig service. Install oil cooler fan and motor to top drive. Commence RIH with stands from 1246m to 1452m. Wait on weather.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ADAPTA HP	25 kg sack	103			103	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	175.210			175.210	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	32			32	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	15.5
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	3.0
Other	4.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	373.0	Base		Fluid Dumped	
Pipe Cap	48.3	Drill Water		Transferred	
Active Pits	448.0	Dewatering		SCE	
Total Hole	772.3	Sea Water		Evaporation	
Total Circ	869.3	Whole Mud		Trips	
Reserve	1865.9	Barite		Other	
Prev Vol	3086.1	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3086.2	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,702,851.49	Total Cumulative Cost	$1,812,851.49

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 045

Daily Drilling Fluid Report

Date 08/02/2008		Depth 2,719.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED/RSR616M-B3	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	54.3	m/sec
Jet Impact Force	724.9	lbf
Bit HHSI	1.83	hhp/in2
Press Drop @ Bit	340	psi
Bit Depth	2,712.0	m
ECD @ Csg Shoe	12.74	ppg
ECD @ Bit	12.77	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,497.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		129.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	56	0	56
gpm|bbl/min	328 | 7.80		328 | 7.80
Total GPM	655	AV, Riser 14.8	Circ Press psi 2481
Total Circ Time	72	AV min DP 75.3	Tot Pres Loss 5499
BU Time , min	40	AV max DC 109.6	Press Drop DP 4778
Total Strokes	8,079	BU Strokes 4,513	Press Drop An 317

Properties		1	2	Hyd 3	4	Targets	Program
Source		Pit #6	Flow Line	Flow Line			
Time		2:30	16:00	21:20			
Depth	m	2,600	2,702	2,714			
FL Temp	Deg C		36	59			
Density @ Deg C	ppg	12.10 @ 24	12.10 @ 25	12.00 @ 48			
FV @ Deg C	sec/qt	125 @ 24	86 @ 25	92 @ 48			
PV @ Deg C	cP	37 @ 49	47 @ 49	45 @ 49			
YP	lbs/100 ft2	36	24	30			
GELS	lbs/100 ft2	12/18/21	10/19/26	15/21/26			
600/300		110.0/73.0	118.0/71.0	120.0/75.0			
200/100		50.0/34.0	54.0/35.0	59.0/39.0			
6/3		13.0/11.0	12.0/10.0	14.0/12.0			
NAP/Water Ratio		67.5/32.5	68.8/31.3	70.0/30.0			
HTHP @ Deg C	ml/30 min	5.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	17.9	18.0	17.8			
NAP/Water	% by Vol	54.0/26.0	55.0/25.0	56.0/24.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.00	2.10			
THTS	ml	3.00	2.80	2.90			
CaCl2	ppb	28.81	27.18	28.15			
NaCl(Sol/Insol)	ppb		0.27/-	0.70/-			
WPS	ppm	240,216	238,538	255,329			
Excess Lime	ppb						
Elec Stability	volt	310	480	640			
LGS/HGS	% by vol	5.3/12.5	5.2/12.7	5.7/12.1			
LGS/HGS	ppb	48.70/184.23	47.71/187.21	52.36/177.61			
ASG	SG	3.721	3.733	3.684			
Additional Properties							
Density at Flow Line	ppg	12.10	12.10	12.00			
ECD from PWD	ppg	12.70	12.78	12.73			

Fluid Treatments

Fluid Type ACCOLADE

Added Barite to active as required to maintain mud weight 12.0ppg. Added 1.6ppb LE Supermul, 0.4ppb Tau Mod and 0.3ppb Adadpta to active to maintain mud properties. Adding premix at 10.0ppg to maintain volume and mud weight. Checked shaker screens regularly and replaced damaged screens as required.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to wait on weather. Continue to RIH. Tag kick off plug at 2690m. Clean out cement from 2690m to 2693m. Drill out cement from 2693m to 2696m, ream several times to cut ledge to sidetrack. Time drill from 2696m to 2719m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	32		6	26	$5,201.28
ADAPTA HP	25 kg sack	103		6	97	$3,005.76
barite	1000 kg bulk	175.210		6.270	168.940	$2,977.50
Tau Mod	50 lb sack	107		8	99	$766.88
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	4.0
VSM-300	280 280	16.0
VSM-300	280 280	16.0
VSM-300	280 280	16.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	13.0
Circulating	
Trips	3.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	7.5
Total	24.0
Rotating	13.0
ROP	9.2
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	628.8	Base		Fluid Dumped	
Pipe Cap	91.0	Drill Water		Transferred	
Active Pits	406.0	Dewatering		SCE	-6.0
Total Hole	719.8	Sea Water		Evaporation	-12.0
Total Circ	1125.8	Whole Mud		Trips	
Reserve	1959.0	Barite	9.4	Other	
Prev Vol	3086.2	Chemicals	9.3	Total Surface	
Net Change	0.7	Other		Downhole	
Total Vol	3084.8	Total	18.7	Total Losses	-18.0

Fluid Types

	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$11,951.42	Total Daily Cost	$14,451.42
Cumulative Products Cost	$1,714,802.90	Total Cumulative Cost	$1,827,302.90

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 046

Daily Drilling Fluid Report

Date 08/03/2008		Depth 3,008.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	724.9 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	3,008.0 m
ECD @ Csg Shoe	12.74 ppg
ECD @ Bit	12.82 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,793.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		425.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	56	56	0
gpm|bbl/min	328 | 7.80	328 | 7.80	
Total GPM	655	AV, Riser 14.8	Circ Press psi 2481
Total Circ Time	80	AV min DP 75.3	Tot Pres Loss 5990
BU Time , min	44	AV max DC 109.6	Press Drop DP 5224
Total Strokes	9,015	BU Strokes 4,910	Press Drop An 362

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		3:00	13:00	21:30			
Depth	m	2,724	2,841	2,976			
FL Temp	Deg C	60	60	63			
Density @ Deg C	ppg	12.00 @ 48	12.00 @ 38	12.00 @ 40			
FV @ Deg C	sec/qt	96 @ 48	96 @ 38	92 @ 40			
PV @ Deg C	cP	45 @ 49	45 @ 49	45 @ 49			
YP	lbs/100 ft2	33	35	32			
GELS	lbs/100 ft2	15/23/27	14/25/29	14/25/29			
600/300		123.0/78.0	125.0/80.0	122.0/77.0			
200/100		60.0/40.0	62.0/41.0	60.0/40.0			
6/3		14.0/12.0	16.0/13.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.0	18.7	19.0			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol	0.25	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10	2.00			
THTS	ml	2.90	2.70	2.90			
CaCl2	ppb	27.44	26.21	27.44			
NaCl(Sol/Insol)	ppb		2.74/-				
WPS	ppm	245,966	256,007	245,966			
Excess Lime	ppb						
Elec Stability	volt	702	710	650			
LGS/HGS	% by vol	8.0/11.0	7.7/11.1	8.0/11.0			
LGS/HGS	ppb	72.74/161.50	69.91/162.82	72.74/161.50			
ASG	SG	3.526	3.545	3.526			
Additional Properties							
Density at Flow Line	ppg	12.00	12.10	12.05			
ECD from PWD	ppg	12.64	12.52	12.78			

Fluid Treatments

Fluid Type ACCOLADE

Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (4x280 mesh new screens used). Added Barite as required to maintain mud weight 12.0ppg.

Fluid Volume Notes: Brine shown as returned (1186bbls) has been placed on the inventory as per request. Brine shown on inventory is in the Rig Brine Storage Tank (13P). Base Oil shown on inventory is in the Rig Base Oil Storage Tank (13S). Base Oil shown in the "Fluid Types" section of the report (bottom right - second box in) is in the Mud Pits (Pit 4).

Rig Activity

Continue to drill 9 1/2" hole from 2719m to 3008m as per directional drillers instrauctions.

ACCOLADE Mud shown as returned (435bbls) is 'slops' (O/W Ratio of approx 35/65) returned to the Valkyre. Run centrifuges in Barite recovery mode to reduce LGS.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	168.940		10.470	158.470	$4,971.99
Tau Mod	50 lb sack	99		6	93	$575.16
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl		1,186		1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	9.0
Centrifuge	3,000	40.00	9.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	12.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	684.2	Base		Fluid Dumped	
Pipe Cap	101.0	Drill Water		Transferred	-435.0
Active Pits	471.0	Dewatering		SCE	-96.0
Total Hole	785.2	Sea Water		Evaporation	-20.0
Total Circ	1256.2	Whole Mud		Trips	
Reserve	1275.0	Barite	15.7	Other	
Prev Vol	3086.8	Chemicals	0.4	Total Surface	
Net Change	-555.6	Other		Downhole	-20.7
Total Vol	2531.2	Total	16.1	Total Losses	-571.7

Fluid Types

	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$5,547.15	Total Daily Cost	$8,047.15
Cumulative Products Cost	$1,720,350.06	Total Cumulative Cost	$1,835,350.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 047

Daily Drilling Fluid Report

Date 08/04/2008		Depth 3,259.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	63.0 m/sec
Jet Impact Force	984.8 lbf
Bit HHSI	2.89 hhp/in2
Press Drop @ Bit	461 psi
Bit Depth	3,259.0 m
ECD @ Csg Shoe	12.87 ppg
ECD @ Bit	13.01 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,044.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		676.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		97	
bbl/strk	0.139		0.139		0.139	
SPM	65		65		0	
gpm|bbl/min	380	9.06	380	9.06		
Total GPM	761	AV, Riser	17.2	Circ Press psi	3285	
Total Circ Time	69	AV min DP	87.4	Tot Pres Loss	8608	
BU Time , min	40	AV max DC	127.2	Press Drop DP	7652	
Total Strokes	8,975	BU Strokes	5,248	Press Drop An	409	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		2:00	15:00	21:40			
Depth	m	3,037	3,169	3,288			
FL Temp	Deg C	63	63	64			
Density @ Deg C	ppg	12.00 @ 40	12.00 @ 40	12.10 @ 41			
FV @ Deg C	sec/qt	93 @ 40	81 @ 40	85 @ 41			
PV @ Deg C	cP	44 @ 49	52 @ 49	48 @ 49			
YP	lbs/100 ft2	34	35	27			
GELS	lbs/100 ft2	15/26/29	15/27/31	14/25/29			
600/300		122.0/78.0	139.0/87.0	123.0/75.0			
200/100		61.0/41.0	67.0/44.0	58.0/38.0			
6/3		14.0/12.0	14.0/11.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	71.4/28.6	72.7/27.3			
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	3.5 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.0	20.8	20.9			
NAP/Water	% by Vol	55.0/24.0	55.0/22.0	56.0/21.0			
Sand	% by vol	0.25	0.25	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10	2.00			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	27.44	28.15	27.44			
NaCl(Sol/Insol)	ppb		0.70/-				
WPS	ppm	245,966	272,222	271,562			
Excess Lime	ppb						
Elec Stability	volt	652	750	785			
LGS/HGS	% by vol	8.0/11.0	11.8/9.0	11.0/9.9			
LGS/HGS	ppb	72.74/161.50	107.44/132.41	100.45/145.64			
ASG	SG	3.526	3.292	3.357			
Additional Properties							
Density at Flow Line	ppg	12.05	12.00	12.10			
ECD from PWD	ppg	12.78	12.70	12.83			

Fluid Treatments

Fluid Type ACCOLADE

Check shaker screens regularly and replace damaged screens as required (5x 280 mesh new screens used).
Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results.
Weighted premix with Barite to 12.0ppg to enable addition without reduction in mud weight.

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Added 0.3ppb Tau Mod to active to maintain rheology.

Rig Activity

Continue to drill 9 1/2" hole from 3008m to 3259m as per directional drillers instructions.

Base Oil:		Brine:
Rig	1192bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	158.470		17.010	141.460	$8,077.71
ACCOLADE BASE	1 bbl bulk	749.300		5.000	744.300	$1,880.15
Circal 60/16	25 kg sack	204		96	108	$972.48
Omyacarb 5	25 kg bulk	192.000		84.000	108.000	$788.76
Tau Mod	50 lb sack	93		6	87	$575.16
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	15.0
Centrifuge	3,000	40.00	15.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	10.5
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	731.2	Base		Fluid Dumped	
Pipe Cap	109.4	Drill Water		Transferred	
Active Pits	410.0	Dewatering		SCE	-81.0
Total Hole	840.6	Sea Water		Evaporation	-20.0
Total Circ	1250.6	Whole Mud		Trips	
Reserve	1172.0	Barite	25.5	Other	
Prev Vol	2531.2	Chemicals	10.9	Total Surface	
Net Change	-108.6	Other		Downhole	-44.0
Total Vol	2422.6	Total	36.4	Total Losses	-145.0

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$12,294.26	Total Daily Cost	$14,794.26
Cumulative Products Cost	$1,732,644.32	Total Cumulative Cost	$1,850,144.32

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 048

Daily Drilling Fluid Report

Date 08/05/2008		Depth 3,577.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	724.9 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	3,134.0 m
ECD @ Csg Shoe	12.69 ppg
ECD @ Bit	12.79 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,919.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		676.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	56	56	0
gpm|bbl/min	328 | 7.80	328 | 7.80	
Total GPM	655	AV, Riser 14.8	Circ Press psi 2600
Total Circ Time	80	AV min DP 75.3	Tot Pres Loss 5987
BU Time , min	45	AV max DC 109.6	Press Drop DP 5235
Total Strokes	8,914	BU Strokes 5,080	Press Drop An 352

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		3:25	15:00	22:30			
Depth	m	3,337	3,525	2,577			
FL Temp	Deg C	64	64	64			
Density @ Deg C	ppg	12.00 @ 41	12.00 @ 30	12.00 @ 30			
FV @ Deg C	sec/qt	80 @ 41	80 @ 30	78			
PV @ Deg C	cP	47 @ 49	44 @ 49	40 @ 49			
YP	lbs/100 ft2	31	27	31			
GELS	lbs/100 ft2	14/25/29	14/22/27	14/25/29			
600/300		125.0/78.0	115.0/71.0	111.0/71.0			
200/100		60.0/40.0	54.0/36.0	55.0/37.0			
6/3		13.0/10.0	13.0/11.0	12.0/10.0			
NAP/Water Ratio		74.4/25.6	74.4/25.6	75.0/25.0			
HTHP @ Deg C	ml/30 min	3.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.9	19.9	17.5			
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	60.0/20.0			
Sand	% by vol	0.50	0.25	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00	2.20			
THTS	ml	2.90	2.90	2.70			
CaCl2	ppb	27.44	27.44	26.21			
NaCl(Sol/Insol)	ppb			4.18/-			
WPS	ppm	281,320	281,320	302,419			
Excess Lime	ppb						
Elec Stability	volt	759	760	760			
LGS/HGS	% by vol	9.5/10.4	9.5/10.4	4.8/12.7			
LGS/HGS	ppb	86.63/153.01	86.63/153.01	43.39/187.56			
ASG	SG	3.436	3.436	3.765			
Additional Properties							
Density at Flow Line	ppg	12.00	12.10	0.00			
ECD from PWD	ppg	12.85	12.70	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode and add premix to active to reduce LGS. Checked shaker screens regularly and replaced any damaged screens immediately.
Will begin bleeding recovered mud (Slops) back into mud to restore Oil Water Ratio to 70/30.

Rig Activity

Continue to drill 9 1/2" hole from 3259m to 3525m as per directional drillers instructions. Problem with MWD tool. Break out topdrive, rack back stand, reciprocate string and work. Cont. drill ahead to 3577m. Circ. bottoms up and ream from 3577mto 3525m. Commence POOH as per K&M instructions from 3525m to 3149m.

	Base Oil:	Brine:
Rig	1192bbl	1186bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Circal 60/16	25 kg sack	108		48	60	$486.24
Omyacarb 5	25 kg bulk	108.000		48.000	60.000	$450.72
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	141.460			141.460	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	18.0
VSM-300	280 280	22.0
VSM-300	280 280	22.0
VSM-300	280 280	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	20.5
Centrifuge	3,000	40.00	20.5

Time

Drilling	18.0
Circulating	2.5
Trips	2.0
Rig Surveys	1.5
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	18.0
ROP	17.7
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	707.8	Base		Fluid Dumped	
Pipe Cap	105.2	Drill Water	40.0	Transferred	
Active Pits	429.0	Dewatering		SCE	-82.0
Total Hole	849.0	Sea Water		Evaporation	-15.0
Total Circ	1242.0	Whole Mud		Trips	
Reserve	983.0	Barite		Other	
Prev Vol	2422.6	Chemicals	5.6	Total Surface	
Net Change	-70.2	Other		Downhole	-18.8
Total Vol	2261.0	Total	45.6	Total Losses	-115.8

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$936.96	Total Daily Cost	$3,436.96
Cumulative Products Cost	$1,733,581.28	Total Cumulative Cost	$1,853,581.28

Baroid Representatives	Brian Auckram	James Munford	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 049

Daily Drilling Fluid Report

Date 08/06/2008		Depth 3,577.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED-HYCALOG/RSX616M-A4
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	2,578.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,364.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		994.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		3:00	14:00	22:00			
Depth	m	3,577	3,577	3,577			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 25	12.10 @ 25			
FV @ Deg C	sec/qt	100 @ 30	120 @ 25	110 @ 25			
PV @ Deg C	cP	40 @ 49	45 @ 49	43 @ 49			
YP	lbs/100 ft2	31	31	31			
GELS	lbs/100 ft2	14/25/29	14/22/27	14/23/27			
600/300		111.0/71.0	121.0/76.0	117.0/74.0			
200/100		55.0/37.0	59.0/39.0	57.0/38.0			
6/3		12.0/10.0	13.0/11.0	13.0/11.0			
NAP/Water Ratio		75.0/25.0	75.0/25.0	75.0/25.0			
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	5.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	17.5	17.7	17.7			
NAP/Water	% by Vol	60.0/20.0	60.0/20.0	60.0/20.0			
Sand	% by vol	0.50	0.10	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.20	2.10	2.10			
THTS	ml	2.70	2.80	2.80			
CaCl2	ppb	26.21	27.18	27.18			
NaCl(Sol/Insol)	ppb	4.18/-	1.72/-	1.72/-			
WPS	ppm	302,419	291,877	291,877			
Excess Lime	ppb						
Elec Stability	volt	760	750	750			
LGS/HGS	% by vol	4.8/12.7	4.3/13.4	4.3/13.4			
LGS/HGS	ppb	43.39/187.56	39.23/197.41	39.23/197.41			
ASG	SG	3.765	3.811	3.811			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Cont. POOH as per K&M instructions from 3149m to surface. Change out BHA. RIH with 9 1/2" BHA to 273m. Shallow test MWD tools as per DD instuctions. Commence slip and cut. Service top drive. Cont. RIH from 273m to 2577m.

	Base Oil:	Brine:
Rig	1192bbl	1186bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	141.460			141.460	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	60			60	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26		8	34	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	0.5
Trips	18.5
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	2.0
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	603.3	Base		Fluid Dumped	
Pipe Cap	87.0	Drill Water		Transferred	
Active Pits	478.0	Dewatering		SCE	
Total Hole	977.7	Sea Water		Evaporation	
Total Circ	1168.2	Whole Mud		Trips	-22.0
Reserve	867.0	Barite		Other	
Prev Vol	2352.5	Chemicals		Total Surface	
Net Change	-29.8	Other		Downhole	-7.8
Total Vol	2322.7	Total		Total Losses	-29.8

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,733,581.28	Total Cumulative Cost	$1,856,081.28

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 050

Daily Drilling Fluid Report

Date 08/07/2008		Depth 3,794.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	59.3	m/sec
Jet Impact Force	874.0	lbf
Bit HHSI	2.42	hhp/in2
Press Drop @ Bit	410	psi
Bit Depth	3,794.0	m
ECD @ Csg Shoe	12.86	ppg
ECD @ Bit	13.18	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,580.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,208.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	99		99		99	
bbl/strk	0.142		0.142		0.142	
SPM	60		60		0	
gpm|bbl/min	358	8.53	358	8.53		
Total GPM	717	AV, Riser	16.2	Circ Press psi	3100	
Total Circ Time	78	AV min DP	82.4	Tot Pres Loss	8325	
BU Time , min	49	AV max DC	129.8	Press Drop DP	7360	
Total Strokes	9,391	BU Strokes	5,841	Press Drop An	483	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		4:30	15:00	22:30			
Depth	m	3,577	3,678	3,737			
FL Temp	Deg C	40	63	57			
Density @ Deg C	ppg	11.90 @ 35	12.00 @ 30	12.10 @ 45			
FV @ Deg C	sec/qt	105 @ 35	80	81 @ 45			
PV @ Deg C	cP	49 @ 49	44 @ 49	42 @ 49			
YP	lbs/100 ft2	26	27	32			
GELS	lbs/100 ft2	13/25/29	14/22/27	14/25/-			
600/300		124.0/75.0	115.0/71.0	116.0/74.0			
200/100		56.0/36.0	54.0/35.0	58.0/39.0			
6/3		11.0/9.0	12.0/10.0	13.0/10.0			
NAP/Water Ratio		75.0/25.0	72.5/27.5	72.5/27.5			
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120	5.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	17.8	17.8	17.8			
NAP/Water	% by Vol	60.0/20.0	58.0/22.0	58.0/22.0			
Sand	% by vol	0.50	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.10			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	28.15	28.15	28.15			
NaCl(Sol/Insol)	ppb	0.70/-	0.70/-	0.70/-			
WPS	ppm	291,509	272,222	272,222			
Excess Lime	ppb						
Elec Stability	volt	760	600	600			
LGS/HGS	% by vol	5.9/11.9	5.5/12.3	4.7/13.1			
LGS/HGS	ppb	53.71/174.58	49.68/181.54	42.86/192.57			
ASG	SG	3.669	3.709	3.777			
Additional Properties							
Density at Flow Line	ppg	11.90	12.10	12.10			
ECD from PWD	ppg	0.00	12.70	12.89			

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Seepage losses of up to 14bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Built 350 bbl of premix using 80 bbls of slops to reduce OWR in active.

3bbl of mud was lost over the shakers during circulation.

Rig Activity

Change out saver sub. Rig service. Cont. RIH from 2577m to 3136m. Working through tight spots, wash and ream from 3136m to 3289m. Cont. RIH from 3289m to 3555m. Wash down to bottom @ 3557m. Commence drilling 9 1/2" hole from 3577m to 3791m as per DD instructions.

	Base Oil:	Brine:
Rig	1192bbl	1136bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	34		8	26	$6,935.04
ADAPTA HP	25 kg sack	97		12	85	$6,011.52
barite	1000 kg bulk	141.460		5.660	135.800	$2,687.82
Tau Mod	50 lb sack	87		20	67	$1,917.20
Circal 60/16	25 kg sack	60		27	33	$273.51
Omyacarb 5	25 kg bulk	60.000		27.000	33.000	$253.53
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186		50	1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	16.0
Centrifuge	3,000	40.00	16.0

Time

Drilling	15.5
Circulating	
Trips	3.0
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	4.5
Testing	
Logging	
Dir Work	
Repair	0.5
Other	
Total	24.0
Rotating	20.0
ROP	14.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	830.6	Base	50.0	Fluid Dumped	
Pipe Cap	127.9	Drill Water		Transferred	
Active Pits	377.0	Dewatering		SCE	-88.0
Total Hole	958.5	Sea Water		Evaporation	-20.0
Total Circ	1335.5	Whole Mud	171.0	Trips	
Reserve	1070.0	Barite	8.5	Other	
Prev Vol	2322.7	Chemicals	16.8	Total Surface	
Net Change	83.3	Other		Downhole	-55.0
Total Vol	2405.5	Total	246.3	Total Losses	-163.0

Fluid Types

	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$18,078.62	Total Daily Cost	$20,578.62
Cumulative Products Cost	$1,751,659.90	Total Cumulative Cost	$1,876,659.90

Baroid Representatives	Brian Auckram	James Munford	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 051

Daily Drilling Fluid Report

Date 08/08/2008		Depth 4,220.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	63.8	m/sec
Jet Impact Force	1001.9	lbf
Bit HHSI	2.98	hhp/in2
Press Drop @ Bit	469	psi
Bit Depth	4,220.0	m
ECD @ Csg Shoe	12.94	ppg
ECD @ Bit	13.47	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	4,006.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,637.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	98	99
bbl/strk	0.139	0.141	0.142
SPM	66	65	0
gpm|bbl/min	386	9.20	384	9.15

Total GPM	771	AV, Riser	17.4	Circ Press psi	3600
Total Circ Time	78	AV min DP	88.6	Tot Pres Loss	9581
BU Time , min	50	AV max DC	139.6	Press Drop DP	8367
Total Strokes	10,275	BU Strokes	6,503	Press Drop An	671

Properties		1	2	Hyd 3	4
Source		Flow Line	Pit #6	Flow Line	
Time		3:00	15:00	21:00	
Depth	m	3,864	4,086	4,161	
FL Temp	Deg C	52	66	66	
Density @ Deg C	ppg	12.00 @ 45	12.00 @ 30	12.00 @ 35	
FV @ Deg C	sec/qt	80 @ 45	71 @ 30	75 @ 35	
PV @ Deg C	cP	44 @ 49	41 @ 49	40 @ 49	
YP	lbs/100 ft2	33	33	41	
GELS	lbs/100 ft2	15/25/29	14/24/27	18/29/35	
600/300		121.0/77.0	115.0/74.0	121.0/81.0	
200/100		59.0/39.0	56.0/37.0	74.0/44.0	
6/3		13.0/11.0	12.0/9.0	15.0/12.0	
NAP/Water Ratio		72.5/27.5	71.8/28.2	74.4/25.6	
HTHP @ Deg C	ml/30 min	5.6 @ 120	5.4 @ 120	4.5 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	17.8	19.6	19.6	
NAP/Water	% by Vol	58.0/22.0	56.0/22.0	58.0/20.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.20	2.20	
THTS	ml	3.20	2.90	3.00	
CaCl2	ppb	28.81	28.15	29.12	
NaCl(Sol/Insol)	ppb		2.14/-	1.12/-	
WPS	ppm	272,011	282,011	301,346	
Excess Lime	ppb				
Elec Stability	volt	540	500	450	
LGS/HGS	% by vol	5.5/12.3	9.5/10.1	9.3/10.4	
LGS/HGS	ppb	50.26/181.00	86.37/149.17	84.34/152.51	
ASG	SG	3.705	3.427	3.445	
Additional Properties					
Density at Flow Line	ppg	12.00	12.10	12.00	
ECD from PWD	ppg	12.89	12.90	13.00	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Rig Activity

Cont. drill 9 1/2" hole from 3791m to 4220m as per DD instructions.

	Base Oil:	Brine:
Rig	1192bbl	1136bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	135.800		25.200	110.600	$11,966.98
ADAPTA HP	25 kg sack	85		7	78	$3,506.72
Circal 60/16	25 kg sack	33		20	13	$202.60
Omyacarb 5	25 kg bulk	33.000		20.000	13.000	$187.80
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136			1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	24.0
Centrifuge	3,000	40.00	24.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	17.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	910.8	Base		Fluid Dumped	
Pipe Cap	142.2	Drill Water		Transferred	
Active Pits	386.0	Dewatering		SCE	-155.0
Total Hole	1053.0	Sea Water		Evaporation	-20.0
Total Circ	1439.0	Whole Mud		Trips	
Reserve	786.0	Barite	37.8	Other	
Prev Vol	2405.9	Chemicals	3.4	Total Surface	
Net Change	-181.0	Other		Downhole	-47.2
Total Vol	2225.0	Total	41.2	Total Losses	-222.2

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$15,864.10	Total Daily Cost	$18,364.10
Cumulative Products Cost	$1,767,523.99	Total Cumulative Cost	$1,895,023.99

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 052

Daily Drilling Fluid Report

Date 08/09/2008		Depth 4,582.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	64.0	m/sec
Jet Impact Force	1015.3	lbf
Bit HHSI	3.03	hhp/in2
Press Drop @ Bit	476	psi
Bit Depth	4,532.0	m
ECD @ Csg Shoe	13.05	ppg
ECD @ Bit	13.71	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	4,318.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,999.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		99	
bbl/strk	0.139		0.139		0.142	
SPM	66		66		0	
gpm|bbl/min	386	9.20	386	9.20		
Total GPM	773	AV, Riser	17.4	Circ Press psi	3900	
Total Circ Time	82	AV min DP	88.8	Tot Pres Loss	12619	
BU Time , min	53	AV max DC	139.9	Press Drop DP	11312	
Total Strokes	10,808	BU Strokes	6,956	Press Drop An	740	

Properties		1	2	Hyd 3	4
Source		Pit #6	Pit #6	Pit #6	
Time		2:30	15:00	22:00	
Depth	m	4,289	4,521	4,558	
FL Temp	Deg C	66	66	66	
Density @ Deg C	ppg	12.00 @ 35	12.10 @ 30	12.10 @ 30	
FV @ Deg C	sec/qt	73 @ 35	77 @ 30	75 @ 30	
PV @ Deg C	cP	47 @ 49	60 @ 49	60 @ 49	
YP	lbs/100 ft2	40	35	33	
GELS	lbs/100 ft2	18/32/34	15/24/27	15/24/27	
600/300		134.0/87.0	155.0/95.0	153.0/93.0	
200/100		68.0/45.0	74.0/49.0	72.0/48.0	
6/3		15.0/12.0	14.0/12.0	15.0/12.0	
NAP/Water Ratio		74.4/25.6	73.4/26.6	73.4/26.6	
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	5.0 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	19.6	18.6	18.6	
NAP/Water	% by Vol	58.0/20.0	58.0/21.0	58.0/21.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	2.20	2.20	2.20	
THTS	ml	3.00	3.00	3.00	
CaCl2	ppb	28.15	29.12	29.12	
NaCl(Sol/Insol)	ppb	2.14/-	1.12/-	1.12/-	
WPS	ppm	301,704	291,174	291,174	
Excess Lime	ppb				
Elec Stability	volt	430	425		
LGS/HGS	% by vol	9.2/10.4	6.6/12.1	6.6/12.1	
LGS/HGS	ppb	83.52/153.28	59.71/177.83	59.71/177.83	
ASG	SG	3.451	3.637	3.637	
Additional Properties					
Density at Flow Line	ppg	12.00	12.20	12.10	
ECD from PWD	ppg	13.10	13.40	13.40	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Added 0.5ppb LE Supermul and 0.2ppb Adadpta to active to maintain mud properties.

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

734 bbls (117m3) Base Oil returned to Pacific Valkyrie.

Rig Activity

Cont. drill 9 1/2" hole from 4220m to 4558m as per DD instructions. Washpipe leaking. POOH 5 stds from 4558m to 4411m. Pick up XTSS DP. RIH and back ream tight spot at 4412m. Pick up 10 joints XTSS DP and 2 joints of XT57. Cont. to drill from 4558m to 4582m.

Base Oil:		Brine:
Rig	237bbl	1136bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ADAPTA HP	25 kg sack	78		6	72	$3,005.76
LE SUPERMUL	55 gal drum	26		2	24	$1,733.76
Circal 60/16	25 kg sack	13	144	37	120	$374.81
Omyacarb 5	25 kg bulk	13.000	144.000	37.000	120.000	$347.43
ACCOLADE BASE	1 bbl bulk	744.300			10.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	110.600			110.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136			1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	21.0
VSM-300	280 280	21.0
VSM-300	280 280	21.0
VSM-300	280 280	21.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	21.0
Centrifuge	3,000	40.00	21.0

Time

Drilling	19.5
Circulating	
Trips	4.0
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	19.5
ROP	18.6
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	969.2	Base		Fluid Dumped	
Pipe Cap	152.8	Drill Water	17.0	Transferred	
Active Pits	384.0	Dewatering		SCE	-143.0
Total Hole	1136.4	Sea Water		Evaporation	-20.0
Total Circ	1506.0	Whole Mud		Trips	
Reserve	503.0	Barite		Other	
Prev Vol	2225.0	Chemicals	7.8	Total Surface	
Net Change	-201.8	Other		Downhole	-63.6
Total Vol	2023.4	Total	24.8	Total Losses	-226.6

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$5,461.76	Total Daily Cost	$7,961.76
Cumulative Products Cost	$1,772,985.75	Total Cumulative Cost	$1,902,985.75

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 053

Daily Drilling Fluid Report

Date 08/10/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Backreaming	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	64.0	m/sec
Jet Impact Force	1015.3	lbf
Bit HHSI	3.03	hhp/in2
Press Drop @ Bit	476	psi
Bit Depth	3,823.0	m
ECD @ Csg Shoe	13.12	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,609.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	66	66	0
gpm|bbl/min	386 | 9.20	386 | 9.20	

Total GPM	773	AV, Riser	17.4	Circ Press psi	3900
Total Circ Time	72	AV min DP	88.8	Tot Pres Loss	9926
BU Time , min	45	AV max DC	139.9	Press Drop DP	8710
Total Strokes	9,569	BU Strokes	6,003	Press Drop An	657

Properties		1	2	Hyd 3	4
Source		Flow Line	Pit #6	Pit #6	
Time		3:00	15:00	22:00	
Depth	m	4,648	4,648	4,648	
FL Temp	Deg C	66	33		
Density @ Deg C	ppg	12.00 @ 45	12.10 @ 25	12.10 @ 30	
FV @ Deg C	sec/qt	71 @ 45	77 @ 25	80 @ 30	
PV @ Deg C	cP	56 @ 49	56 @ 49	56 @ 49	
YP	lbs/100 ft2	42	38	37	
GELS	lbs/100 ft2	17/27/33	15/23/29	15/25/29	
600/300		154.0/98.0	150.0/94.0	149.0/93.0	
200/100		84.0/56.0	75.0/50.0	77.0/53.0	
6/3		18.0/14.0	14.0/11.0	14.0/11.0	
NAP/Water Ratio		74.0/26.0	74.4/25.6	74.0/26.0	
HTHP @ Deg C	ml/30 min	3.6 @ 120	4.0 @ 120	3.8 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	20.9	19.8	20.9	
NAP/Water	% by Vol	57.0/20.0	58.0/20.0	57.0/20.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	2.00	2.10	2.00	
THTS	ml	2.90	3.00	2.90	
CaCl2	ppb	27.44	28.81	27.44	
NaCl(Sol/Insol)	ppb				
WPS	ppm	281,320	291,289	281,320	
Excess Lime	ppb				
Elec Stability	volt	400	410	400	
LGS/HGS	% by vol	11.6/9.3	8.7/11.1	10.9/10.0	
LGS/HGS	ppb	105.88/136.63	79.13/163.33	99.06/147.65	
ASG	SG	3.311	3.498	3.368	
Additional Properties					
Density at Flow Line	ppg	12.00	12.20	12.20	
ECD from PWD	ppg	13.10	13.20	13.10	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Rig Activity

Cont. drill 9 1/2" hole from 4582m to 4648m as per DD instructions. Reached TD. Circ. 5 times bottoms up and ream from 4648m to 4354m. Washpipe leaking, change out washpipe. Cont. back ream from 4354m to 3823m.

	Base Oil:	Brine:
Rig	237bbl	1096bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	72			72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	110.600			110.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136		40	1,096	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	120			120	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	24			24	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	20.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	6.0
Centrifuge	3,000	40.00	6.0

Time

Drilling	3.0
Circulating	7.0
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	10.0
Testing	
Logging	
Dir Work	
Repair	4.0
Other	
Total	24.0
Rotating	13.0
ROP	22.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	836.5	Base	40.0	Fluid Dumped	
Pipe Cap	128.9	Drill Water	10.0	Transferred	
Active Pits	368.0	Dewatering		SCE	-69.0
Total Hole	1202.6	Sea Water		Evaporation	-7.0
Total Circ	1333.3	Whole Mud		Trips	
Reserve	398.0	Barite		Other	
Prev Vol	2023.4	Chemicals		Total Surface	
Net Change	-54.7	Other		Downhole	-28.7
Total Vol	1968.6	Total	50.0	Total Losses	-104.7

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,772,985.75	Total Cumulative Cost	$1,905,485.75

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 054

Daily Drilling Fluid Report

Date 08/11/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig up and rig down	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth		m
ECD @ Csg Shoe	12.20	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220	
Bore in	6.500	6.500	6.500	
Strokes in	14.000	14.000	14.000	
Eff(%)	97	97	99	
bbl/strk	0.139	0.139	0.142	
SPM	66	66	0	
gpm|bbl/min	386	9.20	386	9.20
Total GPM	773	AV, Riser		Circ Press psi 3000
Total Circ Time	15	AV min DP		Tot Pres Loss
BU Time , min		AV max DC		Press Drop DP
Total Strokes	2,031	BU Strokes		Press Drop An

Properties		1	2	Hyd 3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #5			
Time		3:00	15:00	20:00			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C						
Density @ Deg C	ppg	12.10 @ 30	12.10 @ 25	12.20 @ 25			
FV @ Deg C	sec/qt	78 @ 30	77 @ 25	85 @ 25			
PV @ Deg C	cP	57 @ 49	60 @ 49	60 @ 49			
YP	lbs/100 ft2	36	35	33			
GELS	lbs/100 ft2	15/25/30	14/23/27	15/24/27			
600/300		150.0/93.0	155.0/95.0	153.0/93.0			
200/100		73.0/53.0	74.0/49.0	72.0/48.0			
6/3		15.0/11.0	14.0/12.0	15.0/12.0			
NAP/Water Ratio		74.4/25.6	74.4/25.6	74.4/25.6			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	3.9 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.9	19.9	19.9			
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	58.0/20.0			
Sand	% by vol	0.20	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00	2.00			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	27.44	27.44	27.44			
NaCl(Sol/Insol)	ppb						
WPS	ppm	281,320	281,320	281,320			
Excess Lime	ppb						
Elec Stability	volt	400	410	400			
LGS/HGS	% by vol	8.8/11.1	8.8/11.1	8.0/11.9			
LGS/HGS	ppb	79.81/164.03	79.81/164.03	72.99/175.05			
ASG	SG	3.496	3.496	3.556			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Mixed 270bbl reserve mud to fill hole as contingency.

Rig Activity

Cont. back ream from 3823m to 3469m. Observed backflow, circulate and condition mud. Cont. backream 3469m to 2607m. Circ. 2X bottoms up. Perform flow check, static. POOH wet from 2607m to 2163m. Pumped 30 bbl slug, chased with 10 bbl mud. Cont. POOH dry from 2163m to 214m. Break out and lay out BHA. Rig up weatherford equipment, make up cement head.

	Base Oil:	Brine:
Rig	113bbl	1096bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	110.600		28.700	81.900	$13,629.06
LE SUPERMUL	55 gal drum	24		8	16	$6,935.04
ADAPTA HP	25 kg sack	72		12	60	$6,011.52
Tau Mod	50 lb sack	67		27	40	$2,588.22
Circal 60/16	25 kg sack	120		15	105	$151.95
Omyacarb 5	25 kg bulk	120.000		15.000	105.000	$140.85
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,096			1,096	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	12.0
VSM-300	280 280	12.0
VSM-300	280 280	12.0
VSM-300	280 280	12.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	9.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	9.0
Testing	
Logging	
Dir Work	
Repair	
Other	3.5
Total	24.0
Rotating	9.0
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	283.0	Dewatering		SCE	
Total Hole	1459.5	Sea Water		Evaporation	
Total Circ	283.0	Whole Mud	174.0	Trips	
Reserve	456.0	Barite	43.0	Other	
Prev Vol	1968.6	Chemicals	15.9	Total Surface	
Net Change	229.9	Other		Downhole	-3.0
Total Vol	2198.5	Total	232.9	Total Losses	-3.0

Fluid Types	Vol bbl
Base Oil	103.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$29,456.64	Total Daily Cost	$31,956.64
Cumulative Products Cost	$1,802,442.39	Total Cumulative Cost	$1,937,442.39

Baroid Representatives	Brian Auckram	James Munford	
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Baroid Fluid Services

Report No 055

Daily Drilling Fluid Report

Date 08/12/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000 in
Make/Type	CASING/7" Casing
Jets	
TFA	1.000 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	2,017.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.276	1,339.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		15:00	20:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25		
FV @ Deg C	sec/qt	110 @ 25	110 @ 25		
PV @ Deg C	cP	60 @ 49	59 @ 49		
YP	lbs/100 ft2	35	35		
GELS	lbs/100 ft2	15/23/27	15/24/29		
600/300		155.0/95.0	153.0/94.0		
200/100		74.0/49.0	73.0/52.0		
6/3		14.0/12.0	15.0/12.0		
NAP/Water Ratio		74.4/25.6	74.4/25.6		
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	19.9	19.9		
NAP/Water	% by Vol	58.0/20.0	58.0/20.0		
Sand	% by vol	0.10	0.20		
Alkalinity Pom	ml				
AgNO3	ml	2.00	2.00		
THTS	ml	2.90	3.00		
CaCl2	ppb	27.44	27.44		
NaCl(Sol/Insol)	ppb				
WPS	ppm	281,320	281,320		
Excess Lime	ppb				
Elec Stability	volt	400	400		
LGS/HGS	% by vol	8.8/11.1	8.8/11.1		
LGS/HGS	ppb	79.81/164.03	79.81/164.03		
ASG	SG	3.496	3.496		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Returned 433bbls of SBM to pacific Valkyrie. Mixed 6ppb SAPP solution to clean mud pits. Received completion fluid chemicals off boat.

NOTE:

8 Drums of RADIAGREEN EME SALT & 80 pails of LIQUI-VIS EP is not shown in inventory due to lack of pricing infomation.

Rig Activity

Cont. rig up cement head stand as per BOT instructions. Change out bails, rig up 7" handling equipment and weatherford equipment. Commence picking up and RIH 7" liner from surface to 2017m. Filling liner every 5 joints.

	Base Oil:	Brine:
Rig	113bbl	1200bbl
Battler	-	636bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
sapp	25 kg bag	40		21	19	$1,039.71
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	9	32		41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	81.900			81.900	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,096	104		1,200	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	105			105	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	16			16	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	375.9	Base		Fluid Dumped	
Pipe Cap	250.7	Drill Water	44.0	Transferred	-433.0
Active Pits	343.0	Dewatering		SCE	
Total Hole	1392.5	Sea Water		Evaporation	
Total Circ	969.7	Whole Mud		Trips	
Reserve	74.0	Barite		Other	
Prev Vol	2198.5	Chemicals		Total Surface	
Net Change	-389.0	Other		Downhole	
Total Vol	1809.5	Total	44.0	Total Losses	-433.0

Fluid Types	Vol bbl
Base Oil	103.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$1,039.71	Total Daily Cost	$3,539.71
Cumulative Products Cost	$1,803,482.10	Total Cumulative Cost	$1,940,982.10

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

HALLIBURTON | Fluid Systems

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Baroid Fluid Services

Report No 056

Daily Drilling Fluid Report

Date 08/13/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,608.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.675	2,530.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Flow Line	Pit #6		
Time		3:00	20:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.10 @ 25	12.20 @ 25		
FV @ Deg C	sec/qt	110 @ 25	123 @ 25		
PV @ Deg C	cP	55 @ 49	52 @ 49		
YP	lbs/100 ft2	35	38		
GELS	lbs/100 ft2	15/22/26	15/22/26		
600/300		145.0/90.0	142.0/90.0		
200/100		69.0/45.0	69.0/45.0		
6/3		14.0/11.0	14.0/11.0		
NAP/Water Ratio		74.4/25.6	74.4/25.6		
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	19.9	19.8		
NAP/Water	% by Vol	58.0/20.0	58.0/20.0		
Sand	% by vol	0.20	0.20		
Alkalinity Pom	ml				
AgNO3	ml	2.00	2.10		
THTS	ml	2.90	2.90		
CaCl2	ppb	27.44	28.15		
NaCl(Sol/Insol)	ppb		0.70/-		
WPS	ppm	281,320	291,509		
Excess Lime	ppb				
Elec Stability	volt	400	410		
LGS/HGS	% by vol	8.8/11.1	7.9/11.9		
LGS/HGS	ppb	79.81/164.03	71.74/174.89		
ASG	SG	3.496	3.562		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Clean mud pits #4, #8 and #7.
Note on rheology of Liqui-Vis EP sweep: FV 120sec/qt, 140/100/85/60/13/8 gels 8/14.
Prepare 393bbl 11.0ppg brine with 1.5% Radiagreen EME and 1gal/bbl Liqui-vis EP in pit #8. Prepared 383bbl 11.0ppg brine with 5% Baraklean NS in pit #4. Prepared 70bbl brine with 1.8ppb N-Vis in slug pit.

Circulate Base Oil and Tuned spacers out of hole and direct spacer returns to slops pit (pit #2). Transferred slug pit to pit #8 to allow preparation of HW slug for POOH.

Rig Activity

Cont. run 7" liner from 2017m to 2047m, filling liner every 5 joints. Rig down 500T bails and 7" handling gear and install 5 1/2" handling gear. Make up 7" setting sleeve running tool and break circ. Continue to RIH with 7" liner on 5 1/2" drillpipe to 4648m Pick up to 4647m. Rig up for cement job. Pump 60bbl Base Oil spacer and 60bbl tuned spacer Attempt to pump cement pressure up to 2500psi. Bleed down and await instruction. Circ at 32spm/3500psi, stop pumping partial pack off. Manage to circ, spacer returns at 5000stks indicating circulating from top of liner. Rig down cement line and head. POOH from 4648m to 4584m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LIQUI-VIS EP	5 gal pail		80	70	10	$13,877.50
BARAKLEAN PLUS	1054 l bulk	1.000	8.000	3.000	6.000	$13,866.42
barite	1000 kg bulk	81.900		13.500	68.400	$6,410.88
Radiagreen-EME	55 gal drum		10	4	6	$5,820.00
N-VIS	25 lb bag	67		5	62	$861.60
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum		14		14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,200	554	694	1,060	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail		32		32	
Circal 60/16	25 kg sack	105	96		201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum		4		4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	280 280	
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	0.5
Rig	0.5
Surveys	
Fishing	
Run Casing	23.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	876.7	Base		Fluid Dumped	
Pipe Cap	434.6	Drill Water	54.1	Transferred	
Active Pits	271.0	Dewatering		SCE	
Total Hole	1322.8	Sea Water		Evaporation	
Total Circ	1582.3	Whole Mud	53.0	Trips	
Reserve	343.0	Barite	20.2	Other	
Prev Vol	1809.5	Chemicals		Total Surface	
Net Change	127.4	Other		Downhole	
Total Vol	1936.8	Total	127.4	Total Losses	

Fluid Types	Vol bbl
Base Oil	50.0
brine	863.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$40,836.40	Total Daily Cost	$43,336.40
Cumulative Products Cost	$1,844,318.50	Total Cumulative Cost	$1,984,318.50

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 057

Daily Drilling Fluid Report

Date 08/14/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000 in
Make/Type	CASING/7" Casing
Jets	
TFA	1.000 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	2,078.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		2:00	21:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 22		
FV @ Deg C	sec/qt	125 @ 22	125 @ 22		
PV @ Deg C	cP	52 @ 49	52 @ 49		
YP	lbs/100 ft2	38	38		
GELS	lbs/100 ft2	15/22/26	15/22/26		
600/300		142.0/90.0	142.0/90.0		
200/100		69.0/45.0	69.0/45.0		
6/3		14.0/11.0	14.0/11.0		
NAP/Water Ratio		74.4/25.6	74.4/25.6		
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	19.8	19.8		
NAP/Water	% by Vol	58.0/20.0	58.0/20.0		
Sand	% by vol	0.20	0.20		
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.10		
THTS	ml	3.00	2.90		
CaCl2	ppb	28.81	28.15		
NaCl(Sol/Insol)	ppb		0.70/-		
WPS	ppm	291,289	291,509		
Excess Lime	ppb				
Elec Stability	volt	407	410		
LGS/HGS	% by vol	7.9/11.8	7.9/11.9		
LGS/HGS	ppb	72.31/174.36	71.74/174.89		
ASG	SG	3.558	3.562		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Cleaned pit #7. Transferred dead volume from pit #6 and slug pit to active tank with wilden pump for volume. Slops pit (pit #2) O/W ratio 25/75. Slops pit now set as separate fluid set.
Current Mud Pit Volumes:
Pit #1 - 50bbl Base Oil
Pit #2 - 262bbl "Slops"
Pit #3 - 354bbl SAPP/water
Pit #4 - 285bbl 11.0ppg Brine/Baraklean
Pit #5 - 152bbl SBM (Active Pit)
Pit #6 - 12bbl SBM
Pit #7 - Clean
Pit #8 - 450bbl 11.0ppg Brine/Radiagreen/Liqui-vis

Rig Activity

Sand Traps - 150bbl SBM
Trip Tank - 32bbl SBM

Continue to POOH from 4584m to surface. Break out 7" liner running tool. Test BOP. Make up RTTS and RIH.

Base Oil:		Brine:
Rig	50bbl	1056bbl
Battler	-	566bbl
Valkyrie	742bbl	748bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.400			68.400	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,060			1,060	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	14.0
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	9.0
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	384.8	Base		Fluid Dumped	
Pipe Cap	258.4	Drill Water		Transferred	-244.7
Active Pits	262.0	Dewatering		SCE	
Total Hole	1390.5	Sea Water		Evaporation	
Total Circ	905.2	Whole Mud		Trips	
Reserve	39.6	Barite		Other	
Prev Vol	1936.8	Chemicals		Total Surface	
Net Change	-244.7	Other		Downhole	
Total Vol	1692.1	Total		Total Losses	-244.7

Fluid Types	Vol bbl
Base Oil	50.0
Slops	262.0
brine	736.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,844,318.50	Total Cumulative Cost	$1,986,818.50

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 058

Daily Drilling Fluid Report

Date 08/15/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,300.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	3.500	2.250	222.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		2:30	14:30				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 23				
FV @ Deg C	sec/qt	125 @ 22	125 @ 23				
PV @ Deg C	cP	52 @ 49	52 @ 49				
YP	lbs/100 ft2	38	38				
GELS	lbs/100 ft2	15/22/26	15/22/26				
600/300		142.0/90.0	142.0/90.0				
200/100		69.0/45.0	69.0/45.0				
6/3		14.0/11.0	14.0/11.0				
NAP/Water Ratio		74.4/25.6	74.4/25.6				
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.8	19.8				
NAP/Water	% by Vol	58.0/20.0	58.0/20.0				
Sand	% by vol	0.20	0.20				
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.00	3.00				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	291,289	291,289				
Excess Lime	ppb						
Elec Stability	volt	406	412				
LGS/HGS	% by vol	7.9/11.8	7.9/11.8				
LGS/HGS	ppb	72.31/174.36	72.31/174.36				
ASG	SG	3.558	3.558				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Transfer dead volume from pit #6 to active and clean pit #6. Transfer SBM from slug pit to pit #5 and clean slug pit. Transfer 382bbl 11.3ppg brine from bulk storage tank to pit #7 and 378bbl 11.3ppg Brine to pit #6 to allow unloading of Brine from Valkyrie to bulk brine tank.

Base Oil:		Brine:
Rig	50bbl	1056bbl
Battler	-	566bbl
Valkyrie	742bbl	748bbl

Rig Activity

Continue to RIH with RTTS to 2735m. Set Packer and attempt to circulate. No returns, max pressure 5000psi. Unseat packer and POOH. Pick up 3 3/8" TCP gun assembly and make up same. Pick up 3 1/2" drill pipe from deck and RIH to 498m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	68.400		2.400	66.000	$1,139.71
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,060		760	300	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	443.5	Base		Fluid Dumped	
Pipe Cap	262.0	Drill Water		Transferred	
Active Pits	272.0	Dewatering		SCE	
Total Hole	1385.4	Sea Water		Evaporation	
Total Circ	977.5	Whole Mud		Trips	
Reserve	38.3	Barite	3.6	Other	
Prev Vol	1692.1	Chemicals		Total Surface	
Net Change	3.6	Other		Downhole	
Total Vol	1695.7	Total	3.6	Total Losses	

Fluid Types	Vol bbl
Base Oil	50.0
Slops	313.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$1,139.71	Total Daily Cost	$3,639.71
Cumulative Products Cost	$1,845,458.21	Total Cumulative Cost	$1,990,458.21

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 059

Daily Drilling Fluid Report

Date 08/16/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity	20.0	m/sec
Jet Impact Force	85.5	lbf
Bit HHSI	0.15	hhp/in2
Press Drop @ Bit	47	psi
Bit Depth	4,560.0	m
ECD @ Csg Shoe	12.58	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	452.0
Drill Pipe	3.500	2.250	2,030.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	35	0	0
gpm|bbl/min	205	4.88	

Total GPM	205	AV, Riser	4.6	Circ Press psi	1500
Total Circ Time	341	AV min DP	18.4	Tot Pres Loss	3666
BU Time , min	201	AV max DC		Press Drop DP	3131
Total Strokes	11,939	BU Strokes	7,049	Press Drop An	478

Properties

		1	2	Hyd 3	4
Source		Pit #5	Pit #5	Flow Line	
Time		2:50	16:30	23:59	
Depth	m	4,648	4,648	4,648	
FL Temp	Deg C			38	
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 22	12.30 @ 30	
FV @ Deg C	sec/qt	125 @ 22	125 @ 22	134 @ 30	
PV @ Deg C	cP	52 @ 49	52 @ 49	55 @ 49	
YP	lbs/100 ft2	39	38	35	
GELS	lbs/100 ft2	15/21/25	15/22/25	14/25/29	
600/300		143.0/91.0	142.0/90.0	145.0/90.0	
200/100		69.0/44.0	69.0/45.0	68.0/40.0	
6/3		14.0/11.0	14.0/11.0	13.0/11.0	
NAP/Water Ratio		74.4/25.6	74.4/25.6	71.8/28.2	
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	19.8	19.8	19.9	
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	56.0/22.0	
Sand	% by vol	0.10		0.20	
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.10	2.00	
THTS	ml	2.90	3.00	2.90	
CaCl2	ppb	28.15	28.81	27.44	
NaCl(Sol/Insol)	ppb	0.70/-			
WPS	ppm	291,509	291,289	262,458	
Excess Lime	ppb				
Elec Stability	volt	407	408	305	
LGS/HGS	% by vol	7.9/11.9	7.9/11.8	7.6/12.4	
LGS/HGS	ppb	71.74/174.89	72.31/174.36	68.90/182.07	
ASG	SG	3.562	3.558	3.593	
Additional Properties					
Density at Flow Line	ppg	0.00	0.00	0.00	
ECD from PWD	ppg	0.00	0.00	0.00	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Prepare 60bbl cementers tuned spacer in slug pit weighted to 13.0ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg - 11.8ppg. Added Barite to maintain mud weight and circulate until mud weight consistent.
Received approx. 692bbl of 11.3ppg Brine from Valkyrie.

	Base Oil:	Brine:
Rig	50bbl	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Rig Activity

Continue to RIH with TCP gun, picking up 3 1/2" drill pipe from deck to 2003m. Change bails and elevators and RIH with 5 1/2" drill pipe to 2241m. Observed back-flow. Make up TDS and circ mud. Continue to RIH from 2241m to 4560m. Set RTTS packer. Test cement line. Fire TCP gun with cement unit. Establish returns with cement unit. Circulate liner/open hole volume with mud pumps 5bpm/1500psi. No losses.

Product Name

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	66.000		31.000	35.000	$14,721.28
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	300		692	992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	4.0
VSM-300	280 280	
VSM-300	280 280	4.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	20.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	982.2	Base		Fluid Dumped	
Pipe Cap	316.4	Drill Water		Transferred	
Active Pits	365.0	Dewatering		SCE	
Total Hole	1323.9	Sea Water		Evaporation	
Total Circ	1663.6	Whole Mud		Trips	
Reserve	39.7	Barite	33.0	Other	
Prev Vol	1695.7	Chemicals		Total Surface	
Net Change	33.0	Other		Downhole	
Total Vol	1728.6	Total	33.0	Total Losses	

Fluid Types

	Vol bbl
Base Oil	50.0
Slops	313.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$14,721.28	Total Daily Cost	$17,221.28
Cumulative Products Cost	$1,860,179.49	Total Cumulative Cost	$2,007,679.49

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Baroid Fluid Services

Report No 060

Daily Drilling Fluid Report

Date 08/17/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		2:20	17:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.30 @ 30	12.10 @ 30				
FV @ Deg C	sec/qt	134 @ 30	135 @ 30				
PV @ Deg C	cP	55 @ 49	58 @ 49				
YP	lbs/100 ft2	35	34				
GELS	lbs/100 ft2	14/25/29	10/19/20				
600/300		145.0/90.0	150.0/92.0				
200/100		69.0/41.0	67.0/40.0				
6/3		13.0/11.0	11.0/8.0				
NAP/Water Ratio		71.8/28.2	67.5/32.5				
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.9	18.0				
NAP/Water	% by Vol	56.0/22.0	54.0/26.0				
Sand	% by vol	0.20					
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00				
THTS	ml	2.80	2.80				
CaCl2	ppb	27.18	27.18				
NaCl(Sol/Insol)	ppb	0.27/-	0.27/-				
WPS	ppm	262,526	231,487				
Excess Lime	ppb						
Elec Stability	volt	306	250				
LGS/HGS	% by vol	7.5/12.4	5.4/12.6				
LGS/HGS	ppb	68.67/182.29	48.97/185.33				
ASG	SG	3.595	3.721				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Continue to add Barite to active system while circulating to ensure mud weight 12.2ppg out and 12.3ppg in. Prepare 30bbl pumpable 13.0ppg Slug for cement job. Clean pit #3. Added LE Supermul to active pit to maintain ES.
Received 35 MT Barite from Valkyrie.
Back-loaded 705bbl slops (Slops pit and SAPP waste) to Valkyrie in port tank #2 and starboard tank #2 on vessel. Backloaded 2x Bulk bags of KCl Tech Grade.

Rig Activity

Continue to circ and condition mud until weight even. POOH from 4560m to 4189m Set RTTS and rig up cement line. Hold JSA and cement liner as programmed. Break circ. Rack back cement stand. Continue to circ bottoms up. Continue to POOH to 1592m. Service break RTTS. Continue to POOH to top of guns.

	Base Oil:	Brine:
Rig	50bbl	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	35.000	35.000	16.000	54.000	$7,598.08
LE SUPERMUL	55 gal drum	16		2	14	$1,733.76
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000				

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	19.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	563.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	563.0	Whole Mud		Trips	
Reserve	44.0	Barite	24.0	Other	-31.0
Prev Vol	1759.7	Chemicals	2.6	Total Surface	
Net Change	-4.4	Other		Downhole	
Total Vol	1724.2	Total	26.6	Total Losses	-31.0

Fluid Types	Vol bbl
Base Oil	50.0
Slops	12.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$9,331.84	Total Daily Cost	$11,831.84
Cumulative Products Cost	$1,869,511.33	Total Cumulative Cost	$2,019,511.33

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 061

Daily Drilling Fluid Report

Date 08/18/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000 in
Make/Type	CASING/7" Casing
Jets	
TFA	1.000 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,936.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,786.0
Drill Pipe	3.500	2.250	150.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #6		
Time		2:30	23:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.00 @ 25	11.90 @ 30		
FV @ Deg C	sec/qt	146 @ 25	163 @ 30		
PV @ Deg C	cP	58 @ 49	63 @ 49		
YP	lbs/100 ft2	23	23		
GELS	lbs/100 ft2	10/19/21	10/18/20		
600/300		139.0/81.0	149.0/86.0		
200/100		59.0/35.0	62.0/36.0		
6/3		10.0/8.0	10.0/7.0		
NAP/Water Ratio		66.3/33.8	64.6/35.4		
HTHP @ Deg C	ml/30 min	5.8 @ 120	6.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	17.9	15.9		
NAP/Water	% by Vol	53.0/27.0	53.0/29.0		
Sand	% by vol				
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.10		
THTS	ml	3.00	3.20		
CaCl2	ppb	28.81	28.81		
NaCl(Sol/Insol)	ppb				
WPS	ppm	233,396	220,854		
Excess Lime	ppb				
Elec Stability	volt	242	175		
LGS/HGS	% by vol	6.2/11.6	3.0/12.9		
LGS/HGS	ppb	56.79/171.32	27.57/189.32		
ASG	SG	3.642	3.895		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets | Program

Fluid Treatments

Fluid Type ACCOLADE

Clean slug pit in preparation for mixing tuned spacer. Prepare 13.5ppg slug in slug pit. Increase in water percentage due to contamination from water/spacers used in previous cement jobs.
Cementing through the perforations in the top of the 7" liner, 274bbl of Accolade mud was contaminated with the cement spacer train and was disposed to slops pit.
Accolade volume transferred to slops pit was contaminated with 35bbl water, 60bbl tuned spacer, 10bbl water, 5-10bbl cement and a further 10bbl water from cement job.

Rig Activity

POOH TCP guns and lay out same. Rig up Schlumberger and run TCP guns on wire-line to 2675m. Fire gun and POOH. Lay down tools and rig down Schlumberger. Make up 7" cement retainer BHA. RIH to 2649m, lay out top single and pick up cement stand. Circulate at 500gpm. Set cement retainer. Release stinger and confirm clear. Sting back into retainer and slowly establish circ. Test cement line and pump cement as per program. Displace cement with SBM. Rig down cement line, pump HW slug and POOH to 1938m laying out pipe.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	54.000		11.800	42.200	$5,603.58
LE SUPERMUL	55 gal drum	14		1	13	$866.88
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.5
Trips	15.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	5.0
Dir Work	
Repair	
Other	1.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	483.9	Base		Fluid Dumped	
Pipe Cap	102.4	Drill Water		Transferred	-274.0
Active Pits	161.0	Dewatering		SCE	
Total Hole	1034.5	Sea Water		Evaporation	
Total Circ	747.3	Whole Mud		Trips	
Reserve	261.0	Barite	4.9	Other	
Prev Vol	1724.2	Chemicals	1.3	Total Surface	
Net Change	-267.7	Other		Downhole	
Total Vol	1456.5	Total	6.3	Total Losses	-274.0

Fluid Types	Vol bbl
Base Oil	50.0
Slops	490.7
brine	1434.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$6,470.46	Total Daily Cost	$8,970.46
Cumulative Products Cost	$1,875,981.79	Total Cumulative Cost	$2,028,481.79

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 062

Daily Drilling Fluid Report

Date 08/19/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #2			
Time		2:11	7:00	21:00			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 30	11.55 @ 22			
FV @ Deg C	sec/qt	163 @ 30	159 @ 30				
PV @ Deg C	cP	63 @ 49	66 @ 49	94 @ 40			
YP	lbs/100 ft2	23	23	112			
GELS	lbs/100 ft2	10/18/20	10/22/25	13/24/29			
600/300		149.0/86.0	155.0/89.0	300.0/206.0			
200/100		62.0/36.0	64.0/38.0	140.0/82.0			
6/3		10.0/8.0	10.0/7.0	13.0/9.0			
NAP/Water Ratio		64.6/35.4	65.9/34.1	41.9/58.1			
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9	11.5			
NAP/Water	% by Vol	53.0/29.0	54.0/28.0	36.0/50.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.60			
THTS	ml	3.20	3.20	3.80			
CaCl2	ppb	28.81	28.81	35.67			
NaCl(Sol/Insol)	ppb						
WPS	ppm	220,854	226,952	169,124			
Excess Lime	ppb						
Elec Stability	volt	174	180	31			
LGS/HGS	% by vol	2.3/13.6	1.4/14.5	0.1/11.4			
LGS/HGS	ppb	20.75/200.35	12.70/213.22	0.92/167.15			
ASG	SG	3.971	4.060	4.186			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Back-loaded 465 bbl of 11.6 ppg contaminated "slops" SBM mud with cement spacer and water from the slops pit to Vessel Battler in Port tank #2 and Stbd tank #2, to be offloaded for conditioning. SEE MUD CHECK #3.
Backloaded 8 drums of OMC-42 to Vessel Battler. Added 50bbl Base Oil and 10bbl Slops to active and treated with LE Supermul and Tau Mod to maintain properties and weighted to 12.0ppg with Barite.
Transferred volume from soilds control tanks to active.
Rec'd 160x Liqui-vis and 9x Oxygon as per manifest WT-0079 OUT.

Rig Activity

Continue to POOH laying out singles. Carry out injectivity test on cement plug at top of liner.
Continue to POOH to surface.
Made up 9 1/2" bit, RIH and cleaned out the 10 3/4" csg to the top of 7" liner. Circ bottoms up, pump slug and POOH.

Base Oil:		Brine:
Rig	-	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	42.200	38.000	6.500	73.700	$3,086.72
LE SUPERMUL	55 gal drum	13		3	10	$2,600.64
Tau Mod	50 lb sack	40		6	34	$575.16
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.5
Trips	21.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	1.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ		Whole Mud	60.0	Trips	
Reserve	413.3	Barite	9.7	Other	
Prev Vol	1456.5	Chemicals	4.3	Total Surface	
Net Change	74.1	Other		Downhole	
Total Vol	1530.5	Total	74.1	Total Losses	

Fluid Types	Vol bbl
Slops	15.0
brine	1434.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$6,262.52	Total Daily Cost	$8,762.52
Cumulative Products Cost	$1,882,244.31	Total Cumulative Cost	$2,037,244.31

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 063

Daily Drilling Fluid Report

Date 08/20/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Drill out	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SII/XR+PS	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity	21.7	m/sec
Jet Impact Force	90.6	lbf
Bit HHSI	0.23	hhp/in2
Press Drop @ Bit	54	psi
Bit Depth	2,669.0	m
ECD @ Csg Shoe	12.21	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	3.500	2.250	2,642.8
Drill Collar	4.750	2.250	18.9
Motor	4.750	0.000	7.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	35	0	0
gpm|bbl/min	205	4.88	

Total GPM	205	AV, Riser	4.4	Circ Press psi	2047
Total Circ Time	209	AV min DP	18.4	Tot Pres Loss	4801
BU Time , min	158	AV max DC	97.6	Press Drop DP	4035
Total Strokes	7,301	BU Strokes	5,533	Press Drop An	96

Properties		1	Hyd 2	3	4	Targets	Program
Source		Pit #6	Flow Line				
Time		3:00	20:30				
Depth	m	4,648	4,648				
FL Temp	Deg C		40				
Density @ Deg C	ppg	12.00 @ 30	12.00 @ 33				
FV @ Deg C	sec/qt	159 @ 30	120 @ 33				
PV @ Deg C	cP	66 @ 49	60 @ 49				
YP	lbs/100 ft2	23	23				
GELS	lbs/100 ft2	10/22/25	10/22/25				
600/300		155.0/89.0	143.0/83.0				
200/100		64.0/38.0	60.0/37.0				
6/3		10.0/7.0	10.0/7.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.20	3.10				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	226,952	226,952				
Excess Lime	ppb						
Elec Stability	volt	179	218				
LGS/HGS	% by vol	2.1/13.7	2.1/13.7				
LGS/HGS	ppb	19.52/202.20	19.52/202.20				
ASG	SG	3.984	3.984				
Additional Properties							
Density at Flow Line	ppg	0.00	11.90				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Backloaded onto the Vessel Battler, 125 bbls of slops (waste mud) into Port tank #1 and 200 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #1.
Topped up 11.3ppg Brine volume in pits #3 and #7. cut back with water to 11.0ppg to have 450bbl in pit #7 and 475bbl in pit #3.
Added 1 drum of Radiagreen EME into pit #8 to maintain 1.5% v/v concentration. Also added 50 bbls of 11.0 ppg brine and 110 gal of BARAKLEAN into pit #4 to increase the volume required for displacement. Added LE Supermul, Tau Mod and Calcium Chloride to active while drilling cement retainer to maintain properties.

Rig Activity

Backloaded surplus SBM chemicals to Valkyrie.

Continue to POOH. Make up 6 " bit, motor and BHA and RIH with 3 1/2" drill pipe to 2535m. Slip and cut drill line. Continue to RIH from 2535m to 2641m. Drill out cement retainer to 2669m at time of report.

Base Oil:		Brine:
Rig	-	802bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	10		6		$5,201.28
Radiagreen-EME	55 gal drum	6		1	5	$1,455.00
Tau Mod	50 lb sack	34		12	22	$1,150.32
Calcium chloride 94%	25 kg sack	320		40	280	$552.80
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60				
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8				
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	73.700			73.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992		190	802	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4				
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	11.0
VSM-300	280 280	11.0
VSM-300	280 280	11.0
VSM-300	280 280	11.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	11.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	12.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	770.9	Base		Fluid Dumped	
Pipe Cap	42.9	Drill Water		Transferred	-211.3
Active Pits	203.5	Dewatering		SCE	
Total Hole	1055.1	Sea Water		Evaporation	
Total Circ	1017.4	Whole Mud		Trips	
Reserve	72.1	Barite		Other	
Prev Vol	1530.5	Chemicals	11.5	Total Surface	
Net Change	-199.8	Other		Downhole	
Total Vol	1330.7	Total	11.5	Total Losses	-211.3

Fluid Types	Vol bbl
brine	1685.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$8,359.40	Total Daily Cost	$10,859.40
Cumulative Products Cost	$1,890,603.71	Total Cumulative Cost	$2,048,103.71

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 064

Daily Drilling Fluid Report

Date 08/21/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SMITH/XR+ST	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	1,239.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,120.5
Drill Pipe	3.500	2.250	98.2
Drill Collar	4.750	2.250	20.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM | AV, Riser | Circ Press psi
Total Circ Time | AV min DP | Tot Pres Loss
BU Time , min | AV max DC | Press Drop DP
Total Strokes | BU Strokes | Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Flow Line	Flow Line				
Time		2:00	19:30				
Depth	m	4,648	4,648				
FL Temp	Deg C	40	40				
Density @ Deg C	ppg	11.90 @ 33	11.90 @ 33				
FV @ Deg C	sec/qt	120 @ 33	122 @ 33				
PV @ Deg C	cP	60 @ 49	57 @ 49				
YP	lbs/100 ft2	23	29				
GELS	lbs/100 ft2	10/22/25	10/22/25				
600/300		143.0/83.0	143.0/86.0				
200/100		60.0/37.0	61.0/39.0				
6/3		10.0/7.0	11.0/8.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.10	3.10				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	226,952	226,952				
Excess Lime	ppb						
Elec Stability	volt	224	236				
LGS/HGS	% by vol	2.9/13.0	2.9/13.0				
LGS/HGS	ppb	26.35/191.18	26.35/191.18				
ASG	SG	3.909	3.909				
Additional Properties							
Density at Flow Line	ppg	0.00	11.90				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH.

Added Rheomod-L to active when circulating to minimize Barite slump when Accolade mud backloaded on boats.

Prepare further HW slug for POOH.

Rig Activity

Continue to drill out retainer. Pump HW slug and POOH. Lay out motor, change bit and BHA and RIH. Drill out retainer and circ bottoms up. Pump HW slug and POOH.

Base Oil:		Brine:
Rig	-	802bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	73.700		4.850	68.850	$2,303.17
RHEMOD L	55 gal drum	3		1	2	$2,213.79
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	802			802	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	21.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	339.7	Base		Fluid Dumped	
Pipe Cap	64.6	Drill Water		Transferred	-15.3
Active Pits	188.0	Dewatering		SCE	
Total Hole	1064.1	Sea Water		Evaporation	
Total Circ	592.3	Whole Mud		Trips	
Reserve	72.0	Barite	7.3	Other	
Prev Vol	1330.7	Chemicals	1.3	Total Surface	
Net Change	-6.7	Other		Downhole	
Total Vol	1324.1	Total	8.6	Total Losses	-15.3

Fluid Types	Vol bbl
brine	1685.0
Slops	27.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$4,516.96	Total Daily Cost	$7,016.96
Cumulative Products Cost	$1,895,120.67	Total Cumulative Cost	$2,055,120.67

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Baroid Fluid Services

Report No 065

Daily Drilling Fluid Report

Date 08/22/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Cond. mud & Circ.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SMITH/XR+ST	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity	31.0	m/sec
Jet Impact Force	185.0	lbf
Bit HHSI	0.67	hhp/in2
Press Drop @ Bit	111	psi
Bit Depth	4,490.0	m
ECD @ Csg Shoe	13.39	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	2,453.5
Drill Pipe	3.500	2.250	2,016.2
Drill Collar	4.750	2.250	20.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	50	0	0
gpm|bbl/min	293	6.97	

Total GPM	293	AV, Riser	6.6	Circ Press psi	4000
Total Circ Time	177	AV min DP	26.3	Tot Pres Loss	6571
BU Time , min	111	AV max DC	139.4	Press Drop DP	5801
Total Strokes	8,846	BU Strokes	5,536	Press Drop An	640

Properties		1	Hyd 2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:00	19:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 33	12.00 @ 30				
FV @ Deg C	sec/qt	124 @ 33	128 @ 300				
PV @ Deg C	cP	58 @ 49	58 @ 49				
YP	lbs/100 ft2	27	27				
GELS	lbs/100 ft2	1/22/25	10/22/25				
600/300		143.0/85.0	143.0/85.0				
200/100		61.0/40.0	61.0/40.0				
6/3		11.0/8.0	11.0/8.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	16.0	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10				
THTS	ml		3.10				
CaCl2	ppb	27.44	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	218,506	226,952				
Excess Lime	ppb						
Elec Stability	volt	228	230				
LGS/HGS	% by vol	2.2/13.8	2.1/13.7				
LGS/HGS	ppb	19.97/203.13	19.52/202.20				
ASG	SG	3.981	3.984				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Backloaded 2 drums of RHEOMOD L and 12 sx of TAU-MOD to Vessel Valkyrie.

Added Tau Mod to active to prevent Barite slump when back-loading the SBM mud to the boat.

Added 70 bbl of 11.3 ppg brine, 7 bbls of drill water and BARAKLEAN into pit #4 to increase the volume required to clean the lines.

Displacement of well to brine on following daily report.

Rig Activity

Continue to POOH to 117m. Check 3 1/2" drill pipe. RIH 2777m. Take continuous weight 5-9K. Work and push down cement retainer to 4490m. Circulate bottoms up. Commence displacement program.

Base Oil:		Brine:
Rig	-	732bbl
Battler	-	471bbl
Valkyrie	-	717bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	6.000		1.000	5.000	$4,622.14
Tau Mod	50 lb sack	22		10		$958.60
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	802		70	732	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	9.0
VSM-300	280 280	9.0
VSM-300	280 280	9.0
VSM-300	280 280	9.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	20.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	771.4	Base		Fluid Dumped	
Pipe Cap	170.2	Drill Water		Transferred	
Active Pits	291.0	Dewatering		SCE	
Total Hole	960.9	Sea Water		Evaporation	
Total Circ	1232.6	Whole Mud		Trips	
Reserve	72.9	Barite		Other	
Prev Vol	1348.2	Chemicals	0.7	Total Surface	
Net Change	0.7	Other		Downhole	
Total Vol	1324.8	Total	0.7	Total Losses	

Fluid Types	Vol bbl
Slops	36.0
brine	1762.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$5,580.74	Total Daily Cost	$8,080.74
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,063,201.41

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Baroid Fluid Services

Report No 066

Daily Drilling Fluid Report

Date 08/23/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in	
Make/Type		
Jets		
TFA	sq-in	
Jets Velocity	m/sec	
Jet Impact Force	lbf	
Bit HHSI	hhp/in2	
Press Drop @ Bit	psi	
Bit Depth	m	
ECD @ Csg Shoe	ppg	
ECD @ Bit	ppg	

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		5:00	17:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.30 @ 30	12.30 @ 30		
FV @ Deg C	sec/qt	184 @ 30	184 @ 30		
PV @ Deg C	cP	66 @ 49	66 @ 49		
YP	lbs/100 ft2	28	28		
GELS	lbs/100 ft2	12/26/30	12/26/30		
600/300		160.0/94.0	160.0/94.0		
200/100		67.0/40.0	67.0/40.0		
6/3		11.0/8.0	11.0/8.0		
NAP/Water Ratio		63.4/36.6	63.4/36.6		
HTHP @ Deg C	ml/30 min	5.8 @ 120	5.8 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	15.8	15.8		
NAP/Water	% by Vol	52.0/30.0	52.0/30.0		
Sand	% by vol				
Alkalinity Pom	ml				
AgNO3	ml	2.20	2.20		
THTS	ml	3.30	3.30		
CaCl2	ppb	30.18	30.18		
NaCl(Sol/Insol)	ppb				
WPS	ppm	223,033	223,033		
Excess Lime	ppb				
Elec Stability	volt	273	283		
LGS/HGS	% by vol	0.1/15.7	0.1/15.7		
LGS/HGS	ppb	1.05/230.64	1.05/230.64		
ASG	SG	4.188	4.188		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets				Program			

Fluid Treatments

Fluid Type Brine

Displace well to brine. Pumped 75bbl 11.0ppg Radiagreen Hi-vis, 250bbl 11.0ppg Baraklean brine, 800bbl 11.0ppg brine, 325bbl 11.0ppg Radiagreen Hi-vis brine and displaced string with 175bbl 11.3ppg brine. All mud pumps flushed while pumping Baraklean brine. Flushed all surface lines when Baraklean brine returned to surface. 289bbl of dirty brine was diverted to the slops pit. 50bbl water/SBM was dumped to slops pit from rig floor scalper tank. When brine returns clean at shakers, 457bbl clean brine returns dumped overboard. Backloaded onto the Vessel Valkyrie, 809 bbls of 12.0 ppg good ACCOLADE SBM into Port and Stbd tank #3.

Rig Activity

Continue to displace well to brine and flush surface lines. POOH and layout 3 1/2" drill pipe. Break out BHA and layout same. Make up RTTS BHA and RIH to 200m.
Rec'd 750bbl 11.3ppg brine from Valkyrie.
Environmental Incident: When backloading SBM to the Ocean Valkyrie the transfer hose to the boat split, discharging 21bbl of SBM to the ocean.

	Base Oil:	Brine:
Rig	-	1093bbl
Battler	-	471bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	732	750	389	1,093	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	389.0	Fluid Dumped	-456.7
Pipe Cap		Drill Water	40.0	Transferred	-289.1
Active Pits	62.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	62.0	Whole Mud		Trips	
Reserve	266.0	Barite		Other	
Prev Vol	1762.0	Chemicals		Total Surface	
Net Change	-316.8	Other		Downhole	
Total Vol	1445.2	Total	429.0	Total Losses	-745.8

Fluid Types	Vol bbl
ACCOLADE	484.0
Slops	483.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,065,701.41

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 067

Daily Drilling Fluid Report

Date 08/24/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Make up TCP Guns	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	3.375	in
Make/Type	BAKER/TCP Assembly	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	1,908.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Other	4.500	0.000	632.0
Other	3.375	0.000	1,276.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.4				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	7.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,973	288,973				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.7/-47.1	32.7/-47.1				
LGS/HGS	ppb	297.80/-362.88	297.80/-362.88				
ASG	SG	1.291	1.291				
Additional Properties							

Fluid Treatments

Fluid Type Brine

Clean flowline, shakers and shaker troughs. Backloaded onto the Vessel Battler, 470 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #2 and Stbd tank #1and also backloaded into Port tank #1 230 bbls of Slops (waste mud). Cleaning mixing lines and mud pits. Brine volume dumped due to dead volume in pits when re-cleaning after initial displacement.

Rig Activity

Set RTTS and pressure test wellhead seals. POOH laying out HW drill pipe and drill collars. Rig up and make up TCP guns and RIH.

	Base Oil:	Brine:
Rig	-	1093bbl
Battler	-	471bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,093			1,093	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	573.5	Base		Fluid Dumped	-254.1
Pipe Cap		Drill Water		Transferred	-44.0
Active Pits		Dewatering		SCE	
Total Hole	1030.1	Sea Water		Evaporation	
Total Circ	573.5	Whole Mud		Trips	
Reserve	117.0	Barite		Other	
Prev Vol	1445.2	Chemicals		Total Surface	
Net Change	-298.1	Other		Downhole	
Total Vol	1147.1	Total		Total Losses	-298.1

Fluid Types	Vol bbl
Slops	303.0
ACCOLADE	8.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,068,201.41

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 068

Daily Drilling Fluid Report

Date 08/25/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	3.375	in
Make/Type	BAKER/TCP Assembly	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	3,092.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,172.0
Other	4.500	0.000	644.0
Other	3.375	0.000	1,276.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #6	Pit #6		
Time		2:00	20:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.05 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.4	-14.4		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		7.00 @ 22	7.50 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	288,973	289,470		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	31.2/-45.6	32.6/-47.0		
LGS/HGS	ppb	284.15/-351.33	297.11/-362.56		
ASG	SG	1.333	1.295		

Targets

Program

Additional Properties

Fluid Treatments

Fluid Type Brine

Function test brine filtration system with seawater. Continue to clean mud pits. Filtered 900bbl 11.3ppg brine and cut back with water to 11.0ppg.
Received 774 bbls of 11.3 ppg Brine from Vessel Battler into rig main brine storage tank.
Mixed 260 bbls of filtered brine HEC pill in pit #7.
Volume of unfiltered 11.3 ppg brine in Main rig tank 762 bbls. Volume of Filtered brine 11.0 ppg 484 bbls Pit #3.
Volume of 11.0 ppg unfiltered brine in pit #6, 223 bbls
69 bbls of 11.0 ppg brine in slug pit for LCM pill.

Rig Activity

Continue to make up and RIH TCP guns. RIH with 5 1/2" DP to 4414m. Rig up Schlumberger wire-line and run correlation log. Preesure test cement line, drop ball then pressure up to 2750psi with cement unit. Good indication of guns fire. Well takes 44bbl of brine. Losses 18bbl/hr. Circ bottoms up through choke. Flow check (losses 3bbl/hr). POOH.

Base Oil:	Brine:
Rig -	762bbl
Battler -	-
Valkyrie 742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LIQUI-VIS EP	5 gal pail	170		66	104	$13,084.50
N-VIS	25 lb bag	62		14	48	$2,412.48
caustic soda	25 kg pail	32		2	30	$88.38
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,093	774	1,105	762	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	722.0	Base	1105.0	Fluid Dumped	
Pipe Cap	65.6	Drill Water	95.0	Transferred	-100.0
Active Pits	275.0	Dewatering		SCE	-5.0
Total Hole	977.3	Sea Water		Evaporation	
Total Circ	1062.6	Whole Mud		Trips	
Reserve	793.3	Barite		Other	-179.1
Prev Vol	1147.1	Chemicals	8.7	Total Surface	
Net Change	898.6	Other		Downhole	-26.0
Total Vol	2045.6	Total	1208.7	Total Losses	-310.1

Fluid Types	Vol bbl
Slops	432.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$15,585.36	Total Daily Cost	$18,085.36
Cumulative Products Cost	$1,916,286.77	Total Cumulative Cost	$2,086,286.77

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Baroid Fluid Services

Report No 069

Daily Drilling Fluid Report

Date 08/26/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m)			in Casing m			Circulation/Hydraulics Data			
		OD	ID	Length	OD	Set	MD				
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in				7.000	@	4,647.8	Eff(%)	97	97	99
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM		AV, Riser	Circ Press psi
Bit Depth	m	Riser	19.000	96.0				Total Circ Time		AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg	Open Hole	9.500	0.2				BU Time , min		AV max DC	Press Drop DP
ECD @ Bit	ppg							Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:30	21:10				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.05 @ 22	11.05 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.4				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	7.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,973	288,973				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	31.2/-45.6	31.2/-45.6				
LGS/HGS	ppb	284.15/-351.33	284.15/-351.33				
ASG	SG	1.333	1.333				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

Filtered 450bbl of 11.3ppg brine into pit #4 and cut back with water to 11.0ppg to 495bbl total. Transferred filtered brine from pit #3 to pit #8 and added 57bbl filtered 11.3ppg brine and cut back with water to 11.0ppg to 485bbl total. Filtered remaining 197bbl of 11.3ppg brine from rig storage tank into pit #3 and cut back with water to 11.0ppg to 302bbl total volume. Transferred slops volume from pit #1 to pit #2. Flushed pit #1 with seawater and Baraklean.

Rig Activity

Continue to POOH. POOH and lay out TCP guns. Make up 10 3/4" scraper BHA and RIH.

	Base Oil:	Brine:
Rig	-	57bbl
Battler	-	-
Valkyrie	742bbl	717bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	762		704	58	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	30			30	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	704.0	Fluid Dumped	
Pipe Cap		Drill Water	76.0	Transferred	
Active Pits	265.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	265.0	Whole Mud		Trips	
Reserve	1390.0	Barite		Other	-25.0
Prev Vol	2045.6	Chemicals		Total Surface	
Net Change	726.6	Other		Downhole	-28.4
Total Vol	2772.2	Total	780.0	Total Losses	-53.4

Fluid Types	Vol bbl
Slops	400.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,916,286.77	Total Cumulative Cost	$2,088,786.77
Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 070

Daily Drilling Fluid Report

Date 08/27/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/MX-1
Jets	3x32
TFA	2.356 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,641.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,641.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #8				
Time		5:00	22:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.00 @ 22	11.05 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.7				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	9.50 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,982	294,159				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	29.7/-44.1	30.4/-45.1				
LGS/HGS	ppb	270.49/-339.77	276.96/-347.97				
ASG	SG	1.374	1.375				
Additional Properties							
Sulfite residual	mg/l	0	220				

Fluid Treatments

Fluid Type Brine

Prepared 70bbl 11.0ppg brine using sacks in slug pit for extra unfiltered brine volume and used to mix 75bbl Baraklean brine pill for displacement. Added 46bbl of 11.0ppg filtered brine from pit #3 to active pit #6 to allow sufficient volume for circulating.
Initial displacement: Pumped 75bbl Baraklean pill. Prepared 75bbl, 3% Flo-clean pill in slug pit and pumped. Pumped 75bbl HEC pill from pit #7 then displaced with 917bbl of filtered 11.0ppg brine. Prepared 239bbl inhibited brine in pit #8. Attempt to filter contaminated brine, unable to filter. Dumped unfiltered contaminated brine from displacement of well to filtered brine and then to

Rig Activity

inhibited brine. Displacement to inhibited brine: Pumped 222bbl of inhibited 11.0ppg brine. Prepared further 447bbl of inhibited 11.0ppg brine and pumped 415bbl. Take returns of filtered brine from second displacement to pit #5 and #3. Filter further 160bbl brine from pit #3 to pit #4.
Rec'd 748bbl brine from Ocean Valkyrie. Continue to RIH with scraper BHA. Brush through BOP and riser. Scrape AHC setting depth from 2526m to 2564m. Displace well to filtered brine. Monitor losses, losses at 1.7bbl/hr. POOH to 2273m. Displace well with inhibited brine. Continue to POOH laying out drillpipe.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARACOR 100	55 gal drum	14		6	8	$3,383.28
Calcium chloride 94%	25 kg sack	280		238	42	$3,289.16
FLO-CLEAN MD	55 gal drum	4		2	2	$759.60
ALDACIDE G	5 gal can	41		5	36	$349.50
OXYGON (plant)	6 gal pail		9	2	7	$276.28
caustic soda	25 kg pail	30		6	24	$265.14
BARA-DEFOAM W300	5 gal can	17		2	15	$111.84
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
Amodrill 1235	1500 l drum	2			2	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	58	748	602	204	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	7.0
Trips	17.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	414.8	Base	602.0	Fluid Dumped	
Pipe Cap	91.9	Drill Water	40.0	Transferred	
Active Pits	680.0	Dewatering		SCE	
Total Hole	1044.3	Sea Water		Evaporation	
Total Circ	1186.6	Whole Mud		Trips	
Reserve	847.0	Barite		Other	-819.8
Prev Vol	2772.2	Chemicals	29.1	Total Surface	
Net Change	-200.7	Other		Downhole	-52.0
Total Vol	2571.3	Total	671.1	Total Losses	-871.8

Fluid Types	Vol bbl
Slops	368.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$8,434.80	Total Daily Cost	$10,934.80
Cumulative Products Cost	$1,924,721.57	Total Cumulative Cost	$2,099,721.57

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 071

Daily Drilling Fluid Report

Date 08/28/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		3:00	20:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.05 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.7	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		9.50 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	294,159	292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	30.4/-45.1	32.1/-46.8		
LGS/HGS	ppb	276.96/-347.97	292.85/-360.56		
ASG	SG	1.375	1.321		
Additional Properties					
Sulfite residual	mg/l	220	250		

Targets

Program

Fluid Treatments

Fluid Type Brine

Prepared further 166bbl of 11.0ppg inhibited brine in pit #8. Filled slug pit with 56bbl unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr.

Backloaded 357bbl slops to Ocean Valkyrie, Port tank #2 and Stbd tank #2.

Rig Activity

Continue to POOH laying out drill pipe. Pumped 30bbl unfiltered brine at 1073m (backflow). Continue to POOH laying out DP. Lay out clean out BHA. Make up BHA, well patroller, ball catcher, circ valve and bore protector retrieval tool. RIH to 92.38m and jet at 10bpm. Retrieve bore protector. Pick up and rig up liner handling equipment and prepare to run completion assy.

Base Oil:	Brine:	
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARACOR 100	55 gal drum	8		8		$4,511.04
Radiagreen-EME	55 gal drum	5		2	3	$2,910.00
ALDACIDE G	5 gal can	36		4	32	$279.60
OXYGON (plant)	6 gal pail	7		1	6	$138.14
caustic soda	25 kg pail	24		3	21	$132.57
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	204		145	59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	2.0
VSM-300	280 280	2.0
VSM-300	280 280	2.0
VSM-300	280 280	2.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.5
Trips	22.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	145.0	Fluid Dumped	-51.0
Pipe Cap		Drill Water	14.0	Transferred	
Active Pits	206.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	206.0	Whole Mud		Trips	
Reserve	1297.0	Barite		Other	-25.0
Prev Vol	2571.3	Chemicals	13.9	Total Surface	
Net Change	48.9	Other		Downhole	-48.0
Total Vol	2620.2	Total	172.9	Total Losses	-124.0

Fluid Types	Vol bbl
Slops	11.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$7,971.35	Total Daily Cost	$10,471.35
Cumulative Products Cost	$1,932,692.92	Total Cumulative Cost	$2,110,192.92

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 072

Daily Drilling Fluid Report

Date 08/29/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run completion string	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	812.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	461.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		2:00	21:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	292,547	292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8		
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	250	220		

Targets

Program

Fluid Treatments

Fluid Type Brine

Fill trip tank as required with inhibited brine from pit #8.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to make up and RIH 5 1/2" and 7" completion string.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	5.000		1.000	4.000	$4,622.14
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	215.2	Base		Fluid Dumped	
Pipe Cap	83.1	Drill Water		Transferred	
Active Pits	160.0	Dewatering		SCE	
Total Hole	1087.6	Sea Water		Evaporation	
Total Circ	458.2	Whole Mud		Trips	
Reserve	1334.0	Barite		Other	
Prev Vol	2620.2	Chemicals		Total Surface	
Net Change	-38.6	Other		Downhole	-38.6
Total Vol	2581.6	Total		Total Losses	-38.6

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$4,622.14	Total Daily Cost	$7,122.14
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,117,315.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 073

Daily Drilling Fluid Report

Date 08/30/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run Completion String	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #8	Pit #8				
Time		4:00	21:30				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.6	-14.6				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		10.00 @ 22	10.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	292,547	292,547				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8				
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56				
ASG	SG	1.321	1.321				
Additional Properties							
Sulfite residual	mg/l	220	220				

Fluid Treatments

Fluid Type Brine

Continue to fill trip tank from pit #8 if required.
Returns from casing displacement to pit #8.
Clean mud pits #1 and #2.

Backloaded 3 drums Radiagreen EME and SBM Mud Samples on Ocean Valkyrie (FM 044).

	Base Oil:	Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to run 7" tubing and completion assembly.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,119,815.06

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16	4	

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	202.0	Dewatering		SCE	
Total Hole	1034.7	Sea Water		Evaporation	
Total Circ	919.7	Whole Mud		Trips	
Reserve	1297.0	Barite		Other	
Prev Vol	2581.6	Chemicals		Total Surface	
Net Change	-48.0	Other		Downhole	-48.0
Total Vol	2533.7	Total		Total Losses	-48.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 074

Daily Drilling Fluid Report

Date 08/31/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run completion	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #8	Pit #8				
Time		3:30	22:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.6	-14.6				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		10.00 @ 22	10.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	292,547	292,547				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8				
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56				
ASG	SG	1.321	1.321				
Additional Properties							
Sulfite residual	mg/l	220	220				

Fluid Treatments

Fluid Type Brine

Continue to clean pit #2. Fill trip tank as required from inhibited brine in pit #8.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to run completion and testing assembly. Install flow head and pressure test. Hold JSA. Rig up Expro slickline and run as per program.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,122,315.06

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	145.0	Dewatering		SCE	
Total Hole	1034.7	Sea Water		Evaporation	
Total Circ	862.7	Whole Mud		Trips	
Reserve	1300.0	Barite		Other	-17.0
Prev Vol	2533.7	Chemicals		Total Surface	
Net Change	-54.0	Other		Downhole	-37.0
Total Vol	2479.7	Total		Total Losses	-54.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 075

Daily Drilling Fluid Report

Date 09/01/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pressure Test Packers	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #8	Pit #8				
Time		3:30	19:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.6	-14.6				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		10.00 @ 22	10.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l		292,547				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8				
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56				
ASG	SG	1.321	1.321				
Additional Properties							
Sulfite residual	mg/l	220	220				

Fluid Treatments

Fluid Type Brine

Fill trip tank as required with inhibited brine from pit #8.

Displace competion string to diesel. Returns taken to pit #5.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to make up well testing equipment. Run plugs. Displace tubing to diesel. Attempt ot pressure test to packer - no success. Communication between annulus and tubing. Bleed of annulus, line up down tubing and repeat packer setting sequence. Line up on annular and attempt to test top packer - no success. Pressure up tubing and sttempt to reset packer.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	114.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	831.7	Whole Mud		Trips	
Reserve	1538.0	Barite		Other	-15.0
Prev Vol	2479.7	Chemicals		Total Surface	
Net Change	214.5	Other	270.0	Downhole	-40.5
Total Vol	2694.2	Total	270.0	Total Losses	-55.5

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,124,815.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 076

Daily Drilling Fluid Report

Date 09/02/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Retrieve completion string	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #8	Pit #5				
Time		3:00	19:30				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.05 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.6	-14.3				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		10.00 @ 22	9.50 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	292,547	288,004				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.1/-46.8	31.3/-45.6				
LGS/HGS	ppb	292.85/-360.56	285.50/-351.96				
ASG	SG	1.321	1.325				
Additional Properties							
Sulfite residual	mg/l	220	200				

Fluid Treatments

Fluid Type Brine

Transfer inhibited brine from pit #8 to cement unit for pressure testing as required. Rec'd approx. 660bbl of 11.3ppg brine from Ocean Battler.

Bullheaded diesel from production tubing into formation at 5bpm with 223bbl of inhibited brine from pit #8 and pit #5.

Brine:

Rig 776bbl (unfiltered in mud pits)

Battler -

Valkyrie -

Rig Activity

Continue to attempt to pressure test packer - no success. Attempt to reverse circulate diesel out of tubing through Expro choke. Bullhead diesel from tubing to formation by pumping inhibited brine. Hold pressure on tubing. Bled off pressures - no test on packer. Monitor well while dicussed and developed forward plan with town. Hold PJSM. Expro prepare tools and re-terminate rope. RIH with slickline to set protection sleeve.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59	660	660	59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base	660.0	Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	45.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	762.7	Whole Mud		Trips	
Reserve	2044.0	Barite		Other	-223.0
Prev Vol	2694.2	Chemicals		Total Surface	
Net Change	437.0	Other		Downhole	
Total Vol	3131.2	Total	660.0	Total Losses	-223.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,127,315.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 077

Daily Drilling Fluid Report

Date 09/03/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Retrieve Completion String	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		2:00	23:59		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.05 @ 22	11.00 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.3	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		9.50 @ 22	9.50 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	288,292	282,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	31.3/-45.6	30.7/-44.6		
LGS/HGS	ppb	285.10/-351.77	279.42/-343.98		
ASG	SG	1.327	1.321		
Additional Properties					
Sulfite residual	mg/l	200	200		

Targets

Program

Fluid Treatments

Fluid Type Brine

Transfer brine from pit #5 to cement unit as required for pumping/pressure testing operations. Circulated well with 11.0ppg brine to kill well. 333bbl of brine dumped.

Brine:

Rig	776bbl (unfiltered in mud pits)
Battler	-
Valkyrie	-

Rig Activity

Continue slickline operations to attempt to retrieve packers. Displace well to brine to kill well. Flow check well. Commence rigging down well test equipment. Rig up slick-line and RIH and set plug at 2552m. POOH with plug running tool. Check tool for confirmation plug set.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	20.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	-333.0
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	111.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	828.7	Whole Mud		Trips	
Reserve	1645.0	Barite		Other	
Prev Vol	3131.2	Chemicals		Total Surface	
Net Change	-333.0	Other		Downhole	
Total Vol	2798.2	Total		Total Losses	-333.0

Fluid Types **Vol bbl**

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,129,815.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 078

Daily Drilling Fluid Report

Date 09/04/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity: RIH with XT 57 DP from Derreck to top of tubing hanger	
Operator: NEXUS ENERGY	Report For: Sean DeFreitas/Stefan Schmidt	Well Name: Longtom - 4	
Contractor: Seadrill	Report For: Clinton Franklin	Rig Name: West Triton	Unit System: Nexus Energy
Country: Australia	State/Province/Region: Victoria	Geographic Area/County: Bass Strait	Field or Block: VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		3:20	21:27				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.00 @ 22	11.00 @ 20				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-13.9	-13.9				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	282,547	282,543				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	30.7/-44.6	30.7/-44.6				
LGS/HGS	ppb	279.42/-343.98	279.42/-343.98				
ASG	SG	1.321	1.321				
Additional Properties							
Sulfite residual	mg/l	200	0				

Fluid Treatments

Fluid Type Brine

Continue to pump brine to cement unit as required for pressure testing operations.

Rig Activity

Preesure test plug to confirm set. Rig down well testing equipment. Remove chiksan lines & hydraulics from flow head. Make up Schlumberger wire line, rig up cement line, and pressure test. Install stuffing box assembly and RIH with chemical cutter. Fire guns andPOOH with chemical cutter to surface. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	5.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	142.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	859.7	Whole Mud		Trips	
Reserve	1614.0	Barite		Other	
Prev Vol	2798.2	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2798.2	Total		Total Losses	

Fluid Types	Vol bbl
Seawater	623.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,132,315.06

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 079

Daily Drilling Fluid Report

Date 09/05/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Lay out TRSSV assembly	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	4,297.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #5				
Time		21:00	3:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	10.80 @ 31	10.80 @ 33				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-13.9	-13.9				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	282,357	282,365				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	24.7/-38.6	24.7/-38.6				
LGS/HGS	ppb	225.08/-297.91	225.07/-297.90				
ASG	SG	1.491	1.491				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

Added 35 Sx of CaCl to make an additional 57 bbls and weight up brine in pit 2 from 10.7+ to 11.0 ppg.

Rig Activity

RIH & landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, Had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well.
Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke.Broke off 1 stand of DP and installed TIW Continued to pick up string 23m total stripping through annular while pumping @ 1.3 bpm & 300 psi, pressure remained constant.Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Calcium chloride 94%	25 kg sack	42		35	7	$483.70
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	9.5
Trips	9.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	18.5
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	413.0	Base		Fluid Dumped	
Pipe Cap	551.6	Drill Water		Transferred	
Active Pits	332.0	Dewatering		SCE	
Total Hole	964.6	Sea Water		Evaporation	
Total Circ	1296.6	Whole Mud		Trips	
Reserve	1261.0	Barite		Other	-243.0
Prev Vol	2798.2	Chemicals	2.5	Total Surface	
Net Change	-240.5	Other		Downhole	
Total Vol	2557.6	Total	2.5	Total Losses	-243.0

Fluid Types	Vol bbl
Seawater	315.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$483.70	Total Daily Cost	$2,983.70
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,135,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 080

Daily Drilling Fluid Report

Date 09/06/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Make up Cameron test tool	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	4,297.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #6	Pit #6		
Time		22:30	4:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 23	10.90 @ 23		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-13.9	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	282,354	282,354		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	27.7/-41.6	27.7/-41.6		
LGS/HGS	ppb	252.39/-321.01	252.39/-321.01		
ASG	SG	1.405	1.405		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Transffered Volume from pit # 7 into pits # 1, 2, & 3.

Rig Activity

Flushed pits 4, 7 and 8 with see water. Washed clean in preparation for completion brine. POOH 7" completion tubing F 2378m to surface. Made up Cameron test tool.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	413.0	Base		Fluid Dumped	
Pipe Cap	551.6	Drill Water		Transferred	
Active Pits	332.0	Dewatering		SCE	
Total Hole	964.6	Sea Water		Evaporation	
Total Circ	1296.6	Whole Mud		Trips	
Reserve	1199.0	Barite		Other	-62.0
Prev Vol	2557.6	Chemicals		Total Surface	
Net Change	-62.0	Other		Downhole	
Total Vol	2495.6	Total		Total Losses	-62.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,137,798.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 081

Daily Drilling Fluid Report

Date 09/07/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH 7" completion tubing.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #3	Pit #8		
Time		11:30	22:40		
Depth	m	0	0		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90	10.90		
FV @ Deg C	sec/qt	27			
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	4.8		
NAP/Water	% by Vol	-/86.0	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,100		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	-0.9/5.6	-0.8/5.6		
LGS/HGS	ppb	-7.83/43.39	-7.71/43.33		
ASG	SG	2.128	2.129		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Received 660bbls of CaCl2 completion brine (at 10.9ppg) from the Pacific Battler. Filtered 660 bbls of 10.9 ppg completion brine to 14 NTU. 387 bbls of completion brine is in pit # 7 and 249 bbls is in pit# 8. 24 bbls of completion brine used to prime the pit lines.

Rig Activity

Continued to RIH with ws test tool on 5.5" drill Pipe. Flushed lines, tested both tool and BOP and POOH. Laid down 12 joints. Rig up Schlumberger wire line equipment, gauge ring, bore protector and RIH. POOH and pressure test. Made up TIW v/v to water bushings, changed elevators and RIH with 7" tubing F 369m to 965m,

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	12.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	1.5
Logging	5.5
Dir Work	
Repair	
Other	4.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud	660.0	Trips	
Reserve	1498.0	Barite		Other	-199.8
Prev Vol	2495.6	Chemicals		Total Surface	
Net Change	460.2	Other		Downhole	
Total Vol	2955.8	Total	660.0	Total Losses	-199.8

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,140,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 082

Daily Drilling Fluid Report

Date 09/09/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH 7" Completion Tubing	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #8				
Time		4:20	22:45				
Depth	m	0	0				
FL Temp	Deg C						
Density @ Deg C	ppg	10.90 @ 22	10.90 @ 22				
FV @ Deg C	sec/qt	21	20				
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol		4.8				
NAP/Water	% by Vol	86.0/-	-/86.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	232,200	232,200				
Tot. Hardness	mg/l	130,000	130,000				
LGS/HGS	% by Vol		-0.9/5.6				
LGS/HGS	ppb		-7.83/43.39				
ASG	SG		2.128				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

No Treatments today. Brine 16 NTU's according to Scotch Tech Filtration personal.

Rig Activity

Used 26 bbls for Halliburton Cementers pressure testing. RIH 7" tubing F 965m to 2576m, tagged PBR with seal assembly to confirm space out. POOH to pick up SSSV at 2321m. Pick and made up SSSV and terminate and test control lines, no initial test change out 2 x needle valves. Continued to RIH with 7" tubing F 2321 to 2472m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	19.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud		Trips	
Reserve	1472.0	Barite		Other	-26.0
Prev Vol	2955.8	Chemicals		Total Surface	
Net Change	-26.0	Other		Downhole	
Total Vol	2929.8	Total		Total Losses	-26.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,142,798.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 083

Daily Drilling Fluid Report

Date 09/09/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Shut in well and monitor pressure	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:00	21:45				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	10.90 @ 21	10.90 @ 20				
FV @ Deg C	sec/qt	26	26 @ 20				
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	4.8	-10.7				
NAP/Water	% by Vol	-/86.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	232,200	232,200				
Tot. Hardness	mg/l	130,000					
LGS/HGS	% by Vol	-0.9/5.6	35.4/-46.1				
LGS/HGS	ppb	-7.83/43.39	322.39/-355.58				
ASG	SG	2.128	0.882				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

CRW24100 received at $563.88 / drum (this is a placeholder price only - to be revised).
Transfered 26 bbls of filtered completion brine to Halliburton Cementing unit. Monitored fluid levels in pits.

Rig Activity

Pick and make up tubing hanger- Terminate TR SSV control lines through TH and pressure test control lines to 4000 psi/ 5 min. Baker installed and test quest E-Line connection through TH to 7500 psi perform pre-submergence check. Install spilt bushing into rotary table & land out TH & table. Laid down THHTT. Picked up & made up MTHRT to TH & perform final checks prior to running. Up WT 192 K, down WT 174K. Run landing string & completion F 2477m to 2570.77m Take up & down weight 5m above SST. Up weight 194K, down WT 175K. ROV open CSM & test rotary valves + PMV, XOV, AAV, AMW. Land TH with 30 K down. TH

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum			5	5	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	1.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	22.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud		Trips	
Reserve	1465.0	Barite		Other	-7.0
Prev Vol	2929.8	Chemicals		Total Surface	
Net Change	-7.0	Other		Downhole	
Total Vol	2922.8	Total		Total Losses	-7.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,145,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
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Baroid Fluid Services

Report No 084

Daily Drilling Fluid Report

Date 09/10/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH with 4.562" retieval tool.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	DBS/OE	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	4,648.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		4:20	19:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20		
FV @ Deg C	sec/qt	26 @ 20	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-10.7	-10.7		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	35.4/-46.1	35.4/-46.1		
LGS/HGS	ppb	322.39/-355.58	322.39/-355.58		
ASG	SG	0.882	0.882		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Stock correction - zeroed out Base Oil and Stored Brine figures. The storage tanks were cleaned out some time ago and recovered fluid was returned to town with slops. Used 4X crw 24100 inhibitor (double concentration) in filtered brine in Pit # 8.

Rig Activity

Made up 4.5" GS pulling tool. Pressure test lubricator to 4000psi and RIH and open sliding sleeve at 2476m. POOH with shifting tool left tool in lubricator and close swab valve. Close annular and line up to Circulate down choke line, taking returns through Expro choke and down to the downwind flare boom. Returns will be discharged and vented via the flare boom. Lined up and circulated 300 bbls of 10.9 filtered, inhibited brine down tubing string with cementing unit and took returns back to pits. Removed lubricator and laid out sliding sleeve tool. Pressure test tag above XX plug I 5000 psi to 5 minutes. Bled off pressure I 500 psi close SSSL and bled off

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300		10.300	0.000	$3,873.07
CRW-24001	55 gal drum	5		4	1	$2,255.52
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59		59	0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	4.0
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	14.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	658.2	Base		Fluid Dumped	
Pipe Cap	260.2	Drill Water		Transferred	
Active Pits	345.0	Dewatering		SCE	
Total Hole	918.3	Sea Water		Evaporation	
Total Circ	1263.3	Whole Mud		Trips	-3.0
Reserve	1299.0	Barite		Other	-43.7
Prev Vol	2922.8	Chemicals	5.2	Total Surface	-319.0
Net Change	-360.5	Other		Downhole	
Total Vol	2562.3	Total	5.2	Total Losses	-365.7

Fluid Types	Vol bbl
Seawater	405.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$6,128.59	Total Daily Cost	$8,628.59
Cumulative Products Cost	$1,943,927.35	Total Cumulative Cost	$2,153,927.35

Baroid Representatives	Brian Auckram	Kosta Georgiou	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 085

Daily Drilling Fluid Report

Date 09/11/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pressure testing to 4000 psi.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:25	22:43				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20				
FV @ Deg C	sec/qt	26 @ 20	26 @ 20				
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	4.8	4.8				
NAP/Water	% by Vol	-/86.0	-/86.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	232,200	232,200				
Tot. Hardness	mg/l	130,000	130,000				
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6				
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39				
ASG	SG	2.128	2.128				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

No treatments today. Retort results for Pits # 1, 2 and 5 were less than 1% Diesel. Reported to results to Rocco Company Man.

Rig Activity

Continue to RIH with $.562" Plug retrieval tool. Break off lubricator and laid down Retrieval tool, made GS tool and pressure test to 4000 psi for 5 minutes. Then latch plug at 2450m and POOH to surface. Break off Lubricator, laid down 4.562" plug, changed out tool to 3.813" shifting tool, installed lubricator and pressure tested to 4000psi / 5 minutes. Pumped 205 bbls of Diesel, Expro RIH with shifting tool and retrieved sliding sleeve at 2467m and POOH.RIH and tested Expro tool at 2457m. Continued to POOH with RX running tool, break lubricator and made up G5 pulling tool and tested. Setpacker with 5500 psi and bled off pressure. Rig up to test packer,

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	357.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	357.0	Whole Mud	410.4	Trips	
Reserve	1491.0	Barite		Other	
Prev Vol	2562.3	Chemicals		Total Surface	
Net Change	410.4	Other		Downhole	
Total Vol	2972.8	Total	410.4	Total Losses	

Fluid Types	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,943,927.35	Total Cumulative Cost	$2,156,427.35

Baroid Representatives	Kosta Georgiou	Gerald Lange	
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Baroid Fluid Services

Report No 086

Daily Drilling Fluid Report

Date 09/12/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Flow the Well and Flaring	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		3:00	22:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20		
FV @ Deg C	sec/qt	26 @ 20	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	4.8		
NAP/Water	% by Vol	-/86.0	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6		
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39		
ASG	SG	2.128	2.128		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets	Program

Fluid Treatments

Fluid Type Brine

Charged for 2 bulk containers of BARAKLEAN NL plus used for pit, tank, shakers and rig cleaning. Transfered brine from pits # 1, 2 and 5 into pit # 3 and Contaminated Brine into Pit # 1 for flaring.

Rig Activity

RIH with Slick line and confirmed 2473m depth. POOH, break off and change out tools. Test Lubricator to 4000 psi RIH with Expro tool latch plug and remove. POOH to surface. Installed otis cap and test to 4000 psi and prepare to flow well. Perform ESD function test. Commence to flow well.Maintained pressure between 200 - 400 psi to trip tank through choke as required.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	4.000		2.000	2.000	$9,244.28
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud	4.0	Trips	
Reserve	1852.0	Barite		Other	
Prev Vol	2972.8	Chemicals		Total Surface	
Net Change	4.0	Other		Downhole	
Total Vol	2976.8	Total	4.0	Total Losses	

Fluid Types	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$9,244.28	Total Daily Cost	$11,744.28
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,168,171.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 087

Daily Drilling Fluid Report

Date 09/13/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pumped 20 bbls of Glycol Down Hole	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:00	22:40				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20				
FV @ Deg C	sec/qt	26 @ 20	26 @ 20				
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	4.8	4.8				
NAP/Water	% by Vol	-/86.0	-/86.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	232,200	232,200				
Tot. Hardness	mg/l	130,000	130,000				
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6				
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39				
ASG	SG	2.128	2.128				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

Transfer of 150 bbls of brine into pit 1 and Dilute with 270 bbls of sea water and dump. The process is being continued until brine is empty of pits.

Rig Activity

Flowed well between 200-400 psi Bled off annulus pressure to zero, shut well wait on pressure build up. Closed SSSV, Bled off pressure to zero. Flushing the lines and pumping 20 bbls of Glycol down hole.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.1
Total	2.1
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve	1852.0	Barite		Other	
Prev Vol	2976.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2976.8	Total		Total Losses	

Fluid Types	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,170,671.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 088

Daily Drilling Fluid Report

Date 09/14/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7			
Time		2:20			
Depth	m	4,648			
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20			
FV @ Deg C	sec/qt	26 @ 20			
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8			
NAP/Water	% by Vol	-/86.0			
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200			
Tot. Hardness	mg/l	130,000			
LGS/HGS	% by Vol	-0.9/5.6			
LGS/HGS	ppb	-7.83/43.39			
ASG	SG	2.128			
Additional Properties					
Sulfite residual	mg/l	0			

Targets

Program

Fluid Treatments

Fluid Type Brine

Continued to dilute 1/3 Brine to 2/3 Sea Water and Dumped. Whilst dumping Continued to add Sea Water to further dilute brine. Also used the same process to dump the trip and sand traps.

Rig Activity

Pumped contaminated brine to flare 67 bbls and 20 bbls of filtered brine from Halliburton cementers and burned off. Rig up slick line and flushed flare boom. RIH and set tubing hanger, test failed twice before 4000 psi. Conducted SSSV test and test passed above 3400 psi. Flushed all lines. continued to rig down and back load.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	-1852.0
Prev Vol	2976.8	Chemicals		Total Surface	
Net Change	-1852.0	Other		Downhole	
Total Vol	1124.8	Total		Total Losses	-1852.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,173,171.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 089

Daily Drilling Fluid Report

Date 09/15/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

Back Loaded, 36 Pails LIQUI-VIS in Container (030), 36 Pails LIQUI-VIS in Container (032) and 48 Sx N-VIS in Container (032.

Received, 36 Sx of BARAZAN D PLUS, 40 Sx Guar Gum and 40 Sx OF Soda Ash. Will charge off these chemicals when we reach Bazzard-1 location. Continued to Clean Pits 1 thought to 8 including sand and slug pits.

Rig Activity

Flushed landing string. Laid down side entry assembly and changed out elevators, RIH to 92m and reverse circulate 50 bbls at 5 minutes. POOH with setting assembly. Change out elevators, and reset ITC running tool, test and POOH. Continued to rig down.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types — **Vol bbl**

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,175,671.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 090

Daily Drilling Fluid Report

Date 09/16/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

3 sx of Salt used at the end of testing the well.

Rig Activity

Rig Down.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
salt	50 lb bag	10		3	7	$100.50
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types — Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$100.50	Total Daily Cost	$2,600.50
Cumulative Products Cost	$1,953,272.13	Total Cumulative Cost	$2,178,272.13

Baroid Representatives	Kosta Georgiou	Gerald Lange	
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Baroid Fluid Services

Report No 091

Daily Drilling Fluid Report

Date 09/17/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Continue to Rig Down.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

Returned to Corio Quay for Nexus credit 72 pails of LIQUI-VIS EP and 48 sx of N-VIS.

Credit well for 2 x 1054 lt BARAKLEAN NS Plus not used, to be returned to Corio Quay.

Prepare Well Sight for Stuart Petroleum, Bazzard 1 well.
clean and Maintain pits, sand traps, pump room, repaire valves in pump room.

Rig Activity

Continue to rig down, prepare for move to new location. Stuart Petroleum, Bazzard-1 well.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			32	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types — **Vol bbl**

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,944,027.85	Total Cumulative Cost	$2,171,527.85

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 092

Daily Drilling Fluid Report

Date 09/18/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Moving rig to Bazzard-1 location	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in				7.000	@	4,647.8	Eff(%)	97	97	99
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM	AV, Riser	Circ Press psi	
Bit Depth 4,648.0	m	Riser	19.000	96.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	ppg	Open Hole	9.500	0.2				BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	ppg							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program	Fluid Treatments
Source								Fluid Type Brine
Time								
Depth	m							
FL Temp	Deg C							
Density @ Deg C	ppg							
FV @ Deg C	sec/qt							
PV @ Deg C	cP							
YP	lbs/100 ft2							
GELS	lbs/100 ft2							
600/300								
200/100								
6/3								
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol							
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Rig Activity

End of Nexus Energy Project, moving Seadrill rig West Triton to Stuart Petroleum Bazzard-1 Location.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32				
Amodrill 1235	1500 l drum	2				
BARA-DEFOAM W300	5 gal can	15				
BARAKLEAN PLUS	1054 l bulk	4.000				
BARAZAN D PLUS	25 kg bag	42				
barite	1000 kg bulk	68.850			0.000	
BAROFIBRE FINE	25 lb bag	50				
bentonite	1000 kg bulk	45.000			0.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7				
calcium chloride flake 77%	25 kg bag	14				
caustic soda	25 kg pail	21				
Circal 60/16	25 kg sack	201				
Circal Y	25 kg sack	259				
citric acid	25 kg bag	21				
CLAYSEAL PLUS	216 kg drum	1				
CRW-24001	55 gal drum	1				
EZ SPOT	55 gal drum	8				
EZ-MUD	25 kg pail	13				
FLO-CLEAN MD	55 gal drum	2				
guar gum	25 kg bag	9				
Kwikseal Fine	40 lb bag	38				
lime	25 kg bag	4				
LIQUI-VIS EP	5 gal pail	32				
N-DRIL HT PLUS	50 lb bag	15				
NO BLOK C	55 gal drum	4				

Solids Control Equipment			
Shaker	Screens	Hrs	
VSM-300			
VSM-300			
VSM-300			
VSM-300			
Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		
Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time	
Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine					
Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types	Vol bbl

Deviation Information		
Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,944,027.85	Total Cumulative Cost	$2,174,027.85

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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30"/24" CASING RUNNING TALLY

Australian Drilling Associates Pty Ltd ADA

Well :	**Longtom-4**	**Date :**	**21-Jun-08**	**Rig :**	**West Triton**
Grade :	**X52**	**Conn. :**	**Lynx**	**RKB - Seabed**	**97.03m**
Weight :	**310 lb/ft**	**Stick up on ML:**	**1.93m**	**Shoe:**	**128.8m**

Run No	Joint No	Length meter	Total Length, meter	Top Connection. Depth, meter	Comments
					TD 36" Hole 132.8m.
				128.80	Shoe set at 128.8m.
1	Shoe	11.51	11.51	117.29	Lynx conn.
2	Intermediate	11.51	23.02	105.78	Lynx conn.
3	Wellhead	10.68	33.70	95.10	Lynx conn.
R/Tool				95.10	
Drill Pipe				95.10	
DP Pup				95.10	

Nexus Longtom-4

16" Casing Tally

Casing:	16	in	Connection:	BTC	
Weight:	75.0	lb/ft	Vam M/U loss:		m
Grade:	NT80DE		BTC M/U loss:	0.122	m
Burst:	3,830	psi	Min MU torque:	-	ftlbs
Collapse:	1,015	psi	Opt MU torque:	7,528	ftlbs
Yield:	1,687	klbs	Max MU torque:	-	ftlbs
Wall Thick.:	0.438	in			
Nominal ID:	15.124	in			
Drift ID:	14.936	in	Top 18 3/4" WH:	93.97	m
Csg Cap.:	0.7290	bbl/m	Top 30" WH:	95.10	m
Metal Displ.:	0.0869	bbl/m			

16" BTC Thread Loss: 0.122

" Mic ID = "

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SHOE DEPTH / SETTING DEPTH (BTM)	TOTAL STICKUP / SETTING DEPTH (TOP)	COMMENTS
					750.07		
1	**Float Shoe A**	12.94	12.94	12.94	**750.07**	737.13	2X CENTRALISERS EVENLY SPACED
2	59	12.13	12.01	24.95	737.13	725.12	CENTR on stop collar mid jnt
3	58	12.19	12.07	37.02	725.12	713.05	CENTR on stop collar mid jnt
4	57	12.16	12.04	49.05	713.05	701.02	CENTR on stop collar mid jnt
5	56	12.16	12.04	61.09	701.02	688.98	CENTR on stop collar mid jnt
6	55	12.16	12.04	73.13	688.98	676.94	CENTR on stop collar mid jnt
7	54	12.16	12.04	85.17	676.94	664.90	CENTR on stop collar mid jnt
8	53	12.16	12.04	97.20	664.90	652.87	CENTR on stop collar mid jnt
9	52	12.81	12.69	109.89	652.87	640.18	CENTR on stop collar mid jnt
10	51	12.16	12.04	121.93	640.18	628.14	
11	50	12.16	12.04	133.97	628.14	616.10	
12	49	12.05	11.93	145.90	616.10	604.17	
13	48	11.82	11.70	157.59	604.17	592.48	
14	47	11.81	11.69	169.28	592.48	580.79	
15	46	12.11	11.99	181.27	580.79	568.80	
16	45	11.80	11.68	192.95	568.80	557.12	
17	44	12.18	12.06	205.00	557.12	545.07	
18	43	11.80	11.68	216.68	545.07	533.39	
19	42	12.11	11.99	228.67	533.39	521.40	
20	41	12.17	12.05	240.72	521.40	509.35	
21	40	12.16	12.04	252.76	509.35	497.32	
22	39	12.17	12.05	264.80	497.32	485.27	
23	38	11.82	11.70	276.50	485.27	473.57	
24	37	12.07	11.95	288.45	473.57	461.62	
25	36	12.09	11.97	300.42	461.62	449.65	
26	35	12.02	11.90	312.31	449.65	437.76	
27	34	11.81	11.69	324.00	437.76	426.07	
28	33	12.16	12.04	336.04	426.07	414.03	
29	32	12.16	12.04	348.08	414.03	401.99	
30	31	12.17	12.05	360.12	401.99	389.95	
31	30	12.16	12.04	372.16	389.95	377.91	
32	29	12.04	11.92	384.08	377.91	365.99	
33	28	12.15	12.03	396.11	365.99	353.96	
34	27	12.16	12.04	408.15	353.96	341.92	
35	26	12.17	12.05	420.19	341.92	329.88	
36	25	12.17	12.05	432.24	329.88	317.83	
37	24	12.16	12.04	444.28	317.83	305.79	
38	23	12.17	12.05	456.33	305.79	293.74	
39	22	12.17	12.05	468.37	293.74	281.70	
40	21	11.81	11.69	480.06	281.70	270.01	
41	20	11.81	11.69	491.75	270.01	258.32	
42	19	11.81	11.69	503.44	258.32	246.63	
43	18	12.10	11.98	515.42	246.63	234.65	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
44	17	11.80	11.68	527.09	234.65	222.98	
45	16	12.02	11.90	538.99	222.98	211.08	
46	15	12.16	12.04	551.03	211.08	199.04	
47	14	12.16	12.04	563.07	199.04	187.00	
48	13	12.16	12.04	575.10	187.00	174.97	
49	12	12.16	12.04	587.14	174.97	162.93	
50	11	12.16	12.04	599.18	162.93	150.89	
51	10	12.04	11.92	611.10	150.89	138.97	
52	9	12.16	12.04	623.14	138.97	126.93	
53	8	12.17	12.05	635.18	126.93	114.89	
54	7	12.16	12.04	647.22	114.89	102.85	
55	X Over	2.90	2.78	650.00	102.85	100.07	
56	Wellhead to LOP	4.97	4.97	654.97	100.07	95.10	
	Wellhead Stick UP	1.13	1.13	656.10	95.10	93.97	
	18 3/4" RT Stick Up & dp to surface	93.97	93.97	750.07	93.97	0.00	

JOINTS REMAINING ON LOCATION:

16" CASING ON DECK				JOINT SUMMARY			
No	Joint No	O/A Length	EFF Length	On Site	Ran	Spare	Details
1	**6**		-0.12			0	
2	**5**		-0.12			0	
3	**4**		-0.12			0	
4	**3**		-0.12			0	
5	**2**		-0.12			0	
6	**1**		-0.12			0	
7	**60**		-0.12			0	
8	**61**		-0.12			0	
9	**62**		-0.12			0	
10	**63**		-0.12				
11	**64**		-0.12				
12	**65**		-0.12				
13	**66**		-0.12				
14			-0.12				
15			-0.12				
16			-0.12				
17			-0.12				
18			-0.12				
19			-0.12				
20			-0.12				
21			-0.12				
22			-0.12				
23			-0.12				
24			-0.12				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Nexus Longtom-4

10 3/4" Casing Tally

Casing:	10.75	in	Tenaris Blue M/U loss:	0.128	m
Weight:	55.5	lb/ft	NSCC M/U loss:	0.143	m
Grade:	L80				
Burst:	6,450	psi	Tenaris Blue Min MU TQ:	21,100	ftlbs
Collapse:	4,020	psi	Tenaris Blue Opt MU TQ:	23,500	ftlbs
Yield:	1,276	klbs	Tenaris Blue Max MU TQ:	25,800	ftlbs
Wall Thick.:	0.495	in	NSCC Min MU TQ:	10,200	ftlbs
Nominal ID:	9.76	in	NSCC Opt MU TQ:	11,700	ftlbs
Drift ID:	9.604	in	NSCC Max MU TQ:	13,300	ftlbs
Csg Cap.:	0.3036	bbl/m			
Metal Displ.:	0.0647	bbl/m	Top 18 3/4" WH:	93.97	m
			Top 30" WH:	95.10	m

		SHOE DEPTH	TOTAL STICKUP	
Tenaris Blue Thread Loss:	0.128			
NSCC Q125 Thread Loss:	0.143	2,590.78		" Mic ID Tenaris Blue= 9.789"

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
1	**Float Shoe Joint A**	12.08	12.08	12.08	**2,590.78**	2,578.70	2X CENTRALISERS EVENLY SPACED
2	Inter Jt	11.70	11.57	23.65	2,578.70	2,567.13	CENTER on stop collar mid jnt
3	Float Collar	0.36	0.36	24.01	2,567.13	2,566.77	
4	Float Collar Jt	11.54	11.54	35.55	2,566.77	2,555.23	CENTER on stop collar mid jnt
5	224	11.29	11.16	46.71	2,555.23	2,544.07	CENTER on stop collar mid jnt
6	223	11.75	11.62	58.34	2,544.07	2,532.44	CENTER on stop collar mid jnt
7	222	11.79	11.66	70.00	2,532.44	2,520.78	CENTER on stop collar mid jnt
8	221	11.78	11.65	81.65	2,520.78	2,509.13	CENTER on stop collar mid jnt
9	220	11.79	11.66	93.31	2,509.13	2,497.47	CENTER on stop collar mid jnt
10	219	11.73	11.60	104.91	2,497.47	2,485.87	CENTER on stop collar mid jnt
11	218	11.72	11.59	116.51	2,485.87	2,474.27	CENTER on stop collar mid jnt
12	217	11.73	11.60	128.11	2,474.27	2,462.67	CENTER on stop collar mid jnt
13	216	11.78	11.65	139.76	2,462.67	2,451.02	CENTER on stop collar mid jnt
14	215	11.72	11.59	151.35	2,451.02	2,439.43	CENTER on stop collar mid jnt INSTALL PIP TAG BETWEEN BOX OF JOINT #215 & PIN OF JOINT#214
15	214	11.75	11.62	162.97	2,439.43	2,427.81	CENTER on stop collar mid jnt
16	213	11.70	11.57	174.55	2,427.81	2,416.23	CENTER on stop collar mid jnt
17	212	11.76	11.63	186.18	2,416.23	2,404.60	CENTER on stop collar mid jnt
18	211	11.77	11.64	197.82	2,404.60	2,392.96	CENTER on stop collar mid jnt
19	210	11.76	11.63	209.45	2,392.96	2,381.33	CENTER on stop collar mid jnt
20	209	11.61	11.48	220.93	2,381.33	2,369.85	CENTER on stop collar mid jnt
21	208	11.77	11.64	232.58	2,369.85	2,358.20	CENTER on stop collar mid jnt
22	207	11.73	11.60	244.18	2,358.20	2,346.60	CENTER on stop collar mid jnt
23	206	11.77	11.64	255.82	2,346.60	2,334.96	CENTER on stop collar mid jnt
24	205	11.68	11.55	267.37	2,334.96	2,323.41	CENTER on stop collar mid jnt
25	204	11.77	11.64	279.01	2,323.41	2,311.77	CENTER on stop collar mid jnt
26	203	11.74	11.61	290.63	2,311.77	2,300.15	CENTER on stop collar mid jnt
27	202	11.79	11.66	302.29	2,300.15	2,288.49	CENTER on stop collar mid jnt
28	201	11.76	11.63	313.92	2,288.49	2,276.86	CENTER on stop collar mid jnt
29	200	11.79	11.66	325.58	2,276.86	2,265.20	CENTER on stop collar mid jnt
30	Tenaris Pin x NSCC Box X/O 2	2.20	2.07	327.65	2,265.20	2,263.13	
31	60.7# Q125 Jt 1	12.24	12.10	339.75	2,263.13	2,251.03	CENTER on stop collar mid jnt
32	60.7# Q125 Jt 2	12.15	12.01	351.76	2,251.03	2,239.02	CENTER on stop collar mid jnt
33	60.7# Q125 Jt 3	12.10	11.96	363.72	2,239.02	2,227.07	CENTER on stop collar mid jnt
34	NSCC Pin x Tenaris Box X/O 1	2.20	2.06	365.77	2,227.07	2,225.01	
35	199	11.75	11.62	377.39	2,225.01	2,213.39	CENTER on stop collar mid jnt
36	198	11.74	11.61	389.01	2,213.39	2,201.77	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
37	197	11.78	11.65	400.66	2,201.77	2,190.12	
38	196	11.79	11.66	412.32	2,190.12	2,178.46	
39	195	11.76	11.63	423.95	2,178.46	2,166.83	
40	194	11.77	11.64	435.59	2,166.83	2,155.19	
41	193	11.72	11.59	447.19	2,155.19	2,143.59	
42	192	11.78	11.65	458.84	2,143.59	2,131.94	
43	191	11.78	11.65	470.49	2,131.94	2,120.29	
44	190	11.53	11.40	481.89	2,120.29	2,108.89	
45	189	11.78	11.65	493.54	2,108.89	2,097.24	
46	188	11.68	11.55	505.10	2,097.24	2,085.68	
47	187	11.28	11.15	516.25	2,085.68	2,074.53	
48	186	11.78	11.65	527.90	2,074.53	2,062.88	
49	185	11.70	11.57	539.47	2,062.88	2,051.31	
50	184	11.77	11.64	551.11	2,051.31	2,039.67	
51	183	11.80	11.67	562.79	2,039.67	2,027.99	
52	182	11.73	11.60	574.39	2,027.99	2,016.39	
53	181	11.72	11.59	585.98	2,016.39	2,004.80	
54	180	11.78	11.65	597.63	2,004.80	1,993.15	
55	179	11.75	11.62	609.25	1,993.15	1,981.53	
56	178	11.79	11.66	620.92	1,981.53	1,969.86	
57	177	11.73	11.60	632.52	1,969.86	1,958.26	
58	176	11.75	11.62	644.14	1,958.26	1,946.64	
59	175	11.78	11.65	655.79	1,946.64	1,934.99	
60	174	11.34	11.21	667.00	1,934.99	1,923.78	
61	173	11.73	11.60	678.61	1,923.78	1,912.17	
62	172	11.75	11.62	690.23	1,912.17	1,900.55	
63	171	11.76	11.63	701.86	1,900.55	1,888.92	
64	170	11.76	11.63	713.49	1,888.92	1,877.29	
65	169	11.76	11.63	725.12	1,877.29	1,865.66	
66	168	11.79	11.66	736.79	1,865.66	1,853.99	
67	167	11.76	11.63	748.42	1,853.99	1,842.36	
68	166	11.78	11.65	760.07	1,842.36	1,830.71	
69	165	11.64	11.51	771.58	1,830.71	1,819.20	
70	164	11.72	11.59	783.17	1,819.20	1,807.61	
71	163	11.75	11.62	794.80	1,807.61	1,795.98	
72	162	11.79	11.66	806.46	1,795.98	1,784.32	
73	161	11.79	11.66	818.12	1,784.32	1,772.66	
74	160	11.76	11.63	829.75	1,772.66	1,761.03	
75	159	11.66	11.53	841.28	1,761.03	1,749.50	
76	158	11.73	11.60	852.89	1,749.50	1,737.89	
77	157	11.75	11.62	864.51	1,737.89	1,726.27	
78	156	11.76	11.63	876.14	1,726.27	1,714.64	
79	155	11.75	11.62	887.76	1,714.64	1,703.02	
80	154	11.76	11.63	899.39	1,703.02	1,691.39	
81	153	11.75	11.62	911.02	1,691.39	1,679.76	
82	152	11.78	11.65	922.67	1,679.76	1,668.11	
83	151	11.80	11.67	934.34	1,668.11	1,656.44	
84	150	11.77	11.64	945.98	1,656.44	1,644.80	
85	149	11.76	11.63	957.61	1,644.80	1,633.17	
86	148	11.78	11.65	969.27	1,633.17	1,621.51	
87	147	11.78	11.65	980.92	1,621.51	1,609.86	
88	146	11.78	11.65	992.57	1,609.86	1,598.21	
89	145	11.74	11.61	1,004.18	1,598.21	1,586.60	
90	144	11.78	11.65	1,015.83	1,586.60	1,574.95	
91	143	11.73	11.60	1,027.44	1,574.95	1,563.34	
92	142	11.79	11.66	1,039.10	1,563.34	1,551.68	
93	141	11.79	11.66	1,050.76	1,551.68	1,540.02	
94	140	11.74	11.61	1,062.37	1,540.02	1,528.41	
95	139	11.73	11.60	1,073.97	1,528.41	1,516.81	
96	138	11.77	11.64	1,085.62	1,516.81	1,505.16	
97	137	11.77	11.64	1,097.26	1,505.16	1,493.52	
98	136	11.77	11.64	1,108.90	1,493.52	1,481.88	
99	135	11.79	11.66	1,120.56	1,481.88	1,470.22	
100	134	11.74	11.61	1,132.17	1,470.22	1,458.61	
101	133	11.70	11.57	1,143.75	1,458.61	1,447.03	
102	132	11.77	11.64	1,155.39	1,447.03	1,435.39	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
103	131	11.77	11.64	1,167.03	1,435.39	1,423.75	
104	130	11.55	11.42	1,178.45	1,423.75	1,412.33	
105	129	11.77	11.64	1,190.09	1,412.33	1,400.69	
106	128	11.68	11.55	1,201.65	1,400.69	1,389.13	
107	127	11.76	11.63	1,213.28	1,389.13	1,377.50	
108	126	11.73	11.60	1,224.88	1,377.50	1,365.90	
109	125	11.78	11.65	1,236.53	1,365.90	1,354.25	
110	124	11.72	11.59	1,248.12	1,354.25	1,342.66	
111	123	11.79	11.66	1,259.79	1,342.66	1,330.99	
112	122	11.75	11.62	1,271.41	1,330.99	1,319.37	
113	121	11.75	11.62	1,283.03	1,319.37	1,307.75	
114	120	11.76	11.63	1,294.66	1,307.75	1,296.12	
115	119	11.76	11.63	1,306.29	1,296.12	1,284.49	
116	118	11.76	11.63	1,317.93	1,284.49	1,272.85	
117	117	11.78	11.65	1,329.58	1,272.85	1,261.20	
118	116	11.76	11.63	1,341.21	1,261.20	1,249.57	
119	115	11.75	11.62	1,352.83	1,249.57	1,237.95	
120	114	11.76	11.63	1,364.46	1,237.95	1,226.32	
121	113	11.74	11.61	1,376.08	1,226.32	1,214.70	
122	112	11.79	11.66	1,387.74	1,214.70	1,203.04	
123	111	11.69	11.56	1,399.30	1,203.04	1,191.48	
124	110	11.80	11.67	1,410.97	1,191.48	1,179.81	
125	109	11.69	11.56	1,422.53	1,179.81	1,168.25	
126	108	11.76	11.63	1,434.17	1,168.25	1,156.61	
127	107	11.75	11.62	1,445.79	1,156.61	1,144.99	
128	106	11.78	11.65	1,457.44	1,144.99	1,133.34	
129	105	11.79	11.66	1,469.10	1,133.34	1,121.68	
130	104	11.75	11.62	1,480.72	1,121.68	1,110.06	
131	103	11.76	11.63	1,492.36	1,110.06	1,098.42	
132	102	11.77	11.64	1,504.00	1,098.42	1,086.78	
133	101	11.74	11.61	1,515.61	1,086.78	1,075.17	
134	100	11.77	11.64	1,527.25	1,075.17	1,063.53	
135	99	11.75	11.62	1,538.87	1,063.53	1,051.91	
136	98	11.75	11.62	1,550.50	1,051.91	1,040.28	
137	97	11.75	11.62	1,562.12	1,040.28	1,028.66	
138	96	11.78	11.65	1,573.77	1,028.66	1,017.01	
139	95	11.75	11.62	1,585.39	1,017.01	1,005.39	
140	94	11.71	11.58	1,596.97	1,005.39	993.81	
141	93	11.74	11.61	1,608.59	993.81	982.19	
142	92	11.64	11.51	1,620.10	982.19	970.68	
143	91	11.74	11.61	1,631.71	970.68	959.07	
144	90	11.75	11.62	1,643.33	959.07	947.45	
145	89	11.74	11.61	1,654.94	947.45	935.84	
146	88	11.52	11.39	1,666.34	935.84	924.44	
147	87	11.75	11.62	1,677.96	924.44	912.82	
148	86	11.74	11.61	1,689.57	912.82	901.21	
149	85	11.75	11.62	1,701.19	901.21	889.59	
150	84	11.76	11.63	1,712.82	889.59	877.96	
151	83	11.74	11.61	1,724.44	877.96	866.34	
152	82	11.76	11.63	1,736.07	866.34	854.71	
153	81	11.75	11.62	1,747.69	854.71	843.09	
154	80	11.76	11.63	1,759.32	843.09	831.46	
155	79	11.74	11.61	1,770.93	831.46	819.85	
156	78	11.78	11.65	1,782.59	819.85	808.19	
157	77	11.74	11.61	1,794.20	808.19	796.58	
158	76	11.80	11.67	1,805.87	796.58	784.91	
159	75	11.74	11.61	1,817.48	784.91	773.30	
160	74	11.74	11.61	1,829.09	773.30	761.69	
161	73	11.74	11.61	1,840.71	761.69	750.07	
162	72	11.74	11.61	1,852.32	750.07	738.46	
163	71	11.77	11.64	1,863.96	738.46	726.82	
164	70	11.77	11.64	1,875.60	726.82	715.18	
165	69	11.78	11.65	1,887.25	715.18	703.53	
166	68	11.75	11.62	1,898.88	703.53	691.90	
167	67	11.78	11.65	1,910.53	691.90	680.25	
168	66	11.78	11.65	1,922.18	680.25	668.60	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
169	65	11.77	11.64	1,933.82	668.60	656.96	
170	64	11.73	11.60	1,945.42	656.96	645.36	
171	63	11.77	11.64	1,957.07	645.36	633.71	
172	62	11.73	11.60	1,968.67	633.71	622.11	
173	61	11.47	11.34	1,980.01	622.11	610.77	
174	60	11.75	11.62	1,991.63	610.77	599.15	
175	59	11.75	11.62	2,003.25	599.15	587.53	
176	58	11.54	11.41	2,014.67	587.53	576.11	
177	57	11.76	11.63	2,026.30	576.11	564.48	
178	56	11.71	11.58	2,037.88	564.48	552.90	
179	55	11.77	11.64	2,049.52	552.90	541.26	
180	54	11.76	11.63	2,061.15	541.26	529.63	
181	53	11.78	11.65	2,072.81	529.63	517.97	
182	52	11.81	11.68	2,084.49	517.97	506.29	
183	51	11.76	11.63	2,096.12	506.29	494.66	
184	50	11.73	11.60	2,107.72	494.66	483.06	
185	49	11.76	11.63	2,119.35	483.06	471.43	
186	48	11.75	11.62	2,130.98	471.43	459.80	
187	47	11.79	11.66	2,142.64	459.80	448.14	
188	46	11.70	11.57	2,154.21	448.14	436.57	
189	45	11.74	11.61	2,165.82	436.57	424.96	
190	44	11.72	11.59	2,177.41	424.96	413.37	
191	43	11.75	11.62	2,189.04	413.37	401.74	
192	42	11.75	11.62	2,200.66	401.74	390.12	
193	41	11.73	11.60	2,212.26	390.12	378.52	
194	40	11.76	11.63	2,223.89	378.52	366.89	
195	39	11.78	11.65	2,235.54	366.89	355.24	
196	38	11.74	11.61	2,247.16	355.24	343.62	
197	37	11.75	11.62	2,258.78	343.62	332.00	
198	36	11.72	11.59	2,270.37	332.00	320.41	
199	35	11.75	11.62	2,281.99	320.41	308.79	
200	34	11.78	11.65	2,293.64	308.79	297.14	
201	33	11.79	11.66	2,305.31	297.14	285.47	
202	32	11.77	11.64	2,316.95	285.47	273.83	
203	31	11.75	11.62	2,328.57	273.83	262.21	
204	30	11.77	11.64	2,340.21	262.21	250.57	
205	29	11.78	11.65	2,351.86	250.57	238.92	
206	28	11.72	11.59	2,363.46	238.92	227.32	
207	27	11.20	11.07	2,374.53	227.32	216.25	
208	26	11.75	11.62	2,386.15	216.25	204.63	
209	25	11.78	11.65	2,397.80	204.63	192.98	
210	24	11.76	11.63	2,409.43	192.98	181.35	
211	23	11.72	11.59	2,421.03	181.35	169.75	
212	22	11.76	11.63	2,432.66	169.75	158.12	
213	21	11.77	11.64	2,444.30	158.12	146.48	
214	20	11.74	11.61	2,455.91	146.48	134.87	
215	19	11.74	11.61	2,467.52	134.87	123.26	
216	18	11.71	11.58	2,479.11	123.26	111.67	
217	17	11.39	11.26	2,490.37	111.67	100.41	
	10 3/4" Csg Hgr below land off point	5.35	5.22	2,495.59	100.41	95.19	
	10 3/4" Csg Hgr above land off point	0.57	0.57	2,496.16	95.19	94.62	**Casing hanger LOP = 1.22m below top of 18 3/4" WH = 95.19m**
	Csg Hgr running tool stick up	1.41	1.41	2,497.57	94.62	93.21	
	X/O	1.20	1.20	2,498.77	93.21	92.01	
	Dbl HWDP above R/tool	18.80	18.80	2,517.57	92.01	73.21	
	1 Std HWDP	28.18	28.18	2,545.75	73.21	45.03	
	2 Std HWDP	28.21	28.21	2,573.96	45.03	16.82	
	Sgl HWDP from deck	9.40	9.40	2,583.36	16.82	7.42	
	Cmt stand down	7.42	7.42	2,590.78	7.42	0.00	**1.98m Stick Up**

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS

JOINTS REMAINING ON LOCATION:

10 3/4" CASING ON DECK				JOINT SUMMARY			
No	Joint No	O/A Length	EFF Length	On Site	Ran	Spare	Details
1	No number	N/A					Rec'd onboard damaged
2	16	11.71	11.58				
3	15	11.73	11.60				
4	14	11.05	10.92				
5	13	11.77	11.64				
6	12	11.79	11.66				
7	11	11.78	11.65				
8	10	11.77	11.64				
9	9	11.74	11.61				
10	8	11.72	11.59				
11	7	11.75	11.62				
12	6	11.78	11.65				
13	5	11.76	11.63				
14	4	11.77	11.64				
15	3	11.75	11.62				
16	2	11.75	11.62				
17	1	11.74	11.61				
18	Bakerlocked X/O A	12.20	12.07				
19	Bakerlocked X/O B	12.21	12.08				
20	Bakerlocked X/O C	12.17	12.04				
21	Tenaris Box x NSCC Pin X/O 3	2.00	1.87				
22	Tenaris Pin x NSCC Box X/O 4	2.00	1.87				
23	Q125 4	12.200	12.07				
24	Q125 5	12.210	12.08				
25	Q125 6	12.170	12.03				
26			-0.14				
27			-0.14				
28			-0.14				
29			-0.14				
30			-0.14				
31			-0.14				

ADA
Level 5, Rialto North Tower
525 Collins Street
Melbourne Vic, 3000

Longtom-4
Cementing Operations
Post Job Report

Prepared for Carl MacDonald / Mark Nasarczyk
Tuesday, October 07, 2008

Submitted by Dave Webb
Halliburton Australia Pty Ltd
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Tuesday, 7 October 2008

Carl MacDonand / Mark Nasarczyk
ADA
Level 5, Rialto north Tower
525 Collins St
Melbourne, VIC, 3000

Tommy,

Re: Longtom 4 Cement jobs

Included for your review is a copy of the Post Job Report of the Longtom 4 cementing operations. The PJR includes the programs, job logs, and lab reports.

I trust this PJR meets the requirements of ADA and with insight and reflection provides sufficient detail for future reference.

Yours sincerely,

Dave Webb
Associate Technical Professional

cc
Prem kumar Salibendla
Technical Professional

Allan Hatfield
Cementing Service Coordinator

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1.0 Summary of operations

The Longtom 4 well was cemented using a 30in casing, 16in casing. 10 3/4in casing and a 7in Liner. The 30 in casing was cemented on the 21of June 2008 followed by the 16in casing on the 25 of June 2008. The 10 ¾in casing was cemented on 16thth of July 2008. A Kick off Plug was cemented on the 31st of july 2008 and the 7in Liner was cemented on 17th of August 2008. Please see Job logs for more details.

1.1 Lessons Learnt

During pumping of the spacer prior to performing the cement job there was an unexpected pressure spike that resembled an SSR top plug shearing. The situation was assessed and a decision was taken to pump the casing volume in an attempt to land the suspected sheared SSR top plug. Upon the casing capacity being pumped a bump pressure was evident, as a result the job was suspended. Upon rigging down and checking the SSR cement head it was found that indeed the dart was missing, confirming the SSR top plug had sheared

See tap root CPI # 300113953for details

The 10 3/4in As result of above issue an NCR has been created on Halliburton, changes in the initial program for each well showing all the cement heads on the rig and their dimensional limits, so this can be looked in to in initial planning stage to stopped this from ever happening again.

The jobs was performed in a safe manner and executed according to the plan then after

2.0 Cement Program

The following program covers the cementation of 30in, 16in and 10 3/4in casings and a 7in liner program on longtom-4 well. 7in liner cementing is only contingency needs to be finalised TOC and liner lap hence this liner program will be covered in separate program.

Revision History

Draft 1	5th June 2008	Initial programs
Draft 2	13th June 2008	Changed Slurry design for 30in and 16in Casing

2.1 30in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	130m	BHST temperature:	25°C
True vertical depth:	130m	BHCT temperature:	21°C
Depth to top cement:	99m	Drilling mud type:	Seawater + Sweeps
		Drilling mud density:	8.55ppg

WELLBORE

Casing/Tubing (Inner string job)

0-130m	5 1/2in 21.9ppf Tubing
0-130m	30in 309.7ppf Casing (X52)

Annulus

0-99m	RKB-ML
99-130m	36in open hole (200% excess)

SPACERS

Spacer #1 - 80.0bbl Seawater at 8.54ppg

Seawater	42.00 gal/bbl	(21m OH annular fill / 10min contact time)
		Estimated Pv: 1cP

Spacer #2 - 20.0bbl Seawater + Dye at 8.54ppg

Seawater	41.95 gal/bbl	(5m OH annular fill / 3min contact time)
Fluorescein Dye	0.50 lb/bbl	Estimated Pv: 1cP

Contact times are based on the displacement rate.

CEMENT

Composition		**Properties**	
Adelaide Brighton Class G		Surface density:	15.90 ppg
Calcium Chloride 1%	2.00 %BWOC	Surface yield:	1.18 ft³/sk
Seawater	5.20 gal/sk	Total mixing fluid:	5.28 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	2:30
		Comp strength at 24°C	50 psi in 3 hrs
		Comp strength at 24°C	500 psi in 6 hrs
		Comp strength at 24°C	2,000 psi in 24 hrs

Note that %BWOC are based on a 94 lb sack

VOLUME CALCULATIONS

Cement

30in Casing / 36in hole volume	31 m x 1.2620 bbl/m	39.1 bbl
30in Casing / 36in hole excess	2.00 x 39.1 bbl	78.2 bbl
	Total slurry volume =117.4 bbl	
Quantity of cement	117.4 bbl x 5.6146 / 1.18 ft³/sk	558 sks
Quantity of mix fluid	558 sks x 5.28 gal/sk	70.2 bbl

Displacement

5 1/2in Tubing volume	130 m x 0.0728 bbl/m	9.5 bbl
	Total displacement volume =9.5 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	14.3	8.0	2
Pump spacers:	100.0	8.0	13
Release ball/bottom plug:	N/A	N/A	5
Mix & pump cement:	117.4	5.0	23
Release dart/top plug:	N/A	N/A	5
Pump displacement:	9.5	8.0	1

Total job time (including circulation):	***79 min***	***1hr 19min***
Minimum cement thickening time (with 2hr safety factor):	***149 min***	***2hr 29min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Seawater

Seawater	80 bbl

Spacer #2 - Seawater + Dye

Seawater	20 bbl
Fluorescein Dye	10 lb

Cement

Adelaide Brighton Class G	24 MT(563 ft³)
Calcium Chloride 1%	1,049 lbs
Seawater	69.1 bbl
NF-6	2 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.1.1 30in Casing Job Procedure

1) Run casing, install false rotary and run innerstring
2) Stab in to float shoe and establish circulation
3) Pressure test lines by pumping 10bbls of SW
4) Pump 70bbls of seawater
5) Pump 20bbls of dye coloured seawater
6) Mix and pump 117.5bbls of 15.9ppg cement slurry
7) Displace with 10bbls of seawater
8) Bleed off and check floats
9) Unsting from float shoe and circulate drill pipe clean. Drop a wiper ball to aid in cleaning

2.2 16in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	750m	BHST temperature:	50°C
True vertical depth:	750m	BHCT temperature:	34°C
Depth to top lead:	99m	Drilling mud type:	WBM
Depth to top tail:	550m	Drilling mud density:	8.70ppg

WELLBORE

Casing/Tubing (Inner string job)

0-750m	5 1/2in 21.9ppf Tubing (VTOP)
0-750m	16in 75ppf Casing (NT 80 De BTC)

Annulus

0-130m	30in 309.7ppf casing (28in ID)
130-750m	22in open hole (50% excess)

SPACERS

Spacer - 100.0bbl Seawater at 8.54ppg

Seawater	42.00 gal/bbl	(92m OH annular fill / 13min contact time) Estimated Pv: 1cP

Contact times are based on the displacement rate.

LEAD CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	12.50 ppg
Econolite Liquid	15.00 gal/10bblMF	Surface yield:	2.19 ft³/sk
Seawater	12.41 gal/sk	Total mixing fluid:	12.88 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	5:00
		Comp strength at 34°C:	500 psi in 24 hrs

TAIL CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.90 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.14 ft³/sk
Freshwater	4.96 gal/sk	Total mixing fluid:	5.00 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	3:00
		Comp strength at 45°C	50 psi in 4 hrs
		Comp strength at 45°C	500 psi in 6 hrs
		Comp strength at 45°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Lead Cement

16in Casing / 30in casing volume	31 m x 1.6827 bbl/m	52.2 bbl
16in Casing / 22in hole volume	420 m x 0.7266 bbl/m	305.2 bbl
16in Casing / 22in hole excess	0.50 x 305.2 bbl	152.6 bbl
	Total lead slurry volume =509.9 bbl	

Quantity of lead cement	509.9 bbl x 5.6146 / 2.19 ft³/sk	1307 sacks
Quantity of lead mix fluid	1307 sacks x 12.88 gal/sk	400.8 bbl

Tail Cement

16in Casing / 22in hole volume	200 m x 0.7266 bbl/m	145.3 bbl
16in Casing / 22in hole excess	0.50 x 145.3 bbl	72.7 bbl
	Total tail slurry volume =218.0 bbl	

Quantity of tail cement	218.0 bbl x 5.6146 / 1.14 ft³/sk	1074 sks
Quantity of tail mix fluid	1074 sks x 5.00 gal/sk	127.9 bbl

Displacement

5 1/2in Tubing volume	750 m x 0.0728 bbl/m	54.6 bbl
	Total displacement volume =54.6 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	81.9	8.0	10
Pump spacers:	100.0	8.0	13
Release ball/bottom plug:	N/A	N/A	5
Mix & pump lead cement:	509.9	5.0	102
Mix & pump tail cement:	218.0	5.0	44
Release dart/top plug:	N/A	N/A	5
Pump displacement:	54.6	8.0	7

Total job time (including circulation):	***216 min***	***3hr 36min***
Minimum lead cement thickening time (with 2hr safety factor):	***278 min***	***4hr 38min***
Minimum tail cement thickening time (with 2hr safety factor):	***176 min***	***2hr 56min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer - Seawater

Seawater	100 bbl

Lead Cement

Adelaide Brighton Class G	56 MT(1,313 ft³)
Econolite Liquid	601 gals
Seawater	386.2 bbl
NF-6	11 gals

Tail Cement

Adelaide Brighton Class G	46 MT(1,079 ft³)
CFR-3L	38 gals
Freshwater	126.9 bbl
NF-6	4 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.2.1 16in Casing Job Procedure

1) Rig up surface lines, Innerstring cementing pump in sub
2) Close PCA (The innerstring will not be stabbed in)???
3) Establish circulation
4) Pressure test lines to maximum job pressure
5) Pump 100bls seawater
6) Pump 510bbls of lead cement
7) Pump 218bbls of tail cement
8) Drop a foam wiper ball
9) Displace with 54.5bbls of well fluid (If using a foam ball do not overdisplace and force ball into valve)
10) Open PCA???
11) Forward circulate drill pipe clean

2.2.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

12) Load appropriate amount of freshwater in a clean pit
13) Add Tuned spacer E+ Blend and agitate
14) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
15) Add Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
16) Add surfactants slowly when casing is near bottom. Agitate very slowly to alleviate foaming
17) Check density with mud balance, ~13.5ppg.

2.3 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

1. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

2. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
3. During the casing/liner run add the additives below in the following order.
   a) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
   b) Friction Reducers – **CFR-3L**.
   c) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

4. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
   a) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
   b) Weighting Materials – **Micromax**.

5. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
   a) Retarders – **HR-6L / HR-25L / SCR-100L**.
   b) Expansive Additives - **MicroBond**.

6. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.4 10 ¾ Summary

The following program covers the cementation of 10 3/4in casings

Revision History

Revision 1	24th June 2008	Changed Cement from HTB to Class G
Revision 2	14th July 2008	Changed to inner string job
Revision 3	15th July 2008	changed work string

2.5 10 3/4in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	2,591m	BHST temperature:	93°C
True vertical depth:	2,344m	BHCT temperature:	62°C
Depth to top cement:	1,900m	Drilling mud type:	Accolade
		Drilling mud density:	12.00ppg

WELLBORE

Casing/Tubing (Inner string job)

0-2,470m	5 1/2in 21.9ppf Tubing
2,470-2,500m	2 7/8in 6.5ppf Tubing
0-2,591m	10 3/4in 55.5ppf Casing (L80 Tenaris Blue)

Annulus

0-750m	16in 75ppf casing (15.124in ID)
750-2,591m	13.5in open hole (30% excess)

SPACERS

Spacer #1 - 20.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(72m OH annular fill / 3min contact time)
		Estimated Pv: 1cP

Spacer #2 - 30.0bbl Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	(109m OH annular fill / 4min contact time)
Tuned Spacer E+	13.80 lb/bbl	Estimated Pv: 30cP
Barite	274.56 lb/bbl	Estimated Yp: 26lbs/100ft²
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Contact times are based on the displacement rate.

CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.80 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
Halad -413L	15.00 gal/10bblMF	Total mixing fluid:	5.14 gal/sk
SCR-100L	2.00 gal/10bblMF	Thickening time (70 Bc):	4:00
Freshwater	4.89 gal/sk	Free water vert at 62°C:	Trace %
NF-6	0.25 gal/10bblMF	Fluid loss at 62°C:	<100 cc/30min
		Comp strength at 83°C	50 psi in 5 hrs
		Comp strength at 83°C	500 psi in 6 hrs
		Comp strength at 83°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

10 3/4in Casing / 13.5in hole volume	691 m x 0.2125 bbl/m	146.8 bbl
10 3/4in Casing / 13.5in hole excess	0.30 x 146.8 bbl	44.0 bbl
Shoe track volume	31 m x 0.3036 bbl/m	9.4 bbl
	Total slurry volume =	***200.3 bbl***
Quantity of cement	200.3 bbl x 5.6146 / 1.16 ft³/sk	969 sks
Quantity of mix fluid	969 sks x 5.14 gal/sk	118.6 bbl

Displacement

5 1/2in Tubing volume	2,470 m x 0.0728 bbl/m	179.7 bbl
2 7/8in Tubing volume	30 m x 0.0190 bbl/m	0.6 bbl
10 3/4in Casing volume	60 m x 0.3036 bbl/m	18.2 bbl
	Total displacement volume =	***198.4 bbl***

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)	
Make up lines & pressure test:	N/A	N/A	30	
Circulate 1.5 x Casing volume:	311.7	8.0	39	
Pump spacers:	50.0	8.0	6	
Mix & pump cement:	200.3	5.0	40	
Pump displacement:	198.4	8.0	25	
Total job time (including circulation):			***140 min***	***2hr 20min***
Minimum cement thickening time (with 2hr safety factor):			***185 min***	***3hr 05min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater

Freshwater	20 bbl

Spacer #2 - Tuned Spacer E+

Freshwater	22.7 bbl
Tuned Spacer E+	414 lb
Barite	8,237 lb
Musol E	30 gal
Sem-7	21 gal

Cement

Adelaide Brighton Class G	41 MT(962 ft³)
CFR-3L	36 gals
Halad -413L	178 gals
SCR-100L	24 gals
Freshwater	112.9 bbl
NF-6	3 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.5.1 10 3/4in Casing Job Procedure

18) Run 10 ¾”casing to TD
19) Establish circulation by pumping 10bbl Fresh water
20) Test lines to 3000psi
21) Pump 10bbls freshwater
22) Pump 30bbls Tuned spacer @ 13.5ppg
23) Mix and pump 200bbls of single 15.8ppg slurry
24) Drop a Drill pipe wiper ball
25) Pump 10bbl of fresh water
26) Displace with 188.5 of mud.
27) **Slow pump rate down to 1bbl/min** for final 10bbls.
28) End job

2.5.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

29) Load appropriate amount of freshwater in a clean pit
30) Add 414lbs of Tuned spacer E+ Blend and agitate
31) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
32) Add 8237lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
33) Add 30gals of Musol E and 21gals of SEM-7 surfactants slowly Agitate very slowly to alleviate foaming
34) Check density with mud balance, ~13.5ppg.

2.6 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

7. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

8. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
9. During the casing/liner run add the additives below in the following order.
    d) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    e) Friction Reducers – **CFR-3L**.
    f) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

10. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    c) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    d) Weighting Materials – **Micromax**.

11. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    c) Retarders – **HR-6L / HR-25L / SCR-100L**.
    d) Expansive Additives - **MicroBond**.

12. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.7 Kick Off Plug

The following program covers the cementation of 9.5inch OH KOP with 10% excess. This plug will extend from 2740m -2565m with a plug length of 175m; slurry will be mixed at 16.5 with class G cement. This plug will be placed on a CST.

Revision History

Revision 1	3rd July 2008	Revision 1 created
Revision 2	4th July 2008	Program outline added
Revision 3	21st July 2008	10 ¾" casing MD changed to 2590m, Plug length 145m
Revision 4	25th July 2008	Changed to single plug on a CST
Revision 5	29th July 2008	Volume changed to 55bbl
Revision 6	29th July 208	Changed 2 7/8in weight and length.

2.8 KOP Job Details - 9.5in hole

JOB PARAMETERS			
Plug bottom MD:	2,740m	BHST temperature:	104°C
Plug bottom TVD:	2,432m	BHCT temperature:	85°C
Plug top MD:	2,565m	Drilling mud type:	WBM
Plug length:	175m	Drilling mud density:	12.00ppg
Plug length with DP in:	181m		

WELLBORE

Workstring

0-2,580m	5 1/2in 24.7ppf tubing
2,580-2,740m	2 7/8in 6.5ppf tubing

Annulus

0-2,590m	10 3/4in 55.5ppf casing (9.76in ID)
2,590-2,740m	9.5in open hole (10% excess)

SPACERS

Spacer #1 - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	10.0bbl ahead and 3.4bbl behind to balance (31m annular fill / 2min contact time)

Spacer #2 - Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	15.0bbl ahead and 5bbl behind to balance (47m annular fill / 3min contact time)
Tuned Spacer E+	13.80 lb/bbl	
Barite	274.56 lb/bbl	
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	16.50 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.06 ft³/sk
SCR-100L	4.00 gal/10bblMF	Total mixing fluid:	4.37 gal/sk
Freshwater	4.30 gal/sk	Thickening time (70 Bc):	4:00
NF-6	0.125 gal/10bblMF	Comp strength at 97°C	50 psi in 4 hrs
		Comp strength at 97°C	500 psi in 6 hrs
		Comp strength at 97°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

10 3/4in casing volume	15 m x 0.3036 bbl/m	4.6 bbl
10 3/4in casing volume	10 m x 0.3036 bbl/m	3.0 bbl
9.5in hole volume	150 m x 0.2876 bbl/m	43.1 bbl
9.5in hole excess	0.10 x 43.1 bbl	4.3 bbl
	Slurry volume =55.1 bbl	
Quantity of cement	55.1 bbl x 5.6146 / 1.06 ft³/sk	292 sacks
Quantity of mix fluid	292 sacks x 4.37 gal/sk	30.4 bbl

Displacement

5 1/2in tubing volume	2,439 m x 0.0695 bbl/m	169.5 bbl
	Total displacement volume =169.5 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)	
Make up lines & pressure test:	N/A	N/A	30	
Circulate 1 x bottoms up:	580.8	6.0	97	
Pump spacers ahead:	25.0	6.0	4	
Mix & pump cement:	55.1	5.0	11	
Drop wiper ball:	N/A	N/A	5	
Pump spacers behind:	8.4	6.0	1	
Pump displacement:	169.5	6.0	28	
Pull workstring 152 m above TOC:	327m	9.1m/min	36	
Circulate workstring clean:	160.0	6.0	27	
	Total job time (including circulation):		***239 min***	***3hr 59min***
	Minimum cement thickening time (with 2hr safety factor):		***228 min***	***3hr 48min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater (Including 10.0 bbl pit loss)

Freshwater	23.4 bbl

Spacer #2 - Tuned Spacer E+ (Including 10.0 bbl pit loss)

Freshwater	22.7 bbl
Tuned Spacer E+	414 lb
Barite	8,245 lb
Musol E	30 gal
Sem-7	21 gal

Cement

Adelaide Brighton Class G	12 MT(281 ft³)
CFR-3L	9 gals
SCR-100L	12 gals
Freshwater	29.9 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.8.1 KOP Job Procedure

NOTE : WHOLE VOLUMES ARE USED FOR SIMPLICITY

35) RIH with work string to 2740m MD
36) Load CST and dart into work string
37) Rig up surface lines, prime and test to 3000psi
38) Displace CST out of work string with 185bbls of well fluid (Slow down to ~1 1/2bpm for final 4bbls), pick up 1m
39) Pump 10bbls Fresh water
40) Pump 15bbls of Tuned spacer E+ at 13.5ppg
41) Mix and pump 55.0bbls of 16.5ppg cement slurry.
42) Pump 5bbls of Tuned spacer
43) Pump 3.5bbls of fresh water to balance the plug
44) Continue to displace with 168.5.0bbls of well fluid

Note: Plug is one barrel under displaced to aid in dry pulling the work string

45) Pick up work string at least one stand above top of cement
46) Reverse circulate 1 1/2 times tubing volumes clean before POOH
47) End job

2.8.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

48) Load 23bbl of freshwater in a clean pit
49) Add 414lbs of Tuned spacer E+ Blend and agitate
50) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
51) Add 8245lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
52) Add 30gals of Musol E and 21gals of SEM-7 surfactants slowly Agitate very slowly to alleviate foaming
53) Check density with mud balance, ~13.5ppg.

2.9 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

13. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

14. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
15. During the casing/liner run add the additives below in the following order.
    g) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    h) Friction Reducers – **CFR-3L**.
    i) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

16. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    e) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    f) Weighting Materials – **Micromax**.

17. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    e) Retarders – **HR-6L / HR-25L / SCR-100L**.
    f) Expansive Additives - **MicroBond**.

18. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.10 Running procedure CST:

NOTE: 2in CST TOOL (slime line CST) 16in Max Operating Diameter and 2in Minimum pipe ID.

Other important notes:

- Do not attempt to place CST too close to fish, rubbish, cut casing stubs or other obstructions in the wellbore. Keep at least 5 to 10 meters from the open-ended stinger to any such object below.
- The CST is not a remedy for well integrity problems, it is not designed to withstand mechanical loads or differential pressures. It is designed to separate fluids. Losses below the placement depth may therefore affect the performance of the tool.

The CST may either be placed:

a) in a separate operation prior to spotting cement (this is safer from a work string drifting / possible tool or dart hang-up point of view).

b) Or pumped directly ahead of the spacer and cement in conjunction with the cement job (this has the benefit of a wiper dart cleaning the pipe ahead of the spacer, thus reducing interface).

2.10.1 Operating procedure:

54) Conduct a pre-job safety meeting.

55) Wash the cement plug setting area thoroughly to break mud gels and mobilize any gelled mud.

56) Wash the CST placement area thoroughly to ensure adequately clean and free of obstructions or debris.

57) With cement stinger at planned setting depth, space out string and prepare the cement stand with pump in sub and necessary components.

58) If the CST is planned pumped directly ahead of the spacer and cement, then circulate and condition the mud at this stage. Follow good cementing practices regarding pipe movement, pump rate and volume. Ensure gas readings are acceptable.

59) Remove the plastic covers in each end of the transport tube, and insert the tube containing the CST into the drill pipe.

NOTE: DO NOT TAKE THE TOOL OUT OF TRANSPORT TUBE! DO NOT TRY TO LOAD THE CST INTO THE DRILLPIPE IN ANY WAYS OTHER THAN DESCRIBED BELOW !

60) Lower the transport tube into the drill pipe until the flange of the transport tube is resting on the shoulder of the tool joint.

61) For use with 6 5/8” drill pipe, or with tool joints with female threads wider than the flange diameter, support the flange with suitable object on top of the tool joint to ease removal of tube after placing the CST.

62) Use a broomstick, pipe or suitable rod to push the CST from the tube and into the drill pipe below the tube. Required length is minimum 1,5 m to extrude the CST from transport tube.

63) Exercise caution not to drop or loose anything into the well !

64) Remove the transport tube from drill pipe tool joint.

65) Load the appropriate size wiper dart into drill pipe behind the CST.

NOTE: Do not use any other dart than the genuine CST wiper dart!

66) If option b) selected, M/U cement stand and prepare for the cement job.

67) Displace the CST to spot at planned depth (if option b) is selected pump spacer and cement now)

68) Maximum pump rate in 5", 5 ½" and larger: Maximum1500 lpm. In 3 ½" drill pipe, or when the CST exits the stinger maximum 500 lpm.

69) As CST is placed POOH adequately to ensure that the tool is not impacted by the work string in the following operations. 5 m is recommended.

70) NOTE: Do not allow work string to contact the CST at any stage after placement ! This may compromise the performance.

71) If option b) was selected, break out cement stand and continue spotting the cement plug.

72) If option a) was selected circulate and condition the mud as per step 4 now. Then proceed with cement job following plug placement best practices.

73) Allow plug to rest without any disturbance until adequately set.

74) Return the transport tube to the nearest Halliburton base.

2.11 Plug Setting Recommendations

1. **Cement Volume: Pumping sufficient volume is one of the biggest causes of plug failures.**
   - *Open hole*: HOC + 50% excess over gauge to account for washouts, (if not calipered).
   - *Cased Hole*: 10 bbls to compensate for mud contamination.

2. **If plug is not being set on a firm base, set a CST or spot a Viscous Reactive Pill (VRP),** the same length as the proposed plug, to act as a base.

3. **Drill pipe and stinger should be drifted for accurate displacement.** Include using a latch-down indicator sub (ball catcher) to achieve accurate displacement.

4. **Wash over the plug interval.** Rotate and reciprocate down over the entire interval at maximum rate, dependent on well conditions.

5. **Minimise any shutdowns to keep the mud in a fluidised condition.** This will help to maximise mud removal efficiency when placing cement.

6. **Use a side-port diverter tool** to direct the flow outwards, minimising intermixing and providing jetting action. DO NOT USE A MULE SHOE WITH NARROW SLOTS.

7. **Plug height should be limited to 500 ft.** The extra time taken to pull slowly out of the plug increases the risk of cementing-in the cementing assembly.

8. **Use 2-7/8" or 3 ½" stinger** on the end of the drill pipe to minimise stripping the plug when POOH. The recommended length is 1.5 x plug length. When in highly deviated or horizontal holes, centralising the stinger will prevent dead areas of mud on the low side of the hole.

9. **Pump minimum of 40 bbls of spacer ahead of the plug** and required volume behind to balance & separate the mud from the cement. It is best to keep the spacer weight almost equal to the cement weight in horizontal holes.

10. **Pump spacer, cement and displacement at maximum possible rates** with the cement unit, however **do not over displace** - slow rate down prior to end of calculated displacement.

11. **Use side entry sub/swivel** or top-drive cement head to enable rotation of the drill pipe whilst pumping cement and displacement - **DO NOT reciprocate.**

12. **POOH slowly (30 - 60 ft/min)** and break connections carefully to avoid stripping plug until 500ft above the cement plug. Avoid any delay's

13. **Do not circulate on top of plug.** Break circulation slowly so as to minimise disturbance of plug. Never reverse circulate when setting an open-hole plug.

14. **Waiting on cement** should be at least the time for the plug to reach 500 psi. or 3000 psi. for a Kick-off plug. Best results have been obtained by a mandatory 24 hr WOC before disturbing the plug.

2.12 7 inch Liner

The following program out lines the cementation of 7in liner on Longtom-4 well, a. Single slurry mixed at 15ppg with ABC HTB cement will be utilised

Revision History

Draft 1	5th June 2008	Initial programs
Draft 2	6th August 2008	Changed liner setting depths.
Revision 1	7th August 2008	Changed cement recipe
Revision 2	8th August 2008	Changed spacer volumes
Revision 3	10th August 2008	Changed 7in weight and setting depth
Revision 4	15th August 2008	Pumping cement through Perforations
Revision 5	16th August 2008	Excess is hanged Zero
Revision 6	16th August 2008	7in Liner Second stage cement job through EZSV

2.13 7in Liner

Second Stage cementing through Perforations with an EZSV

JOB PARAMETERS

Casing measured depth:	2,670m	BHST temperature:	116°C
True vertical depth:	2,394m	BHCT temperature:	77°C
Depth to top cement:	2,570m	Drilling mud type:	ACCOLADE
		Drilling mud density:	12.00ppg

WELLBORE

Casing/Tubing (Inner string job)

0-2,550m	5 1/2in 24.7ppf Tubing (S-135 XT-57)
2,550-2,670m	3 1/2in 15.5ppf Tubing
2,570-2,670m	7in 29ppf Casing (L 80 Hydrill 513)

Annulus

0-2,590m	10 3/4in 55.5ppf casing (9.76in ID)
2,590-2,600m	13.5in open hole (10% excess)
2,600-2,670m	9.5in open hole (10% excess)

SPACERS

Spacer #1 - 30.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(64m OH annular fill / 4min contact time)
		Estimated Pv: 1cP

Spacer #2 - 60.0bbl Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	(128m OH annular fill / 8min contact time)
Tuned Spacer E+	13.80 lb/bbl	Estimated Pv: 30cP
Barite	274.56 lb/bbl	Estimated Yp: 26lbs/100ft²
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Spacer #3 - 10.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(21m OH annular fill / 1min contact time)

Contact times are based on the displacement rate.

CEMENT

Composition		**Properties**	
Adelaide Brighton HTB		Surface density:	15.00 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.27 ft³/sk
Halad -413L	15.00 gal/10bblMF	Total mixing fluid:	5.78 gal/sk
SCR-100L	4.50 gal/10bblMF	Thickening time (70 Bc):	6:30
Gascon	16.00 gal/10bblMF	Free water vert at 77°C:	Trace %
Freshwater	5.24 gal/sk	Fluid loss at 77°C:	<50 cc/30min
NF-6	0.25 gal/10bblMF	Comp strength at 103°C	50 psi in 7 hrs
		Comp strength at 103°C	500 psi in 8 hrs

Comp strength at 103°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

7in Casing / 10 3/4in casing volume	20 m x 0.1474 bbl/m	2.9 bbl
7in Casing / 13.5in hole volume	10 m x 0.4247 bbl/m	4.2 bbl
7in Casing / 13.5in hole excess	0.10 x 4.2 bbl	0.4 bbl
7in Casing / 9.5in hole volume	70 m x 0.1315 bbl/m	9.2 bbl
7in Casing / 9.5in hole excess	0.10 x 9.2 bbl	0.9 bbl
	Total slurry volume =17.7 bbl	

Quantity of cement	17.7 bbl x 5.6146 / 1.27 ft³/sk	78 sks
Quantity of mix fluid	78 sks x 5.78 gal/sk	10.7 bbl

Displacement

5 1/2in Tubing volume	2,550 m x 0.0695 bbl/m	177.2 bbl
3 1/2in Tubing volume	120 m x 0.0216 bbl/m	2.6 bbl
	Total displacement volume =179.8 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	269.7	8.0	34
Pump spacers:	100.0	8.0	13
Mix & pump cement:	17.7	5.0	4
Pump displacement:	179.8	8.0	22

Total job time (including circulation):	***103 min***	***1hr 43min***
Minimum cement thickening time (with 2hr safety factor):	***146 min***	***2hr 26min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater

Freshwater	30 bbl

Spacer #2 - Tuned Spacer E+

Freshwater	45.4 bbl
Tuned Spacer E+	828 lb
Barite	16,474 lb
Musol E	60 gal
Sem-7	42 gal

Spacer #3 - Freshwater

Freshwater	10 bbl

Cement

Adelaide Brighton HTB	3 MT(77 ft³)
CFR-3L	3 gals
Halad -413L	16 gals
SCR-100L	5 gals

Gascon	17 gals
Freshwater	9.7 bbl
NF-6	1 gals

2.13.1 7in Liner Option 2 Job Procedure

75) Rig up surface lines

76) Establish circulation by pumping 5bbls of fresh water

77) Pressure test lines to 3000psi

78) Pump 60bbl of base oil

79) Pump 60bbls of 13.5ppg Tuned Spacer E+

80) Pump 10bbls of freshwater

81) Mix and pump 18bbl of single slurry mixed at 15ppg

82) Pump 10bbls of freshwater

83) Displace with ~170bbls and, slow pump rate down for final 10bbls to 2bpm .

84) Prepare for a balanced plug on top of EZSV.

2.13.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

85) Load 45.5bbls of freshwater in a clean pit

86) Add 828lbs of Tuned spacer E+ Blend and agitate

87) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite

88) Add 16474lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)

89) Add 60gals of Musol E, and 42gals of SEM-7 surfactants slowly when casing is near bottom. Agitate very slowly to eliminate foaming

90) Check density with mud balance, ~13.5ppg.

2.14 Plug on top of EZSV in 7in Liner

JOB PARAMETERS

Plug bottom MD:	2,665m	BHST temperature:	116°C
Plug bottom TVD:	2,394m	BHCT temperature:	95°C
Plug top MD:	2,550m	Drilling mud type:	Acolade Mud
Plug length:	115m	Drilling mud density:	12.00ppg
Plug length with DP in:	136m		

WELLBORE

Workstring

0-2,545m	5 1/2in 24.7ppf tubing
2,545-2,665m	3 1/2in 15.5ppf tubing

Annulus

0-2,665m	7in 29ppf casing (6.184in ID)

SPACERS

Spacer - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	20.0bbl ahead and 54.6bbl behind to balance (241m annular fill / 3min contact time)

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		**Properties**	
Adelaide Brighton HTB		Surface density:	15.00 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.27 ft³/sk
SCR-100L	4.50 gal/10bblMF	Total mixing fluid:	5.78 gal/sk
Gascon	16.00 gal/10bblMF	Thickening time (70 Bc):	6:30
Halad -413L	15.00 gal/10bblMF	Comp strength at 109°C	50 psi in 7 hrs
Freshwater	5.24 gal/sk	Comp strength at 109°C	500 psi in 8 hrs
NF-6	0.25 gal/10bblMF	Comp strength at 109°C	1,800 psi in 24 hrs

VOLUME CALCULATIONS

Cement

7in casing volume	115 m x 0.1219 bbl/m	14.0 bbl
		Slurry volume =14.0 bbl
Quantity of cement	14.0 bbl x 5.6146 / 1.27 ft³/sk	62 sacks
Quantity of mix fluid	62 sacks x 5.78 gal/sk	8.5 bbl

Displacement

5 1/2in tubing volume	1,744 m x 0.0695 bbl/m	121.2 bbl
		Total displacement volume =121.2 bbl

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1 x bottoms up:	74.8	6.0	12
Pump spacers ahead:	20.0	6.0	3
Mix & pump cement:	14.0	5.0	3
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	54.6	6.0	9
Pump displacement:	121.2	6.0	20
Pull workstring 20 m above TOC:	135m	9.1m/min	15
Circulate workstring clean:	170.0	6.0	28

Total job time (including circulation):	***125 min***	***2hr 05min***
Minimum cement thickening time (with 2hr safety factor):	***200 min***	***3hr 20min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer - Freshwater (Including 10.0 bbl pit loss)

Freshwater	84.6 bbl

Cement

Adelaide Brighton HTB	3 MT(77 ft³)
CFR-3L	3 gals
SCR-100L	4 gals
Gascon	14 gals
Halad -413L	13 gals
Freshwater	7.7 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.14.1 Job Procedure – Plug

1. Pick up the work string to one meter form EZSV.
2. Rig up surface lines.
3. Establish circulation, Pump 5bbls Fresh water.
4. Test lines 200/2000psi.
5. Pump 15bbls Fresh water.
6. Mix and pump 14bbls of 15ppg cement slurry.
7. Displace with 54.5bbls of fresh water to balance
8. Continue to displace with 120bbls of well fluid to create a balanced plug

* Note: Displacement fluid is 1bbl under to aid in dry POOH.

9. Pick up one stand above top of cement.
10. Reverse circulate 2 times tubing volumes clean before POOH

2.15 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

19. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

20. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
21. During the casing/liner run add the additives below in the following order.
    j) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    k) Friction Reducers – **CFR-3L**.
    l) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

22. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    g) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    h) Weighting Materials – **Micromax**.

23. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    g) Retarders – **HR-6L / HR-25L / SCR-100L**.
    h) Expansive Additives - **MicroBond**.

24. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.16 Plug Setting Recommendations

1. **Cement Volume: Pumping sufficient volume is one of the biggest causes of plug failures.**
   - *Open hole*: HOC + 50% excess over gauge to account for washouts, (if not calipered).
   - *Cased Hole*: 10 bbls to compensate for mud contamination.

2. **If plug is not being set on a firm base, set a CST or spot a Viscous Reactive Pill (VRP),** the same length as the proposed plug, to act as a base.

3. **Drill pipe and stinger should be drifted for accurate displacement.** Include using a latch-down indicator sub (ball catcher) to achieve accurate displacement.

4. **Wash over the plug interval.** Rotate and reciprocate down over the entire interval at maximum rate, dependent on well conditions.

5. **Minimise any shutdowns to keep the mud in a fluidised condition.** This will help to maximise mud removal efficiency when placing cement.

6. **Use a side-port diverter tool** to direct the flow outwards, minimising intermixing and providing jetting action. DO NOT USE A MULE SHOE WITH NARROW SLOTS.

7. **Plug height should be limited to 500 ft.** The extra time taken to pull slowly out of the plug increases the risk of cementing-in the cementing assembly.

8. **Use 2-7/8" or 3 ½" stinger** on the end of the drill pipe to minimise stripping the plug when POOH. The recommended length is 1.5 x plug length. When in highly deviated or horizontal holes, centralising the stinger will prevent dead areas of mud on the low side of the hole.

9. **Pump minimum of 40 bbls of spacer ahead of the plug** and required volume behind to balance & separate the mud from the cement. It is best to keep the spacer weight almost equal to the cement weight in horizontal holes.

10. **Pump spacer, cement and displacement at maximum possible rates** with the cement unit, however **do not over displace** - slow rate down prior to end of calculated displacement.

11. **Use side entry sub/swivel** or top-drive cement head to enable rotation of the drill pipe whilst pumping cement and displacement - **DO NOT reciprocate.**

12. **POOH slowly (30 - 60 ft/min)** and break connections carefully to avoid stripping plug until 500ft above the cement plug. Avoid any delay's

13. **Do not circulate on top of plug.** Break circulation slowly so as to minimise disturbance of plug. Never reverse circulate when setting an open-hole plug.

14. **Waiting on cement** should be at least the time for the plug to reach 500 psi. or 3000 psi. for a Kick-off plug. Best results have been obtained by a mandatory 24 hr WOC before disturbing the plug.

3.0 7” Liner OptiCem Simulation

3.1 Design

3.2 Customer Information

Customer	Australian Drilling Associates
Sales Order	
Job Configuration	Conventional Cement
Well Name	Longtom
Well Number	4
Start Time	Friday, 8 August 2008
County	
State	Victoria
UWI/API	
Country	Australia
H2S Present	Unknown
CO2 Present	Unknown
Customer Representative	Carl MacDonald
Service Representative	Prem kumar Salibendla
Job Name	Longtom-4 7IN Liner Cement job
Injection Path	Casing

3.3 Parameters

Fracture Zone Measured Depth	4648.0	m
Fracture Zone Gradient	0.883	psi/ft
Fracture Zone Density	17.00	lb/gal
Fracture Zone Pressure	7812	psi
Reservoir Measured Depth	4648.0	m
Reservoir Pore Pressure	4779	psi
Reservoir Zone Gradient	0.540	psi/ft
Reservoir Zone Density	10.40	lb/gal
Back Pressure	0	psi
Rate Redesign Safety Factor		psi
Height - Mud Line to Mean Sea Level	55.0	m
Height - Mean Sea Level to Rotary Kelly Bushing	41.6	m
Sea Water Density	8.54	lb/gal
Returns To Surface		
Simulator Volume Increment	10.00	bbl
Entered Standoff	70.00	%
Shoe Track Length	24.0	m
Additional Pressure to Seat Plug	500	psi
Eccentricity Enhanced Calculations	No	
Erodibility Enhanced Calculations	No	
Use Coupling Information	No	

3.4 Wellbore Geometry

MD	Hole Ex.	Hole Dia.	Casing OD	Casing ID	Casing Weight
m	%	in	in	in	lb/ft
2570.0	0.00	9.760	5.500	4.670	24.700
2590.0	0.00	9.760	7.000	6.276	26.000
3970.0	10.00	9.715	7.000	6.276	26.000
4648.0	10.00	9.715	7.000	6.184	29.000

3.5 Pumping Schedule

No.	Description	Density	Rate	Volume	Duration
		lb/gal	bpm	bbl	min
1	Accolade Mud	12.00	6.00	0.00	0.00
2	Base Oil	6.72	6.00	60.00	10.00
3-1	Tuned Spacer E+	13.50	6.00	60.00	10.00
3-2	Shutdown				5.00
4	Fresh water	8.33	5.00	10.00	2.00
5	Cement Slurry	15.00	5.00	303.49	60.70
	Top Plug				
6	Fresh water	8.33	6.00	10.00	1.67
7-1	Completion Brine	11.00	6.00	414.09	69.02
7-2	Completion Brine	11.00	2.00	10.00	5.00
	Total			867.58	163.38

3.6 Fluid Rheology - Generalized Herschel Bulkley

Fluid	Temp.	m	n	Tau0	MuInf	Speed	Dial
	°C			lbf/(100*ft²)	cp	rpm	
Accolade Mud	49	0.50	0.50	6.30	45.73	300	88.00
						200	69.00
						100	46.00
						6	10.00
						3	8.00
						600	133.00
Cement Slurry	25	0.50	0.50	0.91	51.86	300	67.00
						200	46.00
						100	25.00
						6	5.00
						3	2.00
	65	0.50	0.50	0.38	53.56	300	63.00
						200	43.00
						100	23.00
						6	4.00
						3	1.00

3.7 Fluid Rheology - Bingham Plastic

Fluid	Temp.	PV	YP
	°C	cp	lbf/(100*ft²)
Base Oil	25	0.99	1.00
Tuned Spacer E+	21	31.05	26.60
	82	29.70	26.30
Fresh water	25	0.99	0.99

3.8 Fluid Rheology - Newtonian

Fluid	Temp.	Viscosity
	°C	cp
Completion Brine	25	1.00

3.9 Temperature Input

Calculate BHCT Method

Surface	27	°C
Outlet	40	°C
BHCT	99	°C
BHST	128	°C

3.10 Temperature Profile, Temperature Profile 1

Measured Depth	Casing Circulating Temperature	Annulus Circulating Temperature
m	°C	°C
0.0	27	40
4648.0	99	99

3.11 Fracture Gradient/Pore Pressure Profile

Measured Depth	True Vertical Depth	Pore Pressure	Reservoir Gradient	Reservoir Density	Fracture Gradient	Fracture Density	Fracture Pressure
m	m	psi	psi/ft	lb/gal	psi/ft	lb/gal	psi
2590.0	2345.1	4077	0.530	10.20	0.883	17.00	6795
4648.0	2696.2	4779	0.540	10.40	0.883	17.00	7812

3.12 Critical Velocity - Fracture Zone

Stage Description	Critical Rate	Critical Velocity	GHB Effective Reynold's Number
	bpm	ft/s	
Accolade Mud	26.08	9.86	3424.70
Base Oil	4.75	1.80	4516.47
Tuned Spacer E+	19.76	7.47	3846.94
Fresh water	4.24	1.60	4573.72
Cement Slurry	14.25	5.39	3046.51
Fresh water	4.24	1.60	4573.72
Completion Brine	0.00	0.00	9088.61

Based on annular segment at fracture zone MD of 4648.0 m.

3.13 Critical Velocity - Reservoir Zone

Stage Description	Critical Rate	Critical Velocity	GHB Effective Reynold's Number
	bpm	ft/s	
Accolade Mud	26.08	9.86	3424.70
Base Oil	4.75	1.80	4516.47
Tuned Spacer E+	19.76	7.47	3846.94
Fresh water	4.24	1.60	4573.72
Cement Slurry	14.25	5.39	3046.51
Fresh water	4.24	1.60	4573.72
Completion Brine	0.00	0.00	9088.61

Based on annular segment at reservoir zone MD of 4648.0 m.

4.0 Centralizers

4.1 Centralizer Parameters

Entered Standoff Profile
Entered Standoff 70.00 %

4.2 Centralizer Spacing/Standoff Calculations

No.	Centralizer Part Number	Type*	Spcng	MD	Hole Dev.	Hole Az.	Actual SO	Rest. Force	Casing Ten.
			m	m	°	°	%	lbf	lbf
				4648.0			70.00		
				0.0			70.00		

*BS - Bow Spring, R(S) - Rigid Solid, R(PB) - Rigid Positive Bar

5.0 Simulation

5.1 Volume and Pressure Results

Annulus fluid is heavier than casing fluid by 474 psi. Apply appropriate back pressure on casing if floating equipment does not hold properly.

5.2 Pumping Schedule - Modified Rates

No.	Description	Density	Rate	Volume	Duration
		lb/gal	bpm	bbl	min
1	Accolade Mud	12.00	6.00	0.00	0.00
2	Base Oil	6.72	6.00	60.00	10.00
3	Tuned Spacer E+	13.50	6.00	60.00	10.00
					5.00
4	Fresh water	8.33	5.00	10.00	2.00
5	Cement Slurry	15.00	5.00	303.49	60.70
6	Fresh water	8.33	6.00	10.00	1.67
7	Completion Brine	11.00	6.00	414.09	69.02
			2.00	10.00	5.00

If OptiCem-RT will be run during this job, enter this data in the Cement Job window and execute the simulator again.

5.3 Volume and Rate Calculations

Time	Surface Stage In	Surface Stage Out	Liquid Volume In	Total Volume Out	Liquid Rate In	Total Rate Out
min			bbl	bbl	bpm	bpm
0.02	2	1	0.10	0.10	6.00	0.00
15.00	3	1	90.00	90.00	6.00	0.00
25.80	4	1	124.00	124.00	5.00	0.00
39.00	5	1	190.00	190.00	5.00	0.00
59.00	5	1	290.00	299.92	5.00	0.00
79.00	5	1	390.00	408.88	5.00	0.00
88.78	6	1	440.00	458.70	6.00	0.00
100.45	7	1	510.00	512.58	6.00	0.00
117.12	7	1	610.00	610.00	6.00	0.00
133.78	7	1	710.00	710.00	6.00	0.00
150.45	7	1	810.00	810.00	6.00	0.00
161.59	7	1	864.00	864.00	2.00	0.00
163.40	7	1	867.58	867.58	0.00	0.00

5.4 Horsepower, Pressure, Freefall

Time	Liquid Volume In	Pump Output	Surface Pressure In	Surface Pressure Out	ECD @ TD	ECD @ Frac Zone	Free Fall Height
min	bbl	hp	psi	psi	lb/gal	lb/gal	m
0.02	0.10	116.8	780	0	13.07	13.07	0.0
15.00	90.00	202.1	1360	0	13.07	13.07	0.0
25.80	124.00	144.5	1165	0	12.97	12.97	0.0
39.00	190.00	83.8	669	0	12.97	12.97	0.0
59.00	290.00	1.8	0	0	13.10	13.10	142.7
79.00	390.00	1.8	0	0	12.99	12.99	271.7
88.78	440.00	2.2	0	0	12.85	12.85	269.1
100.45	510.00	2.2	0	0	12.80	12.80	37.1
117.12	610.00	107.1	714	0	12.91	12.91	0.0
133.78	710.00	102.6	683	0	12.50	12.50	0.0
150.45	810.00	106.1	707	0	12.52	12.52	0.0
161.59	864.00	31.3	624	0	12.36	12.36	0.0
163.40	867.58	0.0	1137	0	12.00	12.00	0.0

5.5 Gas Flow Potential

Gas Flow Potential	5.71	
at Reservoir Zone Measured Depth	4648.0	m

Based on analysis of the above outlined well conditions, this well is considered to have a MODERATE gas flow problem. Wells in this category fall into flow condition 2.

5.6 Pressure to Break Circulation - Hydrostatic Pressures

Total Depth	5611	psi
Fracture Zone	5611	psi

5.7 Pressure to Break Circulation

Gel Strength	Surface Pressure	Total Depth Additional Pressure	Fracture Zone Additional Pressure
lbf/(100*ft²)	psi	psi	psi
25.00	616		374
50.00	1231		748
75.00	1847		1123
100.00	2462		1497
200.00	4925		2994

5.8 Hook Load

	Time	Volume	Hook Load
	min	bbl	lbf
Static	0.02	0.10	181372
Maximum	61.00	300.00	193816
Minimum	10.00	60.00	167125

5.9 Final Position of Stages

Stage Description	Annular Length	Casing Length	Annular Top MD	Casing Top MD
	m	m	m	m
Accolade Mud	1942.5		0.0	
Base Oil	289.6		1942.5	
Tuned Spacer E+	289.6		2232.1	
Fresh water	48.3		2521.7	
Cement Slurry	2078.0	24.0	2570.0	4624.0
Fresh water		82.0		4542.0
Completion Brine		4542.0		0.0

5.10 Final Annular Fluid Density

Measured Depth	Density	Quality	Hydrostatic Gradient
m	lb/gal	%	lb/gal
-0.0	12.00	0.00	12.00
116.1	12.00	0.00	12.00
204.9	12.00	0.00	12.00
382.9	12.00	0.00	12.00
494.5	12.00	0.00	12.00
639.3	12.00	0.00	12.00
750.4	12.00	0.00	12.00
842.6	12.00	0.00	12.00
931.4	12.00	0.00	12.00
1025.5	12.00	0.00	12.00
1122.0	12.00	0.00	12.00
1218.5	12.00	0.00	12.00
1315.1	12.00	0.00	12.00
1404.6	12.00	0.00	12.00
1493.6	12.00	0.00	12.00
1583.0	12.00	0.00	12.00
1671.8	12.00	0.00	12.00
1760.6	12.00	0.00	12.00
1849.9	12.00	0.00	12.00
1942.5	6.72	0.00	12.00
2028.0	6.72	0.00	11.79
2116.8	6.72	0.00	11.59
2206.2	6.72	0.00	11.41
2280.4	13.50	0.00	11.40
2376.9	13.50	0.00	11.48
2473.5	13.50	0.00	11.54
2531.8	8.33	0.00	11.56
2570.0	8.33	0.00	11.53
2621.6	15.00	0.00	11.57
2711.0	15.00	0.00	11.65
2820.0	15.00	0.00	11.74
2915.4	15.00	0.00	11.81
3016.2	15.00	0.00	11.86
3122.8	15.00	0.00	11.90
3224.3	15.00	0.00	11.92
3330.3	15.00	0.00	11.93
3431.9	15.00	0.00	11.92
3537.7	15.00	0.00	11.92
3624.3	15.00	0.00	11.91
3741.0	15.00	0.00	11.91
3829.1	15.00	0.00	11.92
3948.2	15.00	0.00	11.93
4021.7	15.00	0.00	11.94
4124.4	15.00	0.00	11.96
4229.2	15.00	0.00	11.97
4331.0	15.00	0.00	11.97
4436.6	15.00	0.00	11.97
4539.0	15.00	0.00	11.98

Measured Depth	Density	Quality	Hydrostatic Gradient
m	lb/gal	%	lb/gal
4643.9	15.00	0.00	12.00
4647.8	15.00	0.00	12.00

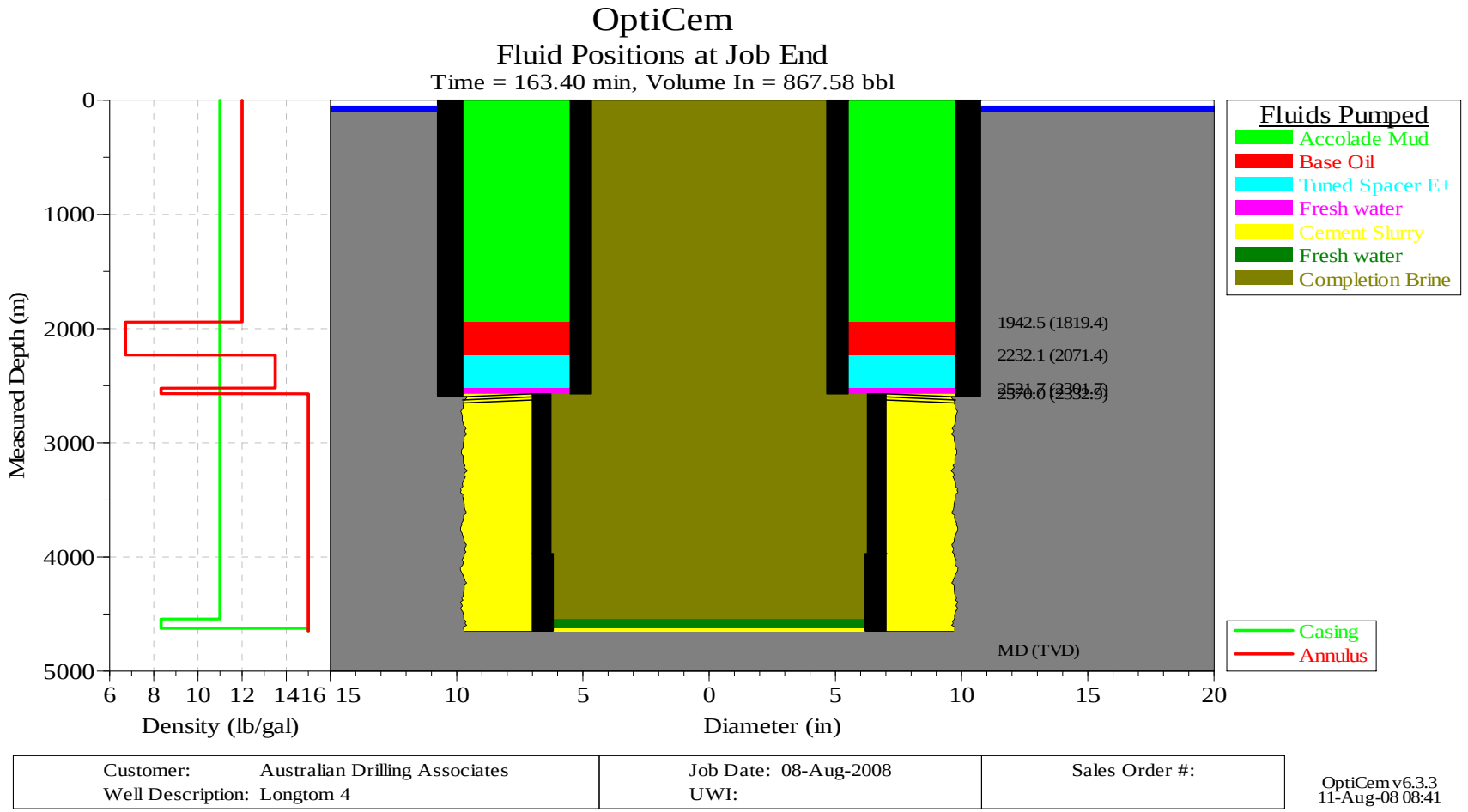
6.0 Job

6.1 Stage Summary - Pump Pressure and ECD

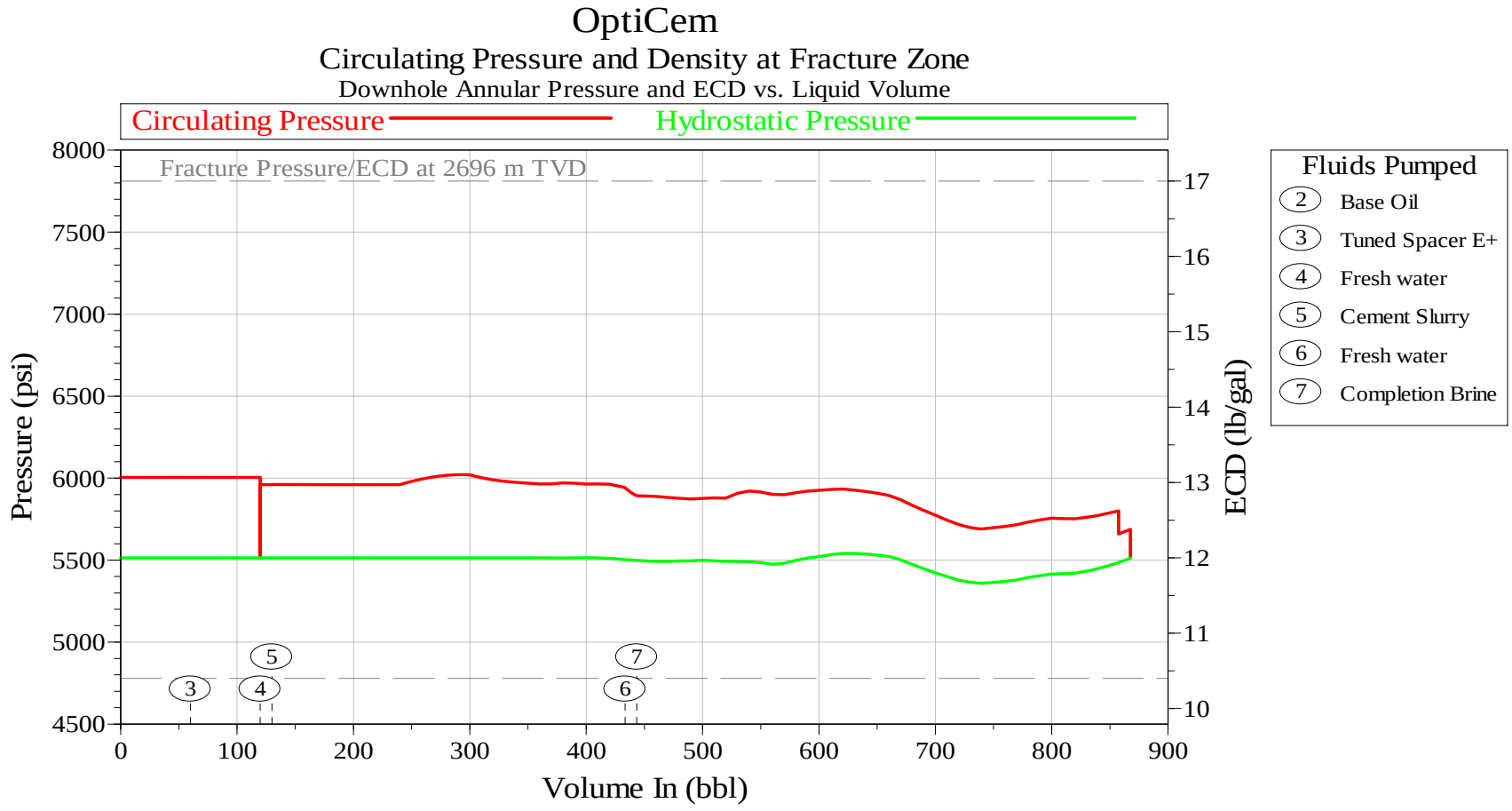
Number	Average Pump Pressure	Minimum Pump Pressure	Maximum Pump Pressure	Average ECD	Minimum ECD	Maximum ECD
	psi	psi	psi	lb/gal	lb/gal	lb/gal
2	1050	793	1393	13.07	13.07	13.07
3	1413	1268	1513	12.68	12.00	13.07
4	1180	485	1207	12.97	12.97	12.97
5	305	15	1222	13.00	12.93	13.10
6	15	15	15	12.88	12.82	12.93
7	522	15	815	12.63	12.00	12.91

7.0 Attachments

7.1 Fluid Positions (graph)



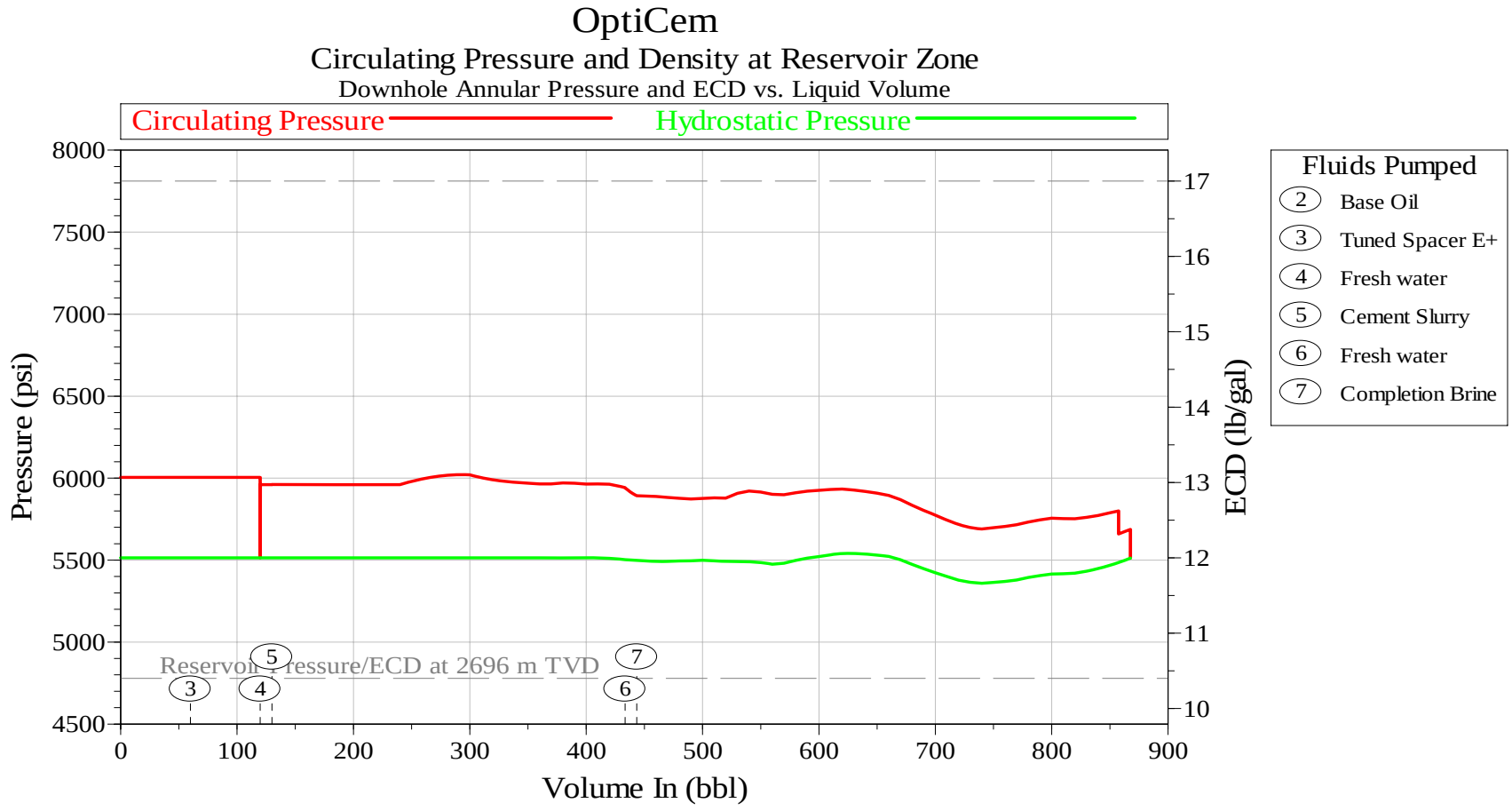
7.2 Circ Pressure & Density - Frac Zone (graph)



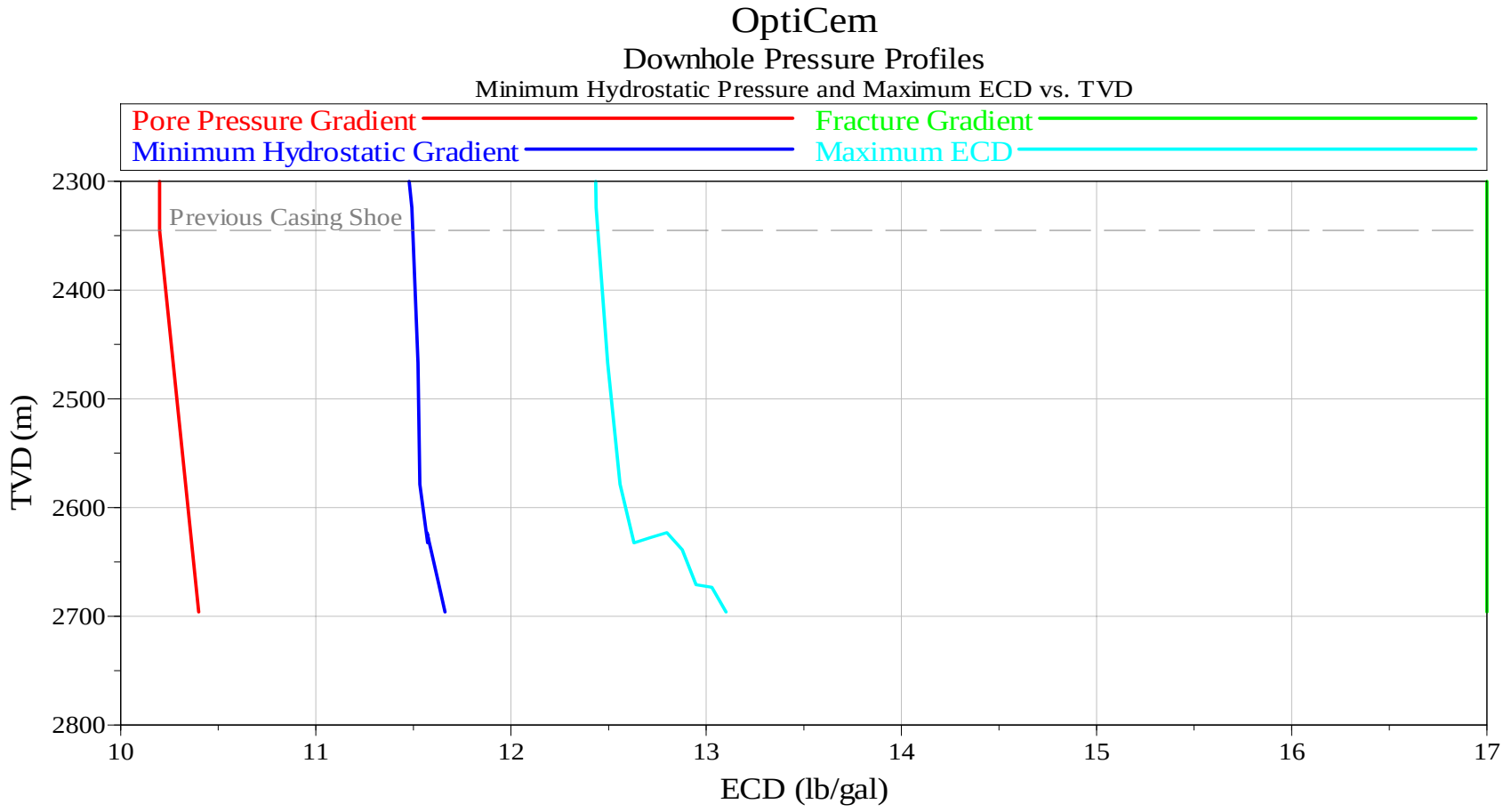
Customer: Australian Drilling Associates Well Description: Longtom 4	Job Date: 08-Aug-2008 UWI:	Sales Order #:

OptiCem v6.3.3
11-Aug-08 08:41

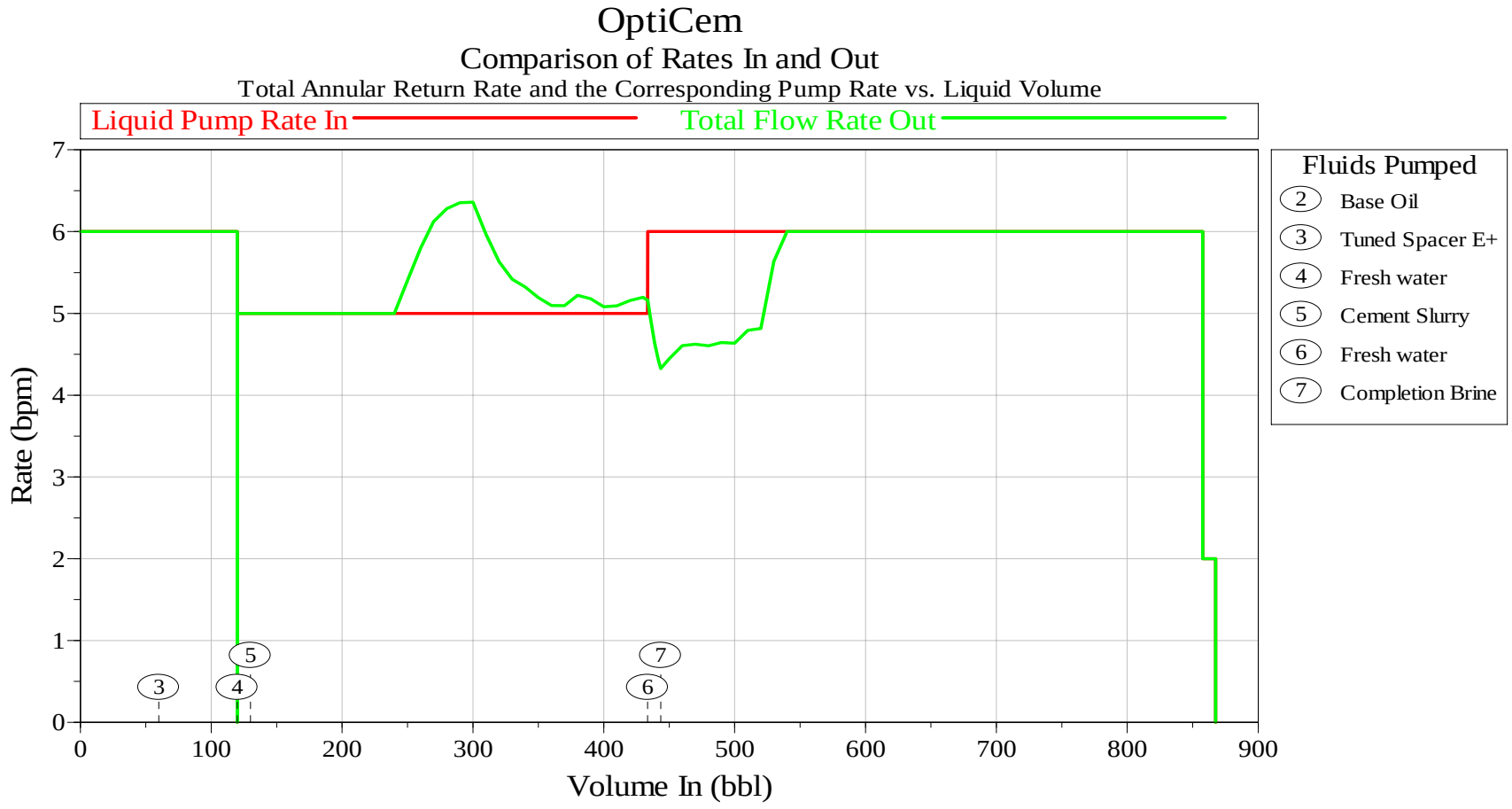
7.3 Circ Pressure & Density - Res Zone (graph)



7.4 Downhole Pressure Profiles (graph)



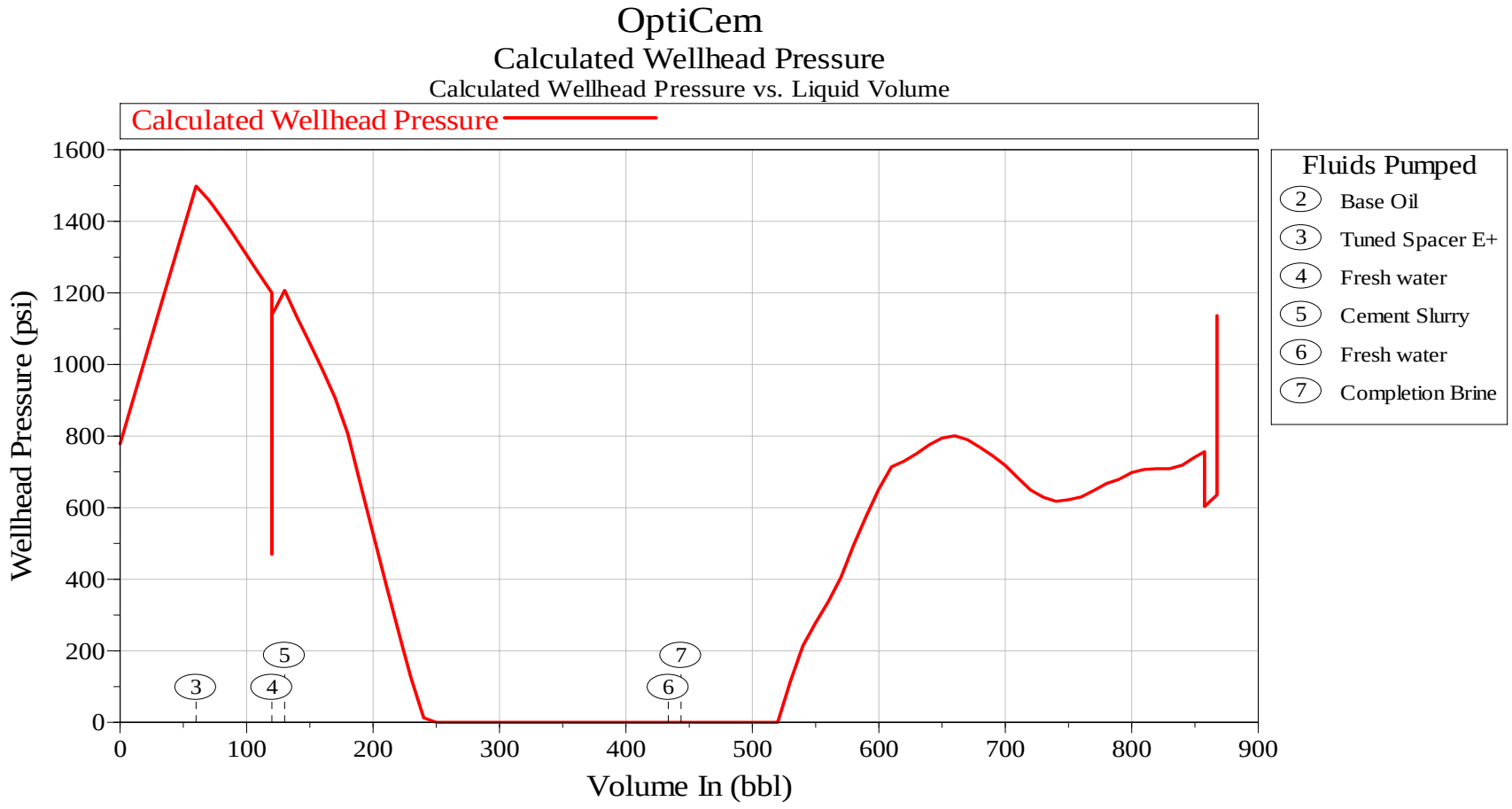
7.5 Comparison of Rates In and Out (graph)



Customer: Australian Drilling Associates Well Description: Longtom 4	Job Date: 08-Aug-2008 UWI:	Sales Order #:

OptiCem v6.3.3
11-Aug-08 08:41

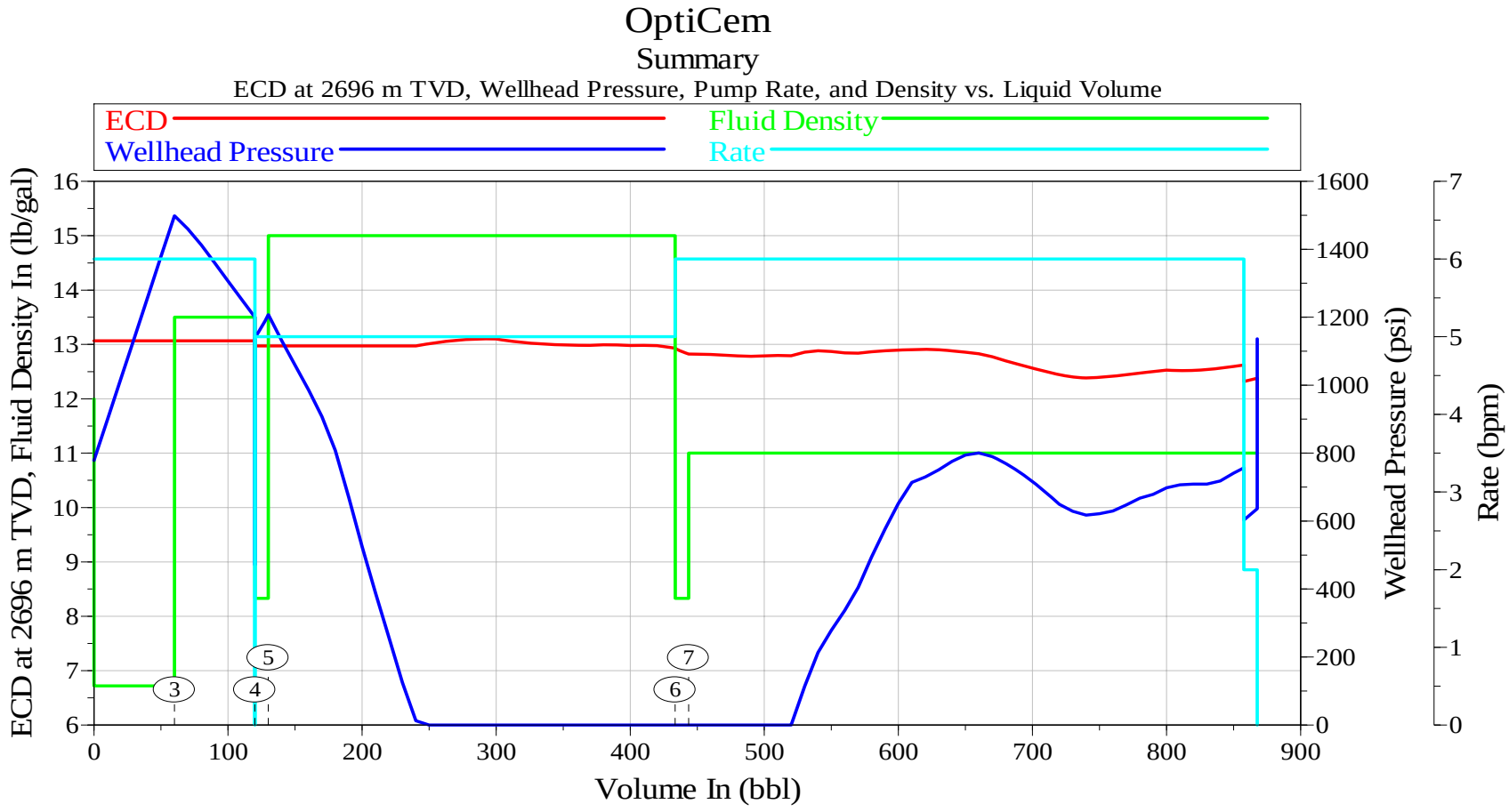
7.6 Calculated Wellhead Pressure (graph)



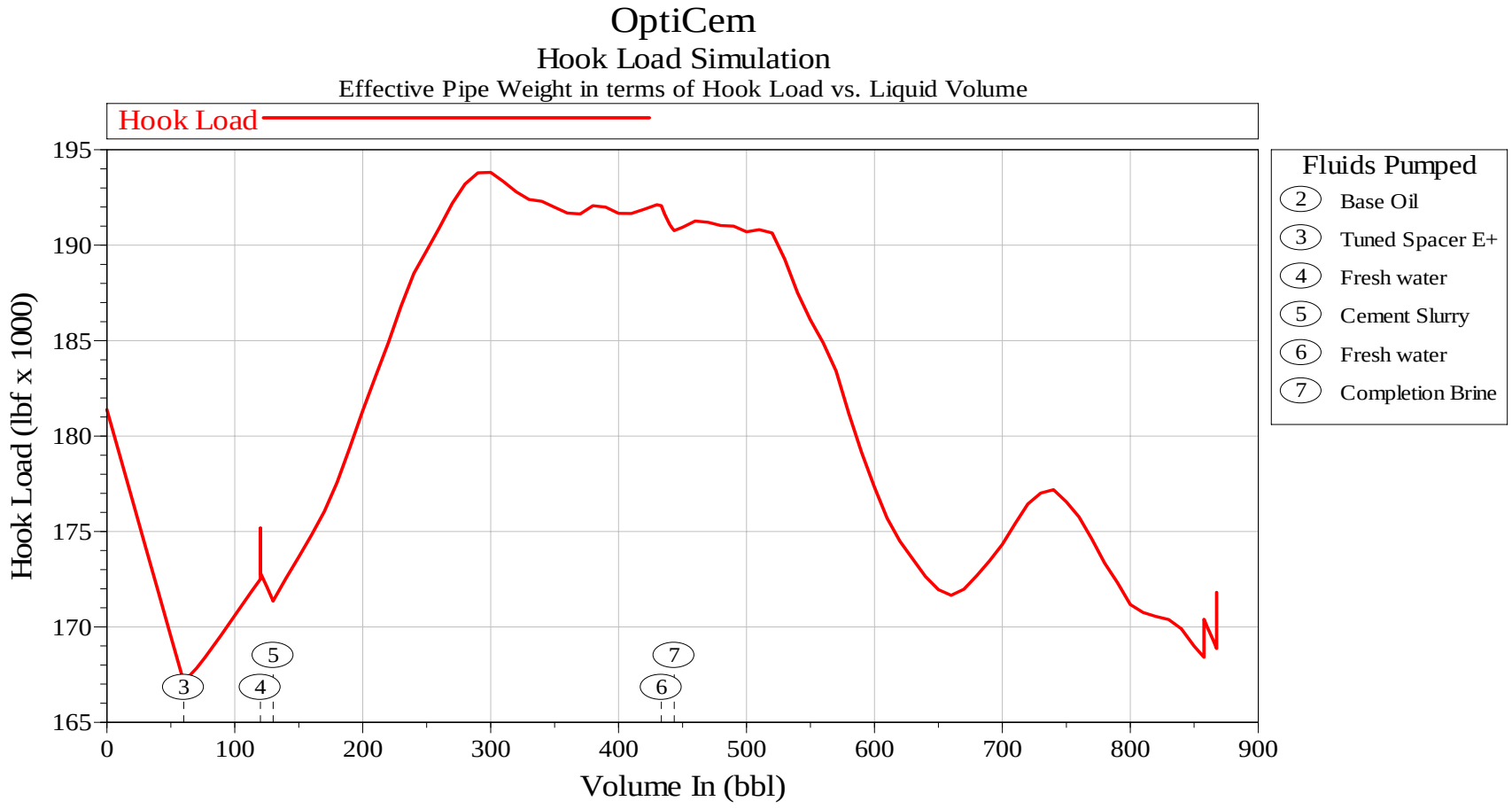
Customer: Australian Drilling Associates Well Description: Longtom 4	Job Date: 08-Aug-2008 UWI:	Sales Order #:

OptiCem v6.3.3
11-Aug-08 08:41

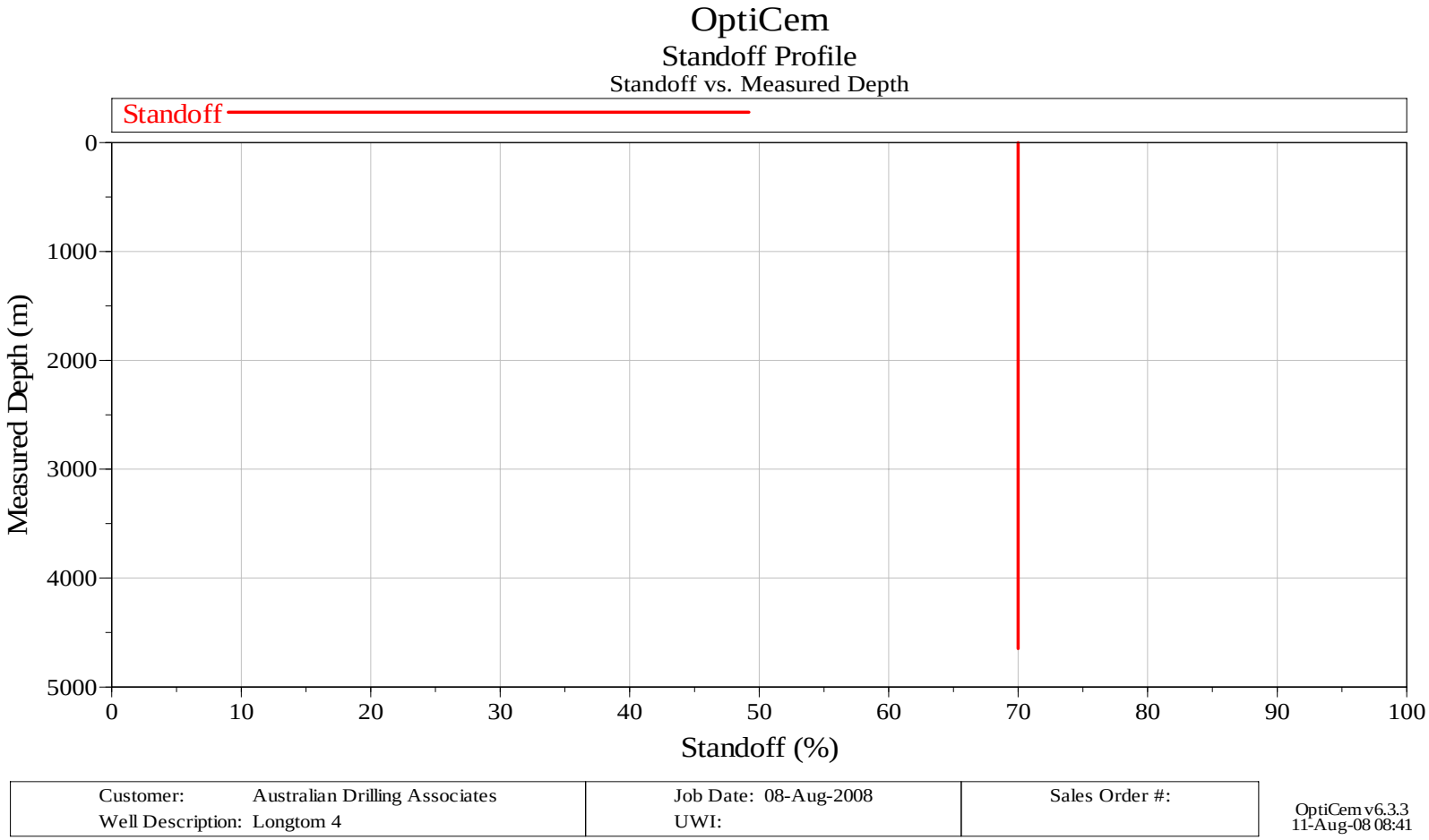
7.7 Summary (graph)



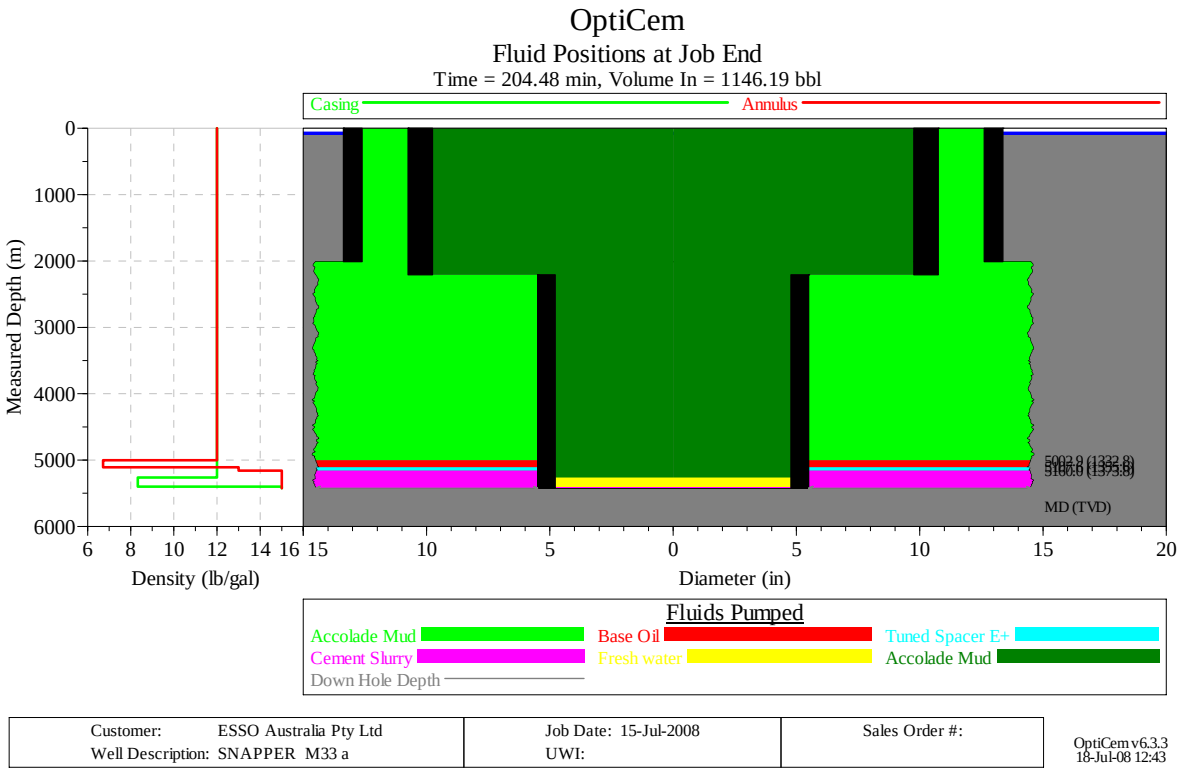
7.8 Hook Load Simulation (graph)

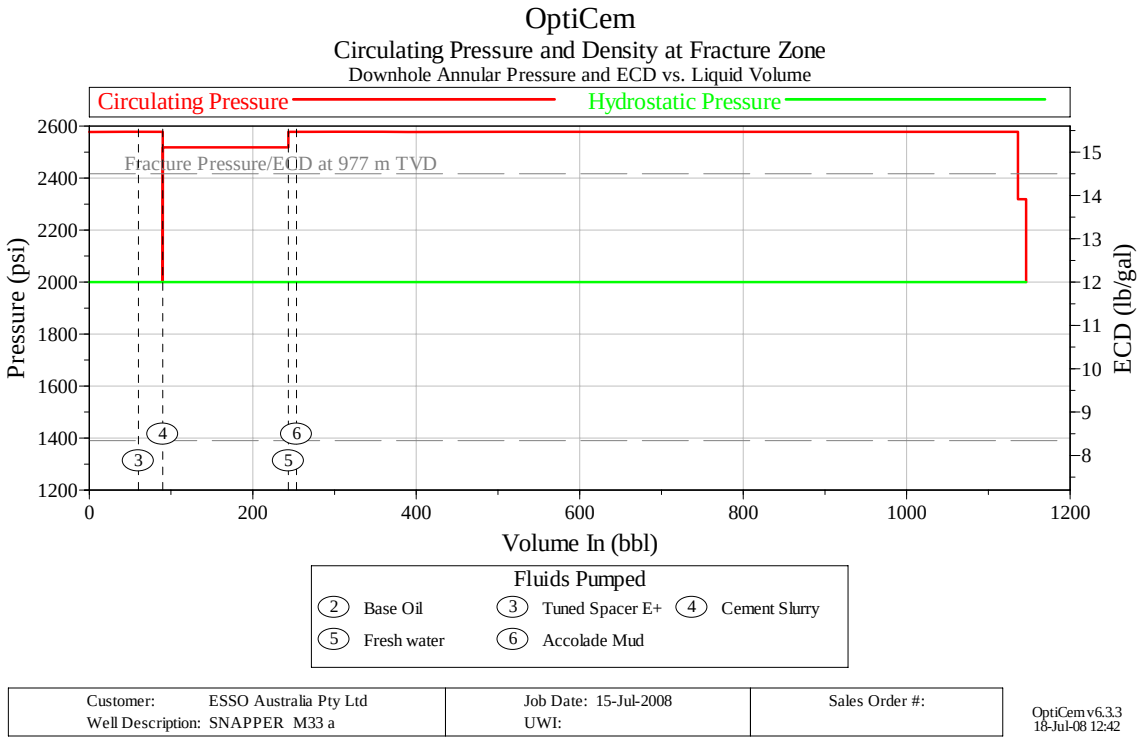


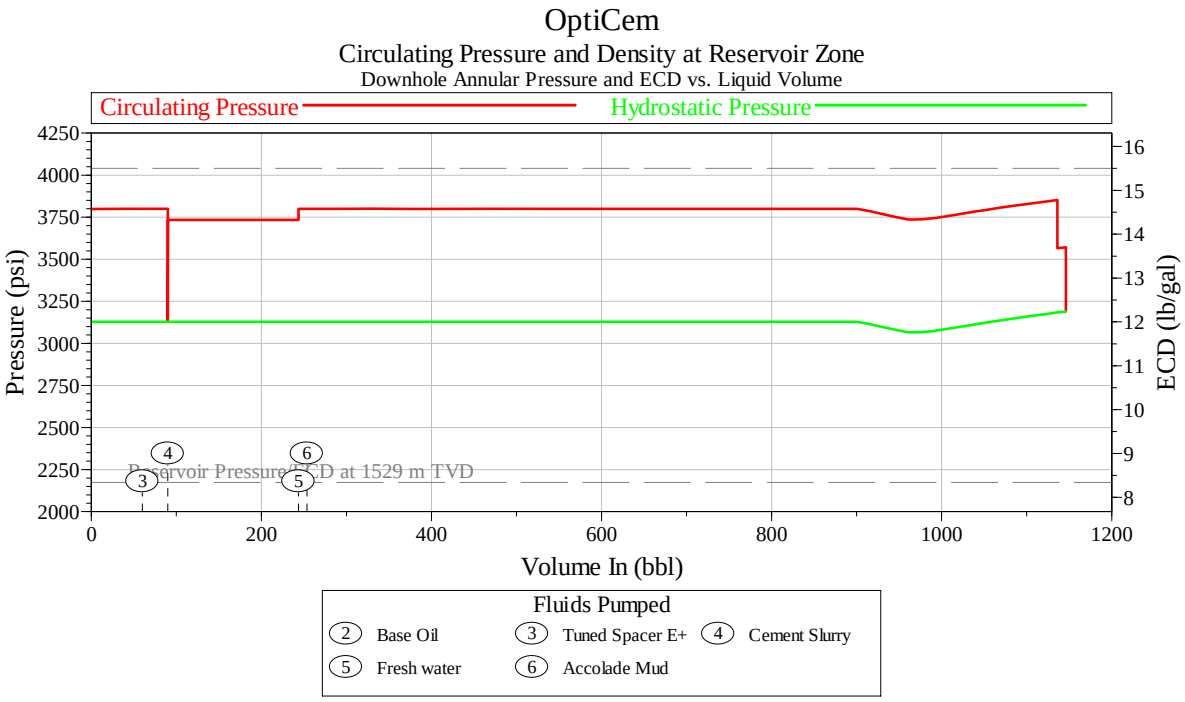
7.9 Standoff Profile (graph)

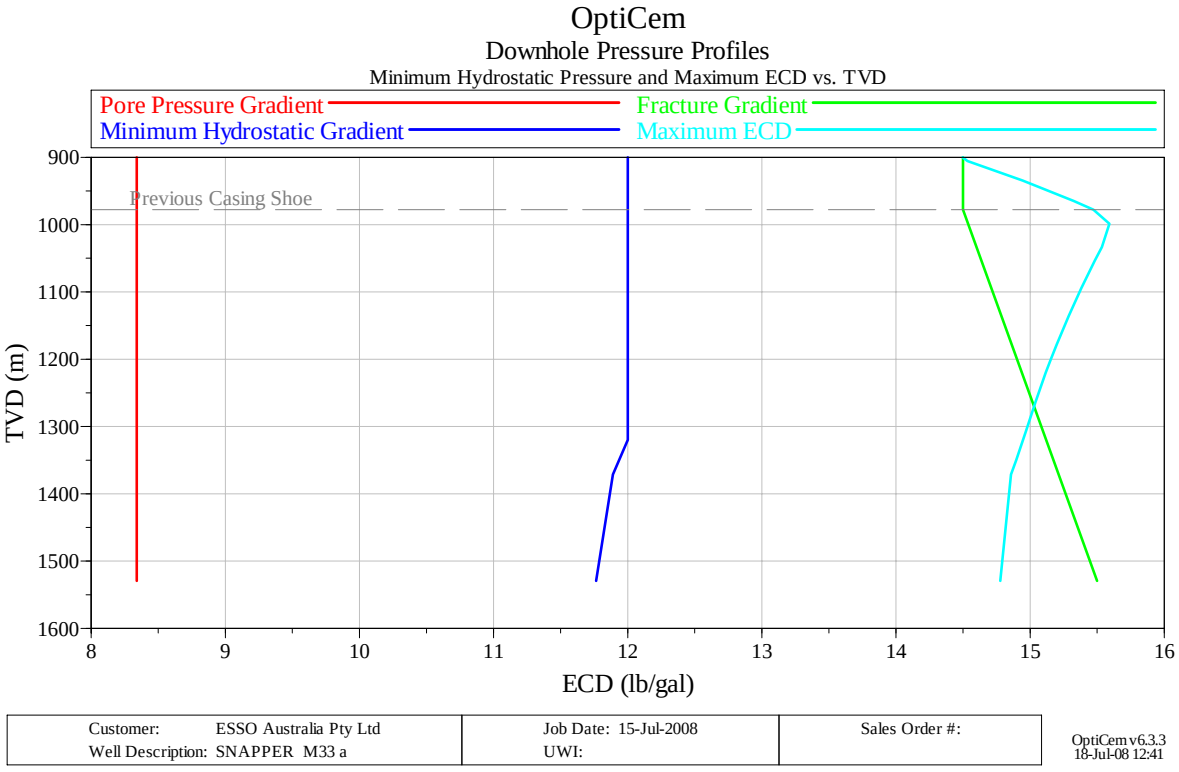


7.9.1 Option 1 Displacing with Mud

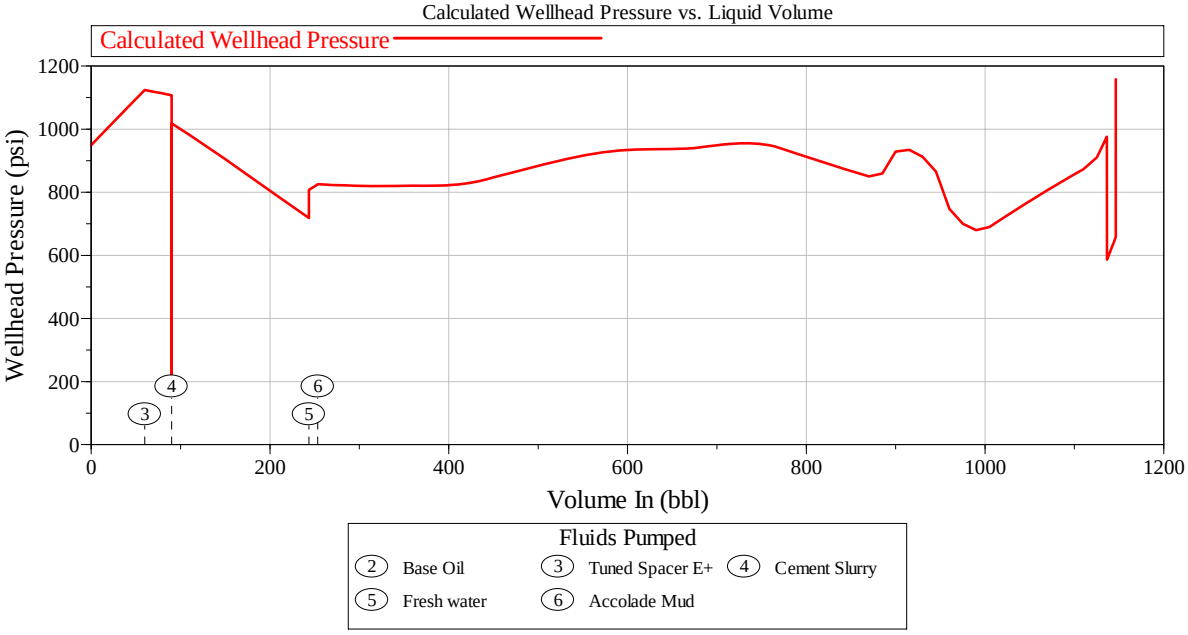





OptiCem
Circulating Pressure and Density at Reservoir Zone
Downhole Annular Pressure and ECD vs. Liquid Volume
Circulating Pressure
Hydrostatic Pressure
Pressure (psi)
ECD (lb/gal)
Reservoir Pressure/ECD at 1529 m TVD
Volume In (bbl)
Fluids Pumped
2 Base Oil
3 Tuned Spacer E+
4 Cement Slurry
5 Fresh water
6 Accolade Mud
Customer: ESSO Australia Pty Ltd
Well Description: SNAPPER M33 a
Job Date: 15-Jul-2008
UWI:
Sales Order #:
OptiCem v6.3.3
18-Jul-08 12:41


OptiCem
Downhole Pressure Profiles
Minimum Hydrostatic Pressure and Maximum ECD vs. TVD
Pore Pressure Gradient
Fracture Gradient
Minimum Hydrostatic Gradient
Maximum ECD
Previous Casing Shoe
TVD (m)
ECD (lb/gal)
Customer: ESSO Australia Pty Ltd
Well Description: SNAPPER M33 a
Job Date: 15-Jul-2008
UWI:
Sales Order #:
OptiCem v6.3.3
18-Jul-08 12:41

OptiCem
Calculated Wellhead Pressure
Calculated Wellhead Pressure vs. Liquid Volume



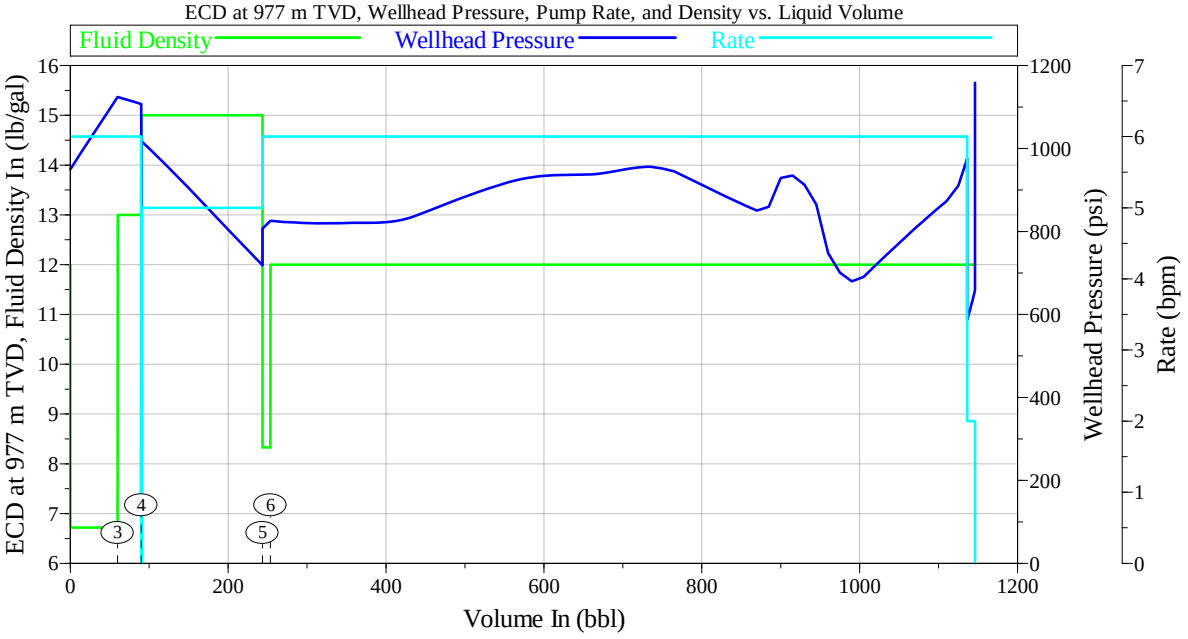
Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Accolade Mud		

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:41

OptiCem
Summary
ECD at 977 m TVD, Wellhead Pressure, Pump Rate, and Density vs. Liquid Volume



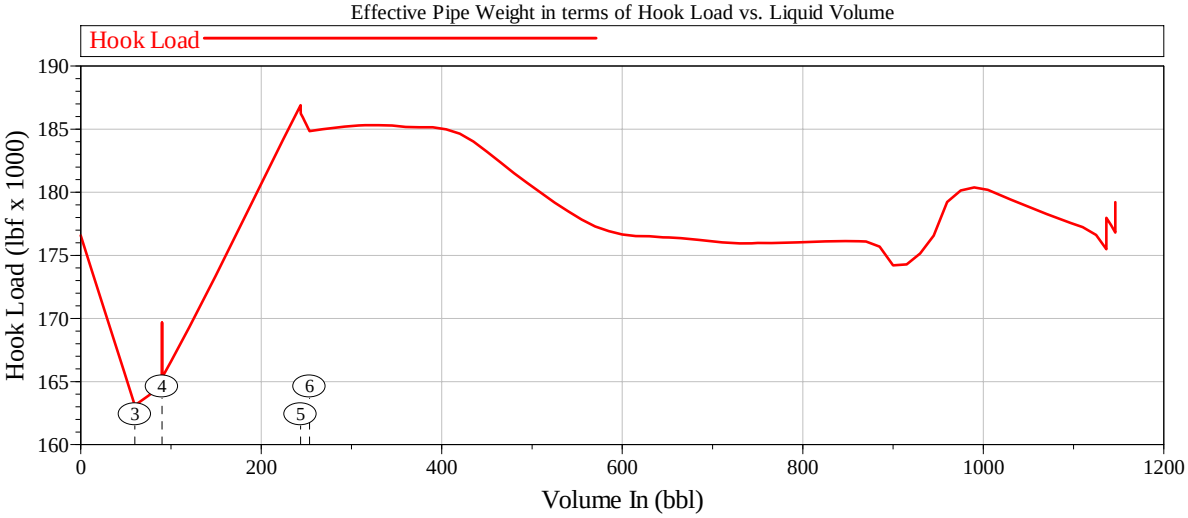
Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:40

OptiCem

Hook Load Simulation

Effective Pipe Weight in terms of Hook Load vs. Liquid Volume



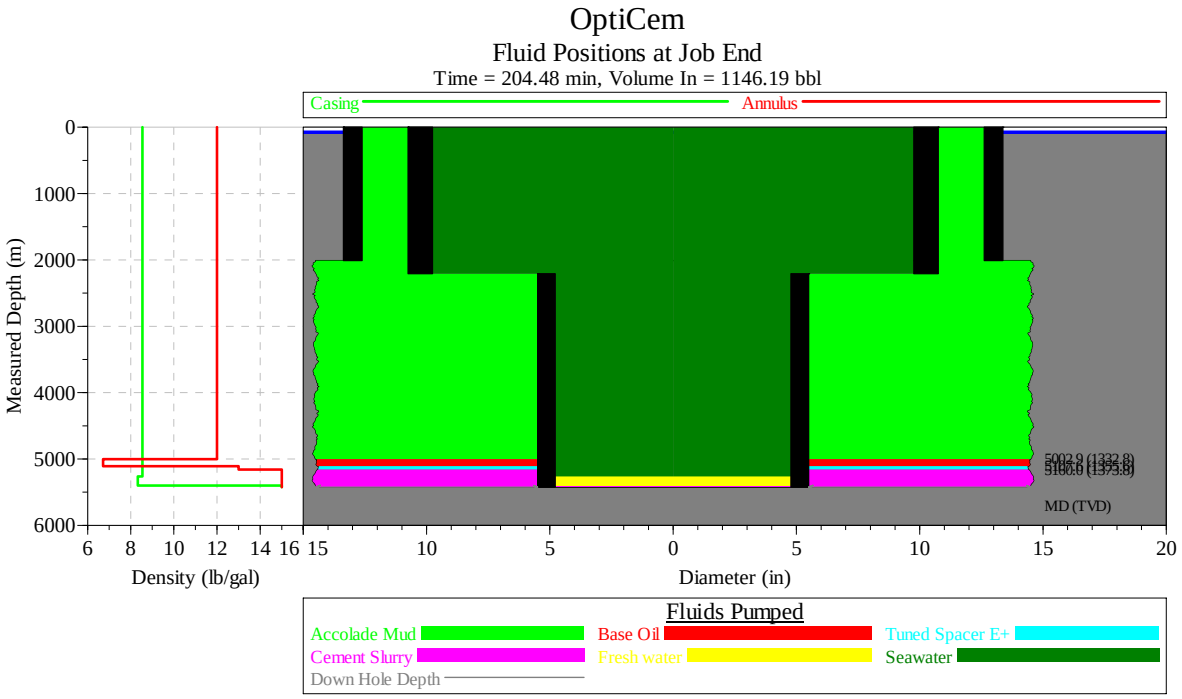
Fluids Pumped

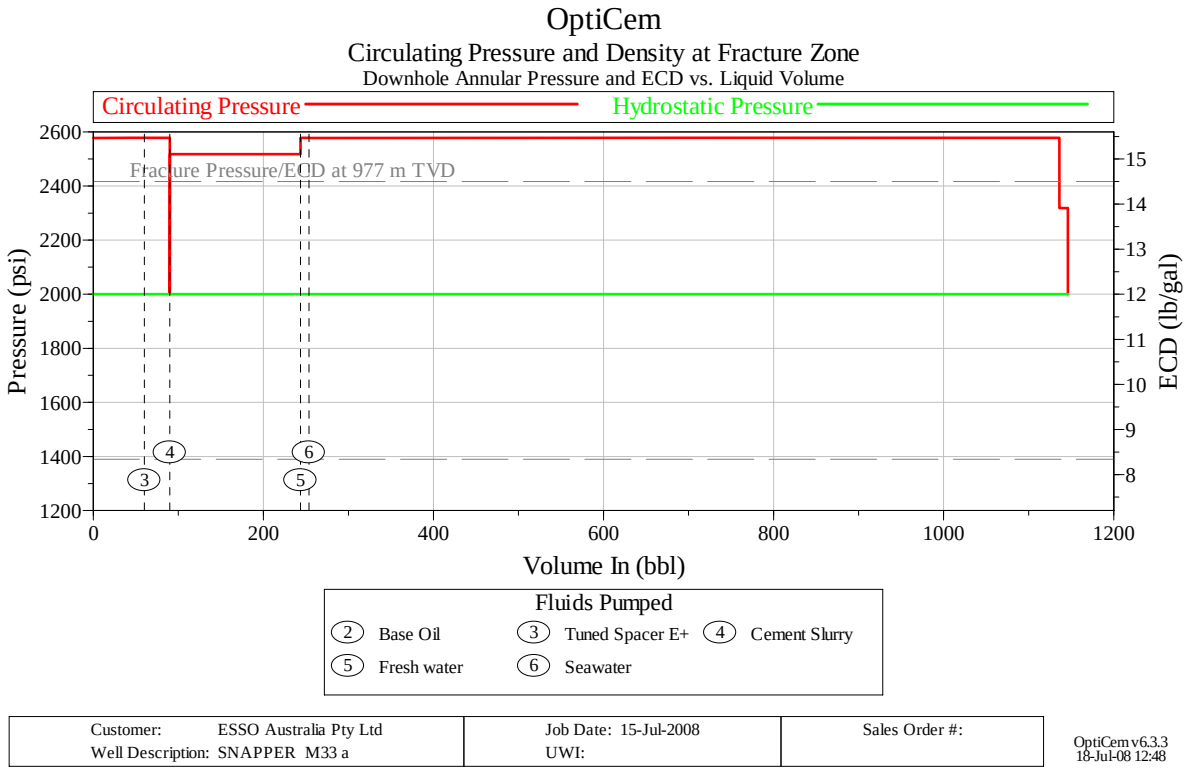
2 Base Oil	3 Tuned Spacer E+	4 Cement Slurry
5 Fresh water	6 Accolade Mud	

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

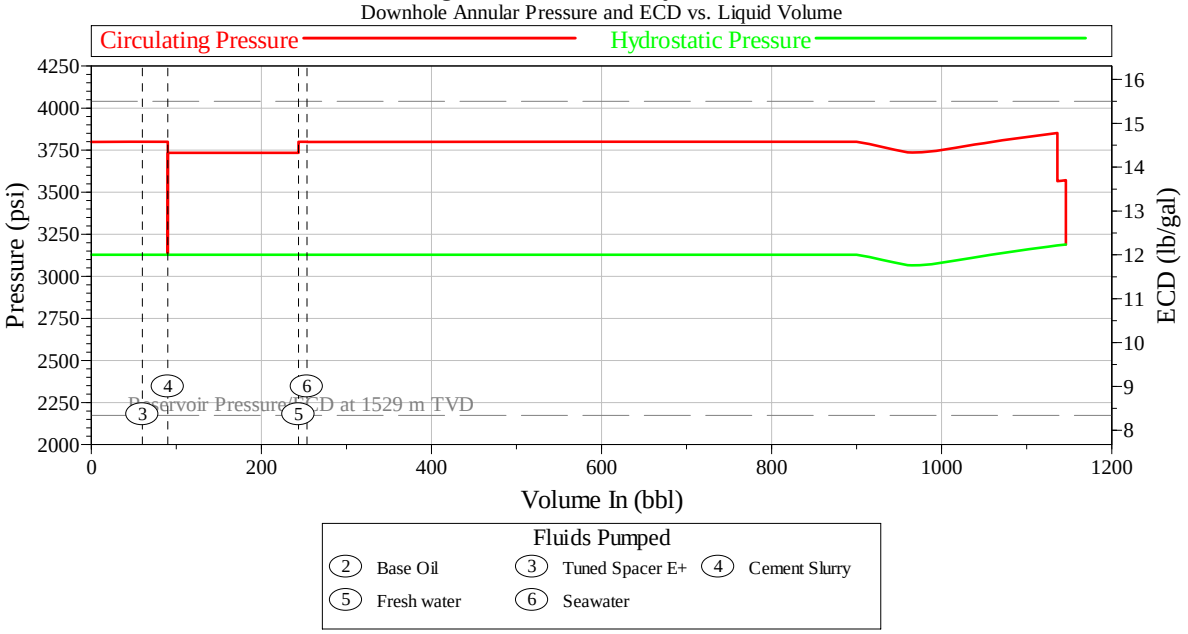
OptiCem v6.3.3
18-Jul-08 12:40

7.9.2 Option 2 Displacing with Sea water





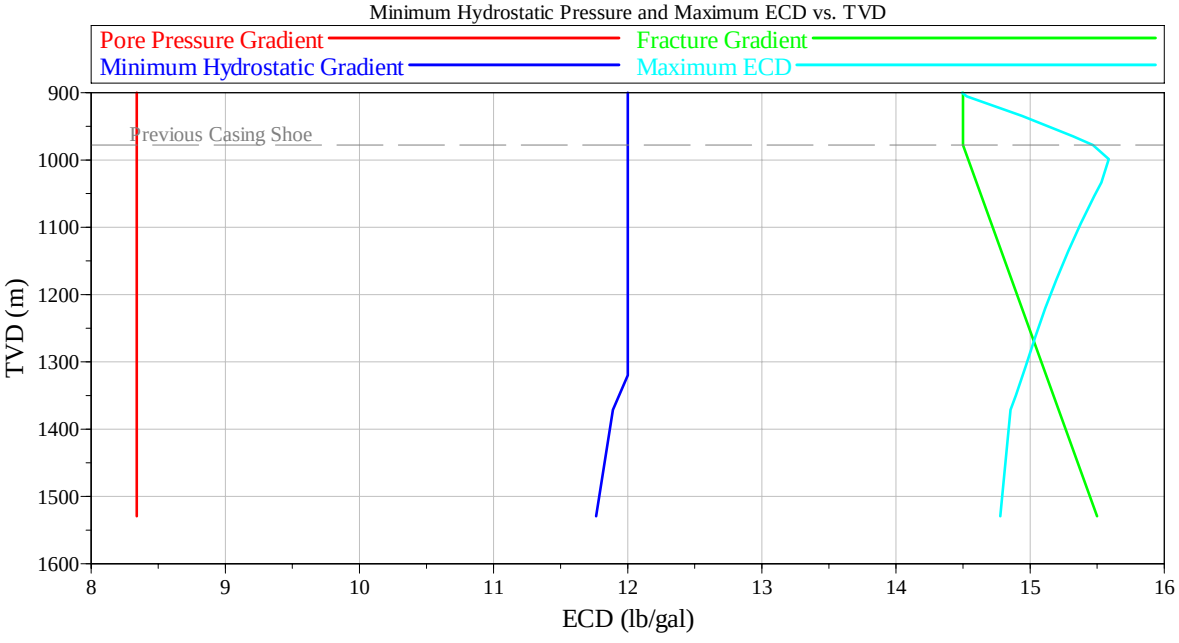
OptiCem
Circulating Pressure and Density at Reservoir Zone
Downhole Annular Pressure and ECD vs. Liquid Volume



Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:47

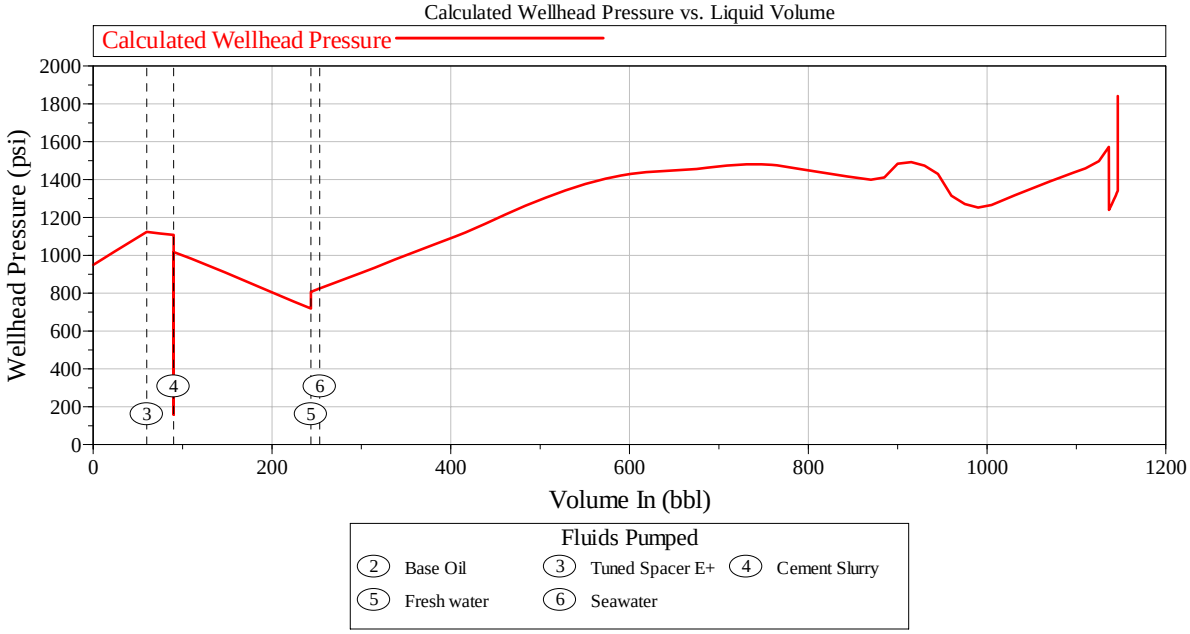
OptiCem
Downhole Pressure Profiles
Minimum Hydrostatic Pressure and Maximum ECD vs. TVD



Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem
Calculated Wellhead Pressure
Calculated Wellhead Pressure vs. Liquid Volume



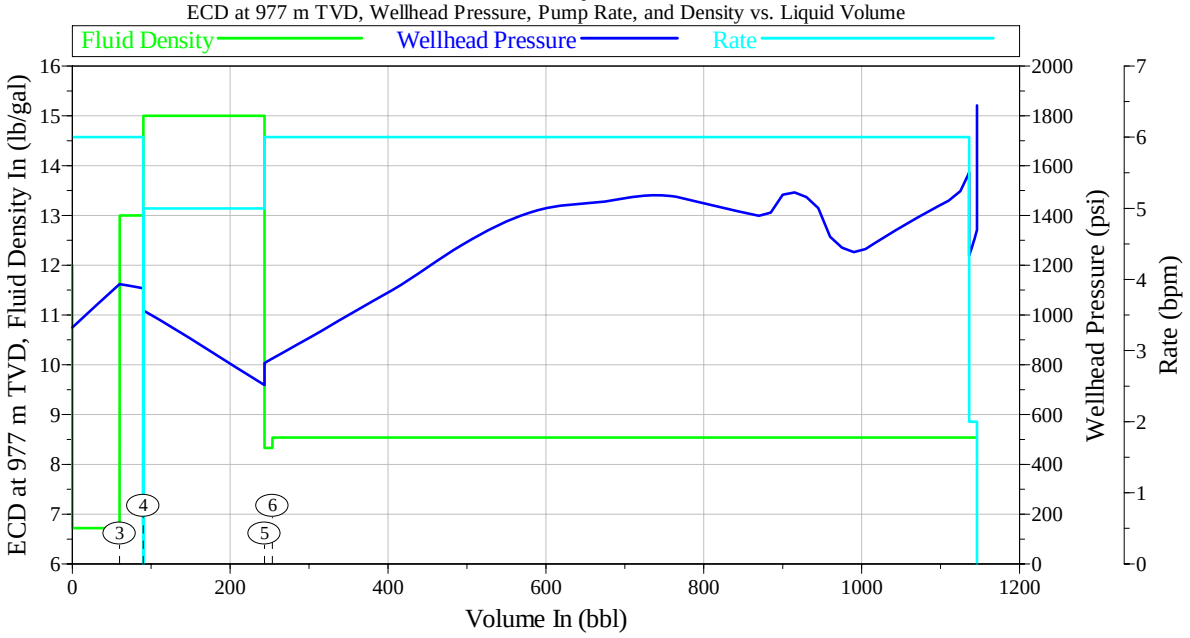
Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Seawater		

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem
Summary
ECD at 977 m TVD, Wellhead Pressure, Pump Rate, and Density vs. Liquid Volume



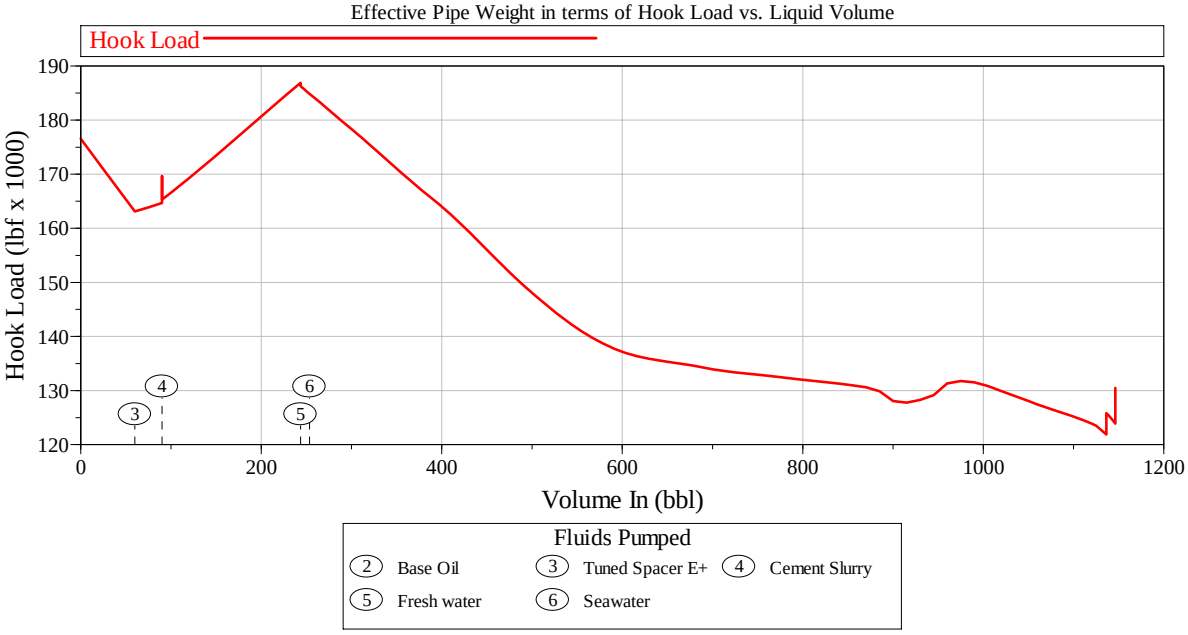
Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem

Hook Load Simulation

Effective Pipe Weight in terms of Hook Load vs. Liquid Volume



Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Seawater		

Customer: ESSO Australia Pty Ltd	Job Date: 15-Jul-2008	Sales Order #:
Well Description: SNAPPER M33 a	UWI:	

OptiCem v6.3.3
18-Jul-08 12:45

8.0 Lab Report

8.1 30 inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION					
Customer	: ADA		**Date**	:	12/06/2008
Well Name	: Longtom-4		**Reference**	:	LGT-08-01A
Casing Size	: 30inch				
Job Type	: Casing				
Slurry Type	: Single				
Time to Temp	: 13min				

WELL PROPERTIES							
Depth(MD from RKB)	: 132	Meters	**Depth(TVD from RKB)**	:	132	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	0.00	Deg.C./100M
BHST	: 25.00	Deg.C.	**BHCT (per API Spec 10)**	:	20.00	Deg.C.
Mud Weight	: 8.55	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES							
ABC Class G	: 94.00	Lbs/sk	From Yard				
NF-6	: 0.25	gal/10bbl of Mix Fluid		0.003	gal/sk		
Calcium Chloride 1%	: 2.00	%BWOC		0.025	gal/sk		
Slurry Weight	: 15.90	PPG	**Slurry Yield**	:	1.18	CuFt/Sack	
Mixing Water	: 5.16	Gals/Sack	**Total Mixing Fluid**	:	5.16	Gals/Sack	

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**		443	psi
Time(hrs:mins)	: 17	1:56	2:07	2:07		25	Deg.C.

COMPRESSIVE STRENGTH							
UCA Summary	: **50psi**	**2:09**		**UCA Max Temp**	:	25	Deg C
	: **500psi**	**4:50**		**UCA Pressure**	:	3000	psi
	: **2695psi**	**24:17**					

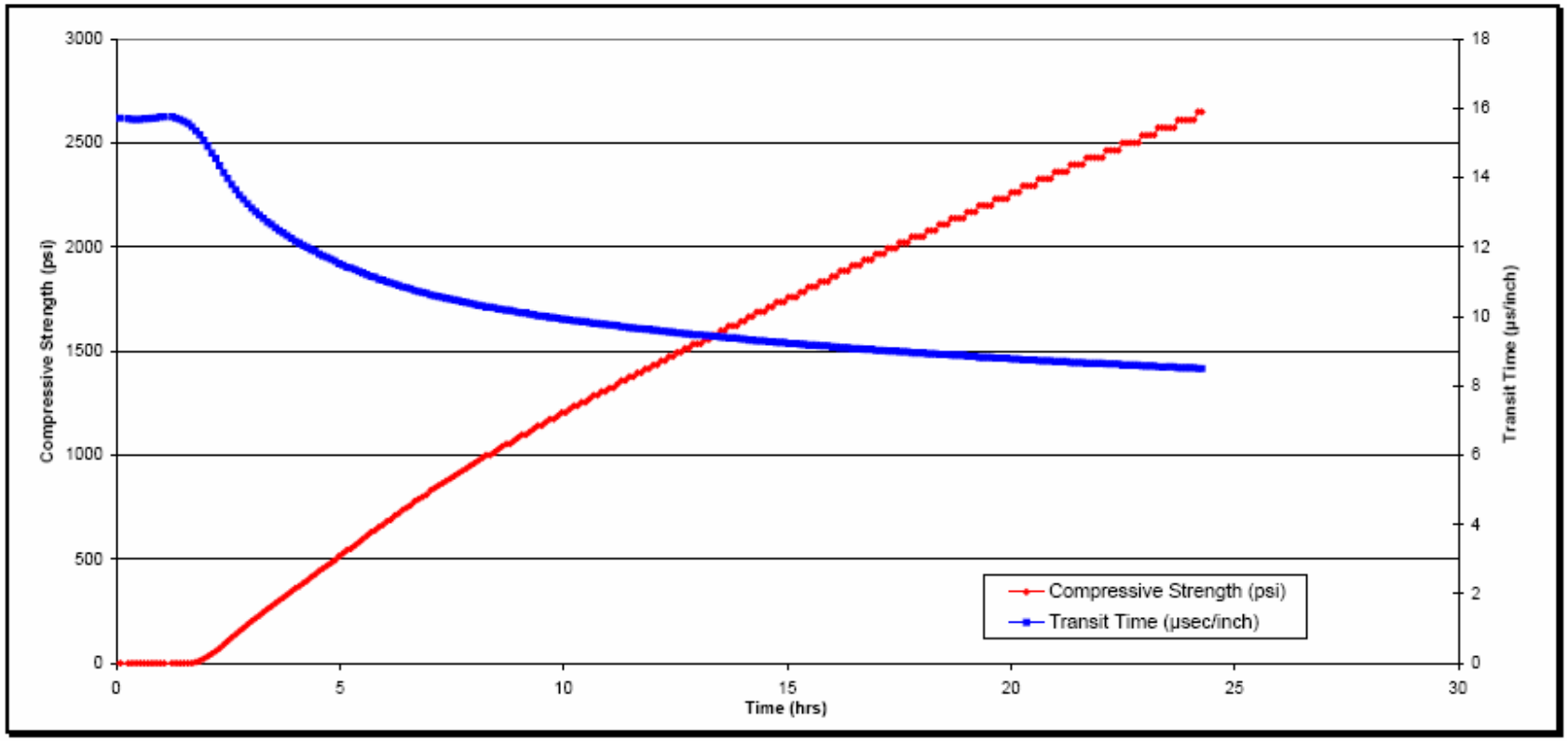
Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Daniel Gibbons

Approved By : Prem kumar Salibendla/Andrew Stobie

The above report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton makes no warranty, express or implied, as to the accuracy of the data or any of the calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.

Project No	: LGT-08-01A	HALLIBURTON	Strength 1 (50psi)	:	2:09
Well Name/Job	: Longtom-4/ 30in CSG		Strength 2 (500psi)	:	4:50
Date	: 26/05/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (2695psi)	:	24:17
Pressure	: 3000psi				
Temperature	: 25°C/77°F				
Cement	:	ABC Class G & Calcium Chloride 1% - 2% BWOC & NF-6 0.25 gal/10bbl & Seawater			
		Density –15.9ppg ▲ yield – 1.17cuft/sk ▲ Water – 5.23gal/sk ▲ Total Fluid – 5.24gal/sk			



8.2 16 inch Lead Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	22/06/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-03A
Casing Size	: 16 inch			
Job Type	: Casing			
Slurry Type	: Lead			
Time to Temp	: 19min			

WELL PROPERTIES						
Depth(MD from RKB)	: 750	Meters	**Depth(TVD from RKB)**	:	750	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.33	Deg.C./100M
BHST	: 50.00	Deg.C.	**BHCT (per API Spec 10)**	:	34.00	Deg.C.
Mud Weight	: 8.70	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES						
ABC Class G	: 94.00	Lbs/sk	From Yard			
NF-6	: 0.13	gal/10bbl of Mix Fluid		0.004	gal/sk	
Econolite Liquid	: 15.00	gal/10bbl of Mix Fluid		0.464	gal/sk	
Slurry Weight	: 12.50	PPG	**Slurry Yield**	:	2.21	CuFt/Sack
Mixing Water	: 12.54	Gals/Sack	**Total Mixing Fluid**	:	13.00	Gals/Sack

THICKENING TIME							
Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	1,112	psi
Time(hrs:mins)	:	2	4:24	4:47	5:02	34	Deg.C.

COMPRESSIVE STRENGTH							
UCA Summary	:	**50psi**	**4:00**	**UCA Max Temp**	:	46	Deg C
	:	**500psi**	**11:13**	**UCA Pressure**	:	3000	psi
	:	**751psi**	**24:00**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

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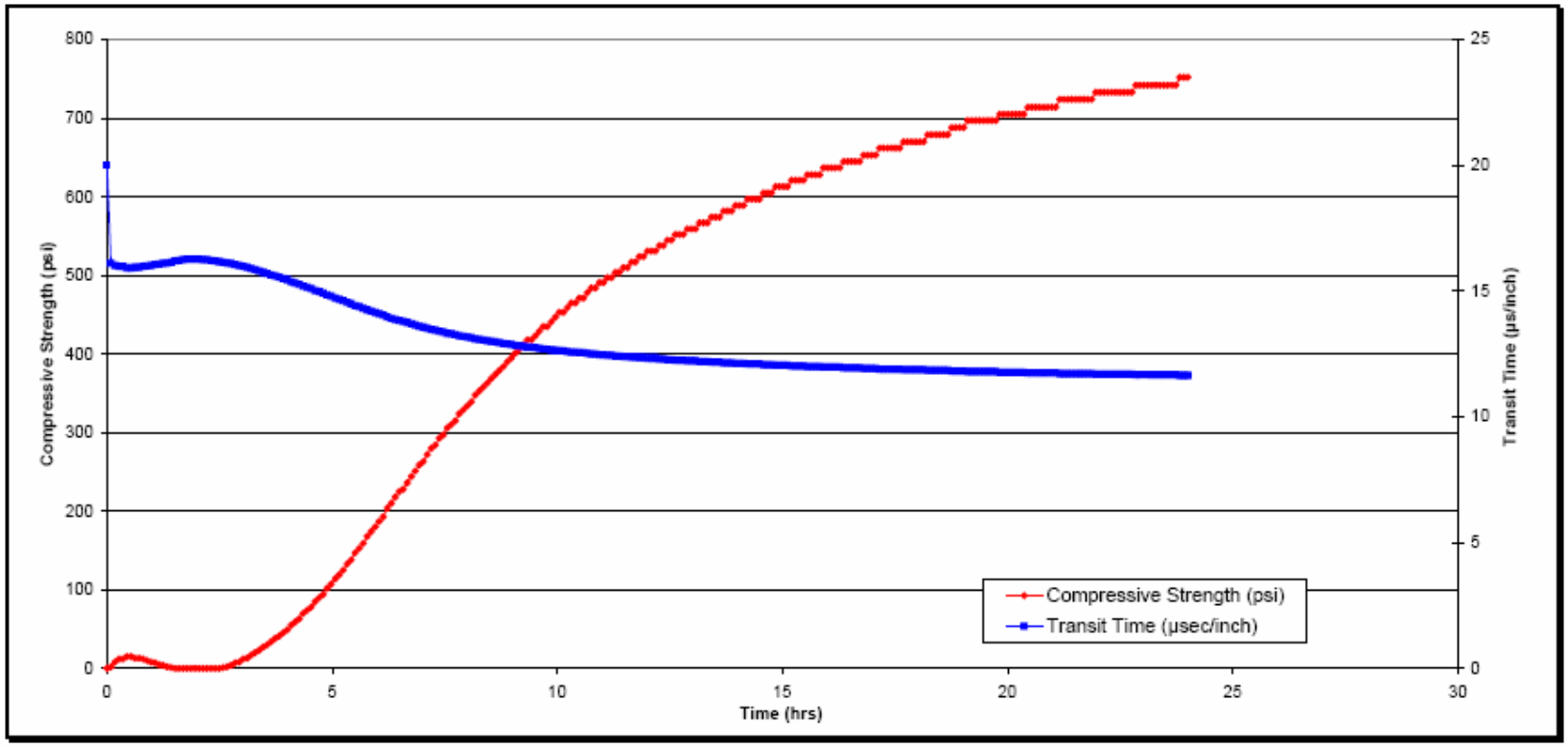
Project No	:LGT-08-03A	HALLIBURTON	Strength 1 (50psi)	:	4:00
Well Name/Job	:Longtom 4 / 16 Lead CSG		Strength 2 (500psi)	:	11:13
Date	: 22/06/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (751psi)	:	24:00
Pressure	: 3000psi				
Temperature	:46°C/115°F				
Cement	:	ABC Class G & Econolite Liquid - 15gal/10bbl & NF-6 0.125 gal/10bbl & Seawater			

Density –12.5ppg ▲ yield – 2.21cuft/sk ▲ Water – 12.54gal/sk ▲ Total Fluid – 13.00gal/sk



HALLIBURTON

8.3 16 inch Tail Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	22/06/2008
Well Name	: Longtom-4	**Reference**	:	LGT-08-02A
Casing Size	: 16inch			
Job Type	: Casing			
Slurry Type	: Tail			
Time to Temp	: 19min			

WELL PROPERTIES						
Depth(MD from RKB)	: 750	Meters	**Depth(TVD from RKB)**	:	750	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.33	Deg.C./100M
BHST	: 50.00	Deg.C.	**BHCT (per API Spec 10)**	:	34.00	Deg.C.
Mud Weight	: 8.70	PPG	**Water Source**	:	West Triton Drill Water	

SLURRY PROPERTIES					
ABC Class G	: 94.00	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid		gal/sk	
	:				
Slurry Weight	: 15.80	PPG	**Slurry Yield**	: 1.16	CuFt/Sack
Mixing Water	: 5.10	Gals/Sack	**Total Mixing Fluid**	: 5.16	Gals/Sack

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**		1,112	psi
Time(hrs:mins)	: 2	2:53	2:55	2:57		34	Deg.C.

COMPRESSIVE STRENGTH						
UCA Summary	:		**UCA Max Temp**	:	46	Deg C
	: **500psi**	**4:31**	**UCA Pressure**	:	3000	psi
	: **1050psi**	**5:55**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

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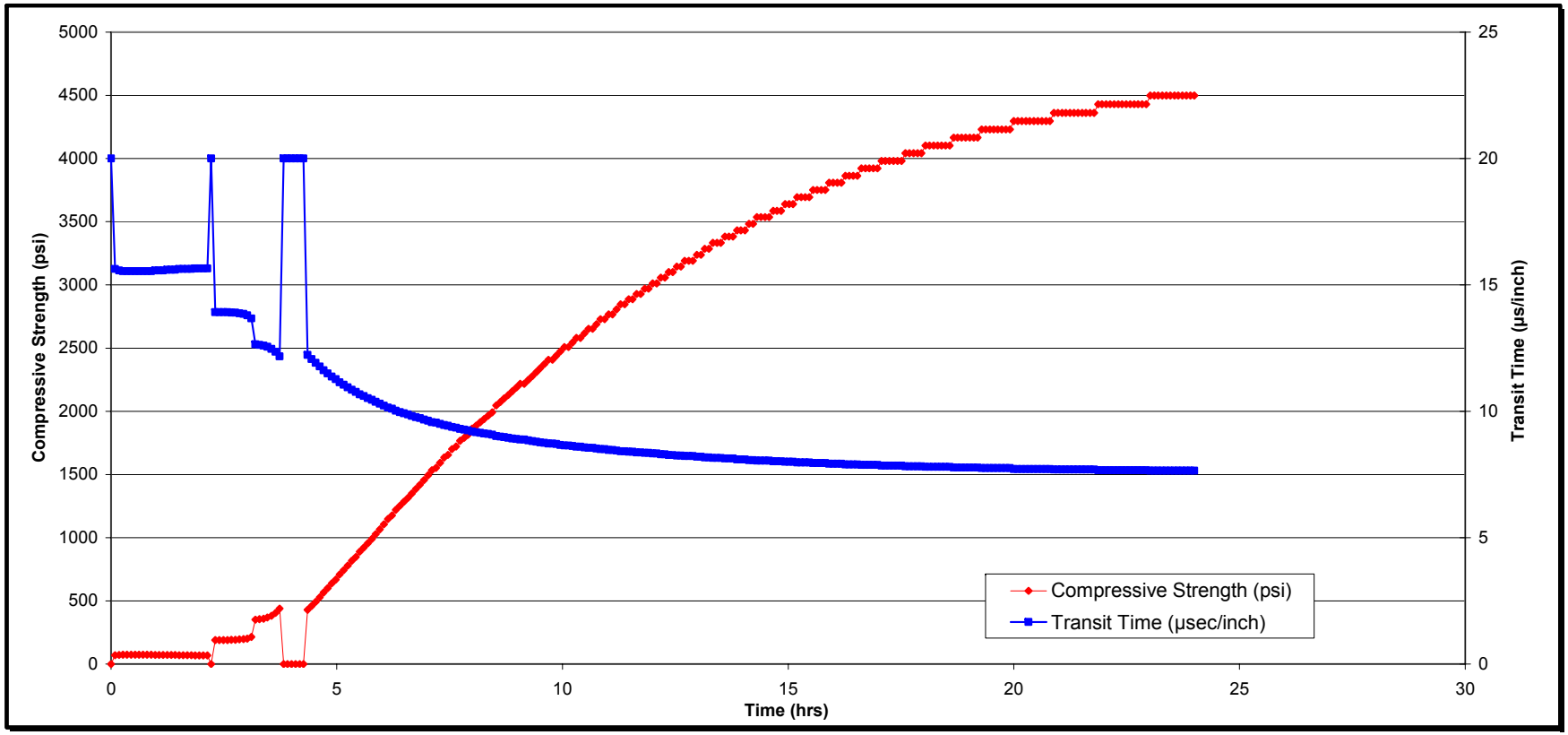
Project No	: LGT-08-02a	HALLIBURTON	Strength 1 (50psi)	:	2:09
Well Name/Job	: Longtom 4 16inch tail		Strength 2 (500psi)	:	4:50
Date	: 24/06/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (2695psi)	:	24:17
Pressure	: 3000psi				
Temperature	: 46°C/115°F				
Cement	:	ABC Class G & Calcium Chloride 1% - 2% BWOC & NF-6 0.25 gal/10bbl & Seawater			

Density –15.9ppg ▲ yield – 1.17cuft/sk ▲ Water – 5.23gal/sk ▲ Total Fluid – 5.24gal/sk



8.4 10 3/4inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION

Customer	:	ADA	**Date**	:	1/07/2008
Well Name	:	Longtom 4	**Reference**	:	LGT-08-04A
Casing Size	:	10 3/4inch			
Job Type	:	Casing			
Slurry Type	:	Single			
Time to Temp	:	42min			

WELL PROPERTIES

Depth(MD from RKB)	:	2475	Meters	**Depth(TVD from RKB)**	:	2330	Meters
Surface Temperature	:	25.00	Deg.C.	**Temperature Gradient**	:	2.92	Deg.C./100M
BHST	:	61.00	Deg.C.	**BHCT (per API Spec 10)**	:	93.00	Deg.C.
Mud Weight	:	12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES

ABC Class G	:	94.00	Lbs/sk	From Yard	
NF-6	:	0.25	gal/10bbl of Mix Fluid	0.003	gal/sk
CFR-3L	:	3.00	gal/10bbl of Mix Fluid	0.037	gal/sk
SCR-100L	:	3.50	gal/10bbl of Mix Fluid	0.043	gal/sk
Halad-413L	:	15.00	gal/10bbl of Mix Fluid	0.184	gal/sk

Slurry Weight	:	15.80	PPG	**Slurry Yield**	:	1.16	CuFt/Sack
Mixing Water	:	4.89	Gals/Sack	**Total Mixing Fluid**	:	5.15	Gals/Sack

THICKENING TIME

Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	5,321	psi
Time(hrs:mins)	:	8	3:29	3:33	3:35	61	Deg.C.

FLUID LOSS

API Fluid Loss @ 1000psi	:	24	cc/30min

RHEOLOGY READINGS

Fann Readings (RPM)	:	**300**	**200**	**100**	**6**	**3**	**PV**	**YP**
25 Deg C	:	75	51	27	5	2	72.75	2
BHCT Deg C	:	66	45	24	3	1	63	3

COMPRESSIVE STRENGTH

UCA Summary	:	**50psi**	**5:36**	**UCA Max Temp**	:	93	Deg C
	:	**500psi**	**6:13**	**UCA Pressure**	:	3000	psi
	:	**2962psi**	**21:40**				

FREE WATER

Reading	:		2%	45 degrees

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

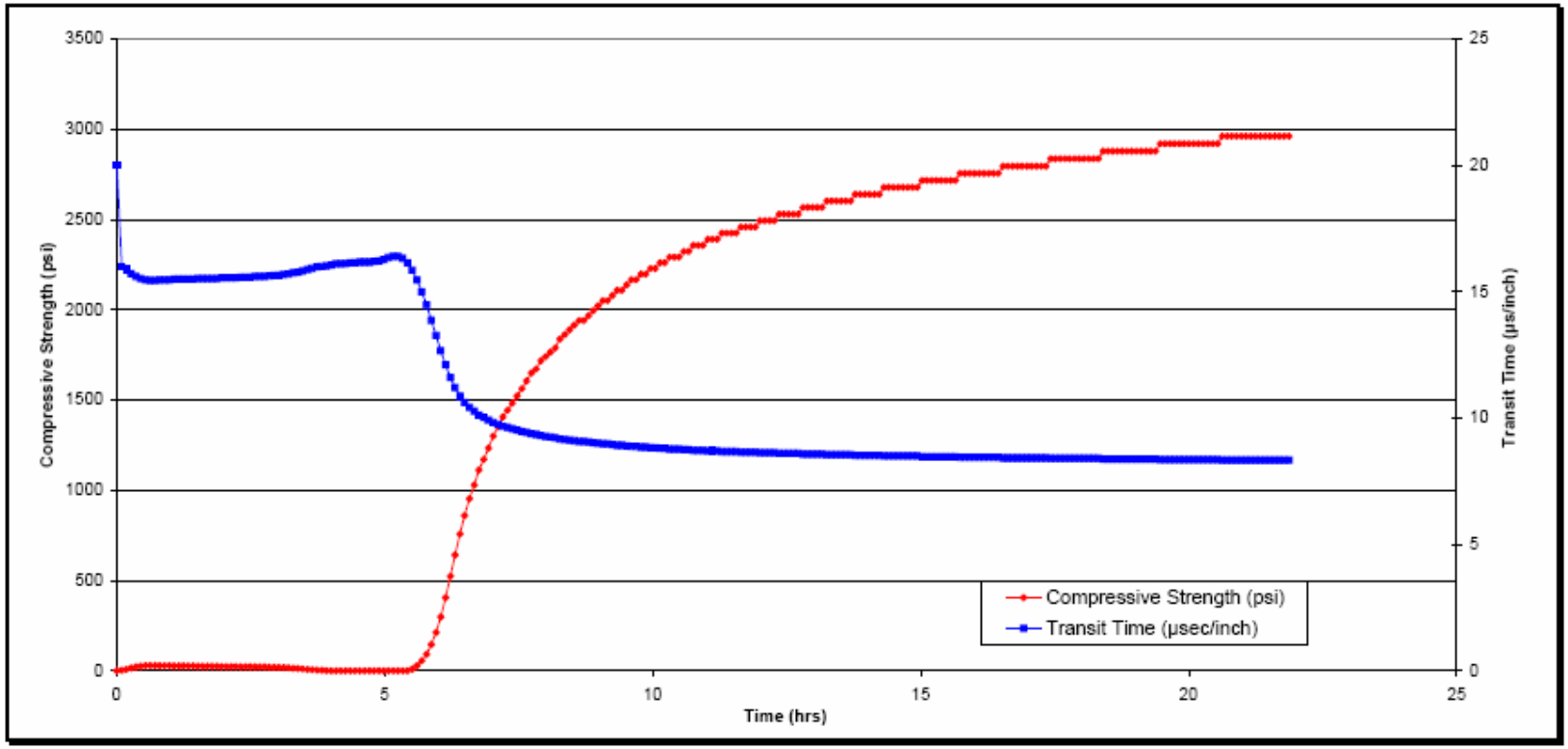
The above report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton makes no warranty, express or implied, as to the accuracy of the data or any of the calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.

HALLIBURTON

Project No	: LGT-08-04a	HALLIBURTON		Strength 1 (50psi)	: 5:36
Well Name/Job	: Longtom-4 10 3/4"			Strength 2 (500psi)	: 6:13
Date	: 1/07/2008	ULTRASONIC CEMENT ANALYZER		Current Strength (2962psi)	: 21:40
Pressure	: 3000psi				
Temperature	: 93°C/199°F				

Cement : ABC Class G & NF-6 0.25 gal/10bbl & CFR-3L 3 gal/10bbl & Halad 413L 15gal/10bbl & SCR-100L 3.5 gal/10bbl & Freshwater

Density –15.8ppg ▲ yield – 1.16cuft/sk ▲ Water – 4.89gal/sk ▲ Total Fluid – 5.16gal/sk



HALLIBURTON

8.5 KOP

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	7/07/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-05B
Casing Size	: 9.5OH			
Job Type	: Kick Off Plug			
Slurry Type	: Single			
Time to Temp	: 36min			

WELL PROPERTIES							
Depth(MD from RKB)	: 2852	Meters	**Depth(TVD from RKB)**	:	2501	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	2.92	Deg.C./100M
BHST	: 98.00	Deg.C.	**BHCT (per API Spec 10)**	:	81.00	Deg.C.
Mud Weight	: 12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES					
ABC Class G	: 94.00	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid	0.031	gal/sk	
SCR-100L	: 4.00	gal/10bbl of Mix Fluid	0.042	gal/sk	
Slurry Weight	: 16.50	PPG	**Slurry Yield**	: 1.06	CuFt/Sack
Mixing Water	: 4.31	Gals/Sack	**Total Mixing Fluid**	: 4.39	Gals/Sack

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**	5,867	psi
Time(hrs:mins)	: 16	2.56	3.00	3.01	81	Deg.C.

COMPRESSIVE STRENGTH						
UCA Summary	: **50psi**	**5:03**	**UCA Max Temp**	:	98	Deg C
	: **500psi**	**6:06**	**UCA Pressure**	:	3000	psi
	: **2158psi**	**24:00**				

FREE WATER			
Reading	:	trace	**45 degrees**

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla

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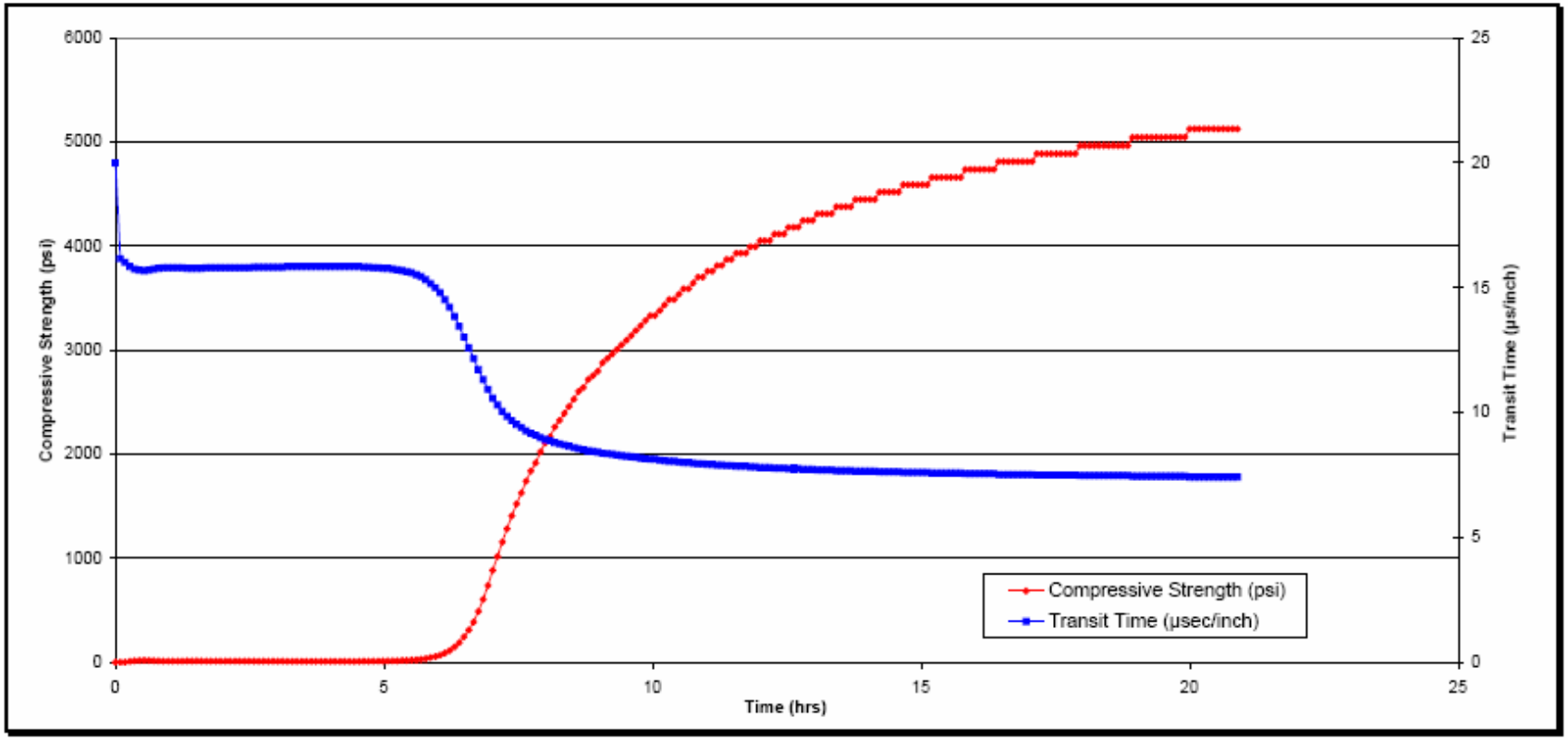
Project No	: LGT-08-05b	HALLIBURTON	Strength 1 (50psi)	:	5:54
Well Name/Job	: Longtom 4 KOP		Strength 2 (500psi)	:	6:45
Date	: 7/07/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (5179psi)	:	20:30
Pressure	: 3000psi				
Temperature	: 98°C/208°F				
Cement	:	ABC Class G & CFR-3L - 3gal/10bbl & SCR-100L - 4gal/10bbl & NF-6 0.125 gal/10bbl & Freshwater			
		Density –16.5ppg ▲ yield – 1.06cuft/sk ▲ Water – 4.31gal/sk ▲ Total Fluid – 4.39gal/sk			



8.6 7 inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	12/08/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-08A
Casing Size	: 7inch Liner			
Job Type	: Liner			
Slurry Type	: Single			
Time to Temp	: 53min			

WELL PROPERTIES							
Depth(MD from RKB)	: 4648	Meters	**Depth(TVD from RKB)**	:	2696	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.82	Deg.C./100M
BHST	: 128.00	Deg.C.	**BHCT (per API Spec 10)**	:	99.00	Deg.C.
Mud Weight	: 12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES					
ABC Class G in HTB	: 69.60	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid	0.041	gal/sk	
SCR-100L	: 4.50	gal/10bbl of Mix Fluid	0.062	gal/sk	
Gascon 469	: 16.00	gal/10bbl of Mix Fluid	0.220	gal/sk	
Halad-413L	: 15.00	gal/10bbl of Mix Fluid	0.206	gal/sk	

Slurry Weight	: 15.00	PPG	**Slurry Yield**	:	1.27	CuFt/Sack
Mixing Water	: 5.24	Gals/Sack	**Total Mixing Fluid**	:	5.78	Gals/Sack

THICKENING TIME							
Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	6,658	psi
Time(hrs:mins)	:	2	7:48	7:51	7:58	94	Deg.C.

FLUID LOSS		
API Fluid Loss @ 1000psi	: 60	cc/30min

RHEOLOGY READINGS								
Fann Readings (RPM)	:	**300**	**200**	**100**	**6**	**3**	**PV**	**YP**
25 Deg C	:	82	59	33	3	1	73.5	9
82 Deg C	:	52	35	19	2	1	50.25	2

COMPRESSIVE STRENGTH						
UCA Summary	:	**50psi**	**6:07**	**UCA Max Temp**	:	128 Deg C
	:	**500psi**	**7:04**	**UCA Pressure**	:	3000 psi
	:	**886psi**	**8:07**			

FREE WATER			
Reading	:	trace	**45 degrees**

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla

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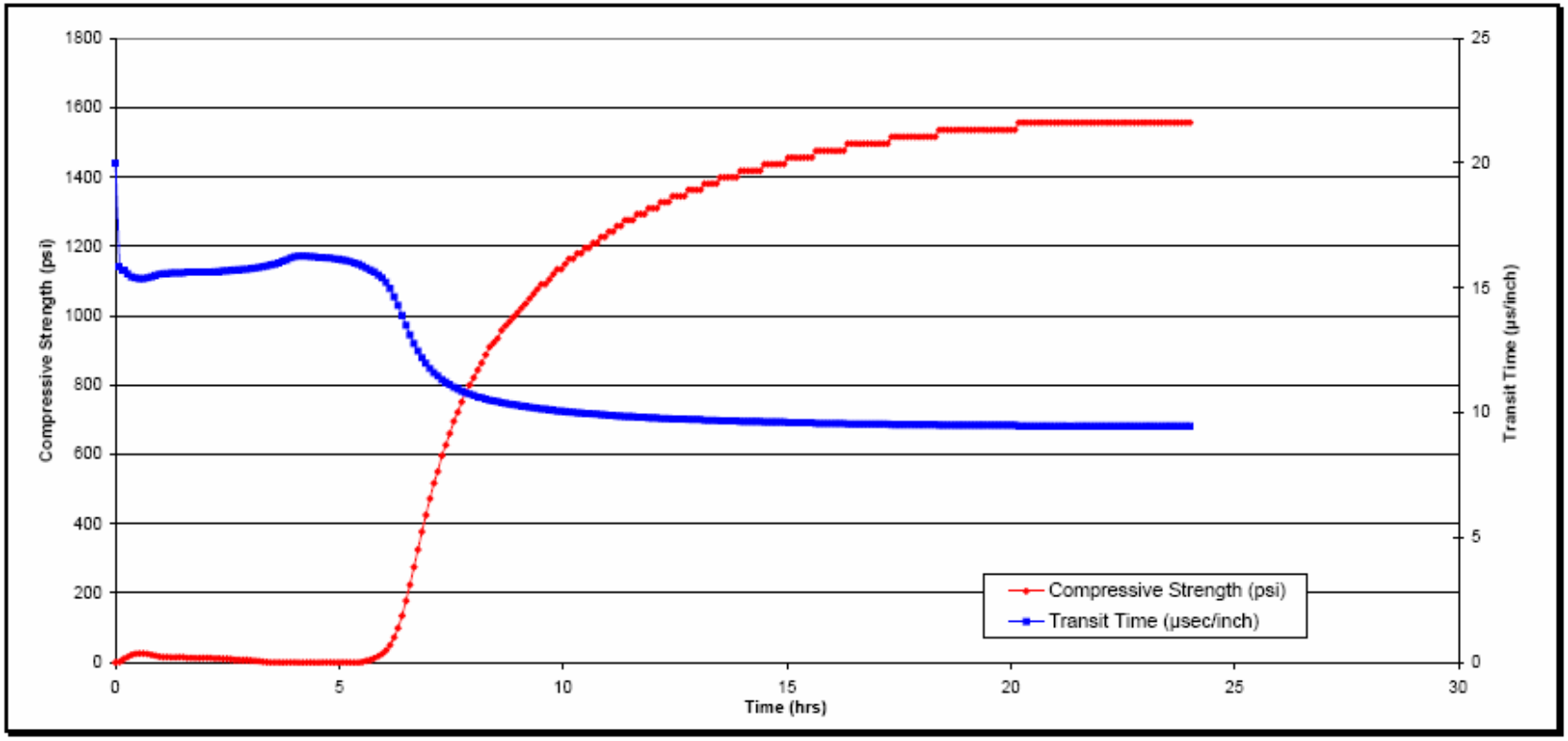
Project No	: LGT-08-08a	HALLIBURTON	Strength 1 (50psi)	:	6:07
Well Name/Job	: Longtom 4 Liner		Strength 2 (500psi)	:	7:04
Date	: 13/08/2008	ULTRASONIC CEMENT ANALYZER	Current strength (1557psi)	:	24:00
Pressure	: 3000psi			:	
Temperature	: 128°C/262°F				

Cement : ABC HTB & CFR-3L 3 gal/10bbl & SCR-100L 4.5 gal/10bbl & Gascon 469 16.0 gal/10bbl & Halad 413L 15.0 gal/10bbl & NF-6 0.25gal/10bbl & freshwater

Density –15.0ppg ▲ yield – 1.27cuft/sk ▲ Water – 5.24gal/sk ▲ Total Fluid – 5.78gal/sk



9.0 Summary, EJCS, Job Logs

9.1 30 inch casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

CEMENT CONDUCTOR CASING 14161

Prepared for Sean De Freitas

21/06/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		21 June 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		CEMENT CONDUCTOR CASING 14161			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 2.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 99%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 99%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy industry

Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	12	331198	Anthony Kelly	12				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A	24 inch Float shoe	1			

24in ppf Drill quip : 133m to 128m MD, m TVD
30in ppf Drill quip : 128m to 97m MD, 506.65m TVD

36in, 200 percent excess, 133m to 97m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	15.9ppg	WATER	5.12gal/sk	DENSITY	15.8ppg	WATER	5.12gal/sk	DENSITY	0.0ppg	WATER	0.00gal/sk
YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Seawater			WATER SOURCE	Drillwater			WATER SOURCE			
CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	at lb/sk		
Total Cement Used	33MT			Total Cement Used	7MT			Total Cement Used	MT		
Estimated TOC	m			Estimated TOC	m			Estimated TOC			

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Calcium Chloride	1 %BWOC	22sks	CFR-3L	3 gal/10bbl	6gals			
			SCR-100L	3 gal/10bbl	6gals			
			NF-6L	0.12 gal/10bbl	1			

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		21 June 2008

CEMENT/PUMPING JOB SUMMARY

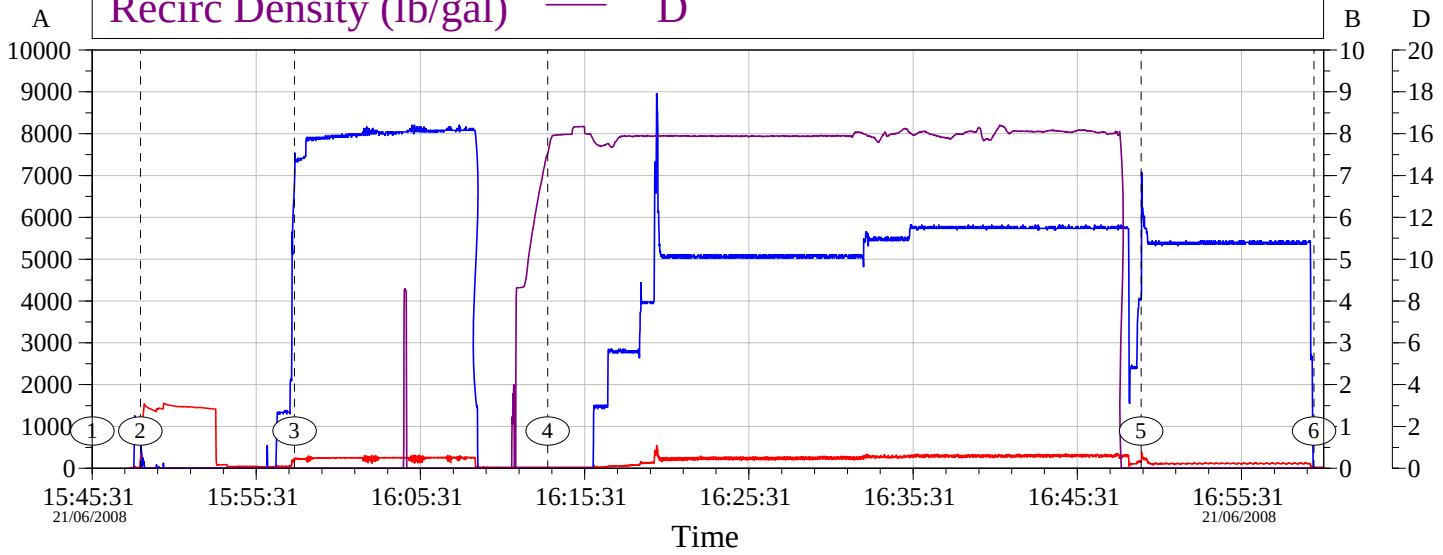
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
21/06/2008	15:00					JSA and Pre job safety Meetting
	15:45	10		50	5	Pump 10 BBL sea water
	15:48		1500			Pressure Test Lines to 1500PSI
	15:57	90		198	8	Pump 90 BBL of sea water @ 8 BPM
	16:13	168	200	23	6	Mix and Pump Cement @15.95
	16:49	57	118		5.1	Displace Cement with Sea water
	16:59					End Job, Check Flow back, Wash and Clean Up

Longtom # 4 Conductor



Event Log

	Intersection		PP		Intersection		PP
1	Pump 10 bbl sea water spacer	15:45:32	14.61	2	Pressure test lines	15:48:28	215.8
3	Pump 90 bbl sea water spacer	15:57:51	198.4	4	Mix and pump CMT 168 bbl @ 15.9 ppg	16:13:16	23.73
5	Displace with 57 bbl sea water	16:49:24	157.1	6	End job check flow back clean up	16:59:56	24.36

Customer:	Nexus	Job Date:	21/06/08
Well Description:	Longtom # 4	Job:	Conductor

TG Version G3.4.1
21-Jun-08 19:47

9.2 16in Casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

SURFACE CASING 7521

Prepared for Sean De Freitas/Stefan Schmidt

25/06/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		25 June 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		SURFACE CASING 7521			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 3.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 90%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 95%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy indu

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards)	**Exceeded Expectations** (Provided more than what was expected)	**Met expectations** (Did what was expected)	**Below expectations** (Did not do what was expected, recovery made) **Create CPI**	**Poor** (Job problems / failures occured) **Create CPI**
	5	4	3	2	1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	20	331198	Anthony Kelly	20				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A	16 inch Float shoe	1			

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
Non Tapered Casing , SSR, 0m shoe track		
16in ppf Drill quip : 97m to 750m MD, m TVD ###	22in, 50 percent excess, 33m to 755m	24in, ppf, 133m to 128m 30in, ppf, 128m to 97m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

	Lead			Tail			0		
DENSITY	12.5ppg	WATER	12.54gal/sk	15.8ppg	WATER	5.12gal/sk	0.0ppg	WATER	0.00gal/sk
YIELD	2.21cuft/ft	MIX FLUID	13.00gal/sk	1.16cuft/ft	MIX FLUID	5.12gal/sk	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Seawater			Drillwater					
CEMENT TYPE	ABC Class 'G' at 94lb/sk			ABC Class 'G' at 94lb/sk			at lb/sk		
Total Cement Used	60MT			50MT			MT		
Estimated TOC	97m			550m					

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Econolite Liquid	15 gal/10bbl	620gals	CFR-3L	3 gal/10bbl	42gals			
NF6	gal/10bbl	5gals						
			NF-6L	0.12 gal/10bbl	5			

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		25 June 2008

CEMENT/PUMPING JOB SUMMARY

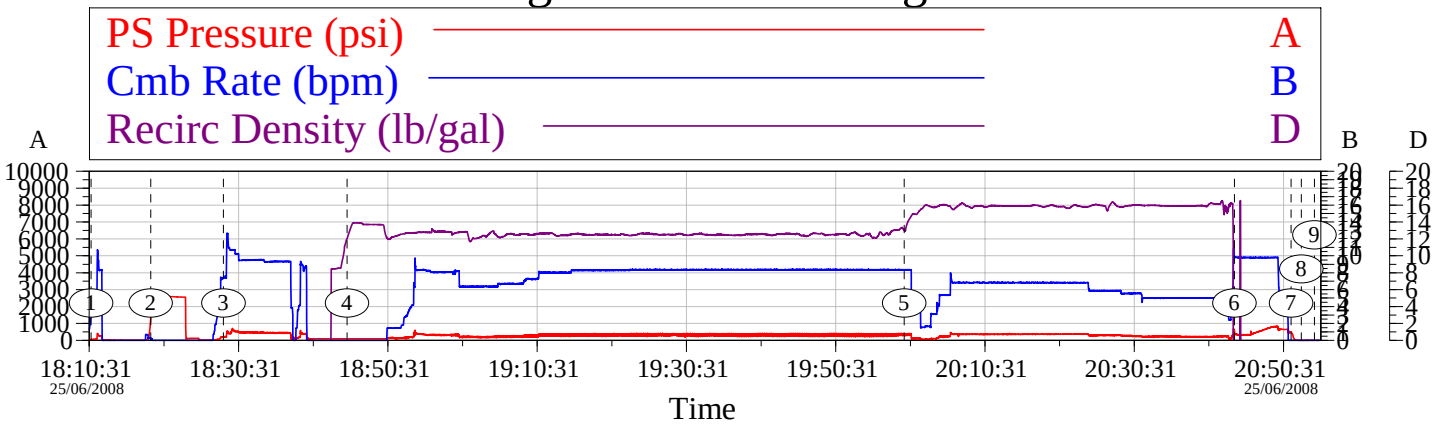
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
25/06/2008	17:45					Pre job safety meetting, and JSA with rig crew
	18:00					Rig up lines on rig floor
	18:10	10	180		8	Pump 10 BBL sea water spacer
	18:18		2500			Pressure Test Lines to 2500 PSI
	18:28	100	200		10	Pump 100 BBL of sea water @ 10 bpm
	18:45	525	300		8.4	Mix and pump lead cement 525 BBl @ 8.4 BPM
	19:59	235	250		7.2	Mix and Pump Tail cement 235 BBL @ 15.88 ppg
	20:43	66.9	690	300	10	displace with 66.9 bbl sea water @10 BPM
	20:52		590	590		End Displacment, Bleed off pressure and check Floats, 2.75 BBL returns
	20:54					End Job, Rig down rig Floor and wash up standpipe and cement unit
						Chemicals Used for Longtom 16 inch Surface
						107 MT of "G" Class cement
						650 Gallons Econolite Liquid (light weight addative)
						5 Gallons NF 6L (Defoamer)
						45 Gallons CFR-3 (Friction reducer)

Longtom # 4 16" Csg



Event Log

1	Pump 10 BBL sea water	18:10:45
2	Pressure Test Lines to 2500 PSI	18:18:45
3	Pump 100 BBL sea water	18:28:29
4	Mix and Pump Lead 525 BBL cement @ 12.5 ppg	18:45:03
5	Mix and Pump Tail 235 BBl cement @15.8 ppg	19:59:41
6	Displace with 66.9 BBL sea water	20:43:56
7	End Displacing and Check Floats	20:51:31
8	Floats holding 2.75 bbl Bled back	20:52:54
9	End Job, RIg down Floor and wash up	20:54:39

Customer:	ADA Nexus	Job Date:	25/6/08
Well Description:	Longtom #4	Job:	16 inch Surface

TG Version G3.4.1
25-Jun-08 23:12

9.3 10 ¾ Casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom-4

Rig: West Triton

INTERMEDIATE CASING 7522

Prepared for Sean Defreitas

16/07/2008

Prepared by John Hargreaves

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		16 July 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom-4	Bass Strait	Australia	John Hargreaves	Sean Defreitas	Gas & Oil Dev
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		INTERMEDIATE CASING 7522		Perth	West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 48.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 1hr 15min
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME: None
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump) 1

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) YES
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 98%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 98%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES None
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION None
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES None
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy industry

Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126881	John Hargreaves	48	386793	Robert Bridgman	48				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITAN	48			
10960844	SKD CMS - WEST TRITAN	48			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	CASING ATTACHMENTS	QTY	SAP#	OTHER	QTY
				Foam Wiper ball 7"	1

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
Non Tapered , , 0m shoe track		
10 3/4"in 55.5ppf L-80 Tenaris Blue : 2590m to 93.97m MD, m TV	13.5in, 30 percent excess, 750m to 2591m	16in, 75ppf, 93.97m to 750m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with 28.8m of 2.875in 6.4ppf Stinger

CEMENT DESIGN

Spacer				Single				0			
DENSITY	13.5ppg	**WATER**	0.00gal/sk	**DENSITY**	15.8ppg	**WATER**	4.89gal/sk	**DENSITY**	0.0ppg	**WATER**	0.00gal/sk
YIELD	0.00cuft/ft	**MIX FLUID**	0.00gal/sk	**YIELD**	1.16cuft/ft	**MIX FLUID**	5.15gal/sk	**YIELD**	0.00cuft/ft	**MIX FLUID**	0.00gal/sk
WATER SOURCE	Drillwater			**WATER SOURCE**	Drillwater			**WATER SOURCE**			
CEMENT TYPE	at lb/sk			**CEMENT TYPE**	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	at lb/sk		
Total Cement Used	sks			**Total Cement Used**	968sks			**Total Cement Used**	MT		
Estimated TOC	m			**Estimated TOC**	m			**Estimated TOC**	m		

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Tuned Spacer E+	13.8 lb/bbl	690lbs	Halad-413L	15 gal/10bbl	225gals			
Musol E	1 gal/bbl	50gals	CFR-3L	3 gal/10bbl	40gals			
Sem 7	0.7 gal/bbl	35gals	SCR-100L	3.5 gal/10bbl	45gals			
Barite	274.56 lb/bbl	13728lbs						

END OF JOB DETAILS

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		16 July 2008

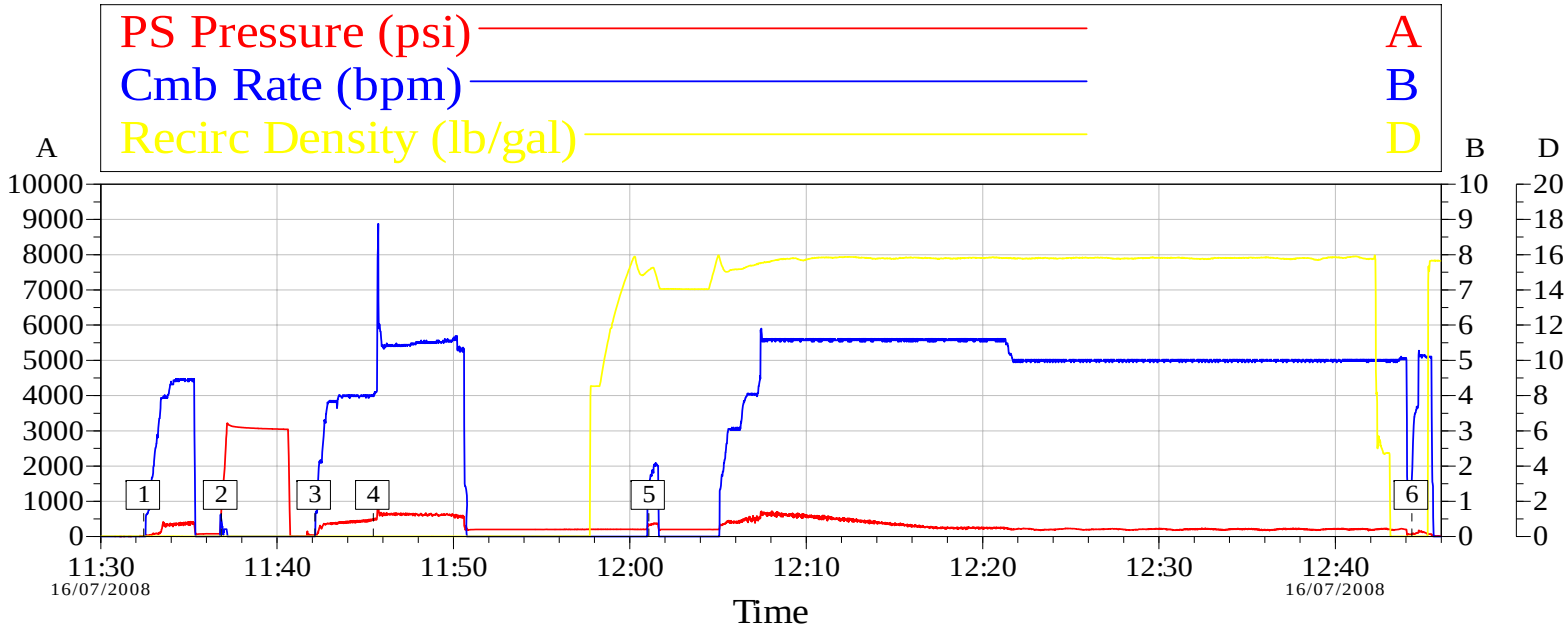
CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Gas & Oil Dev	Bass Strait	Australia	John Hargreaves	Sean Defreitas	Gas & Oil Dev

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	INTERMEDIATE CASING 7522	Perth	West Triton

JOB LOGS

DATE	TIME	VOLUME	PRESSURE (psi)		RATE	JOB DESCRIPTION
DAY-MTH-YR	HRS:MIN	BBLS	HIGH	LOW	BPM	REMARKS/DETAILS
15/07/2008	11:00					John Hargreaves arrive West Triton Platform.Check special Tools and cmting equipment
						Prepare to run 10 3/4" RTTS set and cmt 5 1/2" Dp and 3 joints of 2 7/8" Tubing.
16/07/2008						Rig rih with 3 Jnts 2 7/8" Tubing and 2440m of 5 1/2" DP
	7:00					Pick up and make 10 3/4" RTTS on DP and rih to 140m
	8:25					Pick up 219K , Slack Off 195K Set RTTS at 140M with 150k on RTTS ,Rig commence to
						circulate well ,Mud weight 12.1ppg, Circulation rate 14BPM at 1300psi .
						Total Circulated 1350BBL sythetic Mud.
	10:28					Rig ready to unseat Rtts and make up cmthead assembly.
						Pick up 100K and wait for 2 minutes.Pick up to 190K and wait 2 minutes ,pick up to 210K
	10:40					wait 2 minutes ,pick up and unseat RTTS .
						Rig go ahead and make up CMT head assembly for Cmt job.
	10:55					Pick up on RTTS 216K slack off 193K, Rih Rtts to set end of tubing at 2500m
	11:00					Set RTTS with 112K on Packer
	11:00					Hold pre job cmt safety with Rig Crew
	11:35	10	450		5	Pump 10 BBL Freshwater
	11:36					Pressure Test lines to 3000psi
	11:42	10	450		5	Pump 10 BBL Freshwater
	11:45	30	500		5.5	Pump 30BBL Tuned Spacer
	12:01	200	650		5	Mix and Pump 200BBL Cmt Slurry @ 15.8ppg
						Had to stop pumping at at start of due to Barge Engineer didn't provide cmt to Steadyflow
						bin,
	12:44	5	100		5	Displace 5BBL Freshwater .
						Hand over to rigs to Displace 183BBL Final displacement Pressure = 430psi.
						Lock Pressure in and WOC.
16/07/2008	23:42					Unseat RTTS and come out of hole
						See Special Tools Job log for RTTS rih.
						Robert Bridgeman Leave West Triton
						Chemicals for on Cmt job.
						225gal = Halad 413L
						45gal = SCR-100
						40gal = CRF3L
						650Lbs = Tunedspacer
						50gal = Muslol
						35gal = Sem7



Event Log

1	Pump 10 BBL Freshwater Spacer	11:32:27
2	Pressure test Lines	11:36:50
3	Pump 10 BBL Freshwater Spacer	11:42:08
4	Pump 30 BBL Tuned Spacer	11:45:27
5	Mix and Pump 200BBL Cmt Slurry	12:01:04
6	Displace 5 BBL Freshwater	12:44:21

Customer:	Nexus	Job Date:	16/7/08
Well Description:	LongTom-4	Job:	Cmt 10 3/4"casing

CemWin v1.7.2
17-Jul-08 15:40

9.4 KOP

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4 P

Rig: West Triton

Kick off Plug

Prepared for Bill Openshaw

31/07/2008

Prepared by Miro Petrovic

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		31 July 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4 P	Bass Strait	Australia	Miro Petrovic	Bill Openshaw	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		Kick off Plug			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 12.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 3.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 100%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 100%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

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Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs
332193	Miroslav Petrovich	12	386793	Robert Bridgman	12	126881	John Hargreaves	12		

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A		1			
SAP#	**CASING ATTACHMENTS**	**QTY**	**SAP#**	**OTHER**	**QTY**
				7" Drill pipe wiper foam ball	2
			484904	2" CST with DART	1

in ppf : m to m MD, m TVD	9.5in, 10 percent excess, 2740m to 2565m	
in ppf : m to m MD, m TVD		

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	16.5ppg	**WATER**	4.31gal/sk	**DENSITY**	15.8ppg	**WATER**	5.12gal/sk	**DENSITY**	0.0ppg	**WATER**	0.00gal/sk
YIELD	1.06cuft/ft	**MIX FLUID**	4.39gal/sk	**YIELD**	1.16cuft/ft	**MIX FLUID**	5.12gal/sk	**YIELD**	0.00cuft/ft	**MIX FLUID**	0.00gal/sk
WATER SOURCE	Fresh Water			**WATER SOURCE**	Drillwater			**WATER SOURCE**			
CEMENT TYPE	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	at lb/sk		
Total Cement Used	12.4MT			**Total Cement Used**	7MT			**Total Cement Used**	MT		
Estimated TOC	2700m			**Estimated TOC**	m			**Estimated TOC**			
Additive	**Concentration**	**Total Used**		**Additive**	**Concentration**	**Total Used**		**Additive**	**Concentration**	**Total Used**	
CFR-3	3 gal/10bbl	9gals		CFR-3L	3 gal/10bbl	6gals					
SCR-100L	4 gal/10bbl	12gals		SCR-100L	3 gal/10bbl	6gals					
				NF-6L	0.12 gal/10bbl	1					

END OF JOB DETAILS

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		31 July 2008

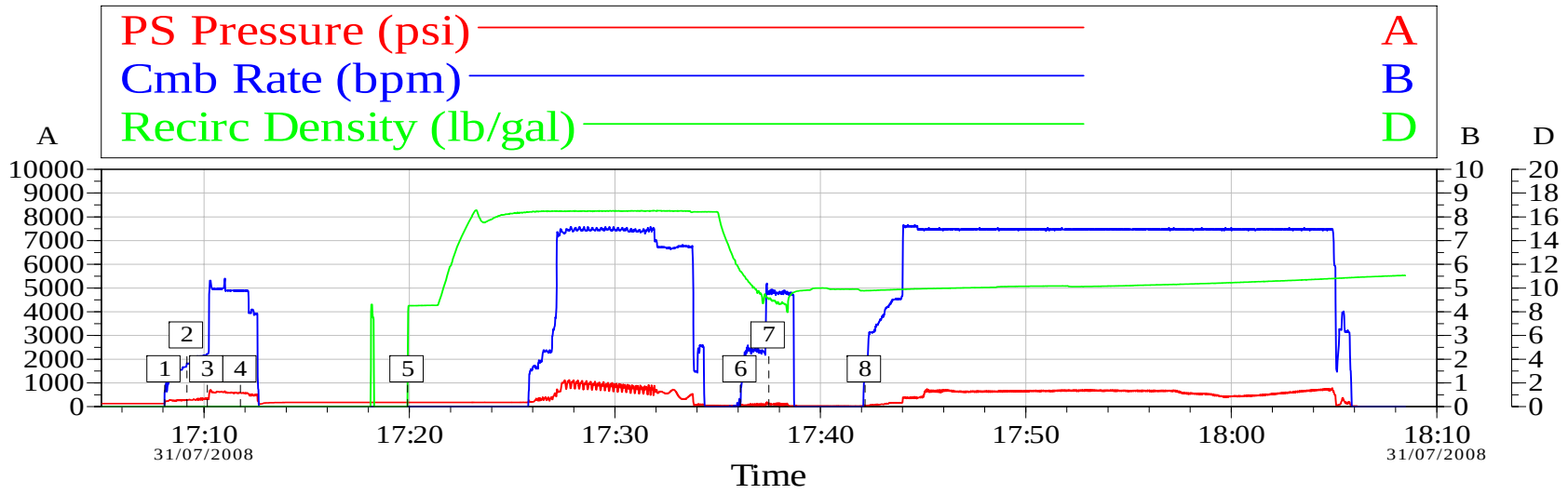
CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Miro Petrovic	Bill Openshaw	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
31/07/2008						Run in hole 17 joints 2 7/8 cement stinger on 5 1/2 drill pipe
	14:20	180	0	0	0	Insert foam ball into string and circulate 180Bbls (Used Rig Pumps)
	15:10					Install CST into drill pipe with Dart
	15:24	185	0	690	7	Displace Cst and dart with 185Bbls SBM making sure it has left the end of stinger
	17:09	5	0	70	5	Pump 5 Bbls Fresh water
	17:10	0.25	0	1000	0.25	Pressure test @ 1000Psi
	17:11	5	0	70	5	Pump 5 Bbls Fresh water
	17:15	15	0	150	5	Pump 15 Bbls Tuned spacer E+
	17:20	52	0	459	5	Mix and Pump 52Bbls @ 16.5 Cement Slurry
	17:36	5	0	678	5	Pump 5 Bbls Tuned spacer E +
	17;37	3.5	0	690	5	Punp 3.5 Bbls Fresh water
	17:43	165	690	0	8	Displace Cement with 165 Bbls SBM from Displacement tanks
						Chemicals Used Mix Water + Cement
						1- CFR-3L 9gals/10Bbls -------- Mix Water Fresh 30Bbls
						2-SCR-100L 12gals/10Bbls
						3-Cement 12.4 Mt
						Chemicals Used For Tuned Spacer E +
						1 -Water Fresh 23Bbls
						2-Tuned Spacer E + 414 lb =9 Sks
						3-Barite 8,245 lb
						4-Musol 30gals
						5-Sem 7 21gals
						2 x 7" Drill Pipe Wiper Balls
						1 x CST & Dart Part # 00003750



Event Log

1	Pump 5 BBL SPM Mud	17:08:05
2	Pump 5 BBL Freshwater	17:09:10
3	Pressure test Lines	17:10:10
4	Pump 5 BBL Freshwater	17:11:46
5	Mix & 52BBL Cmt Slurry @ 16.5ppg	17:19:55
6	Displace 5BBL Tuned Spacer	17:36:07
7	Displace 3.5BBL Freshwater	17:37:29
8	Displace 165BBL SPM Mud	17:42:10

Customer: Nexus	Job Date: 31/7/08
Well Description: Longtom-4	Job: Kickoff plug

CemWin v1.7.2
01-Aug-08 10:24

9.5 7 inch Liner

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

CEMENT LINER 14113

Prepared for Sean De Freitas/Stefan Schmidt

17/08/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		17 August 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		CEMENT LINER 14113			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 4.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 2

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Remedial
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 100%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 100%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

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Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	24	332193	Miroslav Petrovich	24	#N/A	Peter Baates	24		

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
	Backer floats 7 inch				

7in 26ppf : 2570m to 4648m MD, m TVD	9.5in, 0 percent excess, 2590m to 4648m, Caliper = 138bbls	10.75in, ppf, 97m to 2590m 24in, ppf, 133m to 128m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	15.0ppg	WATER	5.32gal/sk	DENSITY	15.8ppg	WATER	5.12gal/sk	DENSITY	0.0ppg	WATER	0.00gal/sk
YIELD	1.27cuft/ft	MIX FLUID	5.77gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Drillwater			WATER SOURCE	Drillwater			WATER SOURCE			
CEMENT TYPE	HTB at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	at lb/sk		
Total Cement Used	MT			Total Cement Used	50MT			Total Cement Used	MT		
Estimated TOC	97m			Estimated TOC	550m			Estimated TOC			

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Halad-413L	15 gal/10bbl	130gals	CFR-3L	3 gal/10bbl	42gals			
Gascon-469	16 gal/10bbl	135gals						
CFR-3L	3 gal/10bbl	28gals	NF-6L	0.12 gal/10bbl	5			
SCR-100L	4 gal/10bbl	35gals						
NF6	0.1 gal/bbl	5gals						

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		17 August 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
17/08/2008	3:10					JSA, Pre Job safety Meetting with rig crew
	4:17	5	400	200	4	pump 5 bbl of drill water
	4:20		3200			Ptressure test lines to 3200 psi
	4:28	25	600		5	pump 25 bbl of drill water
	4:35	60	1500		4.8	Pump 60 BBL of tune spacer
	4:55	138	2000		5.4	Mix and pump 138 BBL @ 15 lb/gal
	5:30	10	1800		6	Pump 10 BBl drill water
	5:32	230.5	2894		8	Displace with SBM @8 BPM
	6:00		0			End Job and bleed off, 2 BBL flow back
	6:30					Wash up cement unit,
	9:30					stand down
						Chemicals used on job
						Cement HTB 620sx, 27 MT
						Halad 413====130 gallons
						Gascon=====140 gallons
						CFR-3L=====25 gallons
						SCR100L====40 Gallons

FIT / LOT TEST RESULTS.

Australian Drilling Associates Pty Ltd ADA

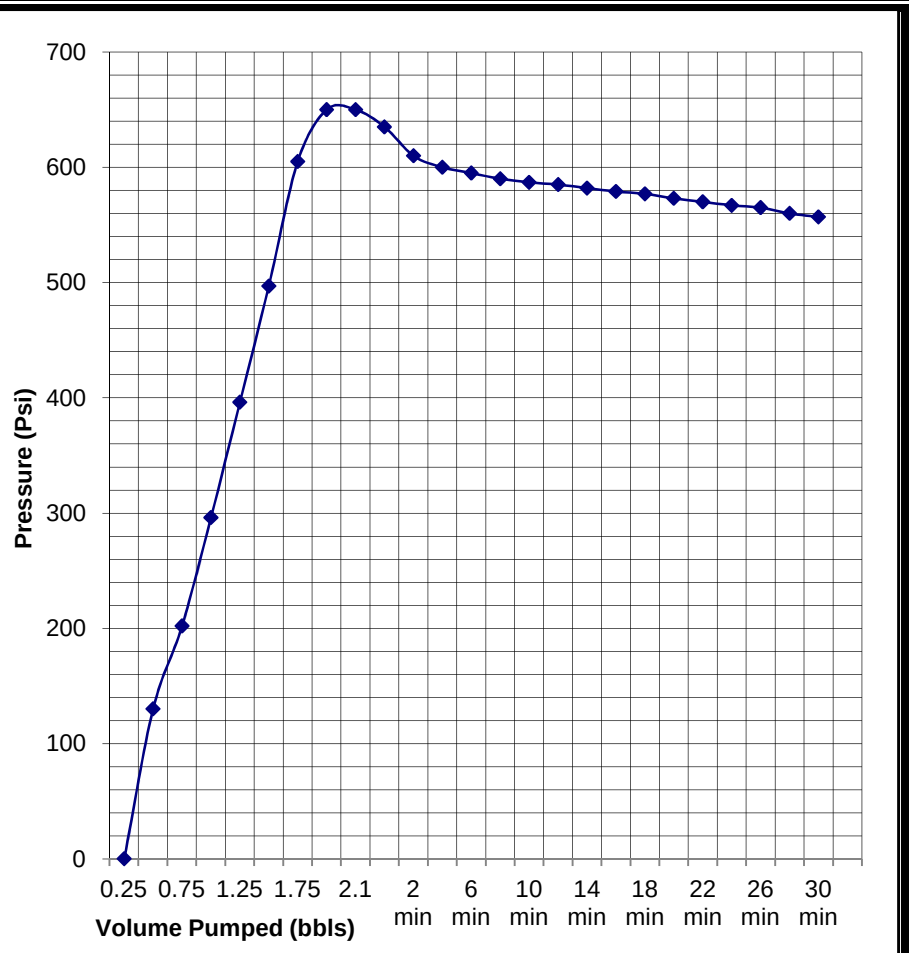
FIT / LOT DATA					
TEST DATE:	28/06/2008	WELL #:	Longtom-4	CLIENT:	Nexus

CASING DATA				TEST MUD DATA	
CASING SIZE	CASING GRADE	SHOE TVD (M)	SHOE MD (M)	WEIGHT (PPG)	VISCOSITY (SEC)
16"	L80	750	750	8.6	32

INDICATE TYPE OF TEST:	FIT:	☐	LOT:	☑

LEAK OFF OR FIT TEST PRESSURE (PSI):	EQUIVALENT MUD WEIGHT (PPG):	MAX. MUD WEIGHT (PPG):	VOLUME PUMPED (BBLS):	VOLUME RETURNED (BBLS):
650	5.08	13.68	2.1	2

SURFACE PRESSURE (PSI):	VOLUME PUMPED (BBLS):
0	0.25
130	0.5
202	0.75
296	1
396	1.25
497	1.5
605	1.75
650	2
650	2.1
635	0 min
610	2 min
600	4 min
595	6 min
590	8 min
587	10 min
585	12 min
582	14 min
579	16 min
577	18 min
573	20 min
570	22 min
567	24 min
565	26 min
560	28 min
557	30 min



PRESENT DAY INFO.				
DATE:	DEPTH (M):		MUD:	
	MD:	TVD:	WEIGHT (PPG):	VISCOSITY (SEC):
23/02/2008	750	750	8.6	32

MAASP = 650

COMMENTS:	

Australian Drilling Associates Pty Ltd ADA

LOT/FIT FORM

Well: Longtom - 4 P **Rig:** West Triton **Date** 25-Jul-08

Test (FIT/LOT): **FIT**

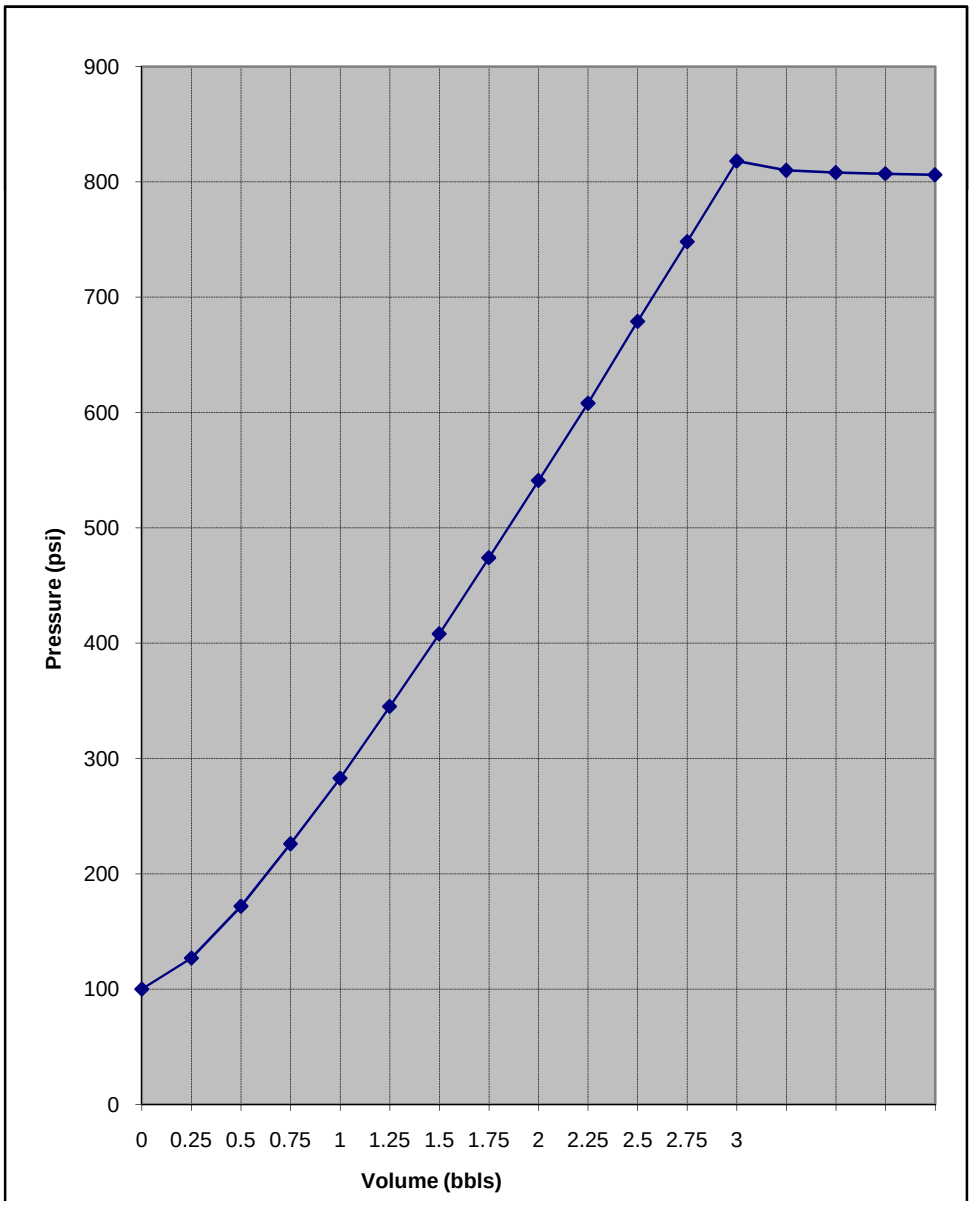
Mud Properties		Well Depth (m)	2600	Vol pumped (bbls)	3
Weight (ppg)	11.95	Well TVD (m)	2351	Vol lost (bbls)	0
PV (cp)	15	Casing size	10 3/4	Pressure(psi)	818
YP(lb/100sq.ft)	27	Shoe Depth (m)	2337.6	Pump rate(bbls/min)	0.25
FL (cc)		Min.Burst (psi)	3,450	FIT/LOT-sg (EMW)*	**14.00**

*FIT/LOT(EMW ppg) = Applied Pressure (psi) / Shoe Depth (m) x 0.171 + Mud weight

Time	Vol (bbls)	Ps (psi)
	0	100
	0.25	127
	0.5	172
	0.75	226
	1	283
	1.25	345
	1.5	408
	1.75	474
	2	541
	2.25	608
	2.5	679
	2.75	748
ISP	3	818
1min		810
2min		808
3min		807
4min		806
5min		805
6min		804
7min		803
8min		802

Ps = Surface pressure

Pumped 3.0 bbls,
Returned 3.0 bbls



Schlumberger

Longtom-4 H Geodetic Survey

Report Date:	September 1, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	Nexus Energy	**Vertical Section Azimuth:**	183.550°
Field:	Nexus Energy	**Vertical Section Origin:**	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	**TVD Reference Datum:**	RKB
Well:	Longtom-4	**TVD Reference Elevation:**	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4 H	**Sea Bed / Ground Level Elevation:**	-56.000 m relative to Least Astronomic Tide
UWI/API#:		**Magnetic Declination:**	13.100°
Survey Name / Date:	Longtom-4 H / August 4, 2008	**Total Field Strength:**	59793.690 nT
Tort / AHD / DDI / ERD ratio:	251.772° / 2838.81 m / 6.607 / 1.053	**Magnetic Dip:**	-68.583°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	August 04, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	**Magnetic Declination Model:**	BGGM 2007
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.82288813°	**Total Corr Mag North -> Grid North:**	+13.923°
Grid Scale Factor:	0.99976830	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth Grid (deg)	TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5781704.50	616897.31	S 38 6 17.707	E 148 19 59.944
Sea Bed	97.03	0.00	0.00	97.03	0.00	0.00	0.00	0.00	5781704.50	616897.31	S 38 6 17.707	E 148 19 59.944
	116.15	0.69	328.34	116.15	-0.09	0.10	-0.06	1.08	5781704.60	616897.25	S 38 6 17.704	E 148 19 59.942
	124.06	0.56	358.29	124.06	-0.17	0.18	-0.09	1.31	5781704.68	616897.22	S 38 6 17.701	E 148 19 59.941
	147.44	0.36	43.93	147.44	-0.34	0.34	-0.04	0.52	5781704.84	616897.27	S 38 6 17.696	E 148 19 59.942
	204.75	0.52	335.69	204.75	-0.71	0.71	-0.02	0.27	5781705.21	616897.29	S 38 6 17.684	E 148 19 59.943
	324.05	0.78	189.14	324.04	-0.38	0.40	-0.37	0.31	5781704.90	616896.94	S 38 6 17.694	E 148 19 59.929
	382.91	0.23	326.57	382.90	-0.07	0.11	-0.50	0.49	5781704.60	616896.81	S 38 6 17.704	E 148 19 59.924
	412.77	0.34	250.06	412.76	-0.09	0.13	-0.62	0.37	5781704.62	616896.69	S 38 6 17.703	E 148 19 59.919
	442.90	0.19	118.87	442.89	-0.03	0.07	-0.66	0.48	5781704.57	616896.65	S 38 6 17.705	E 148 19 59.917
	531.83	0.85	328.15	531.82	-0.50	0.56	-0.88	0.34	5781705.06	616896.43	S 38 6 17.689	E 148 19 59.908
	563.30	0.97	289.41	563.29	-0.77	0.85	-1.25	0.59	5781705.35	616896.06	S 38 6 17.680	E 148 19 59.892
	651.66	0.44	355.43	651.64	-1.31	1.43	-1.98	0.30	5781705.93	616895.33	S 38 6 17.662	E 148 19 59.862
	741.14	0.59	334.49	741.12	-2.05	2.19	-2.21	0.08	5781706.69	616895.10	S 38 6 17.637	E 148 19 59.852
	750.39	0.71	327.45	750.37	-2.14	2.28	-2.26	0.47	5781706.78	616895.05	S 38 6 17.634	E 148 19 59.850
	783.28	0.52	304.12	783.25	-2.38	2.54	-2.49	0.28	5781707.04	616894.82	S 38 6 17.626	E 148 19 59.840
	812.94	2.32	203.29	812.91	-1.88	2.06	-2.84	2.50	5781706.56	616894.47	S 38 6 17.642	E 148 19 59.826
	842.62	5.16	197.97	842.52	-0.02	0.24	-3.49	2.89	5781704.74	616893.82	S 38 6 17.701	E 148 19 59.801
	872.25	7.16	192.11	871.98	3.09	-2.83	-4.29	2.12	5781701.67	616893.02	S 38 6 17.801	E 148 19 59.770
	901.94	8.22	183.91	901.40	7.04	-6.76	-4.82	1.54	5781697.74	616892.49	S 38 6 17.929	E 148 19 59.750
	931.42	10.19	179.91	930.50	11.76	-11.47	-4.96	2.11	5781693.03	616892.35	S 38 6 18.081	E 148 19 59.747
	960.94	13.95	179.75	959.36	17.91	-17.64	-4.94	3.82	5781686.86	616892.37	S 38 6 18.282	E 148 19 59.752
	990.68	17.52	178.95	987.98	25.96	-25.70	-4.85	3.61	5781678.80	616892.46	S 38 6 18.543	E 148 19 59.760
	1020.40	20.88	177.48	1016.05	35.68	-35.47	-4.53	3.43	5781669.04	616892.78	S 38 6 18.860	E 148 19 59.779
	1050.08	24.28	176.64	1043.45	47.00	-46.85	-3.94	3.45	5781657.66	616893.37	S 38 6 19.228	E 148 19 59.810
	1078.64	25.70	178.42	1069.33	59.00	-58.90	-3.43	1.69	5781645.61	616893.88	S 38 6 19.619	E 148 19 59.838
	1108.28	26.85	180.79	1095.91	72.09	-72.02	-3.34	1.58	5781632.49	616893.97	S 38 6 20.044	E 148 19 59.850
	1137.39	27.64	182.43	1121.79	85.41	-85.34	-3.72	1.12	5781619.18	616893.59	S 38 6 20.476	E 148 19 59.842
	1166.97	28.48	183.83	1147.89	99.32	-99.23	-4.48	1.08	5781605.29	616892.83	S 38 6 20.927	E 148 19 59.819
	1196.40	29.46	184.58	1173.64	113.57	-113.45	-5.53	1.07	5781591.08	616891.78	S 38 6 21.389	E 148 19 59.784
	1225.95	30.16	185.46	1199.28	128.26	-128.08	-6.81	0.84	5781576.45	616890.50	S 38 6 21.864	E 148 19 59.740
	1255.99	29.83	185.82	1225.30	143.27	-143.03	-8.29	0.38	5781561.50	616889.02	S 38 6 22.349	E 148 19 59.688
	1285.37	30.03	186.70	1250.76	157.91	-157.60	-9.89	0.49	5781546.94	616887.42	S 38 6 22.823	E 148 19 59.631
	1315.16	31.09	187.90	1276.41	173.02	-172.62	-11.81	1.23	5781531.92	616885.50	S 38 6 23.311	E 148 19 59.561
	1344.99	31.21	187.53	1301.94	188.41	-187.91	-13.89	0.23	5781516.63	616883.43	S 38 6 23.807	E 148 19 59.485
	1374.68	30.42	184.92	1327.44	203.60	-203.03	-15.54	1.57	5781501.52	616881.77	S 38 6 24.298	E 148 19 59.426
	1404.59	30.04	183.00	1353.28	218.66	-218.05	-16.58	1.04	5781486.50	616880.73	S 38 6 24.786	E 148 19 59.392
	1433.94	31.67	182.29	1378.48	233.71	-233.08	-17.27	1.71	5781471.47	616880.04	S 38 6 25.274	E 148 19 59.373
	1463.79	30.65	181.20	1404.02	249.14	-248.52	-17.75	1.17	5781456.03	616879.57	S 38 6 25.775	E 148 19 59.362
	1493.62	30.04	180.72	1429.77	264.20	-263.59	-18.00	0.66	5781440.97	616879.31	S 38 6 26.264	E 148 19 59.361
	1523.35	30.08	180.58	1455.50	279.07	-278.48	-18.17	0.08	5781426.08	616879.15	S 38 6 26.747	E 148 19 59.363
	1553.11	30.38	181.81	1481.21	294.04	-293.46	-18.48	0.69	5781411.11	616878.83	S 38 6 27.232	E 148 19 59.359
	1583.05	30.31	183.44	1507.05	309.16	-308.57	-19.17	0.83	5781396.00	616878.14	S 38 6 27.723	E 148 19 59.339
	1612.84	30.34	184.08	1532.76	324.20	-323.58	-20.16	0.33	5781381.00	616877.15	S 38 6 28.210	E 148 19 59.308
	1642.12	30.48	183.53	1558.01	339.03	-338.37	-21.14	0.32	5781366.21	616876.17	S 38 6 28.690	E 148 19 59.276
	1671.81	30.16	182.75	1583.64	354.01	-353.33	-21.96	0.51	5781351.25	616875.35	S 38 6 29.176	E 148 19 59.251
	1701.38	29.96	181.97	1609.24	368.82	-368.13	-22.57	0.45	5781336.45	616874.74	S 38 6 29.656	E 148 19 59.235
	1730.84	30.49	182.20	1634.69	383.65	-382.95	-23.11	0.55	5781321.64	616874.20	S 38 6 30.137	E 148 19 59.221

	1760.64	30.44	183.16	1660.38	398.75	-398.04	-23.82	0.49	5781306.55	616873.49	S 38 6 30.627	E 148 19 59.201
	1790.34	29.76	183.49	1686.07	413.65	-412.91	-24.68	0.71	5781291.68	616872.63	S 38 6 31.109	E 148 19 59.175
	1820.04	29.12	183.26	1711.94	428.25	-427.48	-25.54	0.66	5781277.11	616871.77	S 38 6 31.582	E 148 19 59.148
	1849.86	28.05	182.80	1738.12	442.51	-441.73	-26.30	1.10	5781262.87	616871.02	S 38 6 32.044	E 148 19 59.125
	1879.39	28.45	182.54	1764.13	456.49	-455.69	-26.95	0.43	5781248.91	616870.37	S 38 6 32.498	E 148 19 59.107
	1909.08	29.18	181.91	1790.15	470.79	-469.99	-27.50	0.80	5781234.62	616869.81	S 38 6 32.962	E 148 19 59.092
	1938.97	29.25	182.37	1816.24	485.38	-484.57	-28.05	0.24	5781220.04	616869.27	S 38 6 33.435	E 148 19 59.079
	1968.51	27.81	181.63	1842.19	499.48	-498.67	-28.54	1.51	5781205.94	616868.77	S 38 6 33.892	E 148 19 59.067
	1998.05	27.26	181.66	1868.38	513.13	-512.32	-28.94	0.56	5781192.30	616868.38	S 38 6 34.335	E 148 19 59.059
	2028.03	26.98	181.70	1895.07	526.79	-525.98	-29.34	0.28	5781178.64	616867.98	S 38 6 34.778	E 148 19 59.050
	2057.68	29.01	184.81	1921.25	540.70	-539.87	-30.14	2.53	5781164.75	616867.18	S 38 6 35.229	E 148 19 59.025
	2087.27	29.58	188.03	1947.05	555.16	-554.25	-31.76	1.70	5781150.37	616865.56	S 38 6 35.696	E 148 19 58.967
	2116.78	29.55	188.02	1972.72	569.67	-568.67	-33.79	0.03	5781135.96	616863.52	S 38 6 36.165	E 148 19 58.892
	2146.82	30.97	187.12	1998.67	584.77	-583.68	-35.78	1.49	5781120.96	616861.53	S 38 6 36.652	E 148 19 58.820
	2176.36	31.76	185.57	2023.89	600.13	-598.96	-37.48	1.15	5781105.68	616859.84	S 38 6 37.148	E 148 19 58.759
	2206.21	31.48	183.82	2049.31	615.77	-614.55	-38.76	0.96	5781090.09	616858.55	S 38 6 37.655	E 148 19 58.715
	2235.88	31.35	183.41	2074.63	631.24	-629.99	-39.74	0.25	5781074.66	616857.58	S 38 6 38.156	E 148 19 58.685
	2265.38	32.11	184.62	2099.72	646.75	-645.46	-40.83	1.01	5781059.19	616856.49	S 38 6 38.658	E 148 19 58.649
	2295.93	31.69	185.04	2125.66	662.89	-661.55	-42.19	0.47	5781043.10	616855.13	S 38 6 39.180	E 148 19 58.603
	2325.11	33.21	184.84	2150.28	678.54	-677.15	-43.53	1.57	5781027.51	616853.79	S 38 6 39.687	E 148 19 58.557
	2355.31	35.92	185.28	2175.15	695.67	-694.21	-45.05	2.70	5781010.45	616852.27	S 38 6 40.241	E 148 19 58.505
	2385.09	36.82	184.07	2199.13	713.32	-711.81	-46.48	1.16	5780992.85	616850.84	S 38 6 40.812	E 148 19 58.456
	2413.59	37.70	183.21	2221.81	730.58	-729.03	-47.58	1.08	5780975.64	616849.74	S 38 6 41.371	E 148 19 58.421
	2472.44	42.55	182.99	2266.80	768.49	-766.89	-49.62	2.47	5780937.79	616847.70	S 38 6 42.600	E 148 19 58.359
	2502.19	45.34	182.77	2288.21	789.13	-787.51	-50.66	2.82	5780917.17	616846.66	S 38 6 43.269	E 148 19 58.329
	2531.76	48.61	183.24	2308.39	810.75	-809.09	-51.80	3.34	5780895.59	616845.52	S 38 6 43.970	E 148 19 58.295
	2561.19	50.89	182.57	2327.40	833.21	-831.52	-52.93	2.38	5780873.17	616844.39	S 38 6 44.698	E 148 19 58.262
	2578.22	52.52	183.03	2337.96	846.57	-844.87	-53.59	2.94	5780859.82	616843.74	S 38 6 45.131	E 148 19 58.243
	2621.57	53.72	182.84	2363.97	881.24	-879.50	-55.36	0.84	5780825.20	616841.96	S 38 6 46.255	E 148 19 58.190
	2651.30	53.37	183.55	2381.64	905.16	-903.38	-56.69	0.68	5780801.33	616840.63	S 38 6 47.030	E 148 19 58.150
	2681.00	52.50	184.22	2399.54	928.85	-927.02	-58.30	1.03	5780777.69	616839.02	S 38 6 47.797	E 148 19 58.098
Tie-In	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	1.09	5780754.12	616837.23	S 38 6 48.563	E 148 19 58.038
	2733.77	49.85	181.87	2432.46	970.08	-968.16	-61.08	3.40	5780736.57	616836.24	S 38 6 49.132	E 148 19 58.008
	2763.58	51.38	177.62	2451.38	993.06	-991.19	-60.97	3.65	5780713.54	616836.35	S 38 6 49.879	E 148 19 58.026
	2792.31	53.01	176.31	2468.99	1015.61	-1013.85	-59.76	2.02	5780690.88	616837.56	S 38 6 50.614	E 148 19 58.089
	2820.01	54.07	176.82	2485.45	1037.72	-1036.09	-58.43	1.23	5780668.65	616838.89	S 38 6 51.334	E 148 19 58.157
	2850.81	54.91	179.97	2503.35	1062.69	-1061.15	-57.73	2.63	5780643.60	616839.59	S 38 6 52.146	E 148 19 58.200
	2881.69	57.25	185.74	2520.59	1088.29	-1086.72	-59.02	5.18	5780618.03	616838.30	S 38 6 52.976	E 148 19 58.162
	2911.49	62.80	188.17	2535.47	1114.04	-1112.33	-62.16	5.97	5780592.43	616835.16	S 38 6 53.808	E 148 19 58.048
	2941.41	65.11	188.76	2548.61	1140.83	-1138.92	-66.12	2.38	5780565.85	616831.20	S 38 6 54.672	E 148 19 57.902
Xceed Survey	2957.37	66.49	189.09	2555.15	1155.32	-1153.30	-68.38	2.65	5780551.47	616828.94	S 38 6 55.140	E 148 19 57.817
Xceed Survey	2987.28	68.43	190.05	2566.62	1182.79	-1180.54	-72.97	2.14	5780524.24	616824.35	S 38 6 56.025	E 148 19 57.645
Xceed Survey	3016.23	69.92	189.15	2576.91	1209.70	-1207.21	-77.49	1.77	5780497.56	616819.84	S 38 6 56.893	E 148 19 57.475
Xceed Survey	3046.70	71.87	185.88	2586.88	1238.41	-1235.75	-81.25	3.60	5780469.03	616816.08	S 38 6 57.820	E 148 19 57.338
	3076.34	72.83	185.30	2595.87	1266.64	-1263.86	-84.00	1.12	5780440.93	616813.33	S 38 6 58.733	E 148 19 57.242
	3106.22	72.92	185.49	2604.67	1295.18	-1292.29	-86.68	0.20	5780412.51	616810.65	S 38 6 59.656	E 148 19 57.148
	3136.04	75.98	186.22	2612.66	1323.88	-1320.87	-89.61	3.16	5780383.94	616807.72	S 38 7 0.584	E 148 19 57.045
	3164.24	80.13	185.24	2618.50	1351.44	-1348.31	-92.37	4.53	5780356.50	616804.96	S 38 7 1.475	E 148 19 56.948
	3194.93	79.46	185.98	2623.93	1381.63	-1378.37	-95.32	0.97	5780326.45	616802.01	S 38 7 2.451	E 148 19 56.844
	3224.35	81.52	184.32	2628.79	1410.63	-1407.27	-97.92	2.68	5780297.56	616799.41	S 38 7 3.390	E 148 19 56.755
	3254.13	84.39	184.05	2632.45	1440.18	-1436.74	-100.08	2.90	5780268.09	616797.25	S 38 7 4.347	E 148 19 56.683
	3283.78	87.22	180.52	2634.62	1469.74	-1466.28	-101.25	4.57	5780238.56	616796.08	S 38 7 5.305	E 148 19 56.652
	3313.51	90.41	179.47	2635.23	1499.40	-1496.00	-101.25	3.39	5780208.85	616796.08	S 38 7 6.269	E 148 19 56.670
	3343.47	93.13	182.42	2634.31	1529.31	-1525.94	-101.74	4.02	5780178.92	616795.59	S 38 7 7.240	E 148 19 56.667
	3373.36	94.02	181.60	2632.44	1559.13	-1555.75	-102.79	1.21	5780149.11	616794.54	S 38 7 8.207	E 148 19 56.642
	3402.75	93.92	178.26	2630.41	1588.38	-1585.06	-102.76	3.40	5780119.80	616794.58	S 38 7 9.158	E 148 19 56.661
	3431.88	91.13	178.07	2629.12	1617.36	-1614.15	-101.82	2.88	5780090.73	616795.51	S 38 7 10.101	E 148 19 56.716
	3461.34	91.68	178.76	2628.40	1646.69	-1643.59	-101.01	0.90	5780061.29	616796.32	S 38 7 11.055	E 148 19 56.767
	3492.03	91.51	180.60	2627.55	1677.29	-1674.26	-100.84	1.81	5780030.62	616796.49	S 38 7 12.050	E 148 19 56.792
	3521.63	91.27	178.88	2626.83	1706.82	-1703.85	-100.70	1.76	5780001.04	616796.63	S 38 7 13.009	E 148 19 56.815
	3551.39	91.44	180.83	2626.12	1736.51	-1733.60	-100.63	1.97	5779971.30	616796.70	S 38 7 13.974	E 148 19 56.836
	3564.74	91.37	180.85	2625.80	1749.84	-1746.95	-100.82	0.16	5779957.96	616796.51	S 38 7 14.407	E 148 19 56.836
	3594.59	91.46	180.97	2625.06	1779.65	-1776.79	-101.30	0.15	5779928.13	616796.03	S 38 7 15.375	E 148 19 56.834
	3624.29	91.46	182.60	2624.30	1809.32	-1806.46	-102.22	1.65	5779898.46	616795.11	S 38 7 16.337	E 148 19 56.813
	3653.86	91.66	184.27	2623.50	1838.88	-1835.97	-103.99	1.71	5779868.96	616793.34	S 38 7 17.295	E 148 19 56.758
	3684.08	90.29	183.77	2622.98	1869.10	-1866.11	-106.11	1.45	5779838.83	616791.22	S 38 7 18.273	E 148 19 56.689
	3711.90	89.74	185.04	2622.98	1896.91	-1893.84	-108.25	1.49	5779811.10	616789.09	S 38 7 19.174	E 148 19 56.617

	3740.99	88.54	184.85	2623.41	1925.99	-1922.82	-110.76	1.25	5779782.12	616786.58	S 38 7 20.115	E 148 19 56.532
	3770.39	85.50	184.63	2624.94	1955.34	-1952.08	-113.18	3.11	5779752.87	616784.15	S 38 7 21.065	E 148 19 56.449
	3799.79	83.81	184.62	2627.68	1984.61	-1981.25	-115.54	1.72	5779723.71	616781.79	S 38 7 22.012	E 148 19 56.369
	3829.12	82.94	183.90	2631.06	2013.74	-2010.31	-117.71	1.15	5779694.66	616779.63	S 38 7 22.955	E 148 19 56.298
	3859.22	84.01	183.23	2634.48	2043.64	-2040.15	-119.57	1.26	5779664.82	616777.77	S 38 7 23.924	E 148 19 56.239
	3888.65	86.13	183.06	2637.01	2072.96	-2069.43	-121.17	2.17	5779635.55	616776.16	S 38 7 24.874	E 148 19 56.190
	3918.67	88.74	185.50	2638.36	2102.94	-2099.33	-123.41	3.57	5779605.66	616773.93	S 38 7 25.845	E 148 19 56.116
	3948.20	89.63	186.27	2638.78	2132.44	-2128.70	-126.44	1.20	5779576.29	616770.90	S 38 7 26.799	E 148 19 56.009
	3977.71	86.96	185.58	2639.66	2161.91	-2158.04	-129.48	2.80	5779546.96	616767.85	S 38 7 27.751	E 148 19 55.901
	4006.54	83.81	184.14	2641.97	2190.64	-2186.67	-131.92	3.60	5779518.34	616765.42	S 38 7 28.681	E 148 19 55.818
	4035.61	82.10	183.23	2645.54	2219.49	-2215.45	-133.77	2.00	5779489.56	616763.57	S 38 7 29.615	E 148 19 55.759
	4065.35	82.21	183.76	2649.60	2248.95	-2244.86	-135.57	0.54	5779460.16	616761.77	S 38 7 30.570	E 148 19 55.703
	4094.84	79.90	183.49	2654.18	2278.08	-2273.93	-137.41	2.37	5779431.09	616759.93	S 38 7 31.514	E 148 19 55.644
	4124.38	77.56	183.62	2659.96	2307.05	-2302.85	-139.21	2.38	5779402.19	616758.13	S 38 7 32.452	E 148 19 55.587
	4153.91	78.91	185.00	2665.98	2335.95	-2331.67	-141.38	1.94	5779373.37	616755.96	S 38 7 33.388	E 148 19 55.515
	4183.07	81.41	187.28	2670.96	2364.65	-2360.23	-144.46	3.46	5779344.81	616752.89	S 38 7 34.316	E 148 19 55.406
	4212.97	85.21	190.62	2674.45	2394.20	-2389.56	-149.08	5.06	5779315.49	616748.27	S 38 7 35.269	E 148 19 55.233
	4242.27	89.94	193.94	2675.69	2423.13	-2418.15	-155.30	5.91	5779286.91	616742.04	S 38 7 36.199	E 148 19 54.995
	4270.99	92.69	195.73	2675.03	2451.28	-2445.90	-162.65	3.43	5779259.16	616734.69	S 38 7 37.102	E 148 19 54.709
	4301.34	92.03	195.79	2673.78	2480.92	-2475.09	-170.89	0.66	5779229.99	616726.46	S 38 7 38.052	E 148 19 54.388
	4331.00	92.98	195.62	2672.48	2509.88	-2503.61	-178.91	0.98	5779201.47	616718.44	S 38 7 38.981	E 148 19 54.076
	4360.69	90.97	195.41	2671.46	2538.91	-2532.20	-186.85	2.04	5779172.89	616710.51	S 38 7 39.912	E 148 19 53.767
	4390.61	87.74	193.25	2671.79	2568.29	-2561.18	-194.25	3.90	5779143.91	616703.10	S 38 7 40.855	E 148 19 53.480
	4419.25	84.58	189.93	2673.71	2596.58	-2589.17	-199.99	4.80	5779115.93	616697.36	S 38 7 41.766	E 148 19 53.261
	4448.12	85.64	190.34	2676.17	2625.16	-2617.48	-205.05	1.18	5779087.62	616692.30	S 38 7 42.686	E 148 19 53.070
	4478.07	84.87	191.52	2678.65	2654.76	-2646.79	-210.71	1.41	5779058.32	616686.65	S 38 7 43.639	E 148 19 52.855
	4507.60	84.61	193.02	2681.36	2683.82	-2675.52	-216.96	1.54	5779029.60	616680.40	S 38 7 44.574	E 148 19 52.615
	4538.99	84.55	192.67	2684.32	2714.66	-2705.99	-223.91	0.34	5778999.14	616673.45	S 38 7 45.565	E 148 19 52.348
	4568.77	84.96	189.40	2687.05	2744.06	-2735.09	-229.58	3.31	5778970.04	616667.78	S 38 7 46.512	E 148 19 52.132
	4598.48	84.84	186.02	2689.69	2773.57	-2764.41	-233.55	3.40	5778940.73	616663.81	S 38 7 47.464	E 148 19 51.986
	4627.92	82.10	185.79	2693.04	2802.79	-2793.50	-236.56	2.80	5778911.64	616660.80	S 38 7 48.409	E 148 19 51.880
	4643.88	80.20	185.48	2695.49	2818.55	-2809.20	-238.11	3.62	5778895.95	616659.25	S 38 7 48.919	E 148 19 51.825
Projected to TD	4648.00	80.20	185.48	2696.19	2822.61	-2813.24	-238.50	0.00	5778891.91	616658.87	S 38 7 49.050	E 148 19 51.812

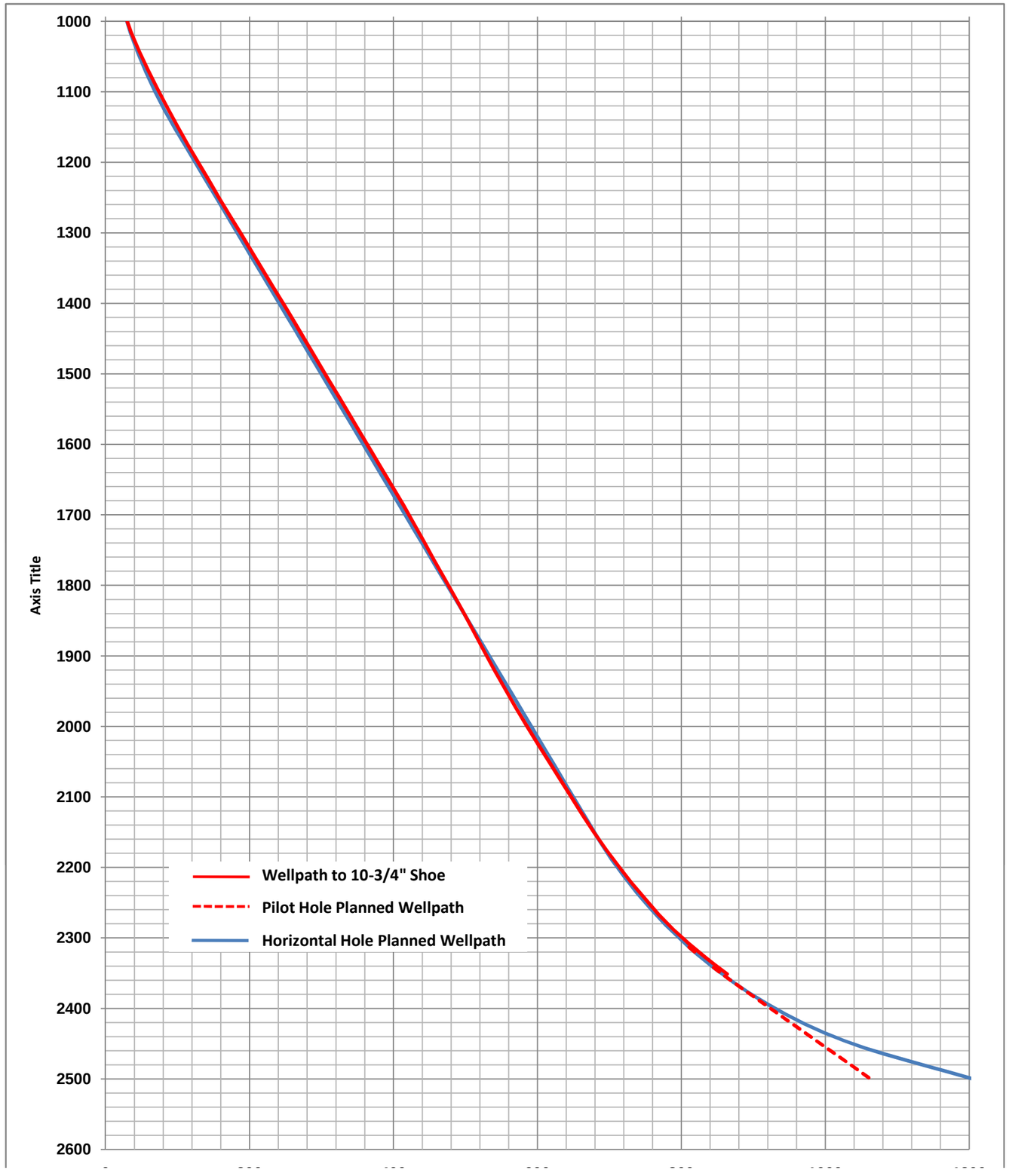
Survey Type: Non-Def Survey

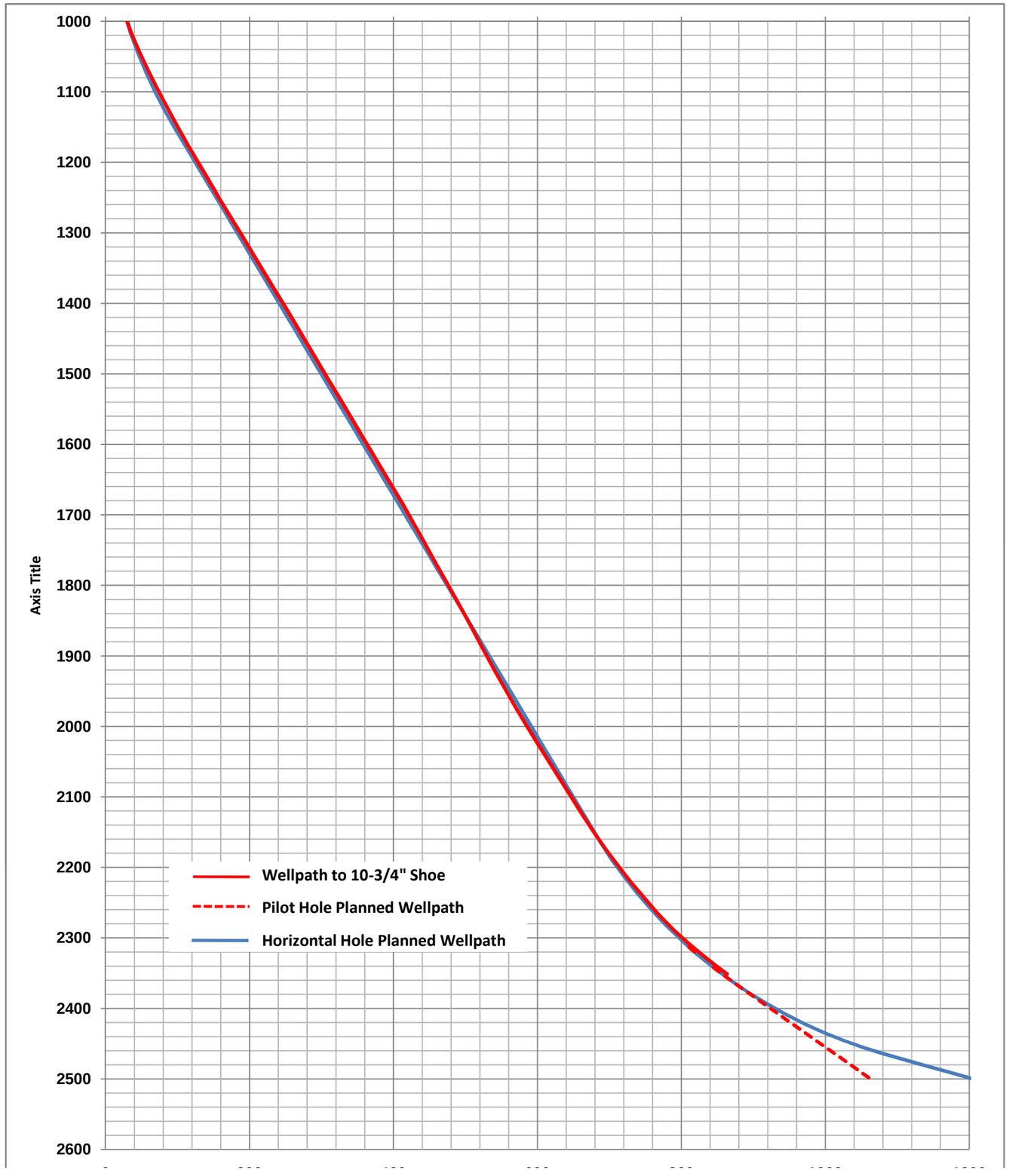
Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom-4 P
97.06	2711.02	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom-4 P
2711.02	4648.00	Act-Stns	SLB_MWD+SAG	Longtom-4 H -> Longtom-4 H

**Italicized stations are NOT used in position calculations.*


1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
Axis Title
Wellpath to 10-3/4" Shoe
Pilot Hole Planned Wellpath
Horizontal Hole Planned Wellpath


1000
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2300
2400
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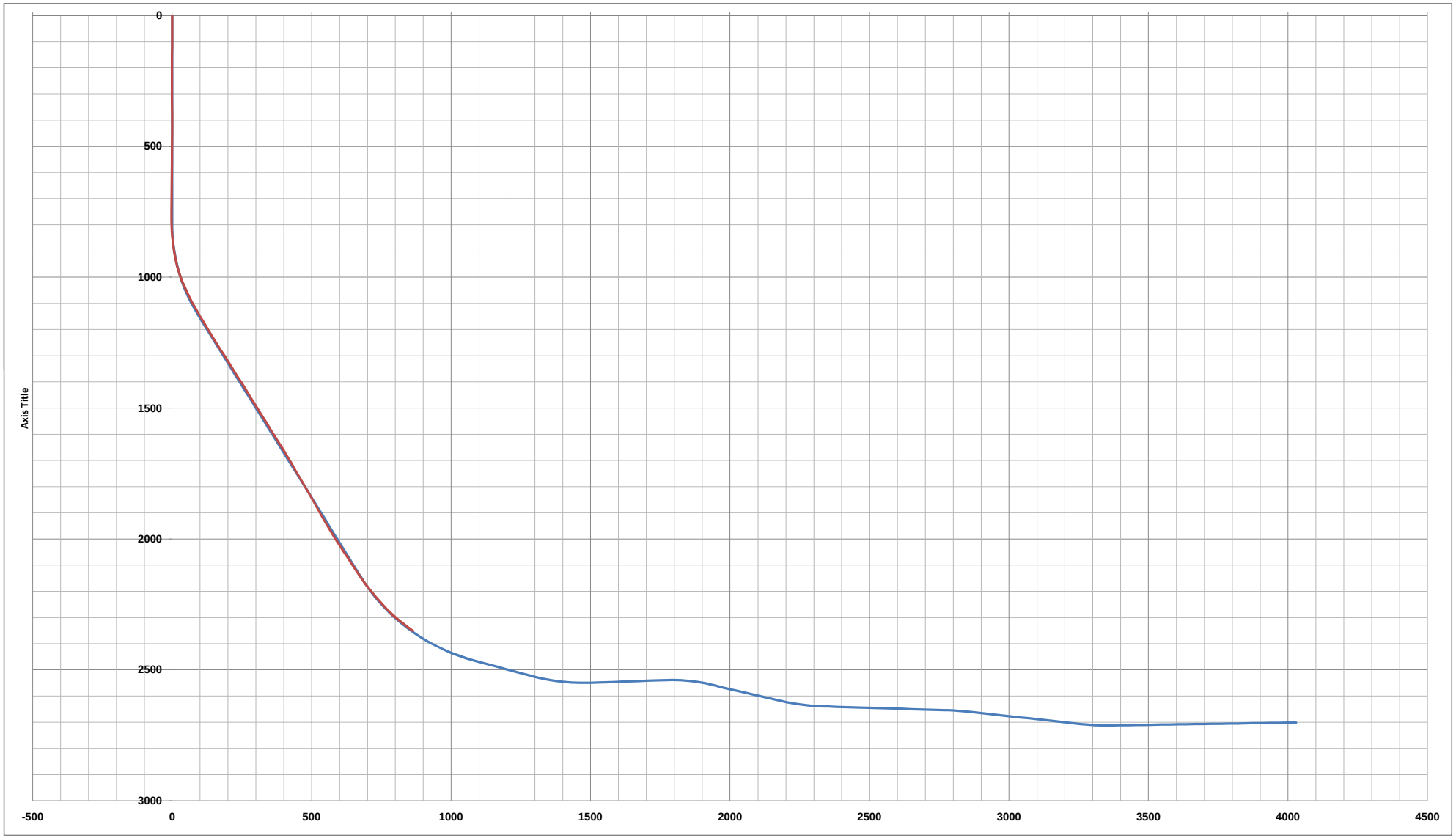
2600
Axis Title
Wellpath to 10-3/4" Shoe
Pilot Hole Planned Wellpath
Horizontal Hole Planned Wellpath


Axis Title
0
500
1000
1500
2000
2500
3000
-500
0
500
1000
1500
2000
2500
3000
3500
4000
4500

DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Activity Report For Longtom-4

Date : 19 Jun 2008 **Daily Cost : AUD$ 8227800** **Report Number : 1**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P1	P	M1		2.5	******START OF LONGTOM-4 at 09:00hrs on 19 June 2008****** Rig on tow to Longtom-4.
0.0	P1	P	M3		0.5	******11:30hrs - On location at Longtom-4****** Jack rig up to preload gap.
0.0	P1	P	M3		9.5	Ballasted rig for preloading. Offline: Callibrated draworks, slip and cut line, and measured conductors. Changed seal on test stump for BOP and pressure tested lower and upper I-BOP to 200/5000psi - OK. Kelly hose high pressure test failed. Mustered for false alarm.
0.0	P1	P	M3		2	Held preload for 2 hrs - OK. Offline: Changed link-tilt pistons on TDS.
0.0	P1	P	M3		0.5	Commenced dumping preload ballast.

Date : 20 Jun 2008 **Daily Cost : AUD$ 615700** **Report Number : 2**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P1	P	M3		1.5	Jacked rig up to working height of 17m airgap.
0.0	P1	P	M2		1	Prepared rig for skidding.
0.0	P1	P	M2		4	Held JSA and skidded cantilever deck out to allow generator to be lifted out through hatch. Offline: Rigged up slings, lowered Texas deck and stairs and installed gumbo hose.
0.0	P1	TP	M2	RE	1	Continued skidding cantilever deck out to 52ft to allow for removal of generator.
0.0	P1	TP	M2	RE	1.5	Removed generator through hatch.
0.0	P1	TP	M2	RE	1	Skidded rig back into drilling position.
0.0	P1	P	G1		3	Made rig secure, installed service lines and mud hoses.
0.0	P1	P	G4		2.5	Picked up 3 x 8.25in DC from deck and RIH same. Picked up jar stand from derrick and RIH same. Picked up 1 x HWDP from deck and made up to string. Racked back 1 x HWDP stand in derrick. Changed out elevators to 5in. Laid out jar. Changed elevators to 5.5in. Picked up 3 x HWDP from deck and racked stand in derrick. Racked stand of 8.25in DCs in derrick.
0.0	P1	TP	G4	RE	2	Encountered problems with link tilt clamps slipping and rotating head not working properly during the activities listed directly above (13h00 to 15h30).
0.0	P1	TP	G11	RE	0.5	Conducted Cyber chair computer update patch.
0.0	P1	P	G1		2	Made up Cameron 30in running tool to a stand of DP including x/overs, using tongs and racked back same.
0.0	P2	P	G6		4	Picked up and made up 36in BHA and laid out 2 x 17.5in stabilizers.

Date : 21 Jun 2008 **Daily Cost : AUD$ 867500** **Report Number : 3**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P2	P	G6		1	Continued making up 36in BHA and RIH same.
97.0	P2	P	E6		0.5	Spaced out and tagged seabed at 97.03m. ROV unable to launch due to adverse weather. Took survey at seabed: 0.24deg.
132.8	P2	P	D2		2.5	Spudded well at 01h20 and drilled 36in hole from 97m to 132.8m. Drilled first 10m using 300gpm, 3klbs, 50rpm then 1000gpm, 5klbs and 70 - 90 rpm. Pumped 3 x 75bbl flocculated gel sweeps during drilling. Maximum survey taken while drilling: 0.69 and 0.56 at TD (one survey of 3.1deg appears erroneous).
132.8	P2	P	F3		0.5	Pumped 200bbl of flocculated gel sweep and then displaced hole with 280bbl inhibited mud from previous hole.
132.8	P2	P	G8		2	POOH with 36in drilling assy from 132.8m to surface. Laid out 1 x 8.25in DC.
132.8	P3	P	G1		1.5	Changed out bails to long 350T and installed 30in conductor handling equipment.

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ADA_AU_FWR.xsl (parent/child V1.3)

DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 21 Jun 2008 **Daily Cost : AUD$ 867500** **Report Number : 3**

132.8	P3	P	G9	2	Held JSA, picked up 30in conductor shoe, intermediate and wellhead joints and RIH same.
132.8	P3	P	G1	1	Changed out bails to short 350T drilling bails.
132.8	P3	P	G9	4	Picked up 30in running tool, made up to wellhead joint, made up bulls eye and RIH 30in conductor. Filled conductor with sea water with running tool at sea level and closed valve. Continued to RIH and stabbed conductor into seabed without ROV observation and set shoe at 128.8m. Stick-up above seabed: 1.9m
132.8	P3	P	F3	2	Rigged up cement lines, held JSA and pumped 10bbl seawater. Pressure tested lines to 1500psi, pumped further 90bbl seawater followed by168bbl class G slurry at 15.9ppg (200% excess) and displaced cement using 57bbl seawater.
132.8	P3	P	F7	5	Waited on cement. Offline: Pressure tested choke manifold valves 5, 11, 12, 13 and 14. Prepared next BHA and rigged down cement lines.
132.8	P3	P	G9	2	Removed Low-Torque valve and placed bull plug in the open connection. Slacked off running string - good indications of conductor being well supported. Unscrewed running tool with 5.5 turns and POOH running string to 9.6m, commencing break out of running tool.

Date : 22 Jun 2008 **Daily Cost : AUD$ 637300** **Report Number : 4**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
132.8	P3	P	G1		1	Continued to break out 30in running tool and laid down same. Made up 18.75in wellhead running tool into string and racked back in derrick.
132.8	P3	P	G6		1	Laid out 26in bit and 36in hole opener.
132.8	P4	P	G9		3	Made up 22in BHA including picking up of 1 x 9.5in DC and laying down 1 x 8.25in DC.
132.8	P4	TP	G8	WOW	4.5	Made up TDS, performed shallow MWD test and attempted to stab into 30in wellhead at seabed, moving pipe to various positions. ROV was unable to be deployed due to adverse weather. **WOW NPT Due To Subsea Well Design**
132.8	P4	TP	G8	WOW	1	Launched small ROV to observe stabbing of bit into 30in wellhead. Unable to assist due to adverse weather. Retrieved same. **WOW NPT Due To Subsea Well Design**
132.8	P4	TP	G8	WOW	0.5	Launched big ROV - failure of soft start on hydraulic system. Retrieved same. **WOW NPT Due To Subsea Well Design**
132.8	P4	TP	G8	WOW	2.5	Launched small ROV and adapted the feed method of the umbilical to reduce the environmental effects. Stabbed into wellhead using visuals from small ROV. **WOW NPT Due To Subsea Well Design**
132.8	P4	P	G8		0.5	Continued to RIH with 22in BHA and tagged cement at 124.9m.
132.8	P4	P	D1		1.5	Drilled cement from 124.9m to shoe at 128m and drilled rathole to 132.8m.
374.0	P4	P	D2		8.5	Control drilled 22in hole from 132.8m to 374m at max of 60m/hr using seawater and 3 x 50bbl PHG sweeps during every stand. WOB 10k, RPM 140, TQ 2-5k ft-lbs, 1160 gpm, 2200psi. No excess drag on connections. Took MWD survey every 90 m - all less than 1 degree.

Date : 23 Jun 2008 **Daily Cost : AUD$ 655800** **Report Number : 5**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
749.0	P4	P	D2		24	Drilled 22in hole from 374m to 749m using seawater and 3 x 50bbl PHG sweeps during every stand. Formation firming up. Increase WOB 10 -20klbs and then 25klbs, RPM 140 - 160, TQ 2-5k ft-lbs, 1200 gpm, 2400psi, 15 m/hr varying parameters to reduce surface vibrations. No excess drag on connections. Take MWD survey every 90 m - all less than 1 degree.

Date : 24 Jun 2008 **Daily Cost : AUD$ 656100** **Report Number : 6**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P4	P	D2		0.5	Drilled 22in hole from 749m to 755m - TD of section.
755.0	P4	P	F3		0.5	Swept hole with 150bbl bentonite mud and then displaced hole with 395bbl bentonite mud followed by 723bbl inhibited mud from previous well.

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DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 24 Jun 2008 **Daily Cost : AUD$ 656100** **Report Number : 6**

755.0	P4	P	D6		2	Commenced POOH with 22in drilling assy. Encountered 30klbs O/pull at 741m. Worked pipe first without rotation then connected TDS and backreamed slowly using inhibited mud at 60gpm pump volume. Worked through tight spot from 741m to 726m. POOH to 668m - taking 30klbs O/pull. Connected TDS and worked through tight spot at 668m.
755.0	P4	P	G8		1	Continued to POOH from 668m to 391m.
755.0	P4	TP	G11	RE	1	Repaired hydraulic hose on TDS link-tilt.
755.0	P4	P	G8		3	Continued to POOH with 22in bit from 391m to 100m. Jetted well head area for 10 mins. Continued to POOH with BHA and laid out MWD.
755.0	P5	P	G1		1	Changed out bails and rigged up casing equipment.
755.0	P5	P	G2		3.5	Picked up and made up running tool to well head and attempted to rack back in derrick. Assembly was bowing badly, laid out running tool and well head.
755.0	P5	P	G9		2.5	Picked up and checked shoe joint. Ran 16in casing to 95.10m.
755.0	P5	TP	G9	TP	4	Attempted to sting 16in shoe into 30in well head. Poor visibility due to cuttings / silt obstructing ROVs vision of well head. Circulated and attempted to work casing into well head. Laid out a single of casing, rigged up circulating swedge and jetted well head area.
755.0	P5	TP	G9	TP	1.5	ROV lost communication and was pushed by current into port leg. Regained communications to ROV and freed ROV from port leg while continuing to jet well head area.
755.0	P5	TP	G9	TP	1.5	Continued attempts to stab into wellhead. Observed stab in with 16in casing into 30in conductor.
755.0	P5	P	G9		1	Continued to run 16in casing to 145m.
755.0	P5	TP	G11	RE	1	Observed retaining plates on solid body elevators badly bent. Removed plates to straighten same.

Date : 25 Jun 2008 **Daily Cost : AUD$ 1581200** **Report Number : 7**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P5	TP	G11	RE	3	Straightened bent retaining plates and reinstated same. Re-adjusted link-tilt clamps.
755.0	P5	P	G9		5	Continued to run 16in casing to 647m.
755.0	P5	P	G9		2	Picked up and made up 20in/16in cross over to 16in casing and landed out on rotary table. (Confirmed with shorebase suitability of landing shoulder on 20in Lynx 2 Connector)
755.0	P5	P	G1		0.5	Changed out handling equipment and prepared to run inner string.
755.0	P5	P	G9		2	RIH with inner string.
755.0	P5	TP	G8	RE	1.5	Downtime - Slow operation running inner string - Iron Roughneck not operational.
755.0	P5	P	G9		3.5	Picked up and made up well head to inner string and 16in casing. RIH with landing string and observed land out of well head with ROV. Confirmed land out with 50k overpull.
755.0	P5	P	G1		0.5	Rigged up cement lines.
755.0	P5	P	F3		3	Held JSA. Pumped 10 bbls of seawater and tested lines to 2,500 psi. Pumped 90 bbls of sea water. Mixed and pumped 516 bbls of "G" class cement slurry at 12.50 ppg followed by a tail cement of 229 bbls "G" at 15.80 ppg and displaced with 66.9 bbls of sea water. Bled off pressure (450 psi), 2.50 bbls returned. Checked float - float holding. ROV observed returns the entire time while cementing. 16in shoe at 750.03m. Top of cement in 16in casing at +/- 735m. Top of 18.75in well head at 93.93m.
755.0	P5	P	G1		3	Rigged down cement lines and observed running tool backed out from well head with ROV. POOH and laid out running tool.

Date : 26 Jun 2008 **Daily Cost : AUD$ 1983000** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P6	P	G1		2.5	Held JSA, rigged up and moved H4 connector from main deck to Texas deck and placed same in "C" plate. Rigged down handling equipment. ROV installed debris cap while above operation was in place.
755.0	P6	P	G9		6	Rigged up handling equipment and picked up DQ RBC connector and 22in riser joint. Made up same. Lowered assembly down to Texas deck and made up same to H4 connector. Picked up and attached 2 x core umbilical to connector and function tested same. Ran 22in HP riser to 60m.

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Date : 26 Jun 2008 **Daily Cost : AUD$ 1983000** **Report Number : 8**

755.0	P6	TP	G25	WOW	15.5	Waited on weather. 09.00 Wind 44 knts Gusts 50 knts Sea 4 - 5m. 12.00 Wind 45 knts Gusts 55 knts Sea 5m 15.00 Wind 39 knts Gusts 48 knts Sea 5m 18.00 Wind 43 knts Gusts 53 knts Sea 4 - 5m 21.00 Wind 40 knts Gusts 50 knts Sea 5m 24.00 Wind 36 knts Gusts 43 knts Sea 3 - 4m Currents too strong to enable ROV to operate and for work boats to launch FRC.

Date : 27 Jun 2008 **Daily Cost : AUD$ 656600** **Report Number : 9**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P6	TP	G13	WOW	6	Waited on Weather. 03.00 Wind 30 knts Gusts 38 knts Sea 3 - 4m 06.00 Wind 26 knts Gusts 30 knts Sea 3 - 4m Currents too strong to enable ROV to operate untill 04.00 hrs. Work boats unable launch FRC due to sea state. Cranes unable to offload boats due to sea states.
755.0	P6	TP	G13	WOW	0.5	Deck cranes operational but no stand-by cover. Picked up and made up next joint of 22in HP riser to string.
755.0	P6	TP	G13	WOW	0.5	Waited on weather to subside for boat to provide close stand-by cover. Wind 26 knts, Gusts 30 knts, Sea 3m.
755.0	P6	P	G13		0.5	Boat confirmed stand by cover possible. Held JSA and attempted to picked up riser from slips.
755.0	P6	TP	G13	WOW	1.5	22in slip inserts and slips wedged together in 30in bowls. Freed same.
755.0	P6	P	G13		1	Ran 22in HP riser to 75m.
755.0	P6	P	G13		1	Picked up and made up DQ running tool from derrick and make up same to 22in HP riser.
755.0	P6	TP	G13	TP	0.5	ROV lost thruster capability when attempting to locate wellhead in preperation to stab and vehicle floated to surface. Re-established control and dived back to bottom.
755.0	P6	P	G13		2	Continued to RIH with 22in HP riser on drill pipe. With assistance from ROV - stabbed H4 connector onto well head, locked connector and confirmed latch with 50klbs overpull.
755.0	P6	P	G13		1	Attempted to test HP riser to 500 psi - leakage at DQ running tool. ROV checked well connector and riser: no visible leaks.
755.0	P6	P	G13		2.5	Rigged up CTU on Texas deck.
755.0	P6	P	G13		3	Installed claxton base onto CTU, claxton ring onto riser and torqued up same to 2250 ft/lbs.
755.0	P6	TP	G13	RE	4	Attempted to stroke out CTU unit - pistons opened unequally. Trouble shot problem. Found that pressure regulating valve was inoperable and lower / raise function valve was leaking. Released claxton clamp and stroked out pistons on CTU to fully open postion. Functioned same to confirm no trapped air in system: pistons still opening and closing unequally.

Date : 28 Jun 2008 **Daily Cost : AUD$ 1347100** **Report Number : 10**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P6	TP	G13	RE	2.5	Made up Claxton clamp hand tight 4in above CTU and adjusted slip insert to engage on riser. Stroked open CTU pistons to 4in to contact Claxton clamp and adjusted slip inserts to ensure clamp level. Torqued up bolts on Claxton clamp to 2250 ft/lbs. Increased CTU pressure to support 100T.
755.0	P6	P	G13		0.5	Stroked DQ running tool mandrel down and attempted to test HP riser again to 500 psi - DQ running tool still leaking. Backed out running tool and racked back same.
755.0	P6	P	G13		5	Lowered CTU work platform onto Texas deck. Moved BOP from set back area and nippled up BOP to HP riser. Tensioned up on CTU to 200T.
755.0	P6	P	G13		4	Picked up and installed mandrell on to BOP. Picked up and made up overshot to diverter and installed control hoses to same.
755.0	P6	P	G13		1.5	Rigged up choke line on BOP.
755.0	P6	P	G24		1	Cleared Texas deck of equipment and 22in elevators. Energized diverter system seals.
755.0	P6	P	P1		1	Filled riser with seawater and pressure tested 16in casing, H4 connector and 22in riser against shear rams at 2000 psi for 10 mins: good test.

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Date : 28 Jun 2008 **Daily Cost : AUD$ 1347100** **Report Number : 10**

755.0	P11	P	G5		2.5	Laid out 22in HP riser running tool. Laid out 22in BHA from derrick.
755.0	P11	P	G6		1.5	Picked up and made up 14.75in drill out assembly and RIH to 51m.
755.0	P11	P	G1		1	Changed out bails and rigged up auto-elevators.
755.0	P11	P	G11		1	Serviced rig and updated driller's chair software.
755.0	P11	TP	G11	RE	0.5	Changed out auto elevators to manual elevators as rotating head not functioning with auto elevators installed.
755.0	P11	P	G8		0.5	RIH with 5 stands of heavy weight drill pipe to 200m.
755.0	P11	P	G8		1.5	RIH picking up 5.5in drill pipe singles from deck.

Date : 29 Jun 2008 **Daily Cost : AUD$ 886400** **Report Number : 11**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
755.0	P11	P	G8		3	RIH picking up 5.5in drill pipe to 731.78m
755.0	P11	P	G8		0.5	Washed down from 731.78m to TOC at 736m with 5k down.
755.0	P11	P	D1		1	Drilled cement from 736m to 750m, drilled shoe at 750m and cleaned out rathole from 750m to 755m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 1100, PSI 1700 (sea water).
758.0	P11	P	D2		0.5	Drilled 14.75in hole from 755 - 758m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 1100, PSI 1700 (sea water).
758.0	P11	P	F4		1	Pumped 100 bbls hi/vis and circulated hole clean.
758.0	P11	P	E1		1	Tested lines to 2000psi. Conducted LOT with sea water to 650 psi surface applied pressure: EMW = 13.70 ppg.
758.0	P11	P	G8		1.5	Flow checked and POOH to 58m.
758.0	P11	P	G6		1.5	Laid out 14.75 BHA.
758.0	P11	TP	G11	RE	1.5	NOV fault find on cyber chair.
758.0	P11	P	G7		3.5	Picked up and made up 13.5in steerable drilling assembly as per DD instructions.
758.0	P11	P	G7		1	Shallow test Power Drive - 800 gpm at 650psi.
758.0	P11	P	G7		1	Loaded radioactive source.
758.0	P11	P	G7		0.5	RIH with BHA to 86m, shallow tested ADN-8 at 800 gpm/650 psi.
758.0	P11	P	G8		1.5	RIH with HWDP and picked up 6.5in Jars to 183m.
758.0	P11	P	G8		5	RIH picking up 5.5in drill pipe to 750m.

Date : 30 Jun 2008 **Daily Cost : AUD$ 1020000** **Report Number : 12**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
758.0	P11	P	G11		1	Serviced rig and top drive.
758.0	P11	P	F4		2.5	Held JSA with crews and made a final check on line up. Pumped 50 bbl hi/vis spacer and displaced well to OBM at 500 gpm and 1000 psi. Shut down with hi-vis spacer at surface and lined up returns to slops pit. Continued circulating out hi-vis spacer. Shut down with OBM at surface. Directed returns into sand traps and lined up returns to active pit. Displaced kill and choke lines, choke manifold and filled trip tank with OBM. Took SCR'S.
1447.0	P11	P	D4		20.5	Drilled 13.5in directional hole from 758m to 1447m: Started build at 780m. Built up to 30 deg Inc at 1220m with 183.5 deg azimuth. Drilled tangent section maintaining 30 deg Inc and 183.5 deg azimuth from 1220m. Parameters: Press 2800 - 3300 psi, GPM 1050 - 1125, WOB 20-25 klbs, RPM 150, TQ 11-20k ft-lbs. Observed seepage losses of 10-20 bbls / hr in Latrobe formation.

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Activity Report For Longtom-4

Date : 01 Jul 2008 **Daily Cost : AUD$ 875900** **Report Number : 13**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1720.0	P11	P	D4		24	Drilled 13.5in hole from 1447m - 1720m maintaining 30 deg Inc and 183.5 deg azimuth. Parameters: Press 3250 psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Encountered hard stringers at 1447m, 1505m, 1511m, 1523m, 1536m, 1541m, 1554m, 1565m, 1586m, 1592m, 1609m, 1614m, 1633m, 1644m, 1654m, 1662m, 1684m, 1691m, 1700m, 1704m with ROP<1.5m / hour through same. Average seepage losses of 3 bbls per hour for 24 hours.

Date : 02 Jul 2008 **Daily Cost : AUD$ 717200** **Report Number : 14**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1928.0	P11	P	D4		9.5	Drilled 13.5in hole from 1720m to 1928m maintaining 30 deg Inc and 183.5 deg azimuth. Parameters: Press 3450 psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
1928.0	P11	TP	G11	RE	1	Camera screen on cyber system out of action. Circulated and worked string while repairing same.
2017.0	P11	P	D4		7	Drilled 13.5in hole from 1928m to 2017 while maintaining 30 deg Inc and 183.5 deg azimuth. Inclination dropping at 1938m. Parameters: Press 3900psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
2017.0	P11	TP	G11	RE	1.5	Trouble shot top drive rotating problems. RPM on top drive increasing and decreasing when increasing WOB and bringing mud pumps online. Placed 4 generators on line.
2031.0	P11	TP	D4	TP	0.5	Drilled 13.5in hole from 2017 to 2031m Tried to maintain30 deg Inc and 183.5 deg azimuth. Inclination dropped down to 27.26 degrees. Varied drilling parameters to assist with holding angle, no success. Parameters: Press 3950 psi, GPM 1200, WOB 10-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
2031.0	P11	TP	F4	TP	2	Circulated hole clean.
2031.0	P11	TP	G8	TP	2.5	Flow checked, POOH wet to 1881m, pumped 30 bbl/s 14.2 ppg slug, continued POOH to 1724m. Hole in good condition.

Date : 03 Jul 2008 **Daily Cost : AUD$ 995000** **Report Number : 15**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2031.0	P11	TP	G8	TP	5.5	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior to BHA being at BOP'S.
2031.0	P11	TP	G7	TP	1	POOH with BHA and removed RA source from ADN tool.
2031.0	P11	TP	G7	TP	1	Made up single, pup joint and x/o to rack back ADN-8. Down loaded data from ADN-8 but unable to initiate.
2031.0	P11	TP	G7	TP	3	Laid out 13.5in BHA including ADN-8 - unable to be initiated.
2031.0	P11	TP	G7	TP	3.5	Made up bit #5, picked up and made up 13.5in steerable drilling assembly and RIH to 30.68m.
2031.0	P11	TP	G7	TP	0.5	Shallow tested Power Drive at 800 GPM, 1000psi: good test.
2031.0	P11	TU	G7	TP	0.5	Loaded RA source into ADN.
2031.0	P11	TP	G7	TP	0.5	RIH with BHA to 87.54m.
2031.0	P11	TP	G7	TP	0.5	Shallow tested ADN at 800 GPM, 1100psi: good test.
2031.0	P11	TP	G8	TP	1	Continued to RIH with BHA to 184m.
2031.0	P11	TP	G8	TP	4.5	RIH with 5.5in drill pipe to 1960m. Hole good.

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Date : 03 Jul 2008 **Daily Cost : AUD$ 995000** **Report Number : 15**

2031.0	P11	TP	F1	TP	1	Logged down from 1960m - 1989m. With 1000 gpm, 3180 psi, 60 RPM. Washed down to bottom. No fill.
2049.0	P11	P	D4		1.5	Took SCR's and drilled 13.5in hole from 2031 - 2049m. Built angle to 31 deg Inc and 183.80 deg azimuth. Parameters: Press 3900 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.

Date : 04 Jul 2008 **Daily Cost : AUD$ 735200** **Report Number : 16**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2346.0	P11	P	D4		9	Drilled 13.5in hole from 2049m - 2346m. Maintained 31 deg Inc and 183.80 deg azimuth to 2316m Kick of at 2316m bluiding Inc to 35.92, Azi 185.22. Parameters: Press 4100 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.
2346.0	P11	TP	G11	RE	2	Stand pipe manifold leaked at connection to stand pipe. POOH 1 stand, circulated bottoms up at 700gpm, 1800psi, while preparing tools and equipment for moving kelly hose to stand pipe #1.
2346.0	P11	TP	G11	RE	3.5	Removed kelly hose and MWD pressure sensor from stand pipe #2 and installed same on standpipe #1.
2405.0	P11	P	D4		2	Drilled 13.5in hole from 2304m - 2405m. Inc at 35.92, Azimuth 185.28 Parameters: Press 4100 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ13-21k ft-lbs.
2405.0	P11	TP	D4	RE	2	Attempted to POOH 5 stands, 25k overpull and swabbing on first stand. Rigged up side entry sub and cement hose. Circiulated at 700 gpm at 3060psi.
2405.0	P11	TP	D4	RE	5.5	Repaired leak on stand pipe #1. While circiulating at 700 gpm at 3060psi, worked string up and down every 20 minutes 3-4 meters.

Date : 05 Jul 2008 **Daily Cost : AUD$ 837200** **Report Number : 17**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2405.0	P11	TP	G11	RE	3	Repaired leak on stand pipe #1 while circiulating at 365 gpm at 2000psi. Worked string up and down every 20 minutes 3-4 meters.
2405.0	P11	TP	G11	RE	3	Tested stand pipe connection to 4500 psi. Rigged down cement hose. Installed bull plug onto SES, circulated and worked string at 365 GPM, 2000 PSI, 20 RPM, while tightening up retaining clamps on stand pipe. Rigged down cement hose and SES.
2434.0	P11	P	D4		1.5	Drilled 13.5in hole from 2405 - 2434m.
2434.0	P11	TP	G11	RE	15	Connection on stand pipe manifold to stand pipe #1 leaking. Rigged up side entry sub and circulated at 365 gpm at 2000psi - worked string up and down every 20 minutes 3-4 meters. Loosened clamps on stand pipe and lifted same, found connection on stand pipe #1 washed out. Loosened clamps on stand pipe #2 and lifted same, changed seal and tightened clamps on stand pipe. Changed over kelly hose and Schlumberger pressure sensor from stand pipe #1 to #2. Rigged down cement line and SES.
2434.0	P11	TP	F1	RE	0.5	Washed and reamed to bottom from 2400m no fill.
2463.0	P11	P	D4		1	Drilled 13.5in hole from 2434 - 2463m.

Date : 06 Jul 2008 **Daily Cost : AUD$ 767300** **Report Number : 18**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P11	U	D4		6	Drilled 13.5in hole from 2463m -2600m as per geologist instructions, building angle as per directional

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Date : 06 Jul 2008 **Daily Cost : AUD$ 767300** **Report Number : 18**

						plan. (Survey @ 2561.19m MD, 2327.40m TVD 50.89° Inc 182.57° AZ.) Parameters: Press 3950psi, GPM 1070, WOB 15-25 klbs, RPM 150, TQ 11-21k ft-lbs. Max Gas at 2508m = 3.92%. Average seepage losses since midnight at 5 bbls per hour.
2600.0	P11	P	F4		2	Circulated up sample for Geologist and circulated hole clean.
2600.0	P11	P	G8		2	Flow checked, POOH from 2600 - 2316m. No excess drag.
2600.0	P11	P	F3		0.5	Pumped 30 bbls 14.2ppg slug and installed wiper rubber.
2600.0	P11	P	G8		2.5	Continued POOH from 2316m - 1741m. Worked clear intermittent tight spots with up to 20k over pull at 2215m, 1888m, 1781m - 1752m. Encountered intermittent 20-25k over pull from 1752m - 1727m. Unable to wipe clear 1741m.
2600.0	P11	P	F1		1	Pumped and back reamed from 1752m - 1727m with 150RPM, 3100 PSI, 1070 GPM, TORQ 2 - 18k ft/lbs. Circulated bottoms up no excess cutting at shakers.
2600.0	P11	P	D6		1.5	Attempted to POOH from 1727m - 1715m 20 - 25k overpull. Made up top drive and continued to pump and back ream from 1727m to 1604m with RPM 150, 3100 PSI, 1070 GPM, TORQ 2 - 18k ft/lbs.
2600.0	P11	P	G8		1	POOH from 1604m - 1574m. Hole good. Circulated bottoms up. No excess cuttings at shakers.
2600.0	P11	P	G8		1	RIH from 1574m - 1781m. No excess drag.
2600.0	P11	P	G8		5.5	POOH from 1781m - 30m. Max over pull 10k. Flow checked at 16in casing shoe and prior to BHA at BOPs.
2600.0	P11	P	G7		0.5	Removed RA source from ADN tool.
2600.0	P11	P	G7		0.5	Broke off and laid out bit and down load data fom ADN. Bit Grade: 0, 0, NO, A, X, I, NO, TD

Date : 07 Jul 2008 **Daily Cost : AUD$ 839100** **Report Number : 19**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P11	P	G7		0.5	Completed down loading data from ADN tool and racked back stand.
2600.0	P11	U	E3		1	Held TBT. Rigged up Schlumberger wire line.
2600.0	P11	U	E3		5	Picked up and made XPT/DSI tools and ran log #1. RIH hole at 02.40 hrs. Logged down as per program. Attempted to take pressure readings at:1709m, 1710m, 1860m. No response from draw down on tool at 1862m. Attempted to pull back to 1800m - 1500 lbs overpull at at 1850m, tool string stuck at 1832m, functioned tool and worked tool string free. RIH to 1955m no response from XPT tool at the following depths: 1710m, 1709m, 1880m, 1862m, 1922m, 1955m.
2600.0	P11	U	E3		5.5	RIH with XPT/DSI tools held up at 2525m WLM. Logged up from 2525m - 2297m. POOH to 2125m, continued logging up from 2125m - 50m.
2600.0	P11	U	E3		1.5	POOH and laid out tool string. Found probe protruding from tool, sealing packer cracked, 2 fins missing from standoff and 1 fin missing from second standoff. Picked up and made up MDT tool string.
2600.0	P11	TU	E3	TP	10	RIH with log #2 MDT/GR. Correlated GR @ 2450m. Attempted to retrieve readings at 2513m, 2510m, 2505m - unable to get seal. Pulled up to claystone at 2498m and functioned tool - good seal. Continued to take readings in 400 and 300 sands down to 2568m. POOH and took readings in Admiral Sands and Chimera Sands. POOH with log #2 from 1732m.
2600.0	P11	TU	E3	TP	0.5	POOH with log run#2 from 1732m.

Date : 08 Jul 2008 **Daily Cost : AUD$ 669200** **Report Number : 20**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity

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Date : 08 Jul 2008 **Daily Cost : AUD$ 669200** **Report Number : 20**

2600.0	P11	TU	E3	TP	2	POOH with log #2 MDT and laid out tool string.
2600.0	P11	U	G11		3.5	Rehead wire line cable and dressed SWC tool with shots.
2600.0	P11	U	E3		5	Picked up SWC tool string and RIH with log #3. Correlate SWC with GR at 2150m, RIH to bottom at 2600m (Tight spot at 2425m). Take SWC as per program, 30 shots fired, suspected 2 shots miss fired. Second gun not firing.
2600.0	P11	U	E3		2	POOH with log #3 SWC. 28 shots fired, 2 shots miss fired.100 % recovery from bullets fired SWC run #1.
2600.0	P11	TU	G11	TP	2.5	Rehead wire line cable and dress SWC tool with shots.
2600.0	P11	TU	E3	TP	0.5	Waited on helicopter operations to commence radio silence.
2600.0	P11	TU	E3	TP	5	Picked up SWC tool string and RIH with log #4. RIH to 22425m , correlated SWC with GR at 2425m. Take SWC as per program 30 shots fired.
2600.0	P11	TU	E3	TP	1.5	POOH with log #4 SWC. 30 shots fired, 4 shots missing. 100 % recovery from bullets fired SWC run #2.
2600.0	P11	U	E3		1	Rigged down Schlumberger wireline and cleared catwalk of tools.
2600.0	P11	U	G6		1	Picked and made up wiper trip BHA.

Date : 09 Jul 2008 **Daily Cost : AUD$ 684100** **Report Number : 21**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P11	U	G6		1.5	RIH with BHA to 185m.
2600.0	P11	U	G8		8	RIH with 5.5in drill pipe to 2584m. No excess drag noted.
2600.0	P11	U	F4		0.5	Broke circulation at 2584m.
2600.0	P11	TU	G11	RE	0.5	While break circulation rig blacked out.
2600.0	P11	U	D6		0.5	Washed and reamed to bottom from 2584m - 2600m. WOB 5klbs, 1050 gpm, 3900 psi, 150 RPM. 5 - 8k ft/lbs torque. Worked junk sub x 3 times on bottom.
2600.0	P11	U	F4		1	Circulated hole clean. Observed a slight increase in fines over shakers at bottoms up. Mud weight out 12.2ppg.
2600.0	P11	U	D6		3.5	Flow checked 15 minutes, pumped and back reamed from 2600m - 2258m with 1050 gpm, 3900 psi, 150 RPM. 8k ft/lbs torque. No excess drag observed.
2600.0	P11	U	F4		1	Circulated hole clean. Observed no increase in cuttings over shakers at bottoms up. Mud weight out 12.2ppg.
2600.0	P11	U	G8		5.5	POOH to BHA. No excess drag observed. Flow checked at shoe and prior BHA entering Bop's.
2600.0	P11	U	G6		2	POOH with BHA, break out bit and junk sub. 8 SWC bullet retaining rings found on NBS and no junk in junk sub.

Date : 10 Jul 2008 **Daily Cost : AUD$ 666100** **Report Number : 22**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P11	TU	E3	TP	1	Rigged up Schlumberger wire line.
2600.0	P11	TU	E3	TP	10.5	Made up tool string. RIH with log run #4 MDT/GR at 01.25 hrs and log as per geologists instructions.
2600.0	P11	TU	E3	TP	2	POOH with MDT/GR, laid out tools and rigged down Schlumberger wireline.
2600.0	P13	P	G16		1.5	Picked up and made up well head jetting tool and wear bushing retrieval tool.
2600.0	P13	P	G10		1	Removed diverter inner and outer inserts.
2600.0	P13	P	G16		0.5	RIH and jetted arcoss BOP's with 120 spm, 750 gpm, 2,500 psi. RIH to Wellhead.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 10 Jul 2008 **Daily Cost : AUD$ 666100** **Report Number : 22**

2600.0	P13	TP	G11	RE	7.5	Power failure, trouble shoot same. Found contaminated fuel in fuel filters. Changed all 8 fuel filters on 4 engines. Transferred contaminated fuel from day tank to 11C.

Date : 11 Jul 2008 **Daily Cost : AUD$ 397500** **Report Number : 23**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	TP	G11	RE	24	Transferred contaminated fuel from day tank to 11C. Opened inspection cover on day tank, found sludge and water in the bottom of day tank. Cleaned out day tank. Found that the penetration for the sludge drain line into the tank was never made during fabrication. Drilled a 0.5in hole in tank to allow daily draining of tank. Started #1 engine to run fuel purifier and commenced transferring fuel into day tank via fuel purifier. Removed injectors from engine #4 and installed injectors into engine #5. While waiting on power continued Sub Sea Tree preparations and testing. Continued preparations for stand pipe repairs. Made up RTTS assembly with joint 5.5in drill pipe on cat walk. Prepared and reviewed written instructions for future operations.

Date : 12 Jul 2008 **Daily Cost : AUD$ 382800** **Report Number : 24**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	TP	G11	RE	17	Changed out injectors on main engines as required and set up same on engines. Engine #5 online at 10.00 hours. Engine #3 online at 17.00 hours. Engine #1 online at 22.00 hours. Found small leak on fuel heat exchanger.
2600.0	P13	P	G16		2.5	Jetted wear bushing. Engaged and pulled wear bushing. Picked up 10m and jetted well head area. POOH and laid out jetting/pulling assembly. Very light wear observed on wear bushing.
2600.0	P13	P	G9		2	Loaded dart into cement head, made up same to a stand of heavy weight drill pipe and racked back in derrick. All tubulars drifted to 2.75in.
2600.0	P13	P	G9		2	Picked up and made up 10.75in casing hanger and running tool, loaded plugs and racked back in derrick on a double of heavy weight drill pipe. All tubulars drifted to 2.75in.
2600.0	P13	P	G1		0.5	Rigged up to run 10.75in casing.

Date : 13 Jul 2008 **Daily Cost : AUD$ 618700** **Report Number : 25**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	P	G1		1	Rigged up to run 10.75in casing.
2600.0	P13	TP	G1	RE	0.5	Lost 30 minutes rigging up to run 10.75in casing due to bail retaining plates on top drive bent thus increasing time required to remove and re-install plates for changing out bails.
2600.0	P13	P	G1		0.5	Completed rigging up to run 10.75in casing.
2600.0	P13	P	G9		11	Held JSA ran 10.75in casing as per program to 750m. Checked shoe and float collar. Installed RA pip tag between joints # 215 & 214 depth when landed = 2439.43m. Experienced difficulty getting centralizers through wellhead with 10.75in shoe @337m. Worked through but hung up itermittently with other centralisers. Left off last 7 centralisers. Continued running 10.75in casing to 16in shoe at 750m. Good displacement.
2600.0	P13	U	G23		0.5	Held Safety Stand-down with all crews and Third Party Contractors to review recent incidents. Emphasized to crews the importance of reporting incidents as soon as they happen. Expressed serious concerns about current trends and the apparent lack of personal responsibility for actions. Re-enforced to crews the need to follow procedures and stop the job if they have concerns. Pointed out the need to be constantly vigilant, and to assess tasks no matter how simple before proceeding. Reminded Supervisors of their responsibility to plan for jobs and to ensure that work is carried out in a safe manner.
2600.0	P13	P	G9		10.5	Continued running 10.75in casing as per program from 750m - 2328m.

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Date : 13 Jul 2008 **Daily Cost : AUD$ 618700** **Report Number : 25**

No hole problems and good displacement.

Date : 14 Jul 2008 **Daily Cost : AUD$ 2754600** **Report Number : 26**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	P	G9		1.5	Continued to run 10.75in casing from 2328m - 2490m. No hole problems. Good displacement.
2600.0	P13	P	G9		1.5	Rigged down casing fill up tool, elevators and bails. Picked up short bails and drill pipe elevators.
2600.0	P13	P	G9		2	Picked up and made up 10.75in casing hanger and RIH with landing string drifting to 2.75in. Picked up cement head. Landed out 10.75in casing hanger at well head and confirmed with pipe measurements. Top 10.75in casing hanger at 94.62m. 10.75in casing shoe at 2590.78m 10.75in casing float collar at 2566.77m.
2600.0	P13	P	G1		1.5	Rigged up surface cement lines.
2600.0	P13	P	F4		2.5	Circulated 1.5 x casing volume at 8 bpm, 800psi, no losses obseved while circulating.
2600.0	P13	P	F3		1	Pumped 5 bbls drill water and tested surface lines to 4,000psi. Pumped 50 bbls tuned spacer at 13.50 ppg, 6.60bpm and 430psi. Observed pressure increase from 430 psi to 2700 psi after 46 bbls tuned spacer pumped, pressure then fell back to 430 psi.
2600.0	P13	TP	F3	TP	0.5	Dropped ball and pumped 3.5 bbls in attempt to launch bottom plug. No increase in pressure observed.
2600.0	P13	TP	F7	TP	1	Assessed situation and discussed options with town.
2600.0	P13	TP	F4	TP	2.5	Circulated casing volume at 10bpm and 650psi. Slowed pumps to 8bpm and 460psi after pumping 700bbls. After pumping 752 bbls observed pressure increase (casing capacity = 755 bbls). Increased pressure in stages to 4,500psi - pressure held steady. Bled off pressure.
2600.0	P13	TP	F7	TP	1	Assessed situation and discussed options with town.
2600.0	P13	TP	G11	TP	2	Rigged down cement lines and released CHSART from 10.75in casing. POOH and laid out CHSART.
2600.0	P13	TP	G2	TP	1	Broke out and laid out cement head. No dart in cement head.
2600.0	P13	TP	G2	TP	2	Made up wear bushing running tool. Ran and installed wear bushing. POOH and laid out running tool.
2600.0	P13	TP	G10	TP	0.5	Installed diverter bag and inserted same.
2600.0	P13	TP	G8	TP	3.5	Made up 9.5in Hughes MX-1 bit, 2 x stands 6.5in Drill Collars, HWDP and RIH with drill pipe to 358m.

Date : 15 Jul 2008 **Daily Cost : AUD$ 656500** **Report Number : 27**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	TP	G8	TP	6	Continued to RIH with 9.5in drill out assembly from 358m to 2550m.
2600.0	P13	TP	F4	TP	0.5	Broke circulation and established parameters. Tagged plugs at 2566m.
2600.0	P13	TP	D1	TP	5.5	Drilled out top plug, bottom plug and float using 30-50 RPM, 800 gpm and 5-12 Klbs WOB. Cleaned out shoe track to top of shoe and drilled out shoe at 2590m. Washed and reamed top bottom at 2600m.
2600.0	P13	TP	F4	TP	1	Circulated hole clean and took SCR's.
2600.0	P13	TP	F3	TP	0.5	Flowchecked - static. Pumped slug.
2600.0	P13	TP	G8	TP	4	POOH from 2600m to 210m.
2600.0	P13	TP	G8	TP	2	Flowchecked - static. Continued POOH with 9.5in BHA.
2600.0	P13	TP	G6	TP	1.5	Rigged up 2.875in handling equipment and made up 2.875in stinger consisting of 2 joints of 2.875in DP and a mule shoe. RIH same to 30m.
2600.0	P13	TP	G1	TP	1	Made up side entry sub with TIW valves above and below for cementing purposes and stood back in derrick.
2600.0	P13	TP	G8	TP	2	Continued to RIH with 2.875in stinger on 5.5in DP from 30m to 769m. Broke circulation at 473m.

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Date : 16 Jul 2008 **Daily Cost : AUD$ 855900** **Report Number : 28**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	TP	G8	TP	3.5	Continued RIH with 2.875in stinger on 5.5in DP from 769m to 2350m.
2600.0	P13	TP	G10	TP	1.5	Removed diverter insert packers.
2600.0	P13	TP	G12	TP	1.5	Picked up w/bushing r/tool and RIH to retrieve w/bushing. Laid down r/tool.
2600.0	P13	TP	G5	TP	1.5	Picked up and made up RTTS packer.
2600.0	P13	TP	G8	TP	0.5	RIH with RTTS packer and set same at 140m, stinger at 2490m.
2600.0	P13	TP	F4	TP	2	Circulated hole clean around casing with 590gpm, 1325psi.
2600.0	P13	TP	G10	TP	0.5	Unseated RTTS, picked up cement stand with side entry sub and TIW valves above and below sub. Spaced out and set RTTS at 149m placing stinger at 2499m.
2600.0	P13	TP	G1	TP	0.5	Rigged up surface lines and held PJSM.
2600.0	P13	P	F3		2	Pumped 10bbl water, pressure tested surface lines to 3000psi and pumped further 10bbl water. Pumped 30bbl tuned spacer, mixed and pumped 200bbl class G cement at 15.8ppg and displaced cement with 183bbl SBM using rig pumps. Theoretical TOC behind 10.75in casing at 1900m. Cement top inside 10.75in casing at 2537m.
2600.0	P13	TP	F7	TP	5.5	WOC. Monitored well while WOC. (Drill crew installed seal in stand pipe union)
2600.0	P13	TP	G10	RE	1.5	Attempted to open TIW valve to bleed off pressure and check for backflow - unable to open valve. Equalized pressure across valve using various pressures - unable to open valve. Cracked service jnt on TIW - still unable to open valve.
2600.0	P13	TP	G10	RE	0.5	Closed annular and attempted to unseat RTTS with 40k lbs o/pull - no success.
2600.0	P13	TP	G10	RE	0.5	With annular closed, pumped down kill line to 350psi above packer to equalize pressure across RTTS. Attempted to unseat packer with 60k lbs o/pull - no success.
2600.0	P13	TP	G10	RE	1.5	Slacked off running string weight onto RTTS, closed upper pipe rams and annular. Broke out DP tool joint below TIW and allowed pressure to bleed off at broken connection.
2600.0	P13	TP	G10	RE	1	Made up DP tool joint and attempted to unseat RTTS - no success. Closed annular and applied 100psi through kill line to top of RTTS - pulled RTTS free with 35k lbs o/pull.

Date : 17 Jul 2008 **Daily Cost : AUD$ 665800** **Report Number : 29**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P13	TP	G5	TP	0.5	Worked RTTS to ensure free movement, stand back cementing stand in derrick and flow check 10 min.
2600.0	P13	TP	G8	TP	0.5	POOH RTTS from 149m to surface, stinger at 2350m.
2600.0	P13	TP	G5	TP	0.5	Laid out RTTS.
2600.0	P13	TP	G8	TP	3.5	Continued POOH with cement stinger from 2350m to 1106m. Pumped slug at 1422m.
2600.0	P13	P	G2		0.5	Picked up and made up seal assy and running tool to string.
2600.0	P13	P	G8		1	RIH with 10.75in hanger seal assy to 95.2m.
2600.0	P13	P	P2		2.5	Landed seal assy, held PJSM, lined up cement unit, flushed lines with 2bbl fresh water and pressure tested lines to 500psi/3000psi for 5/10 min. Closed annular and presured up seal assy and tested same to 500psi/3000psi for 5/10 min.
2600.0	P13	P	G8		2	Released Cameron r/tool with 50k lbs o/pull and POOH with r/tool.
2600.0	P26	P	G5		0.5	Made up RTTS packer with storm valve in place.
2600.0	P26	P	G8		1	RIH with RTTS to 155m.
2600.0	P26	P	G10		0.5	Set RTTS and backed off running string with 22 turns to the left. Tested RTTS to 500psi OK.
2600.0	P26	P	F3		1.5	Held PJSM, pumped 50bbl hi-vis spacer and displaced hole from 150m to surface with sea water. Flushed choke and kill lines and functioned BOP.
2600.0	P26	P	G8		1.5	POOH with RTTS r/tool, made up DQ clutch type r/tool and racked back same in derrick.
2600.0	P26	P	G13		7.5	Held PJSM, rigged up handling equipment and nippled down diverter housing, overshot, laid down mousehole. Nippled down mandril, choke line and set BOP on stump. Rigged up long casing bails.
2600.0	P26	P	G1		0.5	Prepared to pick up work platform.

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Date : 18 Jul 2008 **Daily Cost : AUD$ 689300** **Report Number : 30**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	G1		1	Held PJSM and continued to rig up to remove work platform.
2600.0	P26	TP	G10	TP	0.5	Dress damaged threads on wellhead housing where clutch tool makes up to wellhead.
2600.0	P26	P	G1		0.5	Picked up and set back BOP work platform on to main deck.
2600.0	P26	P	G1		1.5	Held PJSM, picked up DQ clutch type r/tool and made up same to wellhead and riser joints. Took 40k lbs O/pull and released tension on CTU.
2600.0	P26	P	G10		6.5	Removed Claxton clamp and laid down same. Lost one slip segment of clamp while opening up main bolts on clamp - slip segment retaing bolt had sheared off due to uncontrollable movement of CTU. Removed and racked back CTU.
2600.0	P26	P	G10		7	Unlatched H4 connector - observed operation with ROV. Held PJSM and racked back DQ clutch type r/tool. Changed out elevators and continued to lay down 22in riser joints. Raised H4 connector to Texas deck, installed C-plate and disconnected riser from H4 connector. Continued laying down riser. ROV installed trash cap on 18.75in wellhead housing.
2600.0	P26	P	G1		3.5	Rigged down Weatherford tools, picked up handling slings and picked up H4 connector. Cleared all tools and handling equipment from Texas deck.
2600.0	P26	P	G1		1	Prepared to skid rig, held PJSM.
2600.0	P26	P	M2		2	Commenced skidding rig, removed gumbo hose and continued skidding rig 15ft.
2600.0	P26	P	G10		0.5	Lowered H4 connector to main deck.

Date : 19 Jul 2008 **Daily Cost : AUD$ 691800** **Report Number : 31**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	M2		1	Prepared to skid out cantilever, held PJSM and skidded out cantilever to allow Texas deck to be racked back.
2600.0	P26	P	G1		2	Removed Texas deck stairs and set back same. Raised and pinned Texas deck to transom.
2600.0	P26	P	M2		2	Continue to skid cantilever in and rig floor to starboard side to position rig floor over sub-sea tree.
2600.0	P26	P	G1		1	Removed kill line on BOP to allow further positioning of rig floor over SST.
2600.0	P26	P	M2		0.5	Skidded rig in 2ft for final alignment to pick up SST.
2600.0	P26	P	M2		1.5	Prepared, held PJSM and skidded rig transversely to stbd side for final alignment with SST.
2600.0	P26	P	G1		2.5	Removed r/u slings & bails, installed DP elevators and made up r/tool adapter to 1 stnd HWDP. Lowered same through rotary and made up to SST r/tool. Held PJSM and picked up SST - 142k lbs.
2600.0	P26	P	M2		0.5	Tranversed rig 5ft to port side.
2600.0	P26	P	G1		1	Connected and prepared umbilical for running with landing string.
2600.0	P26	P	M2		4.5	Held PJSM, skidded rig to 25ft, lowered SST to below hull, skidded rig transversely to well centre and skidded cantilever deck forward to allow clamping of umbilical to HWDP while running SST.
2600.0	P26	P	G10		1	Lowered SST to 90m on HWDP.
2600.0	P26	P	M2		0.5	Skidded rig to well centre.
2600.0	P26	TP	G11	TP	3.5	Troubleshot problems with ROV. Intermittent nature of problems made for additional difficulty of solving them.
2600.0	P26	P	M2		2.5	ROV back on bottom. Removed trash cap and skidded rig both to port and forward to align SST with 18.75in wellhead at seabed.

Date : 20 Jul 2008 **Daily Cost : AUD$ 678200** **Report Number : 32**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	G10		1	Skidded rig for final alignment and landed SST on 18.75in wellhead. Slacked off 30k lbs on to wellhead and activated H4 with 3000psi pressure. Observed H4 indicator move to fully closed position. Took 50k lbs o/pull to confirm connection. Confirmed SST orientation of 270 deg using ROV.
2600.0	P26	P	P2		1	Pressure tested VX ring to 5000psi for 15min.
2600.0	P26	P	G10		0.5	Set down 50klbs weight and unlatched TRT.
2600.0	P26	P	G10		1.5	ROV disconnected IWOCS stabbing plate from SST and connected same to TRT for recovery.

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2600.0	P26	P	G10		0.5	ROV performed survey around SST to confirm no snags for recovery of TRT. Held umbilical away from SST at one potential snagging point.
2600.0	P26	P	G10		1	Pulled TRT above SST, skidded rig forward to allow for recovery of umbilical. POOH TRT.
2600.0	P26	P	M2		1.5	Skidded rig out to allow space for lifting of TRT above hull into moonpool.
2600.0	P26	P	G1		0.5	Removed scaffold work platform.
2600.0	P26	P	M2		2.5	Skidded cantilever in and rig floor transversely to align TRT with skid frame, set down on frame and disconnected DP from TRT.
2600.0	P26	P	M2		2	Skidded sub-base in line with well centre and cantilever out to pick up Texas deck. Lowered Texas deck down.
2600.0	P26	P	M2		3	Held PJSM, picked up H4 connector and skidded rig out to align with Texas deck slot.
2600.0	P26	P	G1		0.5	Installed stairway and handrails on Texas deck.
2600.0	P26	P	G1		1.5	Installed C-plate on Texas deck and landed H4 on C-plate. Rigged down H4 handling equipment and rigged up W/ford 22in equipment.
2600.0	P26	P	G9		1.5	Held PJSM and ran 22in riser to Texas deck.
2600.0	P26	P	G10		1.5	Made up DQ RBC connector on to top of H4 and torqued up locking dogs.
2600.0	P26	P	G10		1	Connected 2 core umbilical jumpers on H4 connector and strapped same to riser. Function tested umbilical controls.
2600.0	P26	TP	G10	TP	1	Unable to remove riser protectors from riser joints (protectors damaged). Removed protectors by cutting same.
2600.0	P26	P	G9		2	Continued running 22in riser joints while strapping umbilical to riser.

Date : 21 Jul 2008 **Daily Cost : AUD$ 281800** **Report Number : 33**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	G9		1	Continued running 22in riser.
2600.0	P26	P	G9		3	Changed out handling equipment, picked up DP stand with DQ clutch type r/tool and made up same to wellhead joint. Stroked H4 to open position. Lowered riser and manipulated positioning with tuggers and ROV to enable latching on to SST with H4 connector. Set down 10klbs weight on SST and activated H4 with 1500psi activating pressure. Observed H4 indicator showing fully locked position. Lock in activating pressure at surface. Performed 50k o/pull test on H4.
2600.0	P26	TP	P1	TP	1	Filled riser with sea water and fluorescene dye from cementing unit. Attempted pressure test to 500psi on H4 and riser - DQ clutch type r/tool leaking. Abandon test.
2600.0	P26	TP	G1	TP	1	Lowered CTU into position and nippled up same. Offline: Connected service hoses and wedged skid points on cantilever.
2600.0	P26	TP	G25	WOW	18	Waited on weather. Wind speed 50 - 55 knots through most of the day, seas extremely rough. Increased tension on riser from 20klbs o/pull to 100klbs o/pull. Rigged up kill line to BOP, pressure tested choke manifold down stream valves to 300/5000psi 10min. Pressure tested mud manifold to 300/5000psi 10min.

Date : 22 Jul 2008 **Daily Cost : AUD$ 819300** **Report Number : 34**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	TP	G25	WOW	9.5	WOW. Continued pressure testing of choke manifold to 300/7500psi 5/10min. and mud manifold to 300/5000psi 5/10min. Performed general rig maintenance. Weather at 5:30: Wind 28 - 39knots, swell to 3 - 4m.
2600.0	P26	P	G10		5.5	Wind and sea state improved - held PJSM and installed CTU. Held PJSM with new crew and continued installing Claxton clamp. Took tension with CTU - 100 ton.
2600.0	P26	P	G1		3	Released DQ r/tool from riser wellhead and laid down same. Rigged down elevators, rigged up slings and installed work platform on Texas deck. Rigged up for BOP installation.
2600.0	P26	P	G13		3.5	Nippled up 18.75in BOP, installed and torqued up mandrel. Prepared overshot and diverter. Increased CTU tension to 200 ton.
2600.0	P26	P	P1		0.5	Tested BOP connection and H4 connection above SST against shear rams to 500psi, 10min - OK.

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DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 22 Jul 2008 **Daily Cost : AUD$ 819300** **Report Number : 34**

2600.0	P26	P	G13		1	Installed overshot and diverter packer.
2600.0	P26	P	G13		1	Nippled up choke line.
						Offline: Attended to leak on TDS grabber and changing out saver sub on TDS.

Date : 23 Jul 2008 **Daily Cost : AUD$ 432500** **Report Number : 35**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	G13		4.5	Continued nippling up choke line. Offline: Changed out saver sub on TDS, worked on changing out dolly bearing for TDS, attending to leak in gripper on TDS. Support shaft for grabber badly bent, requiring heating to straighten up.
2600.0	P26	TP	G11	RE	15.5	Continued with repairs on TDS. Support shaft for grabber badly bent, requiring heating to straighten up. Changed out dolly bearings for TDS. Attended to leak on grabber. Changed out wash pipe.
2600.0	P26	P	G11		3.5	Slipped and cut 90ft of drilling line. Calibrated travelling block settings, checked crown and floor savers.
2600.0	P26	P	G5		0.5	Made up RTTS r/tool to retrieve RTTS packer and cementing string.

Date : 24 Jul 2008 **Daily Cost : AUD$ 1096563** **Report Number : 36**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P26	P	G10		3	RIH with RTTS r/tool to 150m, broke circulation and filled well. With pump at 1 bbl/min, tagged RTTS with r/tool at 155m with 3klbs. Observed pressure build up. Screwed into RTTS with 22 turns - torque build up to 4kft-lbs. Unseated RTTS with 10klbs o/pull, POOH RTTS to surface.
2600.0	P26	P	G5		1	Made service breaks on RTTS and Storm valve and laid down same.
2600.0	P26	P	G8		3.5	Continued to POOH with cementing string from 917m to top of 2.875in stinger. Broke out x/over and laid out 3 jnts 2.875in DP stinger.
2600.0	P26	P	P2		1.5	Filled riser and well with water and pressure tested casing, H4 to SST, SST to 18.75in wellhead, BOP connection to riser and shear rams. Pressured up to 4000psi, pressure bled off to 3000psi and held at 3000psi.
2600.0	P26	P	P2		1	Rigged up and pressure tested manual and actuated IBOP's to 500/5000psi. Swivel packing leaking.
2600.0	P26	TP	G11	RE	1.5	Removed, inspected and re-installed swivel packing.
2600.0	P26	P	G1		2.5	Rigged down surface lines. Picked up cement stand from derrick, broke out 2x TIW valves and side entry sub and laid down 8.5in DC and stabilizers.
2600.0	P26	P	G6		2.5	Picked up Anadrill BHA from derrick and laid out same.
						*** END OF LONGTOM-4 WELL at 16h30 on 24/07/08 ***

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Activity Report For Longtom-4 H

Date : 01 Aug 2008 | **Daily Cost : AUD$ 45268500** | **Report Number : 1**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2698.0	P12	P	G2		2.5	**** Start of LONGTOM-4 H **** Laid down 2.875in cement stinger joints. Offline: Fitted overflow pipe on flowline.
2698.0	P12	P	G6		3.5	Cleaned rig floor and made up 9.5in rotary steerable BHA. Loaded RA source and RIH with bit #10 to 214m.
2698.0	P12	P	P2		0.5	Shallow tested MWD tools @ 650gpm, 1650psi.
2698.0	P12	P	G8		1	RIH with 9.5in bit #10, picking up DP from 214m to 293m.
2698.0	P12	TP	G11	RE	1	Hydraulic hose burst on Iron Roughneck - changed out same.
2698.0	P12	P	G8		7	Continued to RIH with bit #10 picking up DP from 293m to 1246m.
2698.0	P12	P	G11		1	Performed rig service.
2698.0	P12	TP	G11	RE	2	Installed oil cooler fan and motor to TDS.
2698.0	P12	P	G8		1	Continued to RIH with pipe from derrick from 1246m to 1452m.
2698.0	P12	TP	G25	WOW	4.5	Shut down operations due to extreme winds - 55 to 70knots.

Date : 02 Aug 2008 | **Daily Cost : AUD$ 691700** | **Report Number : 2**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2698.0	P12	TP	G25	WOW	5	Waited on weather. Wind speeds from 36 - 55knots during this period.
2698.0	P12	TP	G25	WOW	0.5	Waited on weather. Wind speed 37 - 44knots. Held Time-out for Safety and PJSM prior to continuing to RIH.
2690.0	P12	P	G8		3.5	Continued to RIH with 9.5in bit #10 from 1452m to TOC at 2690m. Tagged cement with 25klbs. Filled string every 15stands and broke circulation at shoe.
2696.0	P12	P	D1		2	Drilled cement from 2690m to 2696m. Reamed drilled section several times to prepare ledge for sidetrack.
2719.0	P12	P	D4		13	Time drilled as per DD requirements from 2696m to 2719m to commence kick-off. Sample at 2719m: 70% formation, 30% cement. Drilling parameters: 680gpm, 2500psi, 120 RPM, WOB 5-7klbs, Torque 5-6kft-lbs.

Date : 03 Aug 2008 | **Daily Cost : AUD$ 687300** | **Report Number : 3**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
3006.0	P12	P	D4		24	Drilled ahead 9.5in controlled drilling as per DD requirements from 2719m to 3006m. Sample at 2723m: 90% formation, 10% cement. Sample at 2727m: 95% formation, 5% cement. After kick-off, increased allowable ROP in stages and confirmed sample composition at each increase to ensure kick-off not dropping back into pilot hole. Drilling parameters: 150 RPM, 8-10klbs WOB, 730gpm, 2500psi, 11-12kftlbs torque. MWD tools did not provide accurate directional data after 2941m. Used Xceed to provide necessary data.

Date : 04 Aug 2008 | **Daily Cost : AUD$ 692100** | **Report Number : 4**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
3081.0	P12	P	D4		5	Drilled ahead 9.5in controlled drilling as per DD requirements from 3006m to 3081m.
3081.0	P12	TP	G11	RE	0.5	Repaired hydraulic leak on TDS.
3259.0	P12	P	D4		18	Drilled ahead 9.5in controlled drilling as per DD requirements from 3081m to 3259m. Drilling parameters: 150RPM, 10klbs WOB, 125stks, 730gpm, 2900psi.
3259.0	P12	TP	G11	TP	0.5	Cycled pumps and moved pipe to restart MWD tools as per DD instructions.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 05 Aug 2008 **Daily Cost : AUD$ 739100** **Report Number : 5**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
3525.0	P12	P	D4		14.5	Drill ahead 9.5in hole as per DD requirements from 3259m to 3525m. (2627.2mTVD) Drilling parameters: 150rpm, 8klbs WOB, 125stks, 730gpm, 3200psi.
3525.0	P12	TP	D4	TP	1	Problems with MWD tool. Broke out TDS, racked back one stand, reciprocated pipe, connected TDS and restart MWD.
3573.0	P12	P	D4		3	Continued drilling ahead from 3525m to 3573m.
3573.0	P12	TP	D4	TP	0.5	Problem with MWD tool. Reciprocate pipe and recycle pumps to start MWD tool.
3577.0	P12	P	D4		0.5	Continued drilling from 3573m to 3577m (2626.0mTVD). Further problems with MWD tool.
3577.0	P12	TP	F4	TP	2.5	Circulate 1x bottoms up while working first stand of pipe. 180rpm, 700gpm during circulation. Rack back one stand and circulate 1x bottoms up while working second stand pipe. 180rpm, 700gpm during circulation.
3577.0	P12	TP	G8	TP	2	POOH from 3577m to 3149m under K&M supervision. Work tight spots, without circulation, from 3230m to 3147m for 4 stnds. Over pull 20 klbs to max 35klbs.

Date : 06 Aug 2008 **Daily Cost : AUD$ 747000** **Report Number : 6**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
3577.0	P12	TP	G8	TP	2.5	Continued to POOH from 3149m to 10.75in, shoe at 2590m. Tight spots from 3230m to 3147m for 4 stnds and from 2751m to 2748m. Max o/pull 35klbs.
3577.0	P12	TP	F3	TP	0.5	Performed flowcheck at 10.75in shoe and pumped slug.
3577.0	P12	TP	G8	TP	4	Continued to POOH from 2591m to 214m. Flowchecked at BHA.
3577.0	P12	TP	G8	TP	6	Continued to POOH and lay down all BHA tools. Removed RA source from tools. Picked up new 9.5in bit and new MWD, LWD and rotary steerable tools. Loaded RA source in BHA and RIH with bit #11 to 273m.
3577.0	P12	TP	P2	TP	0.5	Made up TDS and shallow tested BHA tools.
3577.0	P12	P	G11		2.5	Held JSA and slipped and cut of 80ft drill line.
3577.0	P12	P	G11		1	Serviced TDS.
3577.0	P12	TP	G8	TP	5	Continued RIH with 9.5in bit #11 from 273m to 2577m filling every 15 stnds.
3577.0	P12	TP	G11	RE	2	Held JSA and commenced changing out saver sub and grabber dies on TDS.

Date : 07 Aug 2008 **Daily Cost : AUD$ 755400** **Report Number : 7**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
3577.0	P12	TP	G11	RE	1	Continued with changing out saver sub and grabber dies on TDS.
3577.0	P12	TP	G8	TP	1.5	Continued to RIH from 2577m to 3129m. Hole tight.
3577.0	P12	TP	F1	TP	4.5	Worked pipe through tight spots including washing and reaming from 3129m to 3289m. Max 40klbs over sliding weight to RIH without rotation.
3577.0	P12	TP	G8	TP	1	Continued RIH from 3289m to 3555m.
3577.0	P12	TP	F1	TP	0.5	Washed and reamed from 3555m to 3577m and established drilling parameters.
3791.0	P12	P	D4		15.5	Continued controlled drilling as per DD and geology requirements from 3577m to 3791m (2626.8mTVD). Drilling parameters: 150rpm, 5-12klbs WOB, 600-720gpm, 2400-3100psi, 10-14kft-lbs torq, 25-30m/hr max ROP. Intersected "100" sand at 3635m.

Date : 08 Aug 2008 **Daily Cost : AUD$ 699400** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4220.0	P12	P	D4		24	Continued controlled drilling as per DD and geology requirements from 3791m to 4220m (2675m TVD). Drilling parameters: 10k WOB, 150rpm, 760gpm, 3600psi, 10-15kft-lbs torque.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 09 Aug 2008 **Daily Cost : AUD$ 688900** **Report Number : 9**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4558.0	P12	P	D4		18	Continued controlled drilling as per DD requirements from 4220m to 4558m. Drilling parameters: 150rpm, 17-25klbs WOB, 760gpm, 3900psi, 13-19kft-lbs torque.
4558.0	P12	TP	G11	RE	0.5	Wash pipe leaked on TDS - retighten.
4558.0	P12	P	G2		1.5	Decison from Nexus to drill further requiring pick up of extra DP. POOH 5 stnds from 4558m to 4411m and rack back.
4558.0	P12	TP	G2	WB	1.5	Picked up first jnt of HT55 DP and attempted to RIH - unable to RIH with 40klbs down. Laid down the HT55 jnt, picked up a stnd of DP, made up TDS and reamed past 4412m to end of stnd. Racked back stnd of DP.
4558.0	P12	P	G2		1	Continued to pick up 10jnts of HT55 DP and 2 jnts of XT57 DP and x/overs making up a total of 4 stnds.
4582.0	P12	P	D4		1.5	Continued drilling 9.5in hole as per DD requirements from 4558m to 4582m.

Date : 10 Aug 2008 **Daily Cost : AUD$ 677900** **Report Number : 10**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P12	P	D4		2.5	Continued drilling 9.5in hole as per DD requirements from 4582m to 4648m. (2695.9m TVD). Final depth of well as confirmed by Nexus.
4648.0	P12	P	F4		7.5	Circulated hole clean at 760gpm, 150rpm racking back one stand of DP every hour after circulating 1x bottoms up. Repeated above for 5 stands to 4472m.
4648.0	P12	P	D6		3	Continued POOH backreaming every stand at 150rpm and 760gpm from 4472m to 4354m.
4648.0	P12	TP	G11	RE	4	Wash pipe leaking. Changed wash pipe - still leaking. Removed new wash pipe, redressed old wash pipe and install same.
4648.0	P12	P	D6		7	Continued POOH backreaming every stand at 150rpm and 760gpm from 4354m to 3823m. Tight spot at 3810m - worked same and continued.

Date : 11 Aug 2008 **Daily Cost : AUD$ 718800** **Report Number : 11**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P12	P	D6		3	Continued POOH backreaming every stand at 150rpm and 760gpm from 3823m to 3469m.
4648.0	P12	TP	F2	RE	0.5	Leaking valve between pit 3 and pit 6 caused base oil to dilute mud system and reduce the MW. Circulate while weighting up system.
4648.0	P12	P	D6		6.5	Continued POOH backreaming every stand at 150rpm and 760gpm from 3469m to 2607m. Circulated for 15min weighting up mud system during this period.
4648.0	P12	P	F4		1	Circulated 2x bottoms up.
4648.0	P12	P	G8		6	Performed flow check and continued POOH from 2607m to 214.8m. Pumped slug at 2163m.
4648.0	P12	P	G6		3.5	Continued POOH laying out jar and all Schlumberger BHA tools including RA source.
4648.0	P19	P	G1		3.5	Cleaned rig floor, rigged up Weatherford equipment, made up liner setting sleeve and laid down same. Laid out 1 single on stnd 1 and made up same on top of cementing head placing pup DP below cement head.

Date : 12 Aug 2008 **Daily Cost : AUD$ 1549400** **Report Number : 12**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	P	G1		1	Continued to rig up cement head. Checked presence of dart and dart retaining flapper. Racked back same in derrick.
4648.0	P19	P	G1		1.5	Changed out bails to long 500T bails and continued rigging up to run liner.
4648.0	P19	P	G9		21.5	Held JSA and ran 7 inch liner to 2050m, filling liner every 5 jnts. Checked correct operation of float and shoe.

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Date : 13 Aug 2008 **Daily Cost : AUD$ 993100** **Report Number : 13**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	P	G9		0.5	Held JSA and ran 7 inch liner to 2074m, filling liner every 5 jnts.
4648.0	P19	P	G1		2	Changed out bails and handling equipment.
4648.0	P19	P	G9		0.5	Made up 7 inch liner setting tool and RIH to 2083m.
4648.0	P19	P	F4		0.5	Circulated 7 inch liner volume at 2083m with GPM 520, PSI 1000.
4648.0	P19	P	G9		10	RIH with 7 inch liner on 5.5 inch drill pipe to 4648m taggged bottom with 10k down. Filled pipe every 5 stands. Work through dogleg at 3165m - 3224m with 30k down weight under running weight.
4648.0	P19	P	G9		2	Racked back stand and made up cement stand. Set down 30k and pumped at 83gpm, 600psi. Picked up string to 4647m. Dropped ball, pumped at 226gpm, 1000 psi. Observed pressure increase to 2700 psi. Held pressure 3 minutes to confirm ball set. Picked up 1 meter to confirm relaese of running tool.
4648.0	P19	P	G9		1	Sheared out ball set with 4000psi. Set dowm 10k and rotated string at 20 rpm, 16-17k ft/lbs torque. Circulated at 230gpm, 500psi, while preparing for cement job.
4648.0	P19	P	G9		1	Held JSA and rigged up cement lines.
4648.0	P19	P	G9		1	Pumped with rig pumps 60 bbls Accolade base oil, followed by 60 bbls Tuned spacer and chased with 10 bbls brine. With Haliburton Pumped 8 bbls drill water, tested lines to 3000psi. Pumped 2 bbls drill water.
4648.0	P19	TU	G9	DH	1	Commenced to mix and pump cement at 15.00 ppg. Observed pressure increased to 2500 psi after 4 bbls pumped, stopped pumping. Bleed of pressure and open cement lines to confirm flow path. Dumped cement from mix tub and clean unit. Assesed situation and dissussed options with town.
4648.0	P19	TU	G9	DH	1	With cement unit commenced pumping drill water at 4 bbls/min observed pressure increased to 3100psi and then gradually dropping to 2000psi observed returns in flow line. Increased pump rate to 5 bbls/mins at 3500psi. Stopped pumping observed 450 psi pressure differential.
4648.0	P19	TU	G9	DH	2.5	Lined up to rig pumps and commenced circulating at 200gpm, 700 psi. Staged up pumping rate to 12.5 bbls/mins 2500psi. Intial torque 10-15k ft/lbs, torqued dropped down to 3-5k ft/lbs. While circulating pressure was fluctuating up to 3000psi down to 1750psi. Observed spacer returns at surface after 695 bbls pumped, indicating returns from top of 7 inch liner. Continued to circulated till mud in balance.
4648.0	P19	TU	G9	DH	0.5	Stopped pumping, move string down 0.90 meter and set down 10k on to liner and attempted to rotate string at 35k ft/lbs torque while circulating at 12.5 bbls/mins 2600psi, no rotation in string observed.
4648.0	P19	TU	G9	DH	0.5	Rigged down cement lines and racked back cement stand.

Date : 14 Aug 2008 **Daily Cost : AUD$ 630700** **Report Number : 14**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G9	DH	0.5	POOH to 2412m.
4648.0	P19	TP	G9	DH	1.5	Picked up and laid out cement head. Dart still in cement head.
4648.0	P19	TP	G9	DH	6.5	POOH with 7 inch liner running tool.
4648.0	P19	TP	G9	DH	1	Broke and laid out running tool. Top two swab cups damaged, both bottom swab cups in good condition, cement wiper plug intact and in good condition.
4648.0	P19	P	G11		1	Cleared rig floor of excess equipment and serviced rig.
4648.0	P19	P	G13		0.5	Removed diverter insert packer.
4648.0	P19	P	G13		1	Functioned shear rams and auto chokes. RIH with two stands HWDP. Confirmed corect weight set test tool to be used with Cameron in town.
4648.0	P19	P	G13		1.75	Picked up and made up BOP test assembly with crossovers. RIH with test tool, unable to pass through diverter packer adapter ring. Racked back test assembly.
4648.0	P19	TP	G13	RE	1.75	Removed diveter packer adapter ring. RIH with test assembly. Spaced out and landed out on wear bushing with 25k down.
4648.0	P19	P	G13		2	Pressure tested BOPs with cement unit, Annular 250/3.500 psi 5/10 mins, Pipe Rams and HCR'S valves 250/5000 psi 5/10 mins. All postive tests.
4648.0	P19	P	G13		1.5	POOH with test assembly and laid out same.

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Date : 14 Aug 2008 | **Daily Cost : AUD$ 630700** | **Report Number : 14**

4648.0	P19	P	G13		0.5	Cleared rig floor of equipment.
4648.0	P19	TP	G5	DH	4	Picked up and made up 7 inch RTTS assembly and RIH with 20 joints of 3.50 inch drill pipe.
4648.0	P19	TP	G8	DH	0.5	Changed out elevators and moved 5.50 inch heavy weight drill pipe to forward side of derrick.

Date : 15 Aug 2008 | **Daily Cost : AUD$ 634900** | **Report Number : 15**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	5.5	RIH with 7in RTTS on 5.5in drill pipe: no resistance observed upon entering TOL at 2569m. Continued to RIH and set RTTS at 2735m: 4 right-hand turns and 20K weight down.
4648.0	P19	TP	F4	DH	0.5	Attempted to circulate liner using mud pumps: gradually increased pressure to 5000 psi - no circulation or returns observed.
4648.0	P19	TP	G10	DH	0.5	Attempted to unset RTTS: required 25k overpull. Slacked off to neutral weight to relax packer elements. Confirmed RTTS unset with 4m of downwards movement.
4648.0	P19	TP	G8	DH	4	POOH with RTTS to 1721m.
4648.0	P19	TP	F4	DH	0.5	Observed back flow in string at 1721m. Circulated and conditioned mud.
4648.0	P19	TP	G8	DH	5	Continued to POOH and laid out RTTS.
4648.0	P19	TP	G11	DH	0.5	Cleaned rig floor.
4648.0	P19	TP	G1	DH	1.5	Changed out bails and elevators. Prepared TCP firing head. Laid out 3.5in drill pipe and prepared same.
4648.0	P19	TP	G8	DH	6	Held JSA. Picked up and made up TCP assembly. RIH picking up 3.5in drill pipe to 498m.

Date : 16 Aug 2008 | **Daily Cost : AUD$ 673800** | **Report Number : 16**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	9.5	RIH with 3.375in TCP assembly picking up 3.5in drill pipe to 1592.7m. Picked up and made up 7in RTTS to string. Continued to RIH picking up 3.5in drill pipe to 2003.9m.
4648.0	P19	TP	G1	DH	0.5	Changed out bails and elevators.
4648.0	P19	TP	G1	DH	1	RIH with one stand of 5.5in drill pipe. Made up cement stand and racked back same.
4648.0	P19	TP	G8	DH	0.5	RIH with 5.50in drill pipe to 2241m.
4648.0	P19	TP	F4	DH	0.5	Observed back flow in string at 2241m. Made up TDS and circulated to balance mud.
4648.0	P19	TP	G8	DH	7.5	Continued to RIH with TCP/RTTS assembly to 4545m: no resistance observed upon entering TOL with TCP gun or RTTS.
4648.0	P19	TP	F4	DH	0.5	Broke circulation at 1.40 bbls min/400 psi: good returns. Picked up and made up cement stand.
4648.0	P19	TP	G10	DH	0.5	Placed bottom of TCP at 4560m. Set RTTS at 2966.3m with 5 turns to the right and confirmed set with 25k down.
4648.0	P19	TP	C5	DH	1	Held JSA and rigged up cement lines. Halliburton tested cement lines to 3,000 psi for 5 mins. Applied 2,500 psi down string to activate TCP and bled off pressure to 400psi. Observed TCP fire with 200psi pressure decrease in string. Interval perforated 4560m - 4558m with 3.375 inch Predator Perfform HMX 6 SPF.
4648.0	P19	TP	F4	DH	0.5	Halliburton established circulation and pumped 1.1 bbls mud, pressure held at 850 psi. Increased pressure to 1500 psi and obtained returns. Pumped 20 bbl/s mud while increasing pump rate up to 3.6 BPM at 1450 psi and observed 20bbls returns to trip tank.
4648.0	P19	TP	F4	DH	2	Lined up to rig pumps and continued circulation, increased pump rate to 5 bbls/min at 1500 psi: good returns, no losses. Once 200 bbls pumped observed mud weight out at 11.5 ppg. Once 400bbls pumped observed mud weight out at 10.9ppg. Circulated and conditioned mud, dusted barite to balance weight.

Date : 17 Aug 2008 | **Daily Cost : AUD$ 627300** | **Report Number : 17**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	F4	DH	1	Circulated and conditioned mud for even weight in and out at 12.10ppg.

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DFE above MSL : 41.10m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 17 Aug 2008 **Daily Cost : AUD$ 627300** **Report Number : 17**

4648.0	P19	TP	F4	DH	0.5	Unset 7in RTTS. Circulated at 6.6 bbls/min at 2400 psi for 15 mins.
4648.0	P19	TP	G8	DH	2	POOH 6m: observed swabbing. Reset 7in RTTS and opened circulation valve, unset RTTS. Continued POOH to 2590m, 7in RTTS depth. No further swabbing observed.
4648.0	P19	TP	G10	DH	0.5	Made up cement stand and set 7in RTTS at 2590m with 5 turns to the right and confirmed set with 25k down.
4648.0	P19	TP	F3	DH	2	Held JSA and rigged up cement lines. Halliburton tested lines to 3,000 psi. Pumped 30 bbls fresh water spacer followed by 60 bbls of 13.5 ppg Tuned Spacer and 10 bbls of fresh water at 8 BPM. Mixed and pumped 138 bbls of "HBT" grade cement slurry at 15.0 ppg. Commenced displacement with 10 bbls fresh water and SBM. Theoretical top of cement within 7in liner at 4520m. Theoretical top of cement within 7in liner/ 9.50 inch hole at 3550m.
4648.0	P19	TP	G1	DH	1	Checked back flow: OK. Rigged down cement hose and unset 7in RTTS.
4648.0	P19	TP	F4	DH	2	Broke circulation. Racked back cement stand. Continued circulating bottoms up. No cement returns observed at shakers.
4648.0	P19	TP	G8	DH	5.5	POOH with TCP/ 7 inch RTTS assembly to 2005m.
4648.0	P19	P	G8		0.5	Moved cement stand to drill collar fingers and RIH 4 stands of rental HT55 drill pipe.
4648.0	P19	P	G8		2	POOH and laid out 12 joints of HT55 drill pipe.
4648.0	P19	TP	G4	DH	0.5	Moved 5 stands of HWDP to front of finger board to enable rack back of all 3.5in drill pipe.
4648.0	P19	TP	G8	DH	1	Changed out to 3.5in elevators. POOH from 2005m - 1592m.
4648.0	P19	TP	G15	DH	1.5	Serviced, broke and laid out 7in RTTS.
4648.0	P19	TP	G8	DH	4	Pumped slug and continued to POOH to TCP gun assembly.

Date : 18 Aug 2008 **Daily Cost : AUD$ 816300** **Report Number : 18**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G1	DH	1	Laid out TCP gun assembly.
4648.0	P19	TP	G1	DH	0.5	Laid out excess drilling equipment and cleaned rig floor of SBM.
4648.0	P19	TP	C2	DH	4.5	Held JSA and rigged up Schlumberger wireline. Made up GR/CCL/HSD gun and RIH at 02:45hrs. Correlated for depth of bottom shot at 2675m. Fired gun at 04:07hrs and observed a slight surface indication of gun firing. POOH and laid out guns: all shots fired. Rigged down Schlumberger wireline. Bottom of perforations at 2675m. Top of perforations at 2673.5m. Gun details: 1.5m long 4.50 inch OD, 12 shots per foot of Powerjet Omega Pure charges.
4648.0	P19	TP	G8	DH	1	Picked up and made up 7in cement retainer and RIH on 3.5in drill pipe to 149m.
4648.0	P19	TP	G1	DH	0.5	Changed out to 5.5in elevators.
4648.0	P19	TP	G8	DH	6	RIH with cement retainer on 5.5in drillpipe to 2649m.
4648.0	P19	TP	G1	DH	0.5	Picked up and made up cement stand.
4648.0	P19	TP	F4	DH	0.5	Broke circulation with 300 gpm at 1000 psi. Worked retainer up and down within 2m of intended setting depth.
4648.0	P19	TP	G10	DH	1	Set cement retainer at 2669m with 40 RH turns, staged up to 37K o/pull to shear tension sleeve. Picked up 2m and took 25 RH turns to release stinger. Picked up 2m to confirm clear. Stung back into retainer and set down 35k. Rigged up cement hose. Established circulation up outside of liner with 500gpm at 1700psi.
4648.0	P19	TP	F3	DH	1.5	Pumped 5 bbls of fresh water with cement unit and tested lines to 3000psi. Pumped 30 bbls of fresh water, followed by 60 bbls of 13.5 ppg tuned spacer followed by another 10 bbls of fresh water. Mixed and pumped 30 bbls of 15.0 ppg "HTB" slurry. Displaced with 10 bbls of fresh water and 168 bbls of SBM. Theoretical top of cement within 7in liner/10.75in casing at 2569m. Theoretical bottom of cement within 7in liner/9.5in hole at 2675m.
4648.0	P19	TP	F4	DH	1.5	Picked up 2m out of cement retainer and circulated bottoms up at 600 gpm and 2300 psi. Observed slight cement contamination in returns on bottoms up (diverted spacers to slops pit).
4648.0	P19	TP	G8	DH	1	Rigged down cement line and racked back cement stand. Pumped slug. POOH to 2540m.
4648.0	P19	TP	G1	DH	0.5	Changed out bails to lay out 5.5in drill pipe.

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DFE above MSL : 41.10m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 18 Aug 2008 | **Daily Cost : AUD$ 816300** | **Report Number : 18**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	4	While WOC: POOH, laying out 5.5in drill pipe to 1938m.

Date : 19 Aug 2008 | **Daily Cost : AUD$ 625600** | **Report Number : 19**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	0.5	While WOC continued to POOH laying out 5.5in drill pipe to 1860m.
4648.0	P19	TP	P1	DH	1	Lined up to Halliburton cement unit and pumped 4 bbls of SBM mud. Pressure tested lines to 1,000psi. Closed annular and tested top of 7in liner lap at 2569.50m with 500 psi and held for 10 minutes - good test. Pumped 6.90 bbls of SBM: 6.70 bbls SBM returned after bleeding off of pressure.
4648.0	P19	TP	G1	DH	0.5	Changed out bails for tripping operations.
4648.0	P19	TP	G8	DH	4.5	POOH and laid out cement retainer running tool.
4648.0	P19	TP	G1	DH	0.5	Cleared excess equipment from rig floor and cleaned same from SBM.
4648.0	P19	TP	G2	DH	0.5	Picked up and made up 9.5in clean out BHA and RIH to 58m.
4648.0	P19	TP	G8	DH	6.5	RIH with 5.5in drill pipe and BHA to 1m above top of 7in liner at 2568m. No drag observed while RIH or at top of liner.
4648.0	P19	TP	F4	DH	1.5	Circulated bottoms up.
4648.0	P19	TP	F3	DH	1	Pumped 30 bbls slug and displaced same with 10 bbls SBM.
4648.0	P19	TP	G8	DH	3	POOH with 5.5in drilll pipe to 1059m.
4648.0	P19	TP	G8	DH	4.5	Continued POOH laying out 5.5in drill pipe to 294m. Laid out 78 joints of 5.5in drill pipe. **Held TOFS on drill floor with drill and deck crews at 22:30hrs to highlight the hazards associated with repetitive tasks and remind personnel to keep focused on the job**

Date : 20 Aug 2008 | **Daily Cost : AUD$ 712900** | **Report Number : 20**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	1.5	POOH to BHA laying out 5.5in drill pipe. Total of 102 joints laid out.
4648.0	P19	TP	G2	DH	0.5	Racked back BHA and broke off bit.
4648.0	P19	TP	G2	DH	1.5	Picked up and made up 6in Smith bit XR + PS and motor and 2 x 4.75in NMDC.
4648.0	P19	TP	G8	DH	4.5	RIH with BHA and 3.5in drill pipe to 2034m.
4648.0	P19	TP	G8	DH	1	Changed out to 5.5in elevators and RIH with 5.5in drill pipe to 2535m.
4648.0	P19	TP	F7	DH	0.5	Cleared rig floor and cleaned SBM from same.
4648.0	P19	TP	G11	DH	3.5	Slipped and cut drilling line. Calibrated travelling block.
4648.0	P19	TP	G8	DH	1	RIH and tagged TOC at 2641m with 10klbs down weight.
4648.0	P19	TP	D1	DH	2	Drilled cement from 2641m - 2668m (with 300gpm, 3400psi, 50rpm and 3klbs WOB)
4648.0	P19	TP	D8	DH	8	Drilled cement retainer from 2668m - 2668.5m using various parrameters: 150-300gpm, 2200 - 3800 psi, 15 - 50 rpm, 3- 5k WOB.

Date : 21 Aug 2008 | **Daily Cost : AUD$ 648200** | **Report Number : 21**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	D1	DH	3.5	Drilled cement retainer from 2668.5m to 2668.6m with 150 gpm, 2200 psi, 15 rpm and 3- 5klbs WOB. No significant progress from 01:00hrs - 03:30hrs. 18in of cement retainer was drilled, an estimated 12in left to be drilled.
4648.0	P19	TP	G8	DH	6.5	Pumped 20 bbls slug and POOH to surface. Broke off and inspected bit. Bit wear: 1, 1, NO, A, E, I, NO, PR.
4648.0	P19	TP	G11	DH	0.5	Serviced Top Drive and rig.
4648.0	P19	TP	G8	DH	8.5	Laid out 4.75in motor and made up bit #13 6in Smith GR+ and RIH to 2668.6m Broke circulation at 2559.0m with 300gpm at 600psi.

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Date : 21 Aug 2008 **Daily Cost : AUD$ 648200** **Report Number : 21**

						Tagged top of cement retainer at 2668.6m with 10klbs down weight.
4648.0	P19	TP	D1	DH	1	Drilled out cement retainer from 2668.6m to 2668.8m. Drilled with 330gpm, 40rpm, 3k torque and 5-7 WOB
						Chased cement retainer down from 2668.8m to 2680m with 2-10klbs down weight.
4648.0	P19	TP	F4	DH	1	Circulated bottoms up with 600gpm at 3000psi.
4648.0	P19	TP	G8	DH	3	Pumped 30 bbls slug and POOH from 2680m to 1242m.

Date : 22 Aug 2008 **Daily Cost : AUD$ 868200** **Report Number : 22**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	TP	G8	DH	2	POOH to 3.5in drill pipe and changed out to 3.5in elevators. Picked up and inspected first stand of 3.5in drill pipe, no visible distortion observed.
4648.0	P19	TP	G8	DH	3	RIH with 3.5in drill pipe to 2036m.
4648.0	P19	TP	G8	DH	1.5	Changed out to 5.5in elevators and continued RIH to 2680m. Oberseved drag increased to 4 - 5k down from 2680m - 2777.64m
4648.0	P19	TP	G8	DH	2	Made up top drive and work through hold up at 2777.64m. With 40spm, 150 - 230 gpm, 1000 - 2000psi, 40-60rpm, 5-10k WOB Observed WOB decreased to 4k.
4648.0	P19	TP	G8	DH	4.5	Continued rotating and working down cement retainer from 2777.64m - 2805 m with continuous 5-10k down, 25spm, 150gpm, 1000psi, 60rpm.
4648.0	P19	TP	F4	DH	1.5	RIH and rotated down when necessary from 2805m - 2919m. RIH with up to 20k drag and rotated with 60rpm, WOB 9K.
4648.0	P19	TP	G8	DH	6	Continued RIH from 2919m - 4490m with continuous 5 - 10k drag down. Held up with 25k down at 4490m.
4648.0	P19	TP	F4	DH	2.5	Circulated bottoms up with 230gpm, 4400psi - heavy solids returned on bottoms up. While circulating bottoms held Pre Job Meeting for displacing well to brine.
4648.0	P19	P	F4		1	Conmenced displacement program to brine, pumped 75 bbls hi/vis followed by Baraklean. Flushed all 3 mud pumps lines in pump room with Baraklean.

Date : 23 Aug 2008 **Daily Cost : AUD$ 619900** **Report Number : 23**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P19	P	F4		3	Continued with displacement program pumping the following fluids. Pumped 250 bbls BARAKLEAN Pumped 800 bbls 11 ppg CaCl2 Brine Pumped 325 bbls Radigreen (1.5% v/v) & LIQUI-VIS EP (1 gal/bbl) Brine Pumped 175 bbls 11.3 ppg CaCl2 Brine. Clean brine at surface at end of displacement. (Pumping was stopped when Baraklean back at surface to flush the choke and kill manifold. Pumped 10 bbls Baraklean through Kill, Choke lines and 10 bbls through choke manifold and displaced with 30 bbls 11.30ppg brine. Pumped out skimmer tank to slops pit.)
4648.0	P19	P	F4		1	Cleaned out flow line to gumbo box to enable use of trip tank pump on closed circulating system while POOH/RIH.
4648.0	P19	P	G8		5.5	POOH with 5.50in drill pipe to 3.50 drill pipe at 2037m.
4648.0	P19	P	G2		11.5	Changed handling equipment to 5.50in drill pipe. held safety meeting with crew discussing working with brine. POOH laying out 3.30in drill pipe to 20.33m. Total laid out 209 joints.
4648.0	P19	P	G6		0.5	Broke out bit and laid out BHA. Bit details: 1,1,NO,A,E,I,NO,TD.
4648.0	P22	P	G8		2.5	Made up 10 3/4in RTTS, RIH to 200m.

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Date : 24 Aug 2008 | **Daily Cost : AUD$ 1790500** | **Report Number : 24**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	G8		0.5	RIH and set 10 3/4in RTTS at 210m.
4648.0	P22	P	P1		0.5	With Halliburton tested lines 200/4000 psi 5/10 mins, tested well head seals to 250/4000 psi 5/10. Good test.
4648.0	P22	P	G2		4.5	Unset RTTS and POOH laying out 5.50in heavy weight drill pipe and 6in drill collars and RTTS.
4648.0	P22	P	G10		1	Rigged up to run TCP guns.
4648.0	P22	P	G23		0.5	Held JSA with crews for running TCP gun assembly.
4648.0	P22	TP	G2	TP	0.5	Attempted to repair hydraulic safety clamp. Set up rig's manual safety clamp to fit 3 1/8in TCP guns.
4648.0	P22	P	G2		16.5	Picked up and made up downhole gauges. Picked up and made up 3 1/8in and 4 1/2in TCP gun assembly and RIH to 1900m.

Date : 25 Aug 2008 | **Daily Cost : AUD$ 702700** | **Report Number : 25**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	G2	TP	1	Continued RIH with TCP gun assembly to gun #226 at 1900m, laid gun #226 out as concerns about booster protruding too high. Replaced with gun# 233.
4648.0	P22	P	G2		1	Continued RIH from 1900m to 1925m and installed firing head. Changed out handling equipment to 3.50in drill pipe. Picked up stand 3.50in drillpipe and made up cross overs, pup joints and stand 3.50in and RIH to 1961m
4648.0	P22	P	G8		0.5	Changed out elevators to 5.50in and made up cross over and RIH with 5.50in drill pipe to 2020m.
4648.0	P22	P	G8		1	Picked up cement stand broke out TIW valve and SEC and made these up to 5.0m pup joint and laid out same.
4648.0	P22	P	G8		7	RIH with TCP gun assembly on 5.50in drill pipe to 4414m. No obstruction or resistance observed when entering top of 7in liner at 2569.56m
4648.0	P22	P	C1		0.5	Rigged up Schlumberger wireline.
4648.0	P22	P	E4		3	Held JSA, made up GR/CCL and RIH with GR/CCL at 11.30hrs and ran correlation log. POOH, Laid out CCL/GR.
4648.0	P22	P	E4		0.5	Rigged down Schlumberger wireline.
4648.0	P22	P	C5		1	Made up SEC assembly to 5.50in drill pipe and rigged up cement line. Picked up and postioned bottom shot of TCP guns at 4408m.
4648.0	P22	P	C5		0.5	Pressure tested lines to 500/5000 psi 5/10 mins with Halliburton.
4648.0	P22	P	C5		1.5	Dropped 1-7/16in ball, waited 15 min. Pressured up on string to 2750psi held pressure 1 min. Continued to pressure up to 4200psi observed shear out of pressure diverter sub with pressure drop. Observed TCP guns firing with well taking 44bbls brine and 30klbs increase in string weight. Loss rate at 18bbls/hr. Depths of perforations: 4406m - 4243m, 4191.4m - 4085m, 3944m - 3639.8m, 3152.4m - 3132m, 2862m - 2828m, 2761m - 2683m, 2516m - 2494m.
4648.0	P22	P	E4		0.5	Rigged down cement line.
4648.0	P22	P	F4		2.5	Closed annular and circulated bottoms up via fully opened choke. No gas returns upon bottoms up. Average dymanic loss rate 20bbls/hr. Circulated at 300gpm, 400psi.
4648.0	P22	P	G14		0.5	Opened annular and conducted 15 min flow check on trip tank. Loss rate at 3 bbls/hr. Broke out SES assembly from 5.50 drill pipe.
4648.0	P22	P	G8		3	POOH with 5.50in drill pipe from 4408m - 3115m.

Date : 26 Aug 2008 | **Daily Cost : AUD$ 538000** | **Report Number : 26**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	G8		2	Continued to POOH with 5.50in drill pipe to 1991m
4648.0	P22	P	G8		1	Held JSA with all crews. Continued to POOH, laying out TCP assembly subs and racked back stand 3.50in drill pipe to firing head.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 26 Aug 2008 **Daily Cost : AUD$ 538000** **Report Number : 26**

4648.0	P22	P	G2	17.5	POOH laying out TCP gun assembly. All guns fired.
4648.0	P22	P	G2	0.5	Rigged down TCP gun handling equipment.
4648.0	P22	P	G13	0.5	Clean and cleared rig floor of all excess equipment, while cranes move TCP gun baskets to main deck and pick up and spot tools on catwalk for clean out assembly run. In conjunction with operating BOP functions.
4648.0	P22	P	G2	1	Held JSA and picked up and made up 10.750in clean out assembly BHA. Comprising of 9.50in Hughes bit type MX-09, 10.750in casing scraper and 10.750in Well Patroller.
4648.0	P22	P	G8	1.5	RIH with 10.750in clean up assembly BHA on 5.50in drill pipe to 481m.

Date : 27 Aug 2008 **Daily Cost : AUD$ 758600** **Report Number : 27**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	G8		3.5	Continued to RIH with 10.750in clean up assembly BHA on 5.50in drill pipe to 2167m
4648.0	P22	P	G2		1	Picked up and made up ball catcher and x-overs to 5.50in drill pipe.
4648.0	P22	P	G8		1.5	RIH to 2233m. Worked cleanout assembly across HF-1 packer setting depth at 2242m, from 2233m - 2262m with 60rpm, 850gpm at 1200psi. Continued to RIH to 2480m.
4648.0	P22	P	G2		1	Picked up and made up riser brush assembly.
4648.0	P22	P	G20		1	RIH to with riser brush assembly through BOP's worked same across BOP's twice at 630gpm, 700psi.
4648.0	P22	P	G20		1	Worked riser brush assembly through 22in HP riser and scraped AHC packer setting depth at 2526m to 2564m, with 60rpm, 930gpm, 1200psi.
4648.0	P22	P	F3		1	Pumped 75 bbls Baraklean, 75 bbls Mud Flush and 75 bbls Hi Vis HEC pills.
4648.0	P22	P	F3		1.5	Displaced well with 850 bbls 11.00 ppg filtered brine at 420gpm, 500psi. While working and rotating the string.
4648.0	P22	P	G8		2	Flow checked on trip tank 15mins static losses at 1.70bbls/min. POOH from 2564m -2440m. Laid out 22in HP riser brush assembly.
4648.0	P22	P	G8		4	Held JSA, changed out elevators and POOH, laying out 5.50in drill pipe to 2273m.
4648.0	P22	P	F3		1	Displaced well with 215 bbls inhibited 11.00 ppg filtered brine at 550gpm, 500psi.
4648.0	P22	P	G8		2.5	POOH, laying out 5.50in drill pipe from 2273m - 2020m. Laid out CCV ball catcher and x-overs at 2147m.
4648.0	P22	P	F3		1	Removed zip bails. Pumped and displaced a futher 415bbls inhibited 11.00 ppg filtered brine at 950gpm, 1000psi.
4648.0	P22	P	G8		0.5	POOH and racked back 5 stands 5.50in drill pipe in derrick.
4648.0	P22	P	G8		1.5	Rigged up zip bails and POOH laying out 5.50in drill pipe from 1872m - 1656m.

Date : 28 Aug 2008 **Daily Cost : AUD$ 630400** **Report Number : 28**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	G8		9.5	POOH laying out 5.50in drill pipe to 38.68m.. Note: Drill pipe "U" Tubing at 1073m: Pumped 30bbls unfiltered brine at 11.30ppg down string to stop "U" Tubing.
4648.0	P22	P	G8		0.5	Rigged down zip bails and 5.50in elevators and rigged up 5.50in elevators on drilling bails and racked back one stand 5.50in drill pipe in derrick.
4648.0	P22	P	G2		1	Laid out BHA, x/o, well patroller, 10.750in scraper, bit sub and bit. Note: 2 x Large pieces of rubber each approximately 9in long x 3in wide x 3/8in thick were observed in well patroller from riser brush assembly.
4648.0	P22	P	G6		1	Made up BHA, well patroller, ball catcher, circulation valve and bore protector retrieving tool.
4648.0	P22	P	G8		1	RIH with BHA to 92.38m.
4648.0	P22	P	G16		1	Dropped ball, positioned CCV above SST and jetted same with 550gpm, 100psi with 29bbls filtered and inhibited brine at 11.00ppg.
4648.0	P22	P	G16		0.5	RIH and set 16k down on bore protecter retrieving tool to engage bore protector at 92.38m. Pulled out bore protector.

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DFE above MSL : 41.10m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

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						Note: No overpull observed when pulling bore protector. Positioned CCV at well head and jetted well head area with passes at 550gpm, 100psi, with 71bbls filtered and inhibited brine at 11.00ppg.
4648.0	P22	P	G8		2.5	POOH and laid out well patroller, ball catcher, circulation valve and bore protecter retrieving tool and bore protector. Note: No wear obsevered on bore protector. Note: No debris or junk observed in well patroller.
4648.0	P22	P	G24		0.5	Cleared rig floor of excess equipment.
4648.0	P22	P	G1		0.5	Rigged down bails and 5.50in elevators and rigged up 15ft bails and 5in elevators.
4648.0	P22	P	G1		2	Rigged up completion string running equipment.
4648.0	P22	P	C4		3.5	Held JSA and run 5in completion string as per program. Picking up and making up mule shoe, sliding sleeve, 10.750in AHC packer, and assemblies 1A to 5A.
4648.0	P22	P	C4		0.5	Unable to achieve correct torque on blast joint #3 to #2. Laid out blast joint #3 and picked up and attempted to make up back up blast joint.

Date : 29 Aug 2008 | **Daily Cost : AUD$ 3096400** | **Report Number : 29**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C4	TP	3.5	Continued to pick up and attempt to make up blast joints to the required torque. A total of 6 joints failed to meet torque requirements. This operation involved the laying out of two blast joints and picking up two replacement joints each time. Two to three attempts were made to make up blast joints to required torque before changing them out.
4648.0	P22	P	C4		4.5	Continued picking up and made up 5in tubing completion string and RIH to 317.72m. Changed out joint #17 for #20.
4648.0	P22	P	C4		1	Incorrect fill of tubing, tubing did not take the correct amount of fluid, suspected leak in tubing. Rigged up water bushing and pressure tested string to 500 psi for 5 mins - good test.
4648.0	P22	P	C4		0.5	Picked up and made up assembly #7, internal control valve, HUC, gauge carrier, 10.75in packer and landing nipple.
4648.0	P22	P	C4		7.5	Made up control lines to ICV and pressure tested control lines to 5,000psi for 15mins - good test. Made up control line to gauge carrier and tested gauge carrier control line to 5,000 psi for 15mins. Terminated control lines, connected Well Dynamics control line and tested same to 10,000psi for15mins - good test. Function tested ICV and tested lines to 5,000psi for 15mins - good test.
4648.0	P22	P	C4		1	Continued picking and making up 5in tubing completion string and RIH to 351m. Changed over to 7in handling equipment.
4648.0	P22	P	C4		6	Continued picking up and making up 7in tubing completion string and RIH to 812m.

Date : 30 Aug 2008 | **Daily Cost : AUD$ 619800** | **Report Number : 30**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	C4		13.5	Continued picking up and making up 7in tubing completion string and RIH to 2416m
4648.0	P22	P	C4		2.5	Picked up and made up assembly 9A SSSV, terminated contol lines and tested same to 4,000 psi.
4648.0	P22	P	C4		1	Continued picking up and making up 7in tubing completion string and RIH to 2479m.
4648.0	P22	P	C4		3.5	Picked up and made up tubing hanger. Terminated SSSV and ICV control lines through tubing hanger and pressure tested control lines to 4,000 psi. Performed pre submergence checks.
4648.0	P22	P	C4		1.5	Baker Hughes installed and tested Production Quest electrical line connection through tubing hanger to 4,000psi.
4648.0	P22	P	C4		1	Haliburton Completions pressure tested SSSV control line to 4,000psi.
4648.0	P22	P	C4		0.5	Well Dynamics pressure tested open and closed ICV control lines to 4000 psi. Left ICV in open position.
4648.0	P22	P	C4		0.5	Installed split bushing into rotary table and landed out tubing hanger at rotary table.

Date : 31 Aug 2008 | **Daily Cost : AUD$ 617200** | **Report Number : 31**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity

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Wellname : Longtom-4 H	Drilling Co. : Seadrill	Rig : West Triton

DFE above MSL : 41.10m	Lat : 38 Deg 06 Min 17.707 Sec	Spud Date : 21 Jun 2008	Release Date :
Water Depth : 56m	Long : 148 Deg 19 Min 59.944 Sec	Spud Time : 01.20	Release Time :

Date : 31 Aug 2008 **Daily Cost : AUD$ 617200** **Report Number : 31**

4648.0	P22	P	C4	1.5	Laid out THHTT, picked up and made up mechanical tubing hanger running tool to tubing hanger. Performed pre submergence checks. Recorded string weight 207k lbs up, 180k lbs down.
4648.0	P22	P	C4	2	Removed split bushings and RIH with completion string on 7in landing string.
4648.0	P22	P	C4	2.5	Confirmed SST valves configured for landing tubing hanger. Pick up weight 216klbs, slack off weight 180klbs. Landed out tubing hanger in SST, observed string rotated 90 degrees to the left as helix engaged when landing out tubing hanger. Set down 108klbs. Pressure tested tubing hanger against annular to 500/4000psi for 5/10 mins - good test. Locked tubing hanger in SST. Confirmed tubing hanger locked in with 100klbs overpull.
4648.0	P22	P	C4	6	Pressure tested tubing hanger cavities between upper and middle seal to 5,000psi for 10 mins via CSM line - good test. Pressure tested tubing hanger cavities between middle seal and lower seal to 5,000psi for 10 mins via TCT line - good test. Opened and pressure tested SIV1, SIV2, SSD1, SSDC to 5,000psi for 10 mins each in sqeuence - all good tests. While preforming the above picked up flow head, made up x-overs to flow head with Weatherford and made up flow head to landing string. ROV activated DHPT electrical penetrator on SST and confirmed pressure and temperature readings being recieved on surface.
4648.0	P22	P	C13	4	Held JSA, hooked up coflex hoses, chicksan and all associated control lines to flow head and tested same. Removed sheaves for running control from derrick and tested cooling water from mud pumps to flare booms.
4648.0	P22	P	C13	2.5	Pressure tested surface tree and well test package to 5,500 psi with Halliburton - good tests. Performed test burn to starbord flare boom with Expro.
4648.0	P22	P	C13	1	Held JSA, rigged up Expro slick line, RIH and retreived TH isolation sleeve.
4648.0	P22	P	C13	0.5	RIH with 7in GS running tool with 4.7in bore protection sleeve and installed same in TH. POOH and laid out running tool. Meanwhile closed XOV and ROV closed CSM.
4648.0	P22	P	C13	1	Expro RIH with 4" GS Pulling Tool, latched onto 4.56" RQ Lock in SSSSV Landing Nipple, POOH and laid out same with Delrin Prong.
4648.0	P22	P	C13	1	Opened ICV with 3,000 psi and bled of pressure to 0 psi. Installed tree cap and flushed all surface lines with 11.0 ppg filtered and inhibited brine with Halliburton from flow head to Expro choke. Lined up, broke circulation down string and confirmed returns to trip tank. Removed surface tree cap.
4648.0	P22	P	C13	2	RIH with 4.5in running tool and 4.562in xx plug to x nipple at 2242m, installed plug in x nipple, POOH and laid out running tool.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Activity Report For Longtom-4 H

Date : 01 Sep 2008 **Daily Cost : AUD$ 617900** **Report Number : 32**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	P	C13		3.5	Installed pressure test cap on flow head. Pressure tested down tubing to xx plug to 500/5500 psi for 5/10 mins - good test. Bled off pressure to 5000 psi. Closed SSSV and bled off pressure above SSSV to 1000 psi for inflow test. Equalized pressure arcoss SSSV, opened SSSV and bled off tubing pressure to 0 psi - good inflow test. While performing the above: Expro pressure tested chemical injection lines to flow head and SST to 500/5500 psi for 5/10 mins - good test.
4648.0	P22	P	C13		5	Rigged down slick line. Rigged up slick line lubricator and BOPs and made up new rope socket to slick line. Pressure tested lubricator to 5000 psi - good test.
4648.0	P22	P	C13		2.5	RIH with 4.5in GR pulling tool and attempted to retrieve xx plug in x nipple at 2242m. POOH - no plug recovered. Redressed pulling tool and removed GU adapter.
4648.0	P22	TP	C13	DH	1.5	RIH with 4.5in GS pulling tool and engaged xx plug in x nipple at 2242m. POOH and laid out running tool and plug while work through SSSV continued.
4648.0	P22	P	C13		2	Made up 7in GS pulling tool, installed lubricator, RIH and pulled protection sleeve from SST. POOH, removed lubricator and BOPs from flowhead and installed pressure cap.
4648.0	P22	P	C13		2.5	Held JSA, tested surface lines to 5500 psi, checked valve status and displaced the tubing with 258 bbls of diesel at 2.5 bbls/min. 258 bbls of brine returned during displacement. **Held pre flow safety meeting with all crews while displacing**
4648.0	P22	P	C13		1	Lined up and pressured down string against FBIV to 5500 psi to set the HF1 and AHC packers, held pressure for 15mins. Bled off pressure to 1900 psi.
4648.0	P22	P	C13		1	Opened ICV. Closed annular and pressure tested down the choke line with rig pumps against HF-1 packer. Pumped 11.80 bbls while increasing pressure to 2500 psi. While pumping both the tubing string and annulus pressure increased at the same rate - stopped pumping
4648.0	P22	TP	C13	TP	0.5	Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV was holding - both annulus and tubing pressure decreased at same rate.
4648.0	P22	TP	C13	TP	2	Bled off annulus pressure to 0 psi. Lined up and pressured down string against FBIV to 5500 psi in an attempt to set the HFI and AHC packers again - pressure held for 15 mins then dropped 100 psi over 45 mins. Increased pressure to 5500 psi and held pressure for 30 mins - no pressure lost. Bled off pressure to 1800 psi.
4648.0	P22	TP	C13	TP	1	Opened ICV, closed annular and pressure tested down choke line with rig pumps against HF-1 packer. Pumped 6.60 bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure decreased at same rate.
4648.0	P22	TP	C13	TP	1.5	While communicating with town bled off annulus pressure to 0 psi. Lined up and pressured down tubing string against FBIV to 5500 psi and held pressure.

Date : 02 Sep 2008 **Daily Cost : AUD$ 832800** **Report Number : 33**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C13	TP	3	Held 5500 psi on tubing string while calculating the maximum applied surface pressures allowed to assist in setting the packer and waited for technical information from Cameron support in Singapore on maximum permitted pressure for SST and components.
4648.0	P22	TP	C13	TP	2	Held JSA. Closed FMV. Bled off all pressure via Expro manifold. Locked open NRV on flowhead. Flushed lines with Halliburton cement unit to Expro choke with 7 bbls of Drill Water. Closed FWV and tested lines and flow head to 6000 psi for 10 mins - good test. Bled off pressure to 5400 psi. Opened FMV and increased tubing pressure from 5400 psi to 6000 psi. Held pressure for 1 hour. Bled off (to Cement Unit) to 5500 psi. Closed FKV, opened FWV and bled off pressure via Expro Choke to 1400 psi.
4648.0	P22	TP	C13	TP	1	Opened ICV, closed the annulus and pressure tested down choke line with rig pumps against HF-1 packer. Pumped 6.60 bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV was holding - both annulus and tubing pressure decreased at the same rate.
4648.0	P22	TP	C13	TP	1	Attempted to reverse circulate diesel from tubing: Pumped 10 bbls total with mud pumps down annulus pressuring up to 4950 psi allowing tubing pressure to increase from 1380 psi to 1800 psi and

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Date : 02 Sep 2008 | **Daily Cost : AUD$ 832800** | **Report Number : 33**

						then attempted to bleed off tubing pressure via Expro choke to establish circulation. Bled off 1 bbl from tubing - restricted circulation path. Bled off 500 psi at cement unit - SITP = 1285 psi, SICP = 4595 psi.
4648.0	P22	TP	C13	TP	2.5	Observed pressures: tubing pressure built slowly and annulus pressure decreased slowly. Discussed options with town.
4648.0	P22	TP	C13	TP	2	Established injection rate by pumping brine down tubing string with cement unit while holding 2700-3200 psi on annulus above packer: 0.5 BPM = 3800 psi, 0.75 BPM = 3950 psi, 1 BPM = 4050 psi, 1.25 BPM = 4120 psi, 1.5 BPM = 4050 psi, 2 BPM = 4030 psi, 5 BPM = 4100 psi. Continued pumping / injecting a total of 280 bbls brine (final injection pressure / rate = 5 BPM @ 2700 psi). Bled off annulus pressure via rig choke and tubing pressure via Expro choke.
4648.0	P22	TP	C13	TP	1.5	Closed ICV and confirmed pressures on down-hole gauges: DHPT = 6136 psi, DHPA = 6688 psi. Using cement unit, pressured down tubing string using brine to 6000 psi in an attempt to set HF-1 packer with maximum differential. Held 6000 psi pressure for one hour. Bled off tubing string pressure.
4648.0	P22	TP	C13	TP	0.5	Attempted to pressure test HF-1 packer: pressured down annulus using rig pump staging up at 500 psi. Observed tubing pressure increase to 230 psi. Stopped pumping: tubing pressure settled out at 480 psi, annulus pressure settled out at 275 psi. Bled off pressures - no test on packer.
4648.0	P22	TP	C13	TP	5	Discussed options and developed forward plan with town.
4648.0	P22	TP	C13	TP	4	Held JSA, Expro prepared tools and re-terminated rope sock. Rigged up slickline and lubricator. Reviewed packer sleeve shifting tool clearances through tubing string.
4648.0	P22	TP	C13	TP	1.5	RIH with slickline and set protection sleeve at SST well head, POOH and confirmed that sleeve was set in SST. Racked back lubricator in derrick.

Date : 03 Sep 2008 | **Daily Cost : AUD$ 690100** | **Report Number : 34**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C13	TP	1	Installed test cap on flow head. Lined up and commenced pressuring up string to cycle FBIV into the locked open position. Stopped pumping after receiving confirmation from technical support that the HF-1 shifting tool will travel through all completion components.
4648.0	P22	TP	C13	TP	4.5	Rigged up lubricator, RIH with HF-1 shifting tool and and released packer at 2244m - positive indication that packer released with 300 klbs overpull. Repeated 3 times - no overpull observed on the last 2 times through packer. POOH and checked shifting tool - shear pins sheared indicating that packer was released. Laid out tool string and racked back lubricator in derrick. Installed test cap onto flow head.
4648.0	P22	TP	C13	TP	1.5	Cycled FBIV to the locked open position, pumping down tubing with cement unit pressured up to 3500 psi, hold two minutes, bleed off to zero psi, waited two minutes. Repeated sequence 6 times - observed pressure drop and increased volume pumped on sixth cycle. Repeated cycle and confirmed valve locked open.
4648.0	P22	TP	G14	TP	2	Shut down and flow checked well - Tubing pressure = 296 psi, Annulus losing at 0.6 bbls/hr. Monitored pressures - tubing pressure rising at approx 1 psi / minute.
4648.0	P22	TP	P3	TP	4	Shut in tubing pressure = 460 psi, Annulus losing 0.6 bbls/hr. Closed annular. Opened ICV. Commenced reverse circulating, pumping down annulus with filtered 11.0 ppg brine, through ICV and up tubing to Expro choke. Pumping at 1.3 BPM and 1600-1800 psi annulus pressure holding 550-130 psi back pressure at Expro choke. Diesel returns to surface after pumping 5 bbls Diverted to flare after pumping 15 bbls Dry gas to surface after pumping 60 bbls 20% Diesel, 80% Brine after pumping 96 bbls Diesel percentage decreased to trace after pumping 217 bbls. During circulation loosing approx 20% of pumped volume. Pumped a total of 280 bbls - clean brine returns.
4648.0	P22	TP	P3	TP	1	Shut down and checked pressures - Annulus = 230 psi, Tubing = 40 psi - checked returns - gas still evident. Continued reverse circulating, pumping at 2 BPM and 2350 - 2700 psi holding 130-150 psi back pressure at Expro choke. Pumped additional 63 bbls (343 Total pumped) with clean brine returns. Shut down and checked pressures Annulus = 249 psi, Tubing = 0 psi. Bled off annulus - no flow (pressure due to restriction when circulating past packer)
4648.0	P22	TP	G14	TP	1	Flow checked well OK.
4648.0	P22	TP	C13	TP	5.5	Confirmed plan and sorted equipment to place second barrier in tubing. Rigged down Coflex hose

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 03 Sep 2008 | **Daily Cost : AUD$ 690100** | **Report Number : 34**

						and chemical injection line from flow-head. Rigged up slick line, prepared pump in assembly for Schlumberger.
4648.0	P22	TP	C13	TP	3.5	Made up 3.813in XX plug with 2.313in pump out plug. RIH and set same in X nipple at 2552m MDRT. POOH.

Date : 04 Sep 2008 | **Daily Cost : AUD$ 705600** | **Report Number : 35**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C13	TP	1	POOH with running tool and confirmed XX plug set in X nipple at 2552m. Installed test cap on flow head.
4648.0	P22	TP	C13	TP	1	Lined up to Halliburton cement unit and pumped 21 bbls of brine to fill string and pressure tested XX plug at 2552m to 750 psi for 5 mins - good test.
4648.0	P22	TP	C13	TP	2	Rigged down and laid out slick line BOP and lubricator.
4648.0	P22	TP	C13	TP	2	Rigged down flow head from landing string and laid out same. Rigged down Expro completion bails.
4648.0	P22	TP	C13	TP	0.5	Rigged up 350tn long bails and 3.5in elevators.
4648.0	P22	TP	C13	TP	2	Rigged up Schlumberger wireline pump in assembly and rigged up cement hose to pump in assembly.
4648.0	P22	TP	C13	TP	1	Pressure tested lines with cement unit against TIW valve and"'pack off" to 1500 psi. Pressure tested against XX plug to 750 psi - all good tests.
4648.0	P22	TP	C13	TP	3.5	Backed off quick connection on pump in assembly and laid down assembly onto rig floor to install chemical cutter. Rigged up T-bar and sheaves for Schlumberger wireline. Made up chemical cutter tool and installed in tubing.
4648.0	P22	TP	C13	TP	4.5	Installed pump in assembly and RIH with chemical cutter. Stopped at 2000 m with tool and closed ICV. Continued to RIH with chemical cutter and hung up at ICV. Attempted to work tool string past same - no success. Pulled back 100 m and opened ICV. RIH with tool string - successfully passed ICV. Correlated and landed out tool string on R-nipple @ 2532 m. Fired the chemical cutter to cut AHC packer at 16:15hrs. Flow checked tubing and annulus 10 minutes - OK. POOH.
4648.0	P22	TP	C13	TP	2	Tools at surface, confirmed chemical cutter fired - noted damage to severing head. Laid out tool string, and rigged down Schlumberger.
4648.0	P22	TP	C13	TP	1.5	Made up 6ft pup joint to landing string. Released MTHRT with 7 RH turns of landing string - observed shear pins sheared after 6 turns with 6,000 ft/lbs over original torque. Confirmed with Cameron that ICV closed, AAV and AMV open.
4648.0	P22	TP	C13	TP	1.5	Held JSA and POOH and laid out landing string and MTHRT.
4648.0	P22	TP	C13	TP	1.5	Picked up and made up THRET to 5.5in drill pipe and RIH to top of tubing hanger at 91.59m.

Date : 05 Sep 2008 | **Daily Cost : AUD$ 619700** | **Report Number : 36**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C13	TP	1	Made up THRET into tubing hanger, unlocked tubing hanger with 4 LH turns and observed increase in torque confirming that the tubing hanger unlocked. Closed annular. Pumped down completion string with 5 bbls brine to 1400psi and observed Pump Open Plug sheared open at 1400 psi. Opened ICV and confirmed with Cameron that TRSSSV closed, CSM, PMV, XOV, AMV and AAV opened. Picked up 2m, intial pickup weight 220 klbs, after 1m pick up, weight dropped down to 208 klbs. Obseved no pressure increase on annulus or tubing.
4648.0	P22	TP	C13	TP	0.5	Cameron closed AMV, AAV, PMV and XOV with HPU. Lined up to circulate down string with returns back via choke manifold. Pumped at 2.5 bbls/min. String took 8 bbls to fill. Pressure increasing to 1800psi after pumping 51 bbls - got partial returns. Stopped pumps and observed drill pipe pressure fall to 0 psi. Annulus pressure = 0 psi. Recommenced pumping down string at 1.2 bbls/min, pressure increased to 1500 psi - getting partial

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Date : 05 Sep 2008 **Daily Cost : AUD$ 619700** **Report Number : 36**

						returns. Estimated loss = 20 bbls. Stopped pumps and closed choke.
4648.0	P22	TP	P3	TP	1	Observed pressure increase on choke manifold to 200psi, drill pipe pressure 0 psi. Worked string up and down over 4m interval 4 times with 240klbs pickup, 178klbs down weight. Attempted to circulate string while working string up and down. Pressure fluctuated in drill pipe and annulus. Stop pumps - SICP = 200 psi SIDP = 100 psi.
4648.0	P22	TP	P3	TP	1.5	Attempted to bleed of casing pressure, bled off 6 bbls to trip tank, closed in choke and observed SICP immediately build back up to 200psi. SIDP = 0 psi. Pumped 3 bbls down string - drill pipe pressure increased but SICP remained at 200 psi - no circulation. Pumped 10 bbls total. Worked string up and down over a 2m interval - pressures fluctuated.
4648.0	P22	TP	P3	TP	2	Stopped working string and observed pressures: SICP and SIDP both stabalized at 300 psi after 30 minutes. Bled of 4.5 bbls from string (SSSV flapper closed) and observed drill string - no flow on drill pipe for 1 hour - SICP remained steady at 300 psi.
4648.0	P22	TP	P3	TP	3	Held PJSM. Broke off one stand of drill pipe and installed TIW. Racked back stand. Removed TIW and made up TDS (gas evident in string). Continued to pick up string 23 m total stripping through annular - while pumping at 1.3 BPM and 300 psi. Casing pressure remained constant at 300 psi.
4648.0	P22	TP	P3	TP	1.5	Opened choke and took sample of returns from annulus - 10.4 ppg with slight diesel contamination. Worked string in an attempt to establish a circulation path and pulled back 42 m to place bottom packer at 2487 m - above top 400 Sand perforations at 2494 m. Observed pressure drop on annulus to 150 psi. Opened choke and pressure bled down to zero with no further flow. Attempted to circulate but not getting any returns. Opened annular and checked fluid level in annulus -took 22 bbls to fill hole. Commenced pumping and working string with annular open and established returns.
4648.0	P22	TP	F4	TP	1	Continued circulating at 5.5 BPM and 300 psi. Diesel contamination in brine and weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Circulated 100 bbls and observed rapid pressure increase.
4648.0	P22	TP	F4	TP	1	Work string up and down and cleared circulation route around packers.
4648.0	P22	TP	F4	TP	3	Continued circulating at 3.5 BPM & 300 psi. Slight diesel contamination in returns and brine weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Pit volumes holding steady for the first 710 bbls then observed losses while pumping the last 60 bbls of circulation.
4648.0	P22	TP	G14	TP	1	Flow checked well: down-hole losses 9 bbls / hour. (Pulled and racked back one stand drill pipe)
4648.0	P22	TP	F3	TP	1.5	Pumped 120 bbls HEC pill and displaced with 230 bbls brine. (Lost 80 bbls)
4648.0	P22	TP	G14	TP	0.5	Flow checked well. Losses at 6 bbls / hour.
4648.0	P22	TP	G8	TP	1.5	POOH with tubing hanger to surface. Serviced THRET, cut control lines and laid out THRET and tubing hanger.
4648.0	P22	TP	G8	TP	0.5	POOH with completion string from 2478m - 2466m. Observed backflow from string increasing, installed TIW valve and closed same.
4648.0	P22	TP	G8	TP	1	Lined up and pumped 30 bbls 11.00ppg brine down string and chased with 10 bbls 10.8 ppg brine. Flow checked. No backflow observed from string.
4648.0	P22	TP	G8	TP	2.5	POOH with completion string to 2378m. Laid out TRSSV at 2428m.

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Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	G8	TP	20	POOH with completion string and laid out same. Average joints laid out per hour was 10 joints.
4648.0	P22	TP	G13	TP	2	Made up Bore protector running tool and bore protector, RIH and set same in SST. POOH and racked back running tool in derrick.
4648.0	P22	P	G13		2	RIH picking up 12 joints of heavy weight drill pipe - picked up and made up BOP test tool to heavy

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weight drill pipe and continue RIH.

Date : 07 Sep 2008 | **Daily Cost : AUD$ 619200** | **Report Number : 38**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	G13	TP	1.5	RIH with BOP test plug set same in SST at 92.72m with 25k down. Flushed lines via Halliburton with 11.00 ppg brine and tested lines to 4000psi. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up and set 25k down on test plug. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up and made up test string to Top Drive. Set 35k down on test plug - observed test assembly traveled down 6 inches from previous mark.
4648.0	P22	P	G13		1.5	Pressure tested BOP Annular Rams and HCR's to 300psi/4000psi 5/5 mins. All good tests.
4648.0	P22	P	G13		2	POOH with test assembly, laid out heavy weight drill pipe.
4648.0	P22	TP	E4	TP	5.5	Rigged up Schlumberger wire line and RIH with 9.50in gauge ring/junk basket to 2482m. POOH - laid out tools and rigged down Schlumberger wireline.
4648.0	P22	TP	G13	TP	1	RIH with Bore Protector pulling tool and engaged same on Bore Protector with 9k down. Pulled Bore Protector with 11k overpull. POOH - laid out Bore Protector and running tool.
4648.0	P22	TP	G24	TP	0.5	Cleared rig floor of equipment.
4648.0	P22	P	G11		0.5	Serviced Top Drive.
4648.0	P22	TP	C4	TP	1	Rigged up to run completion. Made up well contol assemblies with water bushings for 5.50 in and 7.00in tubing.
4648.0	P22	TP	C4	TP	5	Held JSA. Ran 5.50in completion string and assemblies as per tally to 359m. Checked AHC packer assembly and installed 7 shear screws.
4648.0	P22	TP	C4	TP	1	Changed out elevators. Picked up and made up assembly LT4-8B and LT3-9B and installed control lines and tested Gauge to Gauge mandrel to 5,500 psi.
4648.0	P22	TP	C4	TP	4.5	Continued to RIH with 7.00in completion string to 965m.

Date : 08 Sep 2008 | **Daily Cost : AUD$ 666300** | **Report Number : 39**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C4	TP	15	Continue RIH with 5.50/7.00in completion string from 965m to 2570 m
4648.0	P22	TP	C4	TP	1	Broke circulation and circulated at 1.4 bbls/min at 25psi - observed returns in trip tank - shut down pumps Stung into PBR at 2574.76m with 10k down - confirmed seals holding with 180 psi on tubing string - no returns to trip tank - shut down pumps.
4648.0	P22	TP	C4	TP	2	POOH to installed TRSSSV at 242.5m MDRT.
4648.0	P22	TP	C4	TP	3.5	Picked up and install TRSSV at 242.5 MDRT - installled control line and tested same to 4,000psi. Observed leaks in test system while testing TRSSSV - changed out 2 needle valves.
4648.0	P22	TP	C4	TP	2.5	Continued RIH with 7.00in tubing to 2475m.

Date : 09 Sep 2008 | **Daily Cost : AUD$ 974200** | **Report Number : 40**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C4	TP	4.5	Picked up and made up tubing hanger. Terminated TRSSSV control lines through tubing hanger and pressure tested control lines to 4,000psi. Baker Hughes installed and tested Production Quest electricial line connection through tubing hanger to 7,500psi. Performed pre submergence checks.
4648.0	P22	TP	C4	TP	0.5	Installed split bushing into rotary table and landed out tubing hanger at rotary table.
4648.0	P22	TP	C4	TP	1.5	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger.

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Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 09 Sep 2008 **Daily Cost : AUD$ 974200** **Report Number : 40**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
						Performed pre submergence checks.
4648.0	P22	TP	C4	TP	1.5	Ran landing string & completion from 2477m to 2570.8m. ROV opened CSM & TST rotary valves including PMV, XOV, AAV and AMV. Landed tubing hanger with 30k lbs down - landed off tubing string weight and held landing string weight. Closed off AAV and AMV.
4648.0	P22	TP	C4	TP	2	Locked and tested tubing hanger to 500psi/5min, 4000psi/10min. with landing string at neutral weight. Rotated tubing hanger 3.8 turns cw to lock hanger. Rotated 3.8 turns ccw and performed o/pull of 130klbs.
4648.0	P22	TP	P1	TP	4	Pressure tested SST valves. Rigged up 30ft Expro bales, held PJSM and made up flowhead.
4648.0	P22	TP	G1	TP	2	Made up co-flex hose and chicksan lines to flowhead, hooked up Schlumberger control hoses to flowhead.
4648.0	P22	TP	P1	TP	2	Held PJSM, flushed surface lines and tested flowhead master valve against Expro choke valve to 500/5500psi for 10min. Tested down annulus against annular/tie-back seal to 300psi.
4648.0	P22	TP	P3	TP	1.5	Pressure observed on tubing: 120psi and increasing by 1psi/min. Pressure caused by gas influx due to dropping brine level inside tubing. Rigging up slickline equipment.
4648.0	P22	TP	G1	TP	3.5	Held PJSM & rigged up slickline lubricator and BOP's. Made up tool string, installed lubricator and tested same to 4000psi.
4648.0	P22	TP	C1	TP	1	Equalised pressure between flowhead and tubing (334psi), RIH and retrieved isolation sleeve. Observed pressure drop on tubing from 334psi to 80psi when sleeve was pulled - pressure vented into annulus. Closed annular and observed pressures: SITHP = 80 psi, SICP = 0 psi.

Date : 10 Sep 2008 **Daily Cost : AUD$ 623600** **Report Number : 41**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C1	TP	1.5	POOH with hanger protection sleeve. Closed master valve on flowhead. Laid out protection sleeve. Made up short wireline protection sleeve.
4648.0	P22	TP	C1	TP	1	Pressure tested lubricator to 4000 psi / 5 mins. RIH and set short wireline protection sleeve. POOH with running tool. Closed master valve on flowhead. Laid out running tool. SITHP = 309 psi.
4648.0	P22	TP	C1	TP	1.5	Made up 4.5in GS pulling tool. Pressure tested lubricator to 4000 psi / 5 mins. RIH and attempted to pull 4.562in RQ lock from SSSV and POOH. Closed master valve on flowhead. Did not recover RQ lock from SSSV. SITHP = 407psi
4648.0	P22	TP	C1	TP	1.5	Made up lubricator and pressure tested to 4000 psi / 5 minutes. Opened master valve - SITHP = 630 psi. Bled back SITHP from 630 psi to 200 psi. Commenced RIH with GS pulling tool on slickline to top of SSSV. Stop running slickline. SITHP = 260 psi.
4648.0	P22	TP	C1	TP	0.5	Stop running slickline. SITHP = 260 psi. Lined up to lubricate 10.9 ppg brine into tubing. Commenced pumping 10.9 ppg brine into tubing at 0.2 BPM with 350 psi THP.
4648.0	P22	TP	F3	TP	0.5	Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2 bpm. THP increased from 350 psi to 407 psi.
4648.0	P22	TP	C1	TP	0.5	Latched and recovered RQ Lock from SSSV & POOH to surface.
4648.0	P22	TP	F3	TP	0.5	THP = 416 psi. Bled off at Expro choke to 350 psi. Dry gas returns. Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2BPM. THP increased from 390 psi to 440 psi.
4648.0	P22	TP	C1	TP	1	Closed master valve on flow-head and SSSV. Bled off lubricator and removed tool string with RQ Lock. Made up sliding sleeve shifting tool string. Pressure tested lubricator. Opened master valve and SSSV. SITHP = 440 psi.

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Date : 10 Sep 2008 **Daily Cost : AUD$ 623600** **Report Number : 41**

4648.0	P22	TP	C1	TP	0.5	Commenced RIH with sliding sleeve shifting tool to sliding sleeve at 2475 m. (While RIH with slick line bled off THP via Expro choke to 350 psi - 80% gas returns).
4648.0	P22	TP	C1	TP	0.5	THP = 376 psi. SICP = 0 psi. Opened sliding sleeve with slick line. Observed gradual rise in THP from 376 psi to 397 psi, then leveled off at 394 psi. Confirmed sliding sleeve opened with 6 passes through sleeve with tool.
4648.0	P22	TP	C1	TP	1	POOH with shifting tool on slick line. Pulled tool string into lubricator and closed flow head swab valve.
4648.0	P22	TP	F3	TP	1.5	Attempted to reverse circulate pumping 10.9 ppg brine down annulus and hold 450 psi back pressure with Expro choke on tubing. Pumped 26 bbls at 2 bpm - THP increased from 397 psi to 403 psi. Suspected losses down-hole. Opened drilling choke and confirmed no flow on annulus. Opened Annular - took 43 bbls to fill riser. Observed TT circulating across top of well - down-hole losses 2.5 bbls / hour.
4648.0	P22	TP	P3	TP	1.5	Commenced bleeding off THP at Expro Choke in stages and monitored tubing filling from annulus via sliding sleeve. THP fell in stages after each bleed off. Reduced THP from 425 psi to 0 psi and filled tubing string with 31 bbls brine via sliding sleeve from annulus. Dry gas returns to Expro Choke throughout bleed off. Flow checked: no flow on tubing at open Expro choke (no brine either), annulus holding steady.
4648.0	P22	TP	F3	TP	0.5	Closed annular. Lined up and reverse circulated brine down annulus and up tubing via the sliding sleeve. Pumped 5 bbls and got brine returns back to Expro choke. Shut down. Opened annular. Flow checked well - ok.
4648.0	P22	TP	F3	TP	2.5	Lined up and circulated 300 bbls 10.9 ppg filtered inhibited brine (with 1% by volume RCW 24/100 Corrosion Inhibitor - double concentration) down tubing string with cement unit at 3 bpm and 75 psi and taking returns back to mud pits.
4648.0	P22	TP	C1	TP	5	Removed lubricator and laid out sliding sleeve tool. Made up 4.562in XX plug and tool string. Installed lubricator and pressure tested to 4000 psi. RIH and set plug at 2450m, POOH. Closed FMV & FSV, broke off lubricator & changed out toolstring to 4.562in retrieval tool. Installed lubricator & pressure tested same to 5500psi.
4648.0	P22	TP	P1	TP	1.5	Lined up tubing string and tested same against XX plug @ 2450m to 500psi/5min and 5500psi/10min OK. Closed SSSV & bled of pressure above SSSV to 1000psi to perform inflow test for 15min OK. Equalised pressure and opened SSSV.
4648.0	P22	TP	C1	TP	1	Opened FSV. RIH with 4.562in GR plug retrieval tool to latch on to XX plug @ 2450m.

Date : 11 Sep 2008 **Daily Cost : AUD$ 709900** **Report Number : 42**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C1	TP	1	Continued RIH with 4.562in GR plug retrieval tool, attempted to latch onto plug and POOH to surface - no success.
4648.0	P22	TP	C1	TP	1.5	Broke off lubricator and laid down 4.562in GR tool. Made up GS tool (GR with out GU adapter), installed lubricator and pressure tested same to 4000psi OK.
4648.0	P22	TP	C1	TP	1.5	RIH with GS toolstring, latch on to plug at 2450m and POOH to surface.
4648.0	P22	TP	C1	TP	1.5	Broke off lubricator, laid down 4.562in XX plug and changed out to shifting tool string. Installed lubricator & pressure tested same to 4000psi.
4648.0	P22	TP	F3	TP	2.5	Held PJSM and pumped 205bbl diesel down tubing string followed by 3bbl water to flush surface lines. Final SITHP = 1040psi.
4648.0	P22	TP	C1	TP	2	RIH with shifting tool on slickline to 2476m and shift sliding sleeve into closed position. Observed 30psi jump on SITHP to 1070psi. POOH with shifting tool.
4648.0	P22	TP	C1	TP	3	Prepared 4.313in RX plug, loaded same into lubricator and tested lubricator to 3000psi OK. RIH RX plug to R Nipple at 2457m, latched plug and released R/tool. POOH, broke lubricator, made up GS pulling tool, re-installed lubricator and tested same to 300psi OK.
4648.0	P22	TP	C3	TP	1.5	Pressured up tubing from cement unit in stages up to 5500psi to set packer. Held 5500psi for 30min OK and then bled off pressure to 850psi (last stabilised SITHP before pressuring up tubing to set packer).

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Date : 11 Sep 2008 **Daily Cost : AUD$ 709900** **Report Number : 42**

4648.0	P22	TP	C3	TP	1	Closed annular, rigged up with cement unit and pumped down kill line in stages to 3800psi and held pressure for 30min OK. Bled off annular pressure to 0psi.
4648.0	P22	TP	C1	TP	1.5	RIH to 4.313in RX plug. Found plug to be at 2473m instead of 2457m. Latched onto plug, equalised pressure and attempted to retrieve same - unsuccessful. POOH same. Rigged down lubricator and recovered pulling tool.
4648.0	P22	TP	C1	TP	3.5	Made up GS pulling tool, tested lubricator to 4000psi, RIH and latched on to plug. Jarred on plug and sheared off pins on tool. POOH GS tool.
4648.0	P22	TP	G11	TP	2.5	Cut off 20m of slick line, serviced and re-dressed GS tool, set jarring capacity to 800lbs
4648.0	P22	TP	C1	TP	1	Made up GS tool with prong removed, loaded in lubricator, tested lubricator to 4000psi.

Date : 12 Sep 2008 **Daily Cost : AUD$ 4461700** **Report Number : 43**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P22	TP	C3	TP	2.5	Completed pressure test on lubricator to 4000 psi. RIH with GS tool with inner prong removed and tagged top of 4.313in plug at 2473m. Observed tool passing through 4.313in nipple at 2457m. POOH tool and removed same from lubricator.
4648.0	P22	TP	C3	TP	3.5	Loaded GS tool and jar, with upgraded capacity of 800 lbs, into lubricator and tested lubricator to 4000 psi. RIH tool on slick line. Latched onto plug and jarred on same. Plug appeared to come free with good indication of additional weight on slick line. Worked plug and tool through 4.313in nipple at 2457m. POOH to surface - 4.313in RX plug recovered - No apparent damage to plug.
4648.0	P22	P	C3		1.5	Made up GS tool and tested lubricator to 4000 psi. RIH and retrieved wireline protection sleeve. Retrieved protection sleeve from lubricator, laid down tools and lubricator.
4648.0	P22	P	G1		1	Installed Otis pressure test cap and pressure tested same to 4000 psi/5 min. Performed ESD function test - OK. Confirmed all valves correctly lined up and completed pre-flow checklist. (Pre-flow meeting held on 11/09)
4648.0	P24	P	C8		15.5	Commenced flowing/flaring well taking first of diesel cushion into surge tank. Continued flowing/flaring well. Maintained annulus pressure between 200 - 400 psi.

Date : 13 Sep 2008 **Daily Cost : AUD$ 616600** **Report Number : 44**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P24	P	C8		7	Continued to flow / flare well to clean up same.
4648.0	P24	P	C8		13	Diverted flow through separator, conducted 4 flow periods and obtained all samples. Bled off annular pressure and shut well in at 19.50hrs.
4648.0	P24	P	C13		1	Maintained well shut in for 1 hr. Final SITHP 3561 psi.
4648.0	P21	P	P1		1.5	Closed SSSV and bled off tubing pressure to 200 psi for inflow test. Monitored pressure for 1 hr. Final SITHP 205 psi.
4648.0	P21	P	C8		1	Lined up stbd side flare boom and bled off last 200 psi on tubing to flare boom.
4648.0	P21	P	F3		0.5	Lined up and pumped 20 bbl of glycol down tubing string to fill "void" between SSSV and SST.

Date : 14 Sep 2008 **Daily Cost : AUD$ 619600** **Report Number : 45**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P21	P	F3		0.5	Rigged up and pumped approx 87 bbl of diesel contaminated brine to separator for flaring.
4648.0	P21	P	G1		1	Held PJSM, rigged up to run slickline operations and loaded 5.25in Tubing Hanger plug and r/tool into lubricator.
4648.0	P21	P	F3		0.5	Flushed surface testing lines with drill water via flare boom.
4648.0	P21	P	P1		1	Tested lubricator to 4000 psi - OK.
4648.0	P21	P	C3		2.5	RIH with 5.25in Tubing Hanger plug to 93.3m. Filled landing string and slowly pressured up on plug to 3000 psi to set plug. Pressure tested plug to 4000psi - OK (2 attempts).
4648.0	P21	P	C3		0.5	POOH R/tool and remove same from lubricator.
4648.0	P21	P	P1		0.5	Tested Tubing Hanger plug from below using 1500 psi between plug and SSSV. Pressure increased to 3400 psi and stabilised. Suspected SSSV leaking.

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Date : 14 Sep 2008 **Daily Cost : AUD$ 619600** **Report Number : 45**

4648.0	P21	TP	P1	DH	8.5	Assessed the situation & discussed with shore support. Opened annulus valve, pressured up above SSSV to 3400 psi and then bled off. Operated SSSV and attempted to repeat inflow test on SSSV without success (2 attempts).
4648.0	P21	TP	P1	DH	1.5	Pressured above SSSV to 3400psi via the annulus. Bullheaded 2bbls fluid through the SSSV flapper into the well. Bled off pressure using the rig choke to 370psi (Xtree) and obtained successful inflow test on SSSV - pressure increased by 70psi over a 62 minute (from 200psi) period.
4648.0	P21	P	G1		2	Held JSA and rigged down slickline equipment, flushed manifold and rigged down surface lines.
4648.0	P21	P	G1		4	Held JSA, rigged down flowhead and laid out same. Laid out extended bails and rigged up 350 ton bails. Made up 2 x TIW valves with side entry sub and LT valve and made up same to landing string.
4648.0	P21	P	C3		1.5	Held landing string weight and with annular in low pressure closed position, rotated string with 6 1/4 turns (13 kft-lb torque) and unlatched MTHRT. Lifted string 300mm and allowed u-tube pressures to equalise.

Date : 15 Sep 2008 **Daily Cost : AUD$ 650000** **Report Number : 46**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P21	P	F3		1	Lined up and pumped 150 bbl of drill water through landing string.
4648.0	P21	P	G2		2	Laid out TIW valves and side entry sub, POOH and laid out 7in landing joints and MTHRT.
4648.0	P21	P	G8		1	Changed out elevators, made up 10in soft bullnose and RIH on 5.5in DP to 92m.
4648.0	P21	P	F3		0.5	Closed annular and reverse circulated 50 bbl of drill water using cement unit pumping at 5 bbl/min.
4648.0	P21	P	G8		0.5	POOH and laid out jetting bullnose.
4648.0	P21	P	G1		1.5	Picked up MTHRT and reset tool for Internal Tree Cap.
4648.0	P21	TP	C3	DH	3	M/U ITC onto MTHRT. RIH on 7in tubing to 1m above tubing hanger. Spotted 30 litres of Transaqua HT2 into top cavity of SST. Landed ITC in tubing hanger. Closed annular preventer and pressured up to 3000 psi to assist landing of ITC. Attempted to lock ITC in place, however only able to achieve 1 turn of running string (3.5 to 4.5 turns required).
4648.0	P21	TP	C3	DH	3.5	Picked up ITC 1m above tubing hanger and then repeated attempt to land & latch ITC without succes. POOH and inspected ITC / running tool. ITC appeared to have been in fully landed position, however junk seal was missing from the running tool and there was (mud?) solids type debris on ITC & running tool. Removed wireline guide from bottom of ITC. Prepared ITC & redressed MTHRT for re-running.
4648.0	P21	TP	F3	DH	1	RIH with 10in soft bullnose on 5.5in drill pipe to 92m. Jetted tubing hanger with seawater. Pumped a total of 600 bbls at 1500 gpm. POOH and laid out jetting bullnose.
4648.0	P21	P	C3		5	M/U ITC onto MTHRT. RIH on 7in tubing to 1m above tubing hanger. Spotted 30 litres of Transaqua HT2 into top cavity of SST. Landed ITC in tubing hanger. Closed annular preventer and pressured up to 2000 psi to assist landing of ITC, AMV and AAV held open to prevent pressure lock, ITC landed successfully. Locked ITC in place with 4-12 turns of running string. Backed out 3.5 turns & confirmed ITC locked in place with 60 klbs overpull. Pressure test cavity between ITC & TH plug to 500 / 4000psi (5 mins each test) via TCT line.
4648.0	P21	P	C3		1.5	Rotated landing string with 6 turns to unlatch MTHRT - shearing torque 13kft-lbs. POOH landing string and laid down same including MTHRT. Offline: Re-tested cavity between ITC and TH plug via TCT line to 4000 psi/5 min - OK.
4648.0	P21	P	G1		0.5	Cleared rig floor and laid down tools including Weatherford.
4648.0	P21	P	G1		3	Cleared catwalk of 7in landing string joints. Broke out and laid out 2 x TIW valves and side entry sub used for circulating 7in landing string. Laid out 6 stands of 5.5in DP from derrick and 1 stand of 3.5in DP.

Date : 16 Sep 2008 **Daily Cost : AUD$ 652100** **Report Number : 47**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P21	P	G13		2.5	Rigged up 20T slings and pulled diverter. Difficulty pulling diverter - required removal of slings and use of bails to unlodge diverter from housing.
4648.0	P21	TP	G25	WOW	11	WOW - winds of 50knts gusting to 60knts.

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DFE above MSL : 41.10m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 16 Sep 2008 **Daily Cost : AUD$ 652100** **Report Number : 47**

						Unable to continue working on BOP, standby boat unable to provide Fast Rescue Craft cover. While WOW, rigged down drill floor hoses and flowline, worked on equipment in pit room & shakers, broke down saver sub and both I-BOP's.
4648.0	P21	P	G13		3	Wind speed reduced to 35 - 42 knts. Rigged up handling slings and laid out o/shot and mandril.
4648.0	P21	P	G13		2.5	Nippled down BOP and choke line and racked back BOP on stump.
4648.0	P21	P	G1		1.5	Held JSA, picked up BOP work platform and set back same on deck.
4648.0	P21	P	G1		2	Picked up handling equipment, made up DQ R/tool on 1 stand of DP and screwed into top tension jnt of riser. Picked up riser weight and released tension on CTU.
4648.0	P21	P	G1		1.5	Held JSA and commenced removal of Claxton clamp. ROV work over for the last 24hrs: Tooled up FLOT and Class 4 Torque Tool and tested/calibrated same. Dived and removed IWOC plate and fitted same to running line. Removed electrical umbilical. Removed hydro connector and released running line.

Date : 17 Sep 2008 **Daily Cost : AUD$ 2357700** **Report Number : 48**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P21	P	G1		1.5	Continued to break out Claxton clamp. Split clamp and lifted segments from Texas deck to main deck.
4648.0	P21	P	G1		2	Split and removed CTU and placed same in parked position on port side of cantilever.
4648.0	P21	P	G1		0.5	Jumped ROV, pressured up to 1500 psi and observed indicator showed unlatched position of H4 connector. Pulled H4 and riser free from SST.
4648.0	P21	P	G9		1	Racked back 1 stand of DP with DQ R/tool and commenced laying down 22in riser joints.
4648.0	P21	TP	G9	RE	1	Unable to rotate elevators/bails during laying down operations - troubleshot problem.
4648.0	P21	P	G9		5.5	Laid out 22in riser joints, installed C-plate at Texas deck to suspend H4 connector and laid out remaining 2 joints of riser. Rigged down W/ford.
4648.0	P21	P	G1		12.5	Rigged down scaffolding from cantilever to shakers. Moved Cameron control unit, hose reel and SST R/tool to forward side of deck. Broke out and laid out DQ R/tool and 3 joints of DP. Offloaded boat with DP and conductor pipe. Rigged up handling equipment for picking up H4 connector. Installed new Torque Tube on TDS. ROV work last 24hrs: Fitted marine growth prevention plugs Installed IWOC cover plate Installed electrical penetration plug Fitted SST temporary cover

Date : 18 Sep 2008 **Daily Cost : AUD$ 636300** **Report Number : 49**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
4648.0	P21	P	G1		11	Continued offloading 30in conductor casing and remaining containers from boat using stbd crane. Moved flare boom to cantilever deck. Lifted and set back H4 connector on deck. Commenced lifting Texas deck and general preparations for skidding rig. Port crane non-operational after 01:00hrs due to ongoing electrical problems.
4648.0	P21	P	M2		4	Skidded in cantilever deck 5 ft, removed gumbo hose and pinned off Texas deck. Continued skidding in cantilever and secured same.
4648.0	P21	P	M3		3	Connected lead boat (Battler), jacked down rig to 1.5m draft, performed water integrity test - OK and continued to jack rig down to full moving draft.
4648.0	P21	P	M1		1	Commenced rig move to Bazzard-1. 1 mile away from Longtom-4 @ 19:00hrs. **** END OF LONGTOM - 4 @ 19:00hrs ON 18th SEPTEMBER 2008****

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DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Activity Report For Longtom-4 P

Date : 24 Jul 2008 **Daily Cost : AUD$ 38440500** **Report Number : 1**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P15	P	G6		2	**** COMMENCE Longtom-4 P at 16h30 on 24/07/08 **** Held PJSM and picked up rotary steerable 9.5in BHA to 35m. Loaded RA source.
2600.0	P15	P	G8		2	Continue RIH with 9.5in BHA on HWDP to 153m.
2600.0	P15	P	F3		0.5	Held PJSM and displaced sea water in hole to SBM at 153m.
2600.0	P15	P	G8		3	Continued RIH with 9.5in BHA from 153m to 982m. Filled pipe every 15 stands.

Date : 25 Jul 2008 **Daily Cost : AUD$ 681600** **Report Number : 2**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2600.0	P15	P	G8		4.5	Continued RIH with 9.5in BHA from 982m to 2406m filling up every 15 stnds at first and then every 20 stnds as ported float eased requirements for filling up pipe.
2600.0	P15	U	G23		0.5	Incident in derrick: Derrickman had hand squeezed by DP. Time Out For Safety: Discussed measures to protect personnel and prevent injury.
2600.0	P15	P	G8		0.5	Continued RIH from 2406m to 2525m.
2604.0	P15	P	D1		2.5	Washed down from 2525m and tagged top of cement at 2551m. Washed and drilled down cement from 2551m to shoe at 2591m and rathole to 2600m. Drilled 4m of new formation to 2604m.
2604.0	P15	P	F4		1	Circulate bottom up at 2604m pumping at 640gpm and using 60rpm.
2604.0	P15	P	P1		1	Perform FIT to 818psi (14ppg EMW) using 11.95ppg mud. Pumped 3bbl total and 3bbl flowed back after test.
2641.0	P15	P	D4		3.5	Drilled ahead 9.5in hole from 2604m to 2641m.
2641.0	P15	TP	D4	RE	0.5	Relief valved blew due to malfunction of I-BOP. Reset same.
2819.0	P15	P	D4		10	Drilled ahead 9.5in hole from 2641m to 2819mMD (2488mTVD). Took survey on every connection. Xceed tool failed causing well angle to drop +/-1deg per stand drilled.

Date : 26 Jul 2008 **Daily Cost : AUD$ 882300** **Report Number : 3**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2841.0	P15	P	D4		1	Drilled ahead 9.5in hole from 2819m to 2841m - coring point.
2841.0	P15	P	F4		1	Circulated 1.5 x bottoms up at 750gpm, 3100psi,180rpm.
2841.0	P15	TP	D4	TP	3	Flowchecked well and POOH backreaming at 60m/h ROP to recapture LWD/MWD missed data over intervals from 2800m - 2790m, 2755m - 2745m and 2725m - 2715m.
2841.0	P15	P	G8		7	Continued POOH from 2715m to shoe at 2591m. Flowcheck well. Continued POOH from 2592m to 2400m, pumped 30bbl slug and continued POOH to BHA at 214m. Flowchecked well and continued POOH BHA to 33m.
2841.0	P15	P	G6		1.5	Held PJSM, recovered radio active source and laid down Schlumberger steerable, MWD and LWD tools. Broke out 9.5in bit.
2841.0	P15	P	G11		1	Serviced TDS and crown block.
2841.0	P15	P	G5		4	Made up core barrel, 8.5in core head and inner barrel as Baker instructions, RIH to 58m and spaced out inner barrel.
2841.0	P15	P	G8		5.5	RIH core barrel assy and BHA from 58m to 306m and continue RIH on DP to 2369m filling up every 600m. (Float showing signs of leaking) Performed trip drill.

Date : 27 Jul 2008 **Daily Cost : AUD$ 732700** **Report Number : 4**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2841.0	P15	P	G8		1.5	Continued RIH with core barrel from 2369m to 2812m.
2841.0	P15	P	D6		0.5	Washed down using 300gpm from 2812m and tagged bottom at 2841m.

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DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :
Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 27 Jul 2008 **Daily Cost : AUD$ 732700** **Report Number : 4**

2841.0	P15	P	E7		0.5	Dropped ball - pressure increased from 400psi to 750psi. Took SCR's.
2841.0	P15	P	E7		4	Cut 8.5in core #1 from 2841m to 2896m making a connection for a new stand at 2869m. Cored at 60 - 70rpm, 230gpm, 1100psi and 7klbs WOB. ROP 5 - 20m/hr. Broke core with 25klbs o/pull.
2896.0	P15	P	G8		5.5	POOH core barrel from 2896m to shoe at 2591m, flowchecked, pumped slug and continued POOH to 2308m - pipe pulling wet. Dropped ball to open circulating sub and continue POOH to 651m.
2896.0	P15	P	G8		2.5	Held PJSM with new crew and continued to POOH from 651m to 150m at controlled rate of 5min/stnd.
2896.0	P15	P	G8		0.5	Continued POOH from 150m to 67m at controlled rate of 10min/stnd.
2896.0	P15	P	E7		5	Held PJSM, broke out top sub, checked for gas, recovered inner barrel and laid down core, 99% recovery. Laid down outer barrel.
2896.0	P15	P	G11		1	Rig service - removed cooling blower for TDS hydraulics due to failure of fan blades.
2896.0	P15	P	G6		2	Picked up new 9.5in bit and BHA consisting of MWD/LWD tools and RIH to 27m.
2896.0	P15	P	G7		1	Held PJSM, loaded RA source into tools and continued to RIH to 143m.

Date : 28 Jul 2008 **Daily Cost : AUD$ 704800** **Report Number : 5**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2896.0	P15	P	G8		0.5	Continued RIH BHA from 143m to 209m.
2896.0	P15	P	P2		0.5	Made up 1 stnd DP and performed shallow MWD/LWD test at 650gpm.
2896.0	P15	P	G8		5	Installed diverter insert and continued RIH from 209m to 2620m filling string every 20 stands.
2896.0	P15	P	F1		0.5	Washed down from 2620m to 2637m.
2896.0	P15	TP	D6	TP	3	Reamed down over the following intervals to recapture missing data from previous MWD/LWD tools. From 2640m to 2670m, from 2720m to 2735m, from 2750m to 2766m and from 2792m to 2813 using 500gpm, 120m/hr, 120rpm.
2896.0	P15	P	D6		2	RIH to 2841m and reamed cored section from 2841m to 2896m using 150rpm, 720gpm.
2987.0	P15	P	D2		9.5	Continued drilling 9.5in hole from 2896m to 2987m (2604.7m TVD) - final TD of Pilot hole. Surveyed every connection.
2987.0	P15	P	F4		0.5	While circulating bottom sample to surface, reamed over 2975m to 2987m to recapture missing data from MWD/LWD tools.
2987.0	P15	P	F3		0.5	Flowchecked well and pumped slug.
2987.0	P15	P	G8		2	POOH from 2987m to shoe at 2591m, flowchecked and continued to POOH to 2430m.

Date : 29 Jul 2008 **Daily Cost : AUD$ 680200** **Report Number : 6**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2987.0	P15	P	G8		3.5	Continued to POOH from 2430m to top of BHA, flowchecked and continued POOH BHA.
2987.0	P15	P	G6		2	Laid out Jars, unloaded RA source, broke out bit and bit sub and laid down Schlumberger MWD/LWD tools.
2987.0	P15	P	G1		1	Cleaned rig floor, held PJSM and rigged up for Schlumberger wireline logs.
2987.0	P15	P	G7		2.5	Made up Schlumberger run #1 XPT/ DSI.
2987.0	P15	P	E3		13	Ran wireline log #1 XPT/DSI commencing with XPT from 2603m to 2967.5m. Took 40 pressure tests in this interval. Tools stuck at 2986m for 20min requiring 8500lbs o/pull to free.
2987.0	P15	P	E3		2	Commenced DSI of wireline log #1 from 2985m up the hole.

Date : 30 Jul 2008 **Daily Cost : AUD$ 1778700** **Report Number : 7**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2987.0	P15	P	E4		0.5	Continued logging DSI of wireline log #1 to 2050m.
2987.0	P15	P	E4		1.5	POOH Schlumberger log #1 XPT/DSI to surface. Prepared for radio silence for log #2.
2987.0	P15	P	G7		1.5	Laid down tools from wireline log #1. Prepared for radio silence for log #2.

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DFE above MSL : 41.06m | Lat : 38 Deg 06 Min 17.707 Sec | Spud Date : 21 Jun 2008 | Release Date :

Water Depth : 56m | Long : 148 Deg 19 Min 59.944 Sec | Spud Time : 01.20 | Release Time :

Date : 30 Jul 2008 **Daily Cost : AUD$ 1778700** **Report Number : 7**

2987.0	P15	P	G7		1	Made up Schlumberger log #2 SWC. Prepared for Radio silence.
2987.0	P15	P	E4		1	RIH with log #2 CST/GR to 2600m. GR did not function correctly.
2987.0	P15	TP	E4	TP	6.5	Troubleshot GR on log #2 CST/GR. POOH and changed out unit module. RIH to 1600m. GR still did not work. POOH to surface, changed out GR and RIH to 2600m
2987.0	P15	P	E4		6	Continued with log #2 CST/GR - 60 shots run: 3 recovered, 2 misfires, 3 lost and 2 empty.
2987.0	P15	P	G1		1.5	Rigged down Schlumberger wireline.
2987.0	P15	P	G2		3	Held PJSM. Rigged up and ran 2.875in cement stinger consisting of mule shoe and 16 joints of 2.875in tubing to 165m.
2987.0	P15	P	G8		0.5	Rigged down tubing equipment, made up x/overs and ran 5.5in DP to 253m.
2987.0	P15	P	G11		1	Performed rig service - TDS.

Date : 31 Jul 2008 **Daily Cost : AUD$ 590700** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
2987.0	P15	TP	G11	RE	0.5	Continued rig service - topped up hydraulic fluid for TDS.
2987.0	P15	TP	G11	RE	0.5	2 x Main engines dropped out - reverted to emergency generator. Troubleshot problem - reset switches, restarted engines 2 & 3 and powered up rig.
2987.0	P15	TP	G8	RE	3	Continued to RIH from 253m to 785m at very slow rate (8 stnds/hr) to prevent engines from tripping out. Engines shut down again at 03:20hrs and were powered up again at 03:30hrs.
2987.0	P15	P	G8		4.5	Continued to trip at normal speeds - Driller monitoring power consumption levels at drill floor. RIH with cement stinger from 785m to shoe at 2591m. Only 2 engines on line.
2987.0	P15	TP	G11	RE	5.5	Waited at shoe while troubleshot problems on main engines. Swapped 5 injectors on engine #2, cleaned 6 injectors on engine 3 and cleaned settling tank.
2987.0	P15	P	G8		0.5	Engines 1, 2 and 3 back on line. Continued to RIH from 2591m to 2858m.
2987.0	P15	P	F3		3.5	Dropped foam ball, circulated one string volume and inserted CST. Pulled back to 2855m. Displaced CST with 185bbl and pumped a further 50bbl of SBM. Spaced stinger to 2848m, made up side entry sub and kelly cock and pressure tested lines to 1000psi. Placed balanced cement plug from 2848m to 2698m by pumping ahead 10bbl water and 15bbl tuned spacer at 13.8ppg, 52bbl class G cement at 16.5ppg and behind: 5bbl tuned spacer and 3.5bbl water. Displaced cement down with 165bbl SBM.
2987.0	P15	P	G8		1	Rigged down cement lines and side entry sub and slowly pulled up 6 stnds to place stinger at 2681m.
2987.0	P15	P	F4		1	Circulated bottoms up at 800gpm.
2987.0	P15	P	G8		4	Pumped 25bbl slug and POOH from 2681m to 165m - top of stinger.
						**** Consider this to be END OF SECTION LONGTOM-4 P ****

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AFE DETAILED BREAKDOWN
LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
121745 GENERAL							
3040	Rig Positioning	**$99,800**	**$0**	**$124,900**		**$91,431**	
	Weather Forecasting During Rig Ops.	$8,800					
	Marine Supervision - towmaster	$7,200					
	Marine Supervision - Fugro	$9,000					
	Rig Positioning - Equipment Standby	$63,229					
	Rig Positioning - Equipment Operational	$6,400					
3050	Reg Submissions /HazIDs/Prespud/DWOP	**$170,000**	**$0**	**$170,000**		**$124,446**	
	Lumpsum Estimate						
3060	Environment	**$50,000**	**$0**	**$50,000**		**$36,602**	
	Submissions / Studies						
8000	Communications General	**$72,500**	**$0**	**$82,900**		**$60,686**	
	Basic 512k VSAT incl. equipment	$44,700					
	Additonal 128k segments	$11,800					
	Daily calls	$9,900					
5020	Operator Sundries	**$0**	**$0**	**$0**			
	Safety Clothing/Rewards						
	Misc Rig Supplies						
9035	Marine Transport	**$4,879,200**	**$3,874,700**	**$5,404,700**	**$4,874,800**	**$3,956,425**	**$3,568,520**
	1ry Vessel (Battler) - Operating Cost		$2,305,851				
		$889,031					
	2ry Vessel (Valkyrie) - Operating Cost		$1,565,500				
		$875,860					
	1ry Vessel (Battler) - Fuel	$1,199,969					
	2ry Vessel (Valkyrie) - Fuel	$1,199,969					
	2nd Vessel - Op	$447,000					
	3rd Vessel - Fuel	$267,000					
9040	Aviation	**$2,048,100**	**$0**	**$2,493,600**	**$0**	**$1,825,400**	**$0**
	Daily average charges (incl all items below)	$1,801,700					
	Monthly Charge	$0					
	Hourly Rate	$0					
	Fuel	$213,700					
	Check-in charges	$0					
	Survival suits + E-perbs	$0					
	Personnel Tracker	$0					
	Freight Flgt						
	Aviation Audit	$0					
3800	Well Insurance	**$0**	**$765,300**	**$0**	**$765,300**	**$0**	**$560,226**
	Nexus Well Insurance						
	Sub Total	**$7,345,500**	**$4,677,100**	**$8,326,100**	**$5,640,100**	**$6,094,989**	**$4,128,746**
121750 RIG - DRILLING							
5010	Rig - Drilling	**$999,400**	**$21,565,700**	**$1,281,300**	**$26,780,900**	**$937,955**	**$19,604,532**
	Operating Rate		$17,365,200				
	Additional Catering		$133,900				
	Consumables		$50,000				
	Rig Fuel	$999,300					
	Rig Mob/Demob Charge per well		$4,000,000				
4005	Rig Mods	**$500,000**	**$0**	**$500,000**	**$0**	**$500,000**	**$0**
	WC ROV Setup = 200A$k; CTU Deck Mods = 200A$k; Well Test Diesel Line = 60A$k; Other						
	Sub Total	**$1,499,400**	**$21,565,700**	**$1,781,300**	**$26,780,900**	**$1,437,955**	**$19,604,532**
121755 SERVICES - DRILLING							
7020	ROV	**$680,800**	**$0**	**$715,300**	**$0**	**$523,624**	**$0**
	Equipment						
	WC ROV Operating Rate	$148,200					
	IC ROV Standby Rate	$44,500					
	300KVA Gen	$23,400					
	Mob	$20,000					
	Demob	$10,000					
	Personnel						
	Mob/Demob	$6,000					
	ROV Supervisor	$168,200					
	Senior ROV Pilot	$191,700					
	Suitcase ROV						
	ROV Mob	$2,000					
	Op Rate	$28,800					
	Per Mob	$1,600					
	Per Rate	$34,100					
7015	Cementing Services	**$0**	**$448,700**	**$0**	**$386,000**	**$0**	**$386,000**

AFE DETAILED BREAKDOWN LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	Equipment						
	Cementing Unit Standby		$31,800				
	Cementing Tools Standby		$77,400				
	Pressure tests		$27,875				
	Pumping Costs		$22,925				
	Cement Jobs						
	30" Cement Job - Cement + Chemicals		$30,000				
	16" Cement Job - Cement + Chemicals		$40,000				
	10-3/4" Cement Job - Cement + Chemicals		$40,000				
	9-1/2" Hole Plugback		$20,000				
	6" Liner Cement + Chemicals		$20,000				
	Remedial Cementing		$10,000				
	Cement Retainer		$2,500				
	Cement Tests		$8,925				
	Personnel						
	Mob/Demob		$1,800				
	Cementer Operating		$67,700				
	Assistant Operating		$43,400				
7010	Drilling Fluids	**$360,800**	**$2,434,600**	**$465,000**	**$3,363,800**	**$465,000**	**$3,363,800**
	Drilling Fluids						
	36" Hole Section		$25,000		$50,000		
	22" Hole Section		$0				
	13½" Hole Section		$0				
	9½" Hole Section		$2,013,700				
	Completion Brine		$41,800				
	Personnel						
	Senior Mud Engineer		$82,400				
	Mud Engineer		$82,400				
	Solids Control						
	Variable Speed Centrifuge - Standby		$24,000				
	Variable Speed Centrifuge - Operating		$12,104				
	Solids Control Engineer		$29,500				
	Brine Plant						
	Rental brine plant + mixing charge	$120,000					
	SBM Containment						
	Tasman Package						
	Equip Dayrate	$50,400					
	Per Dayrate	$138,225					
	SBM PPE + Consumables						
	Tasman Package	$50,000					
	SBM Tank Cleaning						
	Rig	$0					
	Boats	$0					
	QTEC						
	Survey						
	Preparations						
	Operations		$122,200				
8010	Mud Logging	**$314,500**	**$0**	**$246,400**	**$0**	**$246,400**	**$0**
	Equipment						
	Mud logging Unit Rental - operating	$60,000					
	Daily Consumable Rate	$10,100					
	Addl display units (above 3 @ $55 per unit per d	$2,900					
	Real Time Data Transmission (RigLinkTM)	$26,100					
	Other	$12,100					
	Personnel						
	Lead Mud Logging Engineer	$94,900					
	Mud Logging Assistant	$79,900					
	Mobilisation per person per trip	$14,100					
	Personnel						
	Magnet	$12,000					
8015	MWD / LWD, Surveying, Directional Drilling	**$2,052,300**	**$0**	**$1,664,100**	**$0**	**$1,664,100**	**$0**
	36" & 22" Section Equipment						
	MWD PP8-AA - Standby	$32,800					
	MWD PP8-AA - Operating	$12,400					
	13-1/2" Section Equipment						
	MWD - Standby	$66,300					
	MWD - Operating	$43,400					
	D&I Data Trans	$2,000					
	GR - Standby	$0					

AFE DETAILED BREAKDOWN LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	GR - Operating	$0					
	ARC8 - Standby	$62,300					
	ARC8 - Operating	$40,400					
	ADN - Standby	$453,800					
	9-1/2" Section Equipment						
	MWD - Standby	$53,568					
	MWD - Operating	$67,328					
	MWD Surcharge	$18,216					
	GR - Standby	$0					
	GR - Operating	$0					
	Ecoscope - Daily Rental	$562,345					
	ARC6 - Daily Rental	$27,319					
	APWD	$17,500					
	MVC	$35,000					
	Tool Repair						
	Misc Charges						
	MWD Unit	$26,900					
	Redress Charge	$75,400					
	Personnel						
	Mob/Demob	$12,000					
	RST Engr	$90,800					
	MWD Operator	$7,920					
	Directional Drlr	$5,550					
7014	Casing Running Services	**$482,000**	**$0**	**$419,100**	**$0**	**$306,795**	**$0**
	General Equipment						
	Hydraulic Power Unit	$3,671					
	Torque Turn Computer	$3,671					
	Drift Wire	$21					
	30" Casing Handling Equipment						
	30" conductor handling equipment	$3,334					
	22" Riser Handling Equipment						
	22" Riser handling equipment	$25,500					
	16" Casing Handling Equipment						
	16" conductor handling equipment	$8,000					
	10-3/4" Casing Handling Equipment						
	10-3/4" Casing Handling Equipment (Lump sum)	$5,000					
	7" Liner Handling Equipment						
	7" Liner Handling Equipment (Lump sum)	$4,000					
	7" Cr Tbg Handling Equipment						
	7" Liner Handling Equipment (Lump sum)	$0					
	5-1/2" Cr Tbg Handling Equipment						
	5-1/2" Cr Tbg Handling Equipment (Lump sum)	$0					
	Multi-use Package						
	Stab Master						
	22" Handling Package						
	30" Handling Package						
	14" Power Tong	$4,600					
	Flush Mounted Spider	$13,300					
	Hydraulic Safety Clamp	$1,700					
	Top-Drive Fill-up Tool	$15,200					
	StabEzi System, Elevator	$14,900					
	Additional 7" Hydril Equip	$5,000					
	2-7/8" handling equip						
	22" Elev						
	14" Back Up Tong						
	Consumables						
	Bestolife 2000 pipe dope	$2,400					
	Bestolife 72733 pipe dope	$0					
	Dope brush	$0					
	Threadlock	$300					
	Personnel						
	Crew Chief (leading Hand)	$97,400					
	Jam Technician per day	$53,000					
	Tong Operator	$71,500					
	Shoe-track Makeup						
	16" shoe-track	$1,500					
	7" Shoe-track	$1,000					
	10-3/4" shoe-track	$1,600					
8015	Coring	**$0**	**$172,200**	**$0**	**$175,000**	**$0**	**$175,000**

AFE DETAILED BREAKDOWN
LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	Equipment						
	6-3/4" x 4" Coring package Initial Rental Cost (45 days)		$50,000				
	Core Head		$50,000				
	Standard Aluminium inner tubes ($ / 6m)		$9,900				
	Shoe assemblies ($ / shoe)		$400				
	Core Transportation Crates (45 days)		$4,500				
	GR Logger		$200				
	Core Preservation		$400				
	Personnel						
	ACS						
	Senior Coring Operator		$24,000				
	Core Prerservation		$24,000				
	Mob/demob		$8,900				
7016	Specialist Services	**$0**	**$357,300**	**$0**	**$431,500**	**$0**	**$315,873**
	Subsea HPU Tech		$0				
	D-Q Service Engr		$36,300				
	CIW Service Engr		$104,500				
	Fishing Tools						
	Standby Rental Charges		$195,100				
	Daily Reporting System						
	Daily Drilling Report		$10,200				
	Daily Geological Report		$6,000				
	Offshore Server		$1,700				
8020	Wireline Logging	**$0**	**$1,731,600**	**$0**	**$637,400**	**$0**	**$637,400**
	Services						
	Unit Rental		$198,688				
	13-1/2" Hole Job		$655,000				
	9-1/2" Pilot Hole Job		$800,000				
	DSI-XPT Rental		$0				
	DSI-XPT Operating		$0				
	CST Rental		$0				
	CST Operating		$0				
	TLC Tools Rental		$0				
	LWF Tools Rental		$0				
	Interact		$0				
	Contingent Chemical Cutter & Packoff		$0				
	Perf 7" Liner - Cement Job		$77,900				
	Personnel						
	Crew		$0				
9030	Freight	**$250,000**	**$0**	**$250,000**	**$0**	**$183,009**	**$0**
	Freight						
9010	Base Costs	**$1,368,083**	**$0**	**$1,642,700**	**$0**	**$1,202,512**	**$0**
	Daily Average Charges (includes all items below	$1,317,100					
	Open yard at shorebase	$0					
	Wharehouse rental	$0					
	Berth charge	$0					
	Gangway hire	$0					
	Load cell	$0					
	Tek-Ocean						
	Misc costs (accom, cars, phones etc.)	$0					
9110	Consultants	**$2,572,900**	**$191,000**	**$2,643,700**	**$285,000**	**$1,935,279**	**$285,000**
	Planning Fee	$315,000					
	Close out cost	$67,500					
	Mob/demob Personnel	$25,800					
	Proj Management Ops charge	$1,778,100					
	Wellbore Stability Study		$50,000				
	T&D Study / Monitoring		$141,000				
	FE Tools QAQC	$10,000					
	Nexus Geologist	$45,500					
	Nexus Subsea Engr	$118,000					
	AMOG Studies	$27,000					
	AML Design Work	$37,000					
	Bureau Veritas	$10,000					
	Reach	$138,500					
	Sub Total	**$8,081,383**	**$5,335,400**	**$8,046,300**	**$5,278,700**	**$6,526,719**	**$5,163,073**
121760	**HARDWARE - DRILLING**						
7016	Drilling Tools	**$2,066,400**	**$249,300**	**$2,042,100**	**$345,000**	**$2,042,100**	**$345,000**
	Motors						
	6-1/2" Perf Motor Rental	$48,800					

AFE DETAILED BREAKDOWN
LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	6-1/2" Perf Motor Operating	$11,800					
	RST	$15,000					
	RST Run Charge	$15,000					
	PD900-X5 Daily Rental	$382,800					
	PD900-X5 Op Surcharge	$305,200					
	Xceed 675 Daily Rental	$1,165,500					
	Xceed 675 Service	$0					
	Stabilisers						
	22" String Stabiliser	$2,600					
	Inspection & Redress Charges	$1,000					
	13-1/2" String Stabiliser	$10,800					
	Inspection & Redress Charges	$0					
	9-1/2" Near Bit Stabiliser	$25,900					
	Inspection & Redress Charges	$0					
	Drilling Jars						
	8in OD Drilling Jars with 6-5/8" reg conns		$37,400				
	Inspection & Redress Charges		$3,000				
	6-1/2" OD Drilling Jar with NC50 conns		$59,700				
	Inspection & Redress Charges		$7,200				
	Pony Drill Collars						
	9-1/2" OD with 7-5/8" reg conns	$0					
	Inspection & Redress Charges	$0					
	8-1/4" OD with 6-5/8" reg conns	$0					
	Inspection & Redress Charges	$0					
	6.5in OD with NC50 conns.	$0					
	Inspection & Redress Charges	$0					
	Bit Subs	$0					
	7-5/8" reg box x 7-5/8" reg box BFF	$5,600					
	Inspection & Redress Charges						
	6-5/8" reg box x 6-5/8" reg box BFF	$4,500					
	Inspection & Redress Charges						
	4-1/2" NC50 box x NC50 reg box BFF						
	Inspection & Redress Charges						
	FAC-L Circulating Packer						
	Casing running circulating packer - 13-3/8"	$21,300					
	Inspection & Redress Charges						
	Service Engineer	$0					
	5½" DP Rental						
	Rental		$69,000				
	3½" DP Rental						
	Rental		$71,700				
	Drlg x/os						
	x/o's	$45,000					
6040	Drill Bits	**$55,000**	**$361,200**	**$0**	**$431,500**	**$0**	**$431,500**
	36" Hole						
	17-1/2" Milled tooth bit		$0				
	22" Hole						
	Milled tooth bit		$11,000				
	14-3/4" Cleanout						
	Milled tooth bit		$25,500				
	13-1/2" Hole						
	PDC		$150,500				
	9-1/2" Hole						
	Milled tooth bit		$15,000				
	PDC		$143,400				
	6" Hole						
	Milled tooth bit		$15,800				
2014	Casing & Tubing Accessories	**$137,900**	**$144,200**	**$244,000**	**$141,500**	**$244,000**	**$141,500**
	Centralisers						
	16" Centeq Centralisers		$6,500				
	16" stop collars		$3,000				
	10-3/4" Centeq Centralisers	$18,000					
	10-3/4" stop collars	$5,100					
	7" Roller Centralisers		$111,000				
	7" Roller Stop Collars		$21,000				
	7" Solid Body Centralisers	$114,800					
	7" Stop Collars		$2,650				
2017	Casing & Tubing Accessories	**$531,000**	**$0**	**$490,000**	**$0**	**$490,000**	**$0**
	HP Riser System						

AFE DETAILED BREAKDOWN
LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	System Rental	$460,000					
	Backup Conn	$30,000					
1020	Casing & Tubing	**$60,000**	**$1,446,000**	**$70,000**	**$1,760,600**	**$70,000**	**$1,760,600**
	Casing & Liner						
	30" Conductor		$25,000				
	16", 75ppf, NT80DE, BTC		$130,000				
	16", 75ppf, K55, BTC + shoetrack		$466,400				
	10-3/4", 55.5ppf, L80, Tenaris Blue		$465,000				
	10-3/4", 60.7ppf, Q125, NSCC + x/o's		$13,500				
	7", 26ppf, L80, 513		$191,064				
	7", 29ppf, L80, 513		$99,000				
	7", 513 x/o's + lift nubbins		$4,000				
	16" Float Shoe		$0				
	10-3/4" Float Shoe		$1,500				
	10-3/4" Float Collar		$1,500				
	10-3/4" SSR Plugset		$6,000				
	7" Liner setting Sleeve + x/o		$28,000				
	7" Reamer Shoe		$15,000				
	Water bushings / x/o's	$60,000					
	Miscellaneous						
	Inspection Charges	$0					
2110	Wellhead	**$0**	**$150,000**	**$0**	**$150,000**	**$0**	**$150,000**
	CIW STC-10 System						
2013	Liner Hanger	**$0**	**$50,500**	**$0**	**$30,000**	**$0**	**$30,000**
	Rental Tools						
	System Rental		$8,000				
	Personnel		$23,500				
	Assembly		$19,000				
6070	Other Consumables	**$900,000**	**$285,800**	**$1,091,000**	**$3,166,200**	**$900,000**	**$285,661**
	Completion Tubulars						
	7", 26ppf, 13Cr80, Fox - Full Joints ex LT3 stock	$0	$0				
	7", 26ppf, 13Cr80, Fox - Full Joints new	$0	$0				
	7", 26ppf, 13Cr80, Fox - Pup Joints, Couplings,	$0	$0				
	5½" 17ppf, 13Cr80, Fox - Full Joints ex LT3 sto	$0	$0				
	5½" 17ppf, 13Cr80, Fox - Full Joints new	$0	$0				
	5½" 17ppf, 13Cr80, Fox - Pup Joints, Couplings	$0	$0				
	5½" 13Cr80, Fox Blast Joints ex LT3 stock	$0	$0				
	5½" 13Cr80, Vam FJL Blast Joints new	$0	$0				
	Completion Equipment						
	Completion Pre-Assemblies	$0	$0				
	Downhole Gauges & Control Line Fittings	$0	$0				
	Slickline & Electricline Equipment	$0	$0				
	Other Completion Equipment	$0	$0				
	Subsea Equipment (NB. SST & assoc. equip not c						
	22" Riser & Connectors	$900,000	$0				
	Backup Tubing Hanger & Plugs	$0	$0				
	18¾" Wellhead & assoc. equip	$0	$285,700				
	Sub Total	**$3,750,300**	**$2,687,000**	**$3,937,100**	**$6,024,800**	**$3,746,100**	**$3,144,261**
121785 SERVICES - COMPLETION & TESTING							
	Completion Services	**$16,400**	**$0**	**$2,653,000**	**$1,400,000**	**$0**	**$0**
	Tubing Conveyed Perforating	$0	$0				
	Downhole Gauge Installation	$0	$0				
	Slickline Tool Rentals	$0	$0				
	Pre-Assembly Work	$0	$0				
	Pre-assembly Transport & Basket Hire	$0	$0				
	Completion Installation Services	$0	$0				
	Filtration	$0	$0				
	Wellbore Cleanout Tools	$0	$0				
	Tubing Inspection & Tallying	$0	$0				
	Rental wellhead equipment	$0	$0				
	Wellhead & SST Running Tools	$0	$0				
	Wellhead Personnel	$0	$0				
	Brine & Cleanout Chemicals	$0	$0				
	3½" Drillpipe Rental	$0	$0				
	Other Completion & Subsea Services	$0	$0				
	AWT	$16,400	$0				
8035	Surface Well Testing	**$0**	**$0**	**$2,787,000**	**$237,500**	**$0**	**$0**
	Surface well test package	$0	$0				
	Flowhead Rental	$0	$0				

AFE DETAILED BREAKDOWN LONGTOM-4

		Actual Cum Costs - Drlg Phase		AFE		Drlg Phase AFE	
		AUD	USD	AUD	USD	AUD	USD
	Crossovers for Flowhead	$0	$0				
	Sample Analysis	$0	$0				
	Sample Containers	$0	$0				
	Rig Deluge System	$0	$0				
	Sand Monitor	$0	$0				
	Sub Total	**$16,400**	**$0**	**$5,440,000**	**$1,637,500**	**$0**	**$0**
121790 HARDWARE - TESTING							
2015	Perm Packers	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
	Perm Pkrs & associated equipment	$0	$0				
	Rental Equipment	$0	$0				
	Sub Total	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
9500	Contingency	**$1,320,483**	**$0**	**$1,642,700**	**$0**	**$1,202,512**	
	General Contingency						
	Sub Total	**$1,320,483**	**$0**	**$1,642,700**	**$0**	**$1,202,512**	**$0**
	DAILY COST (AUD/USD)	**$22,013,467**	**$34,265,200**	**$29,173,500**	**$45,362,000**	**$19,008,276**	**$32,040,611**
	DAILY COST (AUD)	**$61,907,800**		**$81,987,600**		**$56,312,600**	
	CUM COST (AUD)						

LONGTOM-4 COST OVERVIEW

		Vendor	Actual Cum Costs AUD	Actual Cum Costs USD	REVISED AFE AUD	REVISED AFE USD
121745 GENERAL						
3040	Rig Positioning		$147,200	$0	$126,349	
3050	Reg Submissions /HazIDs/Prespud/DWOP		$170,000	$0	$552,500	
3060	Environment		$50,000	$0	$50,000	
8000	Communications General		$100,500	$0	$188,041	
5020	Operator Sundries		$0	$0	$56,707	
9035	Marine Transport		$6,610,100	$5,453,100	$7,862,469	$5,528,737
9040	Aviation		$2,837,900	$0	$2,548,540	
3800	Well Insurance		$0	$765,300		$765,300
	Sub Total		$9,915,700	$6,218,400	$11,384,606	$6,294,037
121750 RIG - DRILLING						
5010	Rig - Drilling		$1,413,800	$30,221,600		$29,738,090
4005	Rig Mods		$575,000	$0	$500,000	
	Sub Total		$1,988,800	$30,221,600	$500,000	$29,738,090
121755 SERVICES - DRILLING						
7020	ROV		$956,300	$0	$811,255	
7015	Cementing Services		$0	$604,000		$386,000
7010	Drilling Fluids		$593,100	$2,229,500	$413,963	$4,268,700
8010	Mud Logging		$404,200	$0	$279,454	
8015	MWD / LWD, Surveying, Directional Drilling		$2,054,200	$0	$1,629,100	
7014	Casing Running Services		$698,800	$0	$524,543	
8015	Coring		$7,000	$172,200		$175,000
7016	Specialist Services		$0	$609,200		$669,827
8020	Wireline Logging		$0	$1,808,900		$722,905
9030	Freight		$250,000	$0	$283,537	
9010	Base Costs		$1,879,333	$0	$1,863,062	
9110	Consultants		$3,406,100	$191,000	$3,120,264	$120,787
	Sub Total		$10,249,033	$5,614,800	$8,925,178	$6,343,219
121760 HARDWARE - DRILLING						
7016	Drilling Tools		$2,067,300	$435,500	$1,964,125	$25,405
6040	Drill Bits		$55,000	$361,200		$431,500
2014	Casing & Tubing Accessories		$137,900	$144,200	$314,000	$185,500
2017	Casing & Tubing Accessories		$531,000	$0	$900,000	$611,700
1020	Casing & Tubing		$100,200	$1,446,000		$1,716,600
2110	Wellhead		$0	$150,000	$0	$150,000
2013	Liner Hanger		$0	$50,500	$0	$30,000
6070	Other Consumables		$952,200	$1,304,100	$241,000	$2,554,500
	Sub Total		$3,843,600	$3,891,500	$3,419,125	$5,705,205
121785 SERVICES - COMPLETION & TESTING						
7024	Completion Services		$1,958,600	$919,500	$2,200,354	$1,584,646
8035	Surface Well Testing		$3,476,800	$307,000	$3,500,000	$330,000
	Sub Total		$5,435,400	$1,226,500	$5,700,354	$1,914,646
121790 HARDWARE - TESTING						
2015	Perm Packers		$0	$0	$0	$0
	Sub Total		$0	$0	$0	$0
9500	Contingency		$1,832,500	$0	$1,863,062	$323,232
	Sub Total		$1,832,500	$0	$1,863,062	$323,232
	TOTAL COST (AUD/USD)		$33,265,033	$47,172,800	$31,792,325	$50,318,429
	TOTAL EQUIVALENT A$ (Forex USD to AUD 0.8589)		$88,187,400		$90,377,100	

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
121745 GENERAL						
3040	Rig Positioning		**$147,200**	**$0**	**$126,349**	
	Weather Forecasting During Rig Ops.	Metservice	$11,900			
	Marine Supervision - towmaster	Fugro	$10,600			
	Marine Supervision - Fugro	Fugro	$17,400			
	Rig Positioning - Equipment Standby	Fugro	$88,800			
	Rig Positioning - Equipment Operational	Fugro	$11,400			
3050	Reg Submissions /HazIDs/Prespud/DWOP		**$170,000**	**$0**	**$552,500**	
	Lumpsum Estimate		$170,000			
3060	Environment		**$50,000**	**$0**	**$50,000**	
	Submissions / Studies		$50,000			
8000	Communications General		**$100,500**	**$0**	**$188,041**	
	Basic 512k VSAT incl. equipment	Seadrill	$62,100			
	Additonal 128k segments	Seadrill	$16,400			
	Daily calls	Seadrill	$13,800			
5020	Operator Sundries		**$0**	**$0**	**$56,707**	
	Safety Clothing/Rewards					
	Misc Rig Supplies					
9035	Marine Transport		**$6,610,100**	**$5,453,100**	**$7,862,469**	**$5,528,737**
	1ry Vessel (Battler) - Operating Cost	Swire	$0	$3,231,579		
			$1,234,200			
	2ry Vessel (Valkyrie) - Operating Cost	Swire		$2,194,000		
			$1,215,900			
	1ry Vessel (Battler) - Fuel	Shell or BP	$1,699,400			
	2ry Vessel (Valkyrie) - Fuel	Shell or BP	$1,699,400			
	3rd Vessel - Op		$492,000	$21,500		
	3rd Vessel - Fuel		$269,500	$1,500		
9040	Aviation		**$2,837,900**	**$0**	**$2,548,540**	
	Daily average charges (incl all items below)	Bristow	$2,525,100			
	Monthly Charge	Bristow	$0			
	Hourly Rate	Bristow	$0			
	Fuel	Shell	$279,000			
	Check-in charges	Bristow	$0			
	Survival suits + E-perbs	Bristow	$0			
	Personnel Tracker	Bristow	$0			
	Freight Flgt		$30,000			
	Aviation Audit	Bristow	$0			
3800	Well Insurance		**$0**	**$765,300**		**$765,300**
	Nexus Well Insurance	Nexus		$765,300		
	Sub Total		**$9,915,700**	**$6,218,400**	**$11,384,606**	**$6,294,037**
121750 RIG - DRILLING						
5010	Rig - Drilling		**$1,413,800**	**$30,221,600**		**$29,738,090**
	Operating Rate	Seadrill		$24,482,563		
	Additional Catering	Seadrill		$187,994		
	Consumables	Seadrill	$0	$50,000		
	Rig Fuel	Shell	$1,413,700			
	Rig Mob/Demob Charge per well		$0	$5,500,000		
4005	Rig Mods		**$575,000**	**$0**	**$500,000**	
	WC ROV Setup = 200A$k; CTU Deck Mods = 200A$k; Well Test Diesel Line = 60A$k; Other		$575,000			
	Sub Total		**$1,988,800**	**$30,221,600**	**$500,000**	**$29,738,090**
121755 SERVICES - DRILLING						
7020	ROV		**$956,300**	**$0**	**$811,255**	
	Equipment					
	WC ROV Operating Rate	Tamboritha	$206,200			
	IC ROV Standby Rate	Tamboritha	$61,900			
	300KVA Gen		$29,800			
	Mob	Tamboritha	$20,000			
	Demob	Tamboritha	$20,000			

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	Personnel		$0			
	Mob/Demob	Tamboritha	$6,000			
	ROV Supervisor	Tamboritha	$236,900			
	Senior ROV Pilot	Tamboritha	$306,100			
	Suitcase ROV		$0			
	ROV Mob		$2,000			
	Op Rate		$28,800			
	Per Mob		$1,600			
	Per Rate		$34,100			
7015	Cementing Services		**$0**	**$604,000**		**$386,000**
	Equipment					
	Cementing Unit Standby	Halliburton		$44,063		
	Cementing Tools Standby	Halliburton		$105,141		
	Pressure tests	Halliburton		$51,600		
	Pumping Costs			$72,050		
	Cement Jobs			$0		
	30" Cement Job - Cement + Chemicals	Halliburton		$30,000		
	16" Cement Job - Cement + Chemicals	Halliburton		$40,531		
	10-3/4" Cement Job - Cement + Chemicals	Halliburton		$40,469		
	9-1/2" Hole Plugback			$23,000		
	6" Liner Cement + Chemicals			$20,000		
	Remedial Cementing			$10,000		
	Cement Retainer			$2,500		
	Cement Tests			$10,710		
	Personnel			$0		
	Mob/Demob	Halliburton		$1,800		
	Cementer Operating	Halliburton		$89,531		
	Assistant Operating	Halliburton		$63,500		
7010	Drilling Fluids		**$593,100**	**$2,229,500**	**$413,963**	**$4,268,700**
	Drilling Fluids					
	36" Hole Section	Halliburton (Baroid)		$25,306		
	22" Hole Section	Halliburton (Baroid)		$0		
	13½" Hole Section	Halliburton (Baroid)		-$310,000		
	9½" Hole Section	Halliburton (Baroid)		$1,698,100		
	Completion Brine			$374,957		
	Personnel			$0		
	Senior Mud Engineer	Halliburton (Baroid)		$114,531		
	Mud Engineer	Halliburton (Baroid)		$114,531		
	Solids Control			$0		
	Variable Speed Centrifuge - Standby	BHI		$36,566		
	Variable Speed Centrifuge - Operating	BHI		$12,104		
	Solids Control Engineer	BHI		$29,500		
	Brine Plant			$0		
	Rental brine plant + mixing charge	Halliburton (Baroid)	$120,000	$0		
	SBM Containment			$1,125		
	Equip Dayrate		$60,000	$5,000		
	Per Dayrate		$160,600			
	SBM PPE + Consumables			$0		
	Tasman Package	Tasman		$0		
	SBM Tank Cleaning			$0		
	Rig	TBC	$50,000	$0		
	Boats	TBC	$150,000	$0		
	QTEC			$0		
	Dayrate	QTEC		$127,125		
8010	Mud Logging		**$404,200**	**$0**	**$279,454**	
	Equipment					
	Mud logging Unit Rental - operating	BHI	$83,200			
	Daily Consumable Rate	BHI	$13,900			
	Addl display units (above 3 @ $55 per unit per d	BHI	$4,100			

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	Real Time Data Transmission (RigLinkTM)	BHI	$36,300			
	Other		$17,200			
	Personnel					
	Lead Mud Logging Engineer	BHI	$120,100			
	Mud Logging Assistant	BHI	$96,300			
	Mobilisation per person per trip	BHI	$17,200			
	Personnel		$0			
	Magnet	OilWorx	$12,000			
8015	MWD / LWD, Surveying, Directional Drilling		**$2,054,200**	**$0**	**$1,629,100**	
	36" & 22" Section Equipment					
	MWD PP8-AA - Standby	Schlumberger	$32,800			
	MWD PP8-AA - Operating	Schlumberger	$12,400			
	13-1/2" Section Equipment		$0			
	MWD - Standby	Schlumberger	$66,300			
	MWD - Operating	Schlumberger	$43,400			
	D&I Data Trans		$2,000			
	GR - Standby	Schlumberger	$0			
	GR - Operating	Schlumberger	$0			
	ARC8 - Standby	Schlumberger	$62,300			
	ARC8 - Operating	Schlumberger	$40,400			
	ADN - Standby	Schlumberger	$453,800			
	9-1/2" Section Equipment		$0			
	MWD - Standby	Schlumberger	$53,600			
	MWD - Operating	Schlumberger	$67,400			
	MWD Surcharge		$18,300			
	GR - Standby	Schlumberger	$0			
	GR - Operating	Schlumberger	$0			
	Ecoscope - Daily Rental	Schlumberger	$562,400			
	ARC6 - Daily Rental		$27,400			
	APWD	Schlumberger	$17,500			
	MVC	Schlumberger	$35,000			
	Tool Repair	Schlumberger	$0			
	Misc Charges		$0			
	MWD Unit		$28,500			
	Redress Charge		$75,400			
	Personnel		$0			
	Mob/Demob	Schlumberger	$12,000			
	RST Engr		$90,800			
	MWD Operator	Schlumberger	$186,200			
	Directional Drlr		$162,800			
7014	Casing Running Services		**$698,800**	**$0**	**$524,543**	
	General Equipment					
	Hydraulic Power Unit	Weatherford	$5,200			
	Torque Turn Computer	Weatherford	$5,200			
	Drift Wire	Weatherford	$100			
	30" Casing Handling Equipment					
	30" conductor handling equipment	Weatherford	$3,400			
	22" Riser Handling Equipment					
	22" Riser handling equipment	Weatherford	$25,500			
	16" Casing Handling Equipment					
	16" conductor handling equipment	Weatherford	$8,000			
	10-3/4" Casing Handling Equipment					
	10-3/4" Casing Handling Equipment (Lump sum	Weatherford	$5,000			
	7" Liner Handling Equipment					
	7" Liner Handling Equipment (Lump sum)	Weatherford	$4,000			
	7" Cr Tbg Handling Equipment					
	7" Liner Handling Equipment (Lump sum)	Weatherford	$0			
	5-1/2" Cr Tbg Handling Equipment					
	5-1/2" Cr Tbg Handling Equipment (Lump sum)	Weatherford	$0			

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	Multi-use Package		$97,100			
	Stab Master		$24,100			
	22" Handling Package		$42,900			
	30" Handling Package		$18,500			
	14" Power Tong	Weatherford	$6,300			
	Flush Mounted Spider	Weatherford	$18,300			
	Hydraulic Safety Clamp	Weatherford	$2,400			
	Top-Drive Fill-up Tool	Weatherford	$21,000			
	StabEzi System, Elevator	Weatherford	$20,500			
	Additional 7" Hydril Equip		$5,000			
	Add 3-1/2" + 2-7/8" handling equip		$38,300			
	22" Elev		$6,900			
	14" Back Up Tong		$10,700			
	Consumables					
	Bestolife 2000 pipe dope	Weatherford	$2,400			
	Bestolife 72733 pipe dope	Weatherford	$0			
	Dope brush	Weatherford	$0			
	Threadlock	Weatherford	$300			
	Personnel		$0			
	Crew Chief (leading Hand)	Weatherford	$131,900			
	Jam Technician per day	Weatherford	$81,600			
	Tong Operator	Weatherford	$105,900			
	Shoe-track Makeup		$0			
	16" shoe-track	Weatherford	$1,500			
	7" Shoe-track		$1,000			
	10-3/4" shoe-track	Weatherford	$1,600			
8015	Coring		**$7,000**	**$172,200**		**$175,000**
	Equipment					
	6-3/4" x 4" Coring package Initial Rental Cost (45 days)			$50,000		
	Core Head			$50,000		
	Standard Aluminium inner tubes ($ / 6m)			$9,900		
	Shoe assemblies ($ / shoe)			$400		
	Core Transportation Crates (45 days)			$4,500		
	GR Logger			$200		
	Core Preservation			$400		
	Core Analysis		$7,000			
	Personnel					
	Senior Coring Operator			$24,000		
	Core Prerservation			$24,000		
	Mob/demob			$8,900		
7016	Specialist Services		**$0**	**$609,200**		**$669,827**
	D-Q Service Engr	Dril-Quip		$47,850		
	CIW Service Engr	CIW		$233,700		
	Fishing Tools			$0		
	Standby Rental Charges	Weatherford		$271,467		
	Compl Equip Fishing Package			$26,500		
	Daily Reporting System					
	Daily Drilling Report	IDS		$14,133		
	Daily Geological Report	IDS		$8,244		
	Offshore Server	IDS		$2,356		
8020	Wireline Logging		**$0**	**$1,808,900**		**$722,905**
	Services					
	Unit Rental			$276,000		
	13-1/2" Hole Job			$655,000		
	9-1/2" Pilot Hole Job			$800,000		
	DSI-XPT Rental	Schlumberger		$0		
	DSI-XPT Operating	Schlumberger		$0		
	CST Rental	Schlumberger		$0		
	CST Operating	Schlumberger		$0		

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	TLC Tools Rental	Schlumberger		$0		
	LWF Tools Rental	Schlumberger		$0		
	Interact	Schlumberger		$0		
	Contingent Chemical Cutter & Packoff	Schlumberger		$0		
	Perf 7" Liner - Cement Job			$77,900		
	Personnel			$0		
	Crew	Schlumberger		$0		
9030	Freight		**$250,000**	**$0**	**$283,537**	
	Freight		$250,000			
9010	Base Costs		**$1,879,333**	**$0**	**$1,863,062**	
	Daily Average Charges (includes all items below	GML	$1,828,400			
	Open yard at shorebase	GML	$0			
	Wharehouse rental	GML	$0			
	Berth charge	GML	$0			
	Gangway hire	GML	$0			
	Load cell	GML	$0			
	Tek-Ocean		$51,000			
	Misc costs (accom, cars, phones etc.)	GML	$0			
9110	Consultants		**$3,406,100**	**$191,000**	**$3,120,264**	**$120,787**
	Planning Fee	ADA	$315,000			
	Close out cost	ADA	$67,500			
	Mob/demob Personnel	ADA	$29,300			
	Proj Management Ops charge	ADA	$2,468,300			
	Wellbore Stability Study	GMI		$50,000		
	T&D Study / Monitoring	K&M		$141,000		
	FE Tools QAQC		$10,000			
	Nexus Geologist		$45,500			
	Nexus Subsea Engr		$238,000			
	AMOG Studies		$27,000			
	AML Design Work		$37,000			
	Bureau Veritas		$10,000			
	Reach		$158,000			
	Sub Total		**$10,249,033**	**$5,614,800**	**$8,925,178**	**$6,343,219**
121760 HARDWARE - DRILLING						
7016	Drilling Tools		**$2,067,300**	**$435,500**	**$1,964,125**	**$25,405**
	Motors					
	6-1/2" Perf Motor Rental	Schlumberger	$48,800			
	6-1/2" Perf Motor Operating	Schlumberger	$11,800			
	RST					
	RST Run Charge		$15,000			
	PD900-X5 Daily Rental	Schlumberger	$397,800			
	PD900-X5 Op Surcharge	Schlumberger	$305,200			
	Xceed 675 Daily Rental	Schlumberger	$1,165,500			
	Xceed 675 Service	Schlumberger	$0			
	Stabilisers					
	22" String Stabiliser		$2,600			
	Inspection & Redress Charges		$1,000			
	13-1/2" String Stabiliser		$10,800			
	Inspection & Redress Charges		$0			
	9-1/2" Near Bit Stabiliser		$25,900			
	Inspection & Redress Charges		$0			
	Drilling Jars					
	8in OD Drilling Jars with 6-5/8" reg conns			$40,200		
	Inspection & Redress Charges			$3,000		
	6-1/2" OD Drilling Jar with NC50 conns			$62,000		
	Inspection & Redress Charges			$7,200		
	Pony Drill Collars					
	9-1/2" OD with 7-5/8" reg conns		$0			
	Inspection & Redress Charges		$0			

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	8-1/4" OD with 6-5/8" reg conns		$0			
	Inspection & Redress Charges		$0			
	6.5in OD with NC50 conns.		$0			
	Inspection & Redress Charges		$0			
	Bit Subs					
	7-5/8" reg box x 7-5/8" reg box BFF		$6,100			
	Inspection & Redress Charges					
	6-5/8" reg box x 6-5/8" reg box BFF		$4,900			
	Inspection & Redress Charges					
	4-1/2" NC50 box x NC50 reg box BFF					
	Inspection & Redress Charges					
	FAC-L Circulating Packer					
	Casing running circulating packer - 13-3/8"		$21,300			
	Inspection & Redress Charges					
	Service Engineer		$0			
	5½" DP Rental					
	Rental	Weatherford		$114,200		
	3½" DP Rental					
	Rental	TBC		$206,700		
	Drlg x/os					
	x/o's	Various	$45,000			
6040	Drill Bits		**$55,000**	**$361,200**		**$431,500**
	36" Hole					
	17-1/2" Milled tooth bit		$0	$0		
	22" Hole		$0			
	Milled tooth bit		$0	$11,000		
	14-3/4" Cleanout		$0			
	Milled tooth bit		$0	$25,500		
	13-1/2" Hole		$0			
	PDC		$0	$150,500		
	9-1/2" Hole		$0			
	Milled tooth bit		$0	$15,000		
	PDC		$55,000	$143,400		
	6" Hole		$0			
	Milled tooth bit		$0	$15,800		
2014	Casing & Tubing Accessories		**$137,900**	**$144,200**	**$314,000**	**$185,500**
	Centralisers					
	16" Centeq Centralisers			$6,500		
	16" stop collars			$3,000		
	10-3/4" Centeq Centralisers		$18,000			
	10-3/4" stop collars		$5,100			
	7" Roller Centralisers			$111,000		
	7" Roller Stop Collars			$21,000		
	7" Solid Body Centralisers		$114,800			
	7" Stop Collars			$2,650		
2017	Casing & Tubing Accessories		**$531,000**	**$0**	**$900,000**	**$611,700**
	HP Riser System		$41,000			
	System Rental	Begley + DQ	$460,000			
	Backup Conn	AED + AGR	$30,000			
1020	Casing & Tubing		**$100,200**	**$1,446,000**		**$1,716,600**
	Casing & Liner					
	30" Conductor	CIW		$25,000		
	16", 75ppf, NT80DE, BTC	Mid-Continent		$130,000		
	16", 75ppf, K55, BTC + shoetrack	ex-LT3 Stock		$466,400		
	10-3/4", 55.5ppf, L80, Tenaris Blue	Tenaris		$465,000		
	10-3/4", 60.7ppf, Q125, NSCC + x/o's	ex-LT3 Stock		$13,500		
	7", 26ppf, L80, 513	Tenaris		$191,064		
	7", 29ppf, L80, 513	ex-LT3 Stock		$99,000		
	7", 513 x/o's + lift nubbins	ex-LT3 Stock		$4,000		

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	16" Float Shoe	Halliburton		$0		
	10-3/4" Float Shoe	Halliburton		$1,500		
	10-3/4" Float Collar	Halliburton		$1,500		
	10-3/4" SSR Plugset	Halliburton		$6,000		
	7" Liner setting Sleeve + x/o	BOT		$28,000		
	7" Reamer Shoe	Weatherford		$15,000		
	Water bushings / x/o's	Various	$60,000			
	Miscellaneous		$0			
	Tubing Inspection & Cleaning		$40,200			
	Inspection Charges		$0			
2110	Wellhead		**$0**	**$150,000**	**$0**	**$150,000**
	CIW STC-10 System	CIW		$150,000		
2013	Liner Hanger		**$0**	**$50,500**	**$0**	**$30,000**
	Rental Tools					
	System Rental	BOT		$8,000		
	Personnel			$23,500		
	Assembly	Weatherford		$19,000		
6070	Other Consumables		**$952,200**	**$1,304,100**	**$241,000**	**$2,554,500**
	Completion Tubulars					
	7", 26ppf, 13Cr80, Fox - Full Joints ex LT3 stock	Stock ex LT3	$0	$0		
	7", 26ppf, 13Cr80, Fox - Full Joints new	Marubeni	$0	$227,000		
	7", 26ppf, 13Cr80, Fox - Pup Joints, Couplings,	Stock ex LT3	$0	$0		
	5½" 17ppf, 13Cr80, Fox - Full Joints ex LT3 sto	Stock ex LT3	$0	$0		
	5½" 17ppf, 13Cr80, Fox - Full Joints new	Marubeni	$0	$56,600		
	5½" 17ppf, 13Cr80, Fox - Pup Joints, Couplings	Stock ex LT3	$0	$0		
	5½" 13Cr80, Fox Blast Joints ex LT3 stock	Stock ex LT3	$0	$0		
	5½" 13Cr80, Vam FJL Blast Joints new	Hunting	$0	$0		
	4-1/2" 13Cr80 VT Cplgs		$0	$3,500		
	Tbg Repairs - DPOT		$16,800	$0		
	Compl x/o's - DPOT		$11,500	$0		
	Perf Pup Jts		$2,900			
	Blast jts; x/o's; lift nubbins		$0	$108,000		
	Completion Equipment		$0	$0		
	Completion Pre-Assemblies	Stock & new	$0	$0		
	Downhole Gauges & Control Line Fittings	Stock & new	$0	$0		
	Slickline & Electricline Equipment	Stock & new	$0	$0		
	Other Completion Equipment	Stock & new	$0	$0		
	D/H Instrumentation - Production Quest		$0	$214,900		
	Large bore pump-in sub		$0	$13,800		
	X Nipples		$0	$10,200		
	4-1/2" pups + SSD		$0	$17,300		
	Halliburton Compl Equip		$0	$178,500		
	FOBV x/o's		$0	$10,000		
	BOT Compl Equipment		$0	$46,300		
	Control Line Flatpack / 7" Control Line Prot		$0	$132,200		
	Subsea Equipment (NB. SST & assoc. equip not on this AFE)		$0	$0		
	22" Riser & Connectors	Begley/DQ/Claxton	$921,000	$0		
	Backup Tubing Hanger & Plugs	Stock ex LT3	$0	$0		
	18¾" Wellhead & assoc. equip	Stock & new	$0	$285,661		
	Sub Total		**$3,843,600**	**$3,891,500**	**$3,419,125**	**$5,705,205**
121785 SERVICES - COMPLETION & TESTING						
7024	Completion Services		**$1,958,600**	**$919,500**	**$2,200,354**	**$1,584,646**
	Tubing Conveyed Perforating	Baker-Atlas	$1,175,000			
	Downhole Gauge Installation	Baker-Hughes	$0	$157,000		
	Slickline Tool Rentals	Halliburton	$99,500	$192,500		
	Pre-Assembly Work	Halliburton	$86,700			
	Pre-assembly Transport & Basket Hire	Tek-Ocean	$0	$0		
	Compl Installation Services - Well Dynamics	WellDynamics	$0	$157,000		
	Compl Installation Services - Halliburton		$0	$43,400		

LONGTOM-4 COST ESTIMATE			Actual Cum Costs		REVISED AFE	
		Vendor	AUD	USD	AUD	USD
	Filtration	Scottech	$226,000	$0		
	Wellbore Cleanout Tools	MiSwaco	$0	$84,000		
	Tubing Inspection & Tallying	Tek-Ocean	$0	$0		
	Rental wellhead equipment	Cameron	$0	$0		
	Wellhead & SST Running Tools	Cameron	$0	$0		
	Wellhead Personnel	Cameron	$0	$0		
	Brine & Cleanout Chemicals	Halliburton (Baroid)	$0	$0		
	3½" Drillpipe Rental		$0	$0		
	Other Completion & Subsea Services	Various	$355,000	$0		
	Chemical Cutter & CBL/USIT		$0	$270,200		
	Wellcat Software		$0	$15,400		
	AWT		$16,400	$0		
8035	Surface Well Testing		**$3,476,800**	**$307,000**	**$3,500,000**	**$330,000**
	Surface well test package	Expro	$3,476,800	$306,954		
	Flowhead Rental	Schlumberger	$0	$0		
	Crossovers for Flowhead	Schlumberger	$0	$0		
	Sample Analysis		$0	$0		
	Sample Containers	Intertek	$0	$0		
	Rig Deluge System	RigCool	$0	$0		
	Sand Monitor	Expro	$0	$0		
	Monthly Standby					
	Sub Total		**$5,435,400**	**$1,226,500**	**$5,700,354**	**$1,914,646**
121790 HARDWARE - TESTING						
2015	Perm Packers		**$0**	**$0**	**$0**	**$0**
	Perm Pkrs & associated equipment		$0	$0		
	Rental Equipment		$0	$0		
	Sub Total		**$0**	**$0**	**$0**	**$0**
9500	Contingency		**$1,832,500**	**$0**	**$1,863,062**	**$323,232**
	General Contingency		$1,832,500			
	Sub Total		**$1,832,500**	**$0**	**$1,863,062**	**$323,232**
	TOTAL COST (AUD/USD)		**$33,265,033**	**$47,172,800**	**$31,792,325**	**$50,318,429**
	TOTAL EQUIVALENT A$ (Forex USD to AUD 0.8589)		**$88,187,400**		**$90,377,100**	

Longtom-4 Well Suspension Report

Prepared By :	Name
Nexus Subsea Supervisor	Josh Nitschke
Nexus Completion Supervisor	Stuart Thomson

WELL DETAILS	
Surface Location - (Lat, Long)	19º 30' 21.60" S 115º 50' 1.72" E
- (UTM – GDA 94)	E 377,627.9 m N 7,842,767.3 m
Datum Description	Top of Cameron SST 18 3/4" Hub
Well Description	Gas Production
Water Depth (LAT – seabed)	55.968 m
Elevation (West Triton RT – LAT)	41.062 m
Well Depth (MDRT)	4648.00m
Well Depth (TVDRT)	2695.90m
LAT – SST Datum	50.90m
LAT - Tbg Hanger Landing Shoulder	52.048 m

SST DETAILS	
SST Type	Cameron G2 Spooltree Assembly
Working Pressure	5000 psi
Serial Number	11074895-01
Flowline Outlet Orientation	Flowline outlet facing to 270 deg.
Notes:	

TUBING HANGER DETAILS	
Make	Cameron
Description	G2 Tubing Hanger
Type & Part No:	2201912-26-01
Test Pressure	5500 psi
Serial Number	110519182-01
Services Provided	Wireline access – Min ID 4.70" (with Wireline Protection Sleeve installed)

INTERNAL TREE CAP DETAILS	
Make	Cameron
Description	G2 Internal Tree Cap
Type & Part No:	2156780-05
Test Pressure	4000 psi
Serial Number	111001579-01
Services Provided	Wireline access – Min ID 4.70 (with Wireline Protection Sleeve installed)

SST BARRIER DETAILS		
Manufacturer	Elmar SSR	Elmar SSR
Barrier No	1	2
Type	5.250" Wireline Plug	5.750" Wireline Plug
Depth (MDRT)	92.94m	92.34m
Test Pressure	4000 psi from above 3400 psi from below (well pressure)	2000 psi from above 4000 psi from below (via TCT)
Serial Number	4501267280-2-1	4501267280-1-1
Pressure Under Barrier (On Date)	270 psi on 14-Sep-08 (likely to have increased due to slow leak past SSSV)	0 psi
Notes:	Tell tale Indication	Tell tale Indication

SST FINAL VALVE STATUS					
Equip.	**Function**	**Setting**	**Equip.**	**Function**	**Setting**
Subsea Tree Manual ROV Operated Valves	CSM	Closed	**Subsea Tree Hydraulic Valves**	AAV	Closed
	DHPTT	**Extended**		AMV	Closed
	SIV1	Closed		AWV	Closed
	SIV2	Closed		CBP3	Closed
	SSD1	Closed		CIV1	Closed
	SSDC	Closed		CIV2	Closed
	TCT	Closed		CIV3	Closed
	VXT	Closed		PMV	Closed
EFL	EDU 1 / PCA	Not Fitted		PWV	Closed
	EDU 2 / PCB	Not Fitted		XOV	Closed
TJP LTC	Torque to 100 ft/lbs	Fitted		Choke	Closed
			Hot Stabs	GR	Blank stab fitted
				ACI	Blank stab fitted

Sensor	**Pressure**	**Temp**	
APT	69 psi	n/a	Annulus Pressure Transmitter
DPTT	54.9 psi	12.1 ºC	Downstream Production P & T Transmitter
DHPTT	4162.8 psi	103.07 ºC	Downhole P & T Transmitter
PCVPI	100% Closed		Production Choke Position Indicator
SBTT	n/a	12.5 ºC	Sea Bed Temperature Transmitter
SM	Connected		Sand Monitor
UPTT	65.5 psi	11.8 ºC	Upstream Production P & T Transmitter

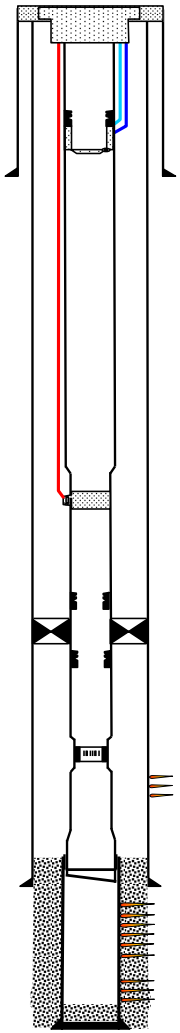
DOWNHOLE BARRIER DETAILS	
Manufacturer	Halliburton
Barrier No	1
Type	5½" TR-SSSV
Depth (MDRT)	247.66m MDRT / TVDRT
Test Pressure	3200 psi Δ from below (inflow)
Model & Serial Number	Model No. 78OO1655, Serial No. 1494794-1
Pressure Under Barrier (On Date)	3400 psi approx. on 14-Sep-08
Notes:	Initial Inflow Test successful at 5 psi/hr, repeat test required after testing Tubing Hanger Plug from below (1500 psi test, pressure increased to 3400 psi) accepted at final leak rate of 70 psi/hr

CORROSION CAP	
Manufacturer / Part No:	Cameron / 2063679-18
Construction	G2 Debris Cap
Date Installed	Short term trash cap is currently fitted – G2 debris cap will be fitted from vessel after LT3 intervention.
Inhibition Applied	Champion Tech Biocide and corrosion inhibitor sticks will be deployed with debris cap.
Notes	

LOCATION
Final Sea bed survey to be carried out by ROV after the LT3 intervention has been completed.

LONGTOM-4 RECOMPLETION — Rev 0, 06 October 2008 — 7" x 5½" 13Cr80 Single Completion

ACTUAL



Top of Liner at 2572m
PBTD at 4490m
Maximum Well Inclination : 94.0° at 3373m MDRT

ITEM	QTY	DESCRIPTION	Material	Weight lb/ft	Top Conn.	Bottom Conn.	Drift or Min ID	Max OD	Length	MD RT (LAT)	MD below Tbg Hgr	TVD RT (LAT)	HOLE ANGLE
		Elevation, Original RT to Tubing Hanger Land-off Shoulder	-	-	-	-	-	-	93.41m	0.00m			
1	1	**Horizontal Tree Tubing Hanger**	410SS	-	-	Fox	4.795"	17.760"	0.59m	**93.41m**	0.00m	93m	0 deg
2	1	Saver-sub Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	0.94m	94.00m	0.58m		
3	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.83m	94.94m	1.53m		
4	3	Space-out Pup Joints, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	7.56m	96.77m	3.36m		
5	11	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	138.36m	104.33m	10.92m		
6	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	2.05m	242.69m	149.28m		
7	1	**Flow Coupling, 7" Halliburton 811FN77017-F**	13Cr80	-	Fox	Fox	6.180"	7.676"	2.93m	244.74m	151.33m		
8	1	**TR-SSSV, 5½" (7" FOX Connections) Halliburton 'SP' 78OO1165 with 4.562" RQ Nipple**	13Cr80	-	Fox	Fox	4.562"	8.140"	3.07m	**247.66m**	154.25m	248m	1 deg
9	1	**Flow Coupling, 7" Halliburton 811FN77017-F**	13Cr80	-	Fox	Fox	6.180"	7.676"	2.93m	250.73m	157.32m		
10	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	2.05m	253.65m	160.24m		
11	156	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1956.18m	255.70m	162.29m		
12	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.97m	2211.88m	2118.47m		
13	1	**Crossover 13Cr80, 7" x 5½" Halliburton 892BPC75036-F**	13Cr80	-	Fox	Fox	4.888"	7.676"	0.50m	**2213.86m**	2120.45m	2056m	31 deg
14	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2214.35m	2120.94m		
15	1	Crossover Pup Joint, 5½" Fox box x Vam Top pin	13Cr80	17.0 lb/ft	Fox	Vam Top	4.767"	6.050"	1.54m	2215.87m	2122.46m		
16	1	**Gauge Mandrel, 5½" QuantX WellGuard GA-10-5373**	13Cr80	-	Vam Top	Vam Top	4.872"	7.230"	1.72m	**2217.41m**	2124.00m	2059m	31 deg
17	1	Crossover Pup Joint, 5½" Vam Top box x Fox pin	13Cr80	17.0 lb/ft	Vam Top	Fox	4.767"	5.978"	1.62m	2219.13m	2125.72m		
18	19	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	228.49m	2220.75m	2127.34m		
19	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.53m	2449.24m	2355.83m		
20	1	**Landing Nipple, 5½" Halliburton R 4.562" Bore, 711X45609**	13Cr80	17.0 lb/ft	Fox	Fox	4.562"	6.112"	0.58m	**2450.77m**	2357.36m	2250m	41 deg
21	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.65m	2451.34m	2357.93m		
22	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2453.00m	2359.59m		
23	1	**Packer, 10¾" x 5½" Halliburton AHC Retrievable 12OO3389**	13Cr80	-	Fox	Fox	4.858"	9.375"	2.34m	**2454.51m**	2361.10m	2253m	41 deg
24	1	Space-out Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	2.91m	2456.85m	2363.44m		
25	1	**Landing Nipple, 5½" Halliburton R 4.313" Bore, 811R43102-F**	13Cr80	-	Fox	Fox	4.313"	6.065"	0.41m	**2459.76m**	2366.35m	2257m	42 deg
26	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2460.17m	2366.76m		
27	1	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	12.08m	2461.69m	2368.28m		
28	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2473.77m	2380.36m		
29	1	Crossover Sub & Coupling, 5½" Fox box x 4½" 11.6# Vam Top pin	L80	-	Fox	Vam Top	3.929"	6.050"	0.56m	2475.29m	2381.88m		
30	1	Space-out Pup Joint, 4½"	13Cr80	12.6 lb/ft	Vam Top	Vam Top	3.833"	4.966"	3.00m	2475.85m	2382.44m		
31	1	**Sliding Sleeve, 4½" Halliburton Durasleeve 621XD38112 with 3.813" X Nipple**	13Cr80	-	Vam Top	Vam Top	3.813"	5.600"	1.29m	**2478.85m**	2385.44m	2271m	43 deg
32	1	Crossover Sub & Coupling, 4½" 11.6# Vam Top box x 5½" Fox pin	L80	-	Vam Top	Fox	3.929"	5.520"	0.50m	2480.14m	2386.73m		
33	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2480.65m	2387.24m		
34	6	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	72.66m	2482.17m	2388.76m		
35	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2554.83m	2461.42m		
36	1	**Crossover L80, 7" x 5½" Halliburton 892BPC75036-A**	L80	-	Fox	Fox	4.888"	7.676"	0.49m	**2556.35m**	2462.94m	2324m	51 deg
37	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.82m	2556.84m	2463.43m		
38	1	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	11.94m	2558.66m	2465.25m		
39	1	Handling Pup Joint, 7" Fox	13Cr80	29.0 lb/ft	Fox	-	6.059"	7.656"	3.05m	2570.60m	2477.19m		
40	-	Correction for discrepancy between tubing and liner tallies	-	-	-	-	-	-	-3.79m	2573.65m	2480.24m		
41	1	Crossover L80, Baker 7" 26# Fox box x 7⅝" 33.7# Buttress box	L80	-	-	Buttress	6.250"	8.560"	0.45m	2569.86m	2476.45m		
42	1	Crossover L80, Baker 7⅝" 33.7# Buttr. p x 7⅝" 33.7# Vam FJL p	L80	-	Buttress	Vam FJL	6.700"	8.230"	0.19m	2570.31m	2476.90m		
43	1	**Tieback Seal Assembly, Baker 7⅝" 33.7# Vam FJL box, P/n 10118250 (Top seal is 1.105m above bottom of assy)**	L80	-	Vam FJL	-	6.683"	8.350"	1.98m	**2570.50m**	2477.09m	2333m	52 deg
44	-	Overlap, Tieback Seal Assembly inside Liner (to NoGo shoulder)	-	-	-	-	-	-	-1.77m	2572.48m	2479.07m		
45	1	**Liner Setting Sleeve, 7⅝" Baker "HRD" (Top of Liner)**	L80	-	-	Hydril 511	6.760"	8.250"	2.50m	**2570.71m**	2477.30m	2333m	52 deg

LONGTOM-4 RECOMPLETION Rev 0, 06 October 2008 **7" x 5½" 13Cr80 Single Completion**

ACTUAL

ITEM	QTY	DESCRIPTION	Material	Weight lb/ft	Top Conn.	Bottom Conn.	Drift or Min ID	Max OD	Length	MD RT (LAT)	MD below Tbg Hgr	TVD RT (LAT)	HOLE ANGLE

Perforations :

Zone	Fluid	Comments	Gun Size	Gun Type	Shot Density	Phasing	Charge Type	Length	Top Shot, MDRT (LAT)	Btm Shot MDRT	Top Shot TVDRT	Top Shot ANGLE
400	Gas	Perforated w/ TCP guns, isolated between Pkr and Tieback Seals	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	22.0m	2494.0m	2516.0m	2282m	45 deg
200	Gas	Perforated overbalanced w/ TCP guns before running completion	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	78.0m	2683.0m	2761.0m	2401m	52 deg
100-1	Gas	Perforated overbalanced w/ TCP guns before running completion	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	34.0m	2828.0m	2862.0m	2490m	54 deg
50-1	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	20.4m	3132.0m	3152.4m	2611m	76 deg
100-2	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	304.0m	3640.0m	3944.0m	2624m	92 deg
100-3	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	106.4m	4085.0m	4191.4m	2653m	81 deg
100-3	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	163.0m	4243.0m	4406.0m	2676m	90 deg

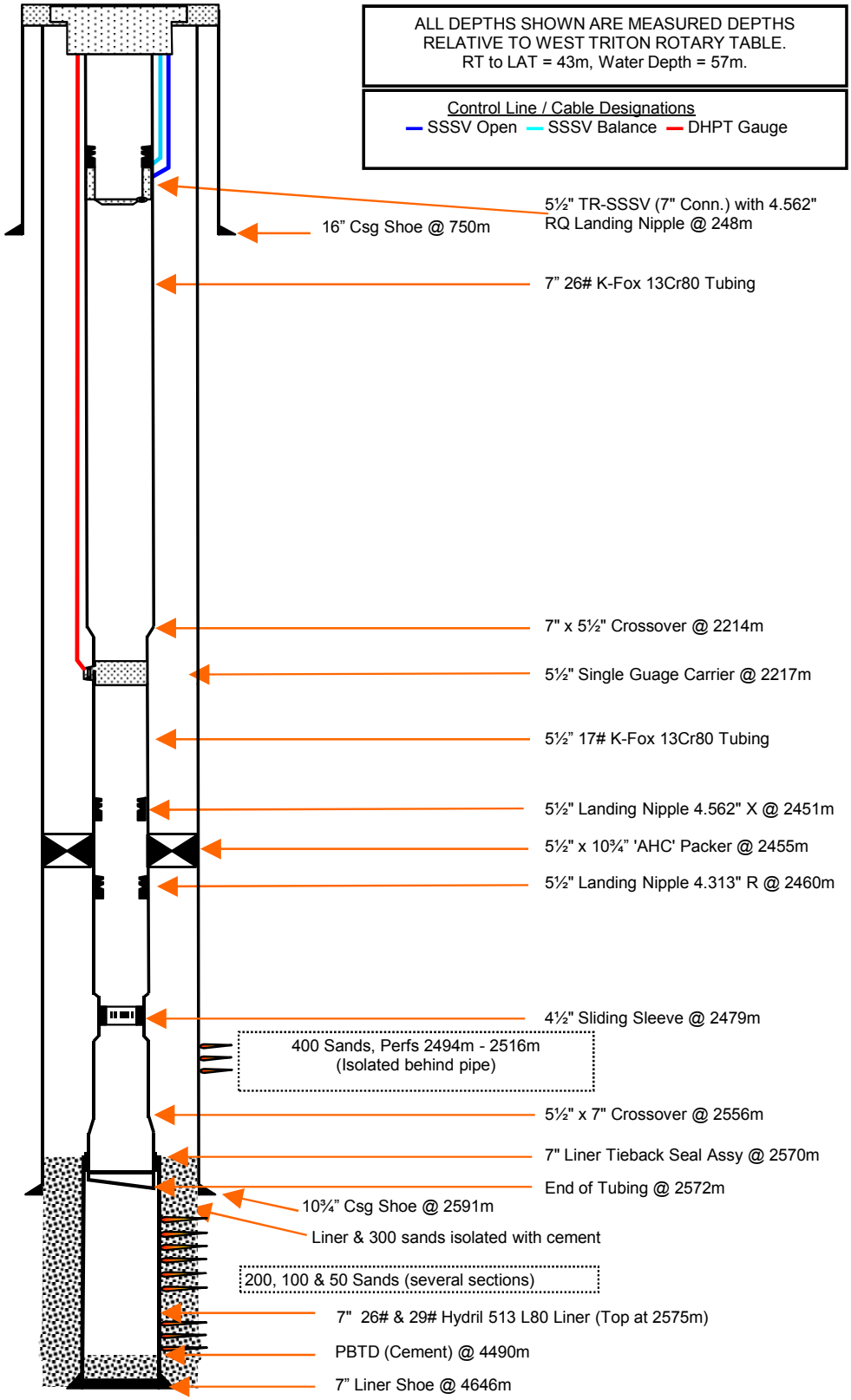
Casing & Liner Data :

Item	QTY	Comments	Material / Grade	Weight lb/ft	Top Connect.	Bottom Conn.	Min ID (Drift)	Max OD	Length	Top, MDRT (LAT)	Bottom, MDRT	Bottom, TVDRT	Bottom, ANGLE
1	1	30" Conductor on STC-10 Housing plus 2 jts of 1" wall pipe.	X52	310.0 lb/ft	Lynx	Lynx	28.000"	30.000"	33.70m	95.10m	128.80m	129m	1 deg
2.01	1	Cameron 18¾" STC-10 Wellhead above Land-off Point	-	-	-	Lynx SA2	18.750"	20.000"	6.10m	93.97m	100.07m	100m	0 deg
2.02	1	Crossover Lynx SA2 x Buttress	-	-	Lynx SA2	Buttress	14.936"	17.000"	2.78m	100.07m	102.85m		
2.03	45	16" Surface Casing, 75.0 lb/ft	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	537.33m	102.85m	640.18m		
2.04	8	16" Surface Casing, 75.0 lb/ft with Centralisers	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	96.95m	640.18m	737.13m		
2.05	1	16" Surface Casing, 75.0 lb/ft with 2 Centralisers & Float Shoe	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	12.94m	737.13m	**750.07m**	750m	1 deg
3.01	1	Production Casing Hanger (below land-off point)		-	-	Ten. Blue	9.694"	18.600"	5.22m	95.19m	100.41m	100m	0 deg
3.02	182	10¾" Production Casing, 55.5 lb/ft	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	2112.98m	100.41m	2213.39m		
3.03	1	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	11.62m	2213.39m	2225.01m		
3.04	1	Crossover, Tenaris Box x NSCC Pin	P110	55.5 lb/ft	Ten. Blue	NSCC	9.604"	11.772"	2.06m	2225.01m	2227.07m		
3.05	3	**10¾" Production Casing, 60.7 lb/ft with Centralisers**	Q125	60.7 lb/ft	NSCC	NSCC	9.504"	11.750"	36.06m	**2227.07m**	**2263.13m**	2098m	32 deg
3.06	1	Crossover, NSCC Box x Tenaris Pin	P110	55.5 lb/ft	NSCC	Ten. Blue	9.604"	11.772"	2.07m	2263.13m	2265.20m		
3.07	15	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	174.23m	2265.20m	2439.43m		
3.08	-	Radioactive Pip Tag	-	-	Ten. Blue	Ten. Blue	-	-	0.00m	**2439.43m**	2439.43m	2242m	40 deg
3.09	11	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	127.34m	2439.43m	2566.77m		
3.10	1	10¾" Float Collar, 55.5 lb/ft	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	0.36m	**2566.77m**	2567.13m	2331m	51 deg
3.11	2	10¾" Production Casing, 55.5 lb/ft (Shoe Track)	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	23.65m	2567.13m	**2590.78m**	2346m	53 deg
4.01	1	**Liner Setting Sleeve, 7⅝" Baker "HRD"**	L80	-	-	Hydril 511	6.760"	8.250"	2.43m	2570.56m	2572.99m	2335m	52 deg
4.02	1	Liner Crossover Sub, 7⅝" Hydril 511 box x 7" Hydril 513 26# pin	L80	26.0 lb/ft	Hydril 511	Hydril 513	6.093"	7.625"	0.22m	2572.99m	2573.21m		
4.03	120	Liner 7" Range 3 (Plain)	L80	26.0 lb/ft	Hydril 513	Hydril 513	6.151"	7.000"	1386.58m	2573.21m	3959.79m		
4.04	1	Liner Crossover Sub, 7" Hydril 513 26# box x 7" Hydril 513 29# pin	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	0.57m	3959.79m	3960.36m	2639m	89 deg
4.05	54	Liner 7" Range 3 (Plain)	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	605.77m	3960.36m	4566.13m		
4.06	1	Liner Crossover Sub, 7" Hydril 513 29# box x 7" Hydril 513 26# pin	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	0.53m	4566.13m	4566.66m	2687m	85 deg
4.07	7	Liner 7" Range 3 - Landing Collar & Shoe Track Joints	L80	26.0 lb/ft	Hydril 513	Hydril 513	6.151"	7.000"	80.44m	4566.66m	4647.10m		
4.08	1	Liner - Weatherford Reamer Shoe Joint	L80	26.0 lb/ft	Hydril 513	-	-	8.250"	0.90m	4647.10m	**4648.00m**	2696m	80 deg

Other Comments :

1	Water Depth = 55.97m, RT Elevation = 41.06m, therefore seabed is 97.03m below RT.
2	All depths are referenced to LAT
3	Completion fluid = Filtered & Inhibited 11.0 ppg CaCl2 Brine, with biocide added.
4	Calculated String Weight in 11.0 ppg brine = 173,000 lbs excluding 7" Riser or 181,000 lbs including 7" Riser (no allowance made for friction).
5	Minimum Restriction through completion = 3.813" at Landing Nipple, 5½" Halliburton R 4.313" Bore, 811R43102-F
6	Subsea Equipment Depths, MDRT : Top of ITC at 91.92m, Top of Subsea Tree at 91.96m, TH Landing Shoulder at 93.41m, Top of TH (Unlocked) at 92.80m, Top of 18¾" Wellhead at 93.97m.
7	The 4.313" R Nipple at 2460m is believed to be damaged - the plug moved downhole from this nipple while setting packers, but there was no apparent damage to the plug when it was recovered.
8	The initial inflow test on the TR-SSSV (immediately after flowing the well) was perfect, but a subsequent test leaked at a rate of 97 psi/hr, approximately 75% of max allowable (equates to ~680 scf/hr).
9	Baker ProductionQuest Single Gauge installed in Mandrel at 2217m MDRT is Serial Number 05-20-1273, Calibration Number 166084.
10	Total of 2 x 5½" Tubetec Cross-coupling protectors plus 168 x 7" Tubetec Cross-coupling protectors plus 2 x Tubetec Cable Protectors at TR-SSSV run with completion.

ACTUAL LONGTOM-4 RECOMPLETION, 7" x 5½" 13Cr80 Single Completion



Rig : West Triton Well # : Longtom-4 Recompletion Prepared by : Stuart Thomson	Recompletion Rev 0 - Actual Date Landed : 09-September-2008						244 203	# Tallied (excl Gfsh tbg) # RIH
				Rig Elevation:	93.41 m	Hgr & Pup	3.36 m	96.77 m
DESCRIPTION	**Joint**	**OD**	**ID**	**Length of Item**	**Depth as Run**	**Total Depth**	**Displ. bbls**	**Remarks**
End of Tubing				0.000	0.00	**2576.27**		
Tieback Seal Assembly, Baker 7⅝" 33.7# Vam FJL box		8.350	6.683	1.975	1.98	**2574.30**	0.16	**Top seal 1.040m up**
Crossover L80, Baker 7⅝" Buttress p x 7⅝" Vam FJL p	**Tieback**	8.230	6.700	0.192	2.17	2574.10	0.17	
Crossover L80, Baker 7" Fox box x 7⅝" Buttress box	**Assy**	8.560	6.250	0.450	2.62	2573.65	0.22	
Pup Joint, 7" Fox **29 ppf** bxp 13Cr80 3.0m long		7.657	6.276	3.051	5.67	2570.60	0.41	
Tubing, 7" Fox 26 ppf, 13Cr80	179	7.000	6.184	11.938	17.61	2558.66	0.79	
Pup Joint, 7" Fox 26 ppf bxp 13Cr80 1.8m long		7.657	6.276	1.820	19.43	2556.84	0.90	**Remove 7" coupling**
X-over 7" 26 ppf Fox box x 5½" 17 ppf Fox pin L80	**Assy**	7.676	4.888	0.490	19.92	2556.35	0.96	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long	**LT3-4B**	6.050	4.892	1.519	21.44	2554.84	1.02	**Add 5½" coupling**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-30	5.500	4.892	12.081	33.52	2542.75	1.27	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-33	5.500	4.892	12.075	45.59	**2530.68**	1.51	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-32	5.500	4.892	12.083	57.67	2518.60	1.76	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-31	5.500	4.892	12.079	69.75	2506.52	2.00	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-34	5.500	4.892	12.077	81.83	2494.44	2.25	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-29	5.500	4.892	12.268	94.10	2482.17	2.50	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		6.050	4.892	1.520	95.62	2480.65	2.56	
X-over, 4½" 11.6 ppf Vam Top pin x 5½" 17 ppf Fox pin L80		5.520	4.000	0.315	95.93	2480.34	2.57	
Coupling, 4½" Vam Top 12.6 ppf 13Cr80		4.966	3.913	0.189	96.12	2480.15	2.58	
Sliding Sleeve, 4½" Durasleeve w/ 3.813" X Nipple	**Assy**	5.600	3.813	1.290	97.41	2478.86	2.65	**Run in closed posn**
Pup Joint, 4½" 12.6 ppf Vam Top bxp 13Cr80m 3.0m long	**LT4-3B**	4.966	3.958	3.000	100.41	2475.86	2.73	
X-over, 5½" 17 ppf Fox pin x 4½" 11.6 ppf Vam Top pin L80		5.530	4.000	0.313	100.73	2475.55	2.75	
Coupling, 5½" Fox 17 ppf 13Cr80		6.050	4.946	0.251	100.98	2475.29	2.76	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		6.050	4.892	1.518	102.49	2473.78	2.82	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-38	5.500	4.892	12.080	114.57	2461.70	3.06	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		5.500	4.892	1.519	116.09	2460.18	3.09	
R' Nipple 4.312" X, 5½" Fox box x pin 13Cr80		6.065	4.313	0.411	116.50	2459.77	3.12	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 3.0m long	**Assy**	5.500	4.892	2.910	119.41	2456.86	3.18	
Packer, 10¾" AHC 55.5# - 60.7# 13Cr80	**LT4-4B**	9.375	4.858	2.338	121.75	2454.52	3.66	**7 shear pins**
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		5.500	4.892	1.517	123.27	2453.00	3.69	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		5.500	4.892	1.652	124.92	2451.35	3.72	
Landing Nipple 4.562" X - 5½" Fox pin x pin 13Cr80	**Assy**	6.050	4.946	0.578	125.50	2450.77	3.74	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long	**LT4-11B**	5.500	4.892	1.529	127.03	2449.24	3.77	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-37	5.500	4.892	12.078	139.11	2437.16	4.02	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-35	5.500	4.892	12.078	151.18	2425.09	4.26	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-36	5.500	4.892	12.079	163.26	2413.01	4.51	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-1	5.500	4.892	12.075	175.34	2400.93	4.75	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-3	5.500	4.892	12.078	187.42	2388.85	5.00	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-7	5.500	4.892	11.981	199.40	2376.87	5.24	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-5	5.500	4.892	12.078	211.48	2364.80	5.49	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-2	5.500	4.892	12.080	223.56	2352.72	5.73	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-4	5.500	4.892	11.949	235.50	2340.77	5.98	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-11	5.500	4.892	11.982	247.49	2328.78	6.22	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-6	5.500	4.892	12.078	259.56	2316.71	6.46	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-8	5.500	4.892	12.080	271.64	2304.63	6.71	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-10	5.500	4.892	11.975	283.62	2292.65	6.95	
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-9	5.500	4.892	11.812	295.43	2280.84	7.19	**Not run previously**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-12	5.500	4.892	12.076	307.51	2268.76	7.44	**Not run previously**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-14	5.500	4.892	11.879	319.39	2256.88	7.68	**Not run previously**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-13	5.500	4.892	11.975	331.36	2244.91	7.92	**Not run previously**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-15	5.500	4.892	12.078	343.44	2232.83	8.17	**Not run previously**
Tubing, 5½" Fox 17 ppf, 13Cr80	5½"-16	5.500	4.892	12.078	355.52	2220.75	8.41	**Not run previously**
X-over pup- 5½" Vam Top B x Fox-K P 13 Cr-80		5.500	4.892	1.617	357.13	2219.14	8.44	
Gauge Mandrel- 'QuantX'- 5½" Vam Top box x pin 13Cr80	**Assy**	7.230	4.872	1.720	358.85	2217.42	8.60	
X-over pup, 5½" Fox box x Vam Top pin 13Cr80	**LT3-9B**	5.500	4.892	1.543	360.40	2215.87	8.63	
Pup Joint, 5½" Fox bxp 17 ppf 13Cr80 1.5m long		5.500	4.892	1.518	361.92	2214.36	8.66	
X-over 7" 26 ppf Fox box x 5½" 17 ppf Fox pin 13Cr80	**Assy**	7.676	4.888	0.495	362.41	2213.86	8.72	
Pup Joint, 7" Fox 26 ppf bxp 13Cr80 2.0m long	**LT4-8A**	7.000	6.184	1.974	364.38	2211.89	8.78	
Tubing, 7" Fox 26 ppf, 13Cr80	2	7.000	6.184	12.580	376.96	2199.31	9.19	
Tubing, 7" Fox 26 ppf, 13Cr80	3	7.000	6.184	12.586	389.55	2186.72	9.59	
Tubing, 7" Fox 26 ppf, 13Cr80	1	7.000	6.184	12.582	402.13	2174.14	10.00	
Tubing, 7" Fox 26 ppf, 13Cr80	9	7.000	6.184	12.119	414.25	2162.02	10.39	
Tubing, 7" Fox 26 ppf, 13Cr80	4	7.000	6.184	12.586	426.84	2149.43	10.79	
Tubing, 7" Fox 26 ppf, 13Cr80	8	7.000	6.184	12.582	439.42	2136.85	11.20	
Tubing, 7" Fox 26 ppf, 13Cr80	5	7.000	6.184	12.587	452.01	2124.26	11.60	
Tubing, 7" Fox 26 ppf, 13Cr80	6	7.000	6.184	12.582	464.59	2111.68	12.01	

DESCRIPTION	Joint	OD	ID	Length of Item	Depth as Run	Total Depth	Displ. bbls	Remarks
Tubing, 7" Fox 26 ppf, 13Cr80	15	7.000	6.184	12.577	477.17	2099.11	12.41	
Tubing, 7" Fox 26 ppf, 13Cr80	11	7.000	6.184	12.579	489.74	2086.53	12.82	
Tubing, 7" Fox 26 ppf, 13Cr80	14	7.000	6.184	12.579	502.32	2073.95	13.22	
Tubing, 7" Fox 26 ppf, 13Cr80	12	7.000	6.184	12.577	514.90	2061.37	13.63	
Tubing, 7" Fox 26 ppf, 13Cr80	13	7.000	6.184	12.042	526.94	2049.33	14.02	
Tubing, 7" Fox 26 ppf, 13Cr80	19	7.000	6.184	12.575	539.52	2036.75	14.42	
Tubing, 7" Fox 26 ppf, 13Cr80	16	7.000	6.184	12.586	552.10	2024.17	14.83	
Tubing, 7" Fox 26 ppf, 13Cr80	18	7.000	6.184	12.575	564.68	2011.59	15.23	
Tubing, 7" Fox 26 ppf, 13Cr80	17	7.000	6.184	12.585	577.26	1999.01	15.64	
Tubing, 7" Fox 26 ppf, 13Cr80	23	7.000	6.184	12.264	589.53	1986.74	16.03	
Tubing, 7" Fox 26 ppf, 13Cr80	24	7.000	6.184	12.253	601.78	1974.49	16.43	
Tubing, 7" Fox 26 ppf, 13Cr80	21	7.000	6.184	12.582	614.36	1961.91	16.83	
Tubing, 7" Fox 26 ppf, 13Cr80	25	7.000	6.184	12.472	626.83	1949.44	17.23	
Tubing, 7" Fox 26 ppf, 13Cr80	20	7.000	6.184	12.575	639.41	1936.86	17.64	
Tubing, 7" Fox 26 ppf, 13Cr80	28	7.000	6.184	12.457	651.87	1924.40	18.04	
Tubing, 7" Fox 26 ppf, 13Cr80	29	7.000	6.184	12.334	664.20	1912.07	18.44	
Tubing, 7" Fox 26 ppf, 13Cr80	27	7.000	6.184	12.461	676.66	1899.61	18.84	
Tubing, 7" Fox 26 ppf, 13Cr80	30	7.000	6.184	12.465	689.13	1887.14	19.24	
Tubing, 7" Fox 26 ppf, 13Cr80	26	7.000	6.184	12.298	701.42	1874.85	19.63	
Tubing, 7" Fox 26 ppf, 13Cr80	34	7.000	6.184	12.582	714.01	1862.26	20.04	
Tubing, 7" Fox 26 ppf, 13Cr80	33	7.000	6.184	12.585	726.59	1849.68	20.44	
Tubing, 7" Fox 26 ppf, 13Cr80	32	7.000	6.184	12.583	739.17	1837.10	20.85	
Tubing, 7" Fox 26 ppf, 13Cr80	35	7.000	6.184	12.583	751.76	1824.51	21.26	
Tubing, 7" Fox 26 ppf, 13Cr80	31	7.000	6.184	12.585	764.34	1811.93	21.66	
Tubing, 7" Fox 26 ppf, 13Cr80	38	7.000	6.184	12.582	776.92	1799.35	22.07	
Tubing, 7" Fox 26 ppf, 13Cr80	39	7.000	6.184	12.586	789.51	1786.76	22.47	
Tubing, 7" Fox 26 ppf, 13Cr80	37	7.000	6.184	12.579	802.09	1774.18	22.88	
Tubing, 7" Fox 26 ppf, 13Cr80	40	7.000	6.184	12.586	814.68	1761.60	23.28	
Tubing, 7" Fox 26 ppf, 13Cr80	36	7.000	6.184	12.583	827.26	1749.01	23.69	
Tubing, 7" Fox 26 ppf, 13Cr80	44	7.000	6.184	12.579	839.84	1736.43	24.09	
Tubing, 7" Fox 26 ppf, 13Cr80	46	7.000	6.184	12.579	852.42	1723.85	24.50	
Tubing, 7" Fox 26 ppf, 13Cr80	45	7.000	6.184	12.587	865.00	1711.27	24.90	
Tubing, 7" Fox 26 ppf, 13Cr80	41	7.000	6.184	12.582	877.59	1698.69	25.31	
Tubing, 7" Fox 26 ppf, 13Cr80	42	7.000	6.184	12.586	890.17	1686.10	25.71	
Tubing, 7" Fox 26 ppf, 13Cr80	50	7.000	6.184	12.584	902.76	1673.52	26.12	
Tubing, 7" Fox 26 ppf, 13Cr80	51	7.000	6.184	12.575	915.33	1660.94	26.52	
Tubing, 7" Fox 26 ppf, 13Cr80	49	7.000	6.184	12.577	927.91	1648.36	26.93	
Tubing, 7" Fox 26 ppf, 13Cr80	47	7.000	6.184	12.584	940.49	1635.78	27.33	
Tubing, 7" Fox 26 ppf, 13Cr80	48	7.000	6.184	12.579	953.07	1623.20	27.74	
Tubing, 7" Fox 26 ppf, 13Cr80	54	7.000	6.184	12.582	965.65	1610.62	28.14	
Tubing, 7" Fox 26 ppf, 13Cr80	199	7.000	6.184	12.579	978.23	1598.04	28.55	
Tubing, 7" Fox 26 ppf, 13Cr80	53	7.000	6.184	12.582	990.81	1585.46	28.95	
Tubing, 7" Fox 26 ppf, 13Cr80	52	7.000	6.184	12.583	1003.40	1572.87	29.36	
Tubing, 7" Fox 26 ppf, 13Cr80	206	7.000	6.184	12.457	1015.85	1560.42	29.76	
Tubing, 7" Fox 26 ppf, 13Cr80	200	7.000	6.184	12.581	1028.43	1547.84	30.16	
Tubing, 7" Fox 26 ppf, 13Cr80	201	7.000	6.184	12.583	1041.02	1535.25	30.57	
Tubing, 7" Fox 26 ppf, 13Cr80	205	7.000	6.184	12.507	1078.61	1497.66	31.78	
Tubing, 7" Fox 26 ppf, 13Cr80	204	7.000	6.184	12.503	1066.10	1510.17	31.38	
Tubing, 7" Fox 26 ppf, 13Cr80	203	7.000	6.184	12.584	1053.60	1522.67	30.97	
Tubing, 7" Fox 26 ppf, 13Cr80	73	7.000	6.184	12.583	1091.19	1485.08	32.18	
Tubing, 7" Fox 26 ppf, 13Cr80	74	7.000	6.184	12.582	1103.78	1472.49	32.59	
Tubing, 7" Fox 26 ppf, 13Cr80	75	7.000	6.184	12.582	1116.36	1459.91	33.00	
Tubing, 7" Fox 26 ppf, 13Cr80	76	7.000	6.184	12.580	1128.94	1447.33	33.40	
Tubing, 7" Fox 26 ppf, 13Cr80	77	7.000	6.184	12.580	1141.52	1434.75	33.81	
Tubing, 7" Fox 26 ppf, 13Cr80	78	7.000	6.184	12.583	1154.10	1422.17	34.21	
Tubing, 7" Fox 26 ppf, 13Cr80	79	7.000	6.184	12.584	1166.69	1409.59	34.62	
Tubing, 7" Fox 26 ppf, 13Cr80	80	7.000	6.184	12.578	1179.26	1397.01	35.02	
Tubing, 7" Fox 26 ppf, 13Cr80	81	7.000	6.184	12.577	1191.84	1384.43	35.43	
Tubing, 7" Fox 26 ppf, 13Cr80	109	7.000	6.184	12.451	1204.29	1371.98	35.83	
Tubing, 7" Fox 26 ppf, 13Cr80	110	7.000	6.184	12.322	1216.61	1359.66	36.22	
Tubing, 7" Fox 26 ppf, 13Cr80	111	7.000	6.184	12.452	1229.07	1347.21	36.62	
Tubing, 7" Fox 26 ppf, 13Cr80	112	7.000	6.184	12.467	1241.53	1334.74	37.03	
Tubing, 7" Fox 26 ppf, 13Cr80	113	7.000	6.184	12.332	1253.86	1322.41	37.42	
Tubing, 7" Fox 26 ppf, 13Cr80	114	7.000	6.184	12.172	1266.04	1310.23	37.81	
Tubing, 7" Fox 26 ppf, 13Cr80	115	7.000	6.184	12.080	1278.12	1298.15	38.20	
Tubing, 7" Fox 26 ppf, 13Cr80	117	7.000	6.184	12.573	1290.69	1285.58	38.61	
Tubing, 7" Fox 26 ppf, 13Cr80	163	7.000	6.184	12.576	1303.27	1273.01	39.01	
Tubing, 7" Fox 26 ppf, 13Cr80	166	7.000	6.184	12.576	1315.84	1260.43	39.42	

DESCRIPTION	Joint	OD	ID	Length of Item	Depth as Run	Total Depth	Displ. bbls	Remarks
Tubing, 7" Fox 26 ppf, 13Cr80	164	7.000	6.184	12.578	1328.42	1247.85	39.82	
Tubing, 7" Fox 26 ppf, 13Cr80	165	7.000	6.184	12.573	1340.99	1235.28	40.23	
Tubing, 7" Fox 26 ppf, 13Cr80	167	7.000	6.184	12.576	1353.57	1222.70	40.63	
Tubing, 7" Fox 26 ppf, 13Cr80	168	7.000	6.184	12.581	1366.15	1210.12	41.04	
Tubing, 7" Fox 26 ppf, 13Cr80	169	7.000	6.184	12.578	1378.73	1197.54	41.44	
Tubing, 7" Fox 26 ppf, 13Cr80	170	7.000	6.184	12.579	1391.31	1184.96	41.85	
Tubing, 7" Fox 26 ppf, 13Cr80	171	7.000	6.184	12.576	1403.88	1172.39	42.25	
Tubing, 7" Fox 26 ppf, 13Cr80	118	7.000	6.184	12.577	1416.46	1159.81	42.66	
Tubing, 7" Fox 26 ppf, 13Cr80	119	7.000	6.184	12.577	1429.04	1147.23	43.06	
Tubing, 7" Fox 26 ppf, 13Cr80	120	7.000	6.184	12.578	1441.61	1134.66	43.47	
Tubing, 7" Fox 26 ppf, 13Cr80	122	7.000	6.184	12.577	1454.19	1122.08	43.87	
Tubing, 7" Fox 26 ppf, 13Cr80	123	7.000	6.184	12.576	1466.77	1109.50	44.28	
Tubing, 7" Fox 26 ppf, 13Cr80	124	7.000	6.184	12.579	1479.35	1096.92	44.68	
Tubing, 7" Fox 26 ppf, 13Cr80	125	7.000	6.184	12.576	1491.92	1084.35	45.09	
Tubing, 7" Fox 26 ppf, 13Cr80	126	7.000	6.184	12.580	1504.50	1071.77	45.49	
Tubing, 7" Fox 26 ppf, 13Cr80	82	7.000	6.184	12.582	1517.08	1059.19	45.90	
Tubing, 7" Fox 26 ppf, 13Cr80	83	7.000	6.184	12.582	1529.67	1046.60	46.30	
Tubing, 7" Fox 26 ppf, 13Cr80	84	7.000	6.184	12.583	1542.25	1034.02	46.71	
Tubing, 7" Fox 26 ppf, 13Cr80	85	7.000	6.184	12.580	1554.83	1021.44	47.11	
Tubing, 7" Fox 26 ppf, 13Cr80	86	7.000	6.184	12.579	1567.41	1008.86	47.52	
Tubing, 7" Fox 26 ppf, 13Cr80	87	7.000	6.184	12.581	1579.99	996.28	47.92	
Tubing, 7" Fox 26 ppf, 13Cr80	88	7.000	6.184	12.582	1592.57	983.70	48.33	
Tubing, 7" Fox 26 ppf, 13Cr80	89	7.000	6.184	12.582	1605.15	971.12	48.73	
Tubing, 7" Fox 26 ppf, 13Cr80	90	7.000	6.184	12.583	1617.74	958.53	49.14	
Tubing, 7" Fox 26 ppf, 13Cr80	154	7.000	6.184	12.582	1630.32	945.95	49.54	
Tubing, 7" Fox 26 ppf, 13Cr80	155	7.000	6.184	12.582	1642.90	933.37	49.95	
Tubing, 7" Fox 26 ppf, 13Cr80	156	7.000	6.184	12.582	1655.48	920.79	50.35	
Tubing, 7" Fox 26 ppf, 13Cr80	157	7.000	6.184	12.034	1667.52	908.75	50.74	
Tubing, 7" Fox 26 ppf, 13Cr80	158	7.000	6.184	12.580	1680.10	896.17	51.15	
Tubing, 7" Fox 26 ppf, 13Cr80	159	7.000	6.184	12.579	1692.68	883.59	51.55	
Tubing, 7" Fox 26 ppf, 13Cr80	160	7.000	6.184	12.582	1705.26	871.01	51.96	
Tubing, 7" Fox 26 ppf, 13Cr80	161	7.000	6.184	12.581	1717.84	858.43	52.36	
Tubing, 7" Fox 26 ppf, 13Cr80	162	7.000	6.184	12.581	1730.42	845.85	52.77	
Tubing, 7" Fox 26 ppf, 13Cr80	172	7.000	6.184	12.580	1743.00	833.27	53.17	
Tubing, 7" Fox 26 ppf, 13Cr80	173	7.000	6.184	12.581	1755.58	820.69	53.58	
Tubing, 7" Fox 26 ppf, 13Cr80	174	7.000	6.184	12.575	1768.16	808.11	53.98	
Tubing, 7" Fox 26 ppf, 13Cr80	175	7.000	6.184	12.130	1780.29	795.98	54.37	
Tubing, 7" Fox 26 ppf, 13Cr80	176	7.000	6.184	12.583	1792.87	783.40	54.78	
Tubing, 7" Fox 26 ppf, 13Cr80	178	7.000	6.184	12.573	1805.44	770.83	55.18	
Tubing, 7" Fox 26 ppf, 13Cr80	177	7.000	6.184	12.574	1818.02	758.25	55.59	
Tubing, 7" Fox 26 ppf, 13Cr80	180	7.000	6.184	12.035	1830.05	746.22	55.98	
Tubing, 7" Fox 26 ppf, 13Cr80	100	7.000	6.184	12.582	1842.63	733.64	56.38	
Tubing, 7" Fox 26 ppf, 13Cr80	101	7.000	6.184	12.579	1855.21	721.06	56.79	
Tubing, 7" Fox 26 ppf, 13Cr80	102	7.000	6.184	12.579	1867.79	708.48	57.19	
Tubing, 7" Fox 26 ppf, 13Cr80	103	7.000	6.184	12.580	1880.37	695.90	57.60	
Tubing, 7" Fox 26 ppf, 13Cr80	104	7.000	6.184	12.577	1892.95	683.32	58.00	
Tubing, 7" Fox 26 ppf, 13Cr80	105	7.000	6.184	12.573	1905.52	670.75	58.41	
Tubing, 7" Fox 26 ppf, 13Cr80	107	7.000	6.184	12.580	1918.10	658.17	58.81	
Tubing, 7" Fox 26 ppf, 13Cr80	108	7.000	6.184	12.580	1930.68	645.59	59.22	
Tubing, 7" Fox 26 ppf, 13Cr80	182	7.000	6.184	12.575	1943.26	633.01	59.62	
Tubing, 7" Fox 26 ppf, 13Cr80	183	7.000	6.184	12.572	1955.83	620.44	60.03	
Tubing, 7" Fox 26 ppf, 13Cr80	184	7.000	6.184	12.577	1968.40	607.87	60.43	
Tubing, 7" Fox 26 ppf, 13Cr80	185	7.000	6.184	12.575	1980.98	595.29	60.84	
Tubing, 7" Fox 26 ppf, 13Cr80	186	7.000	6.184	12.578	1993.56	582.71	61.24	
Tubing, 7" Fox 26 ppf, 13Cr80	187	7.000	6.184	12.574	2006.13	570.14	61.65	
Tubing, 7" Fox 26 ppf, 13Cr80	188	7.000	6.184	12.578	2018.71	557.56	62.05	
Tubing, 7" Fox 26 ppf, 13Cr80	189	7.000	6.184	12.577	2031.29	544.98	62.46	
Tubing, 7" Fox 26 ppf, 13Cr80	55	7.000	6.184	12.580	2043.87	532.40	62.86	
Tubing, 7" Fox 26 ppf, 13Cr80	56	7.000	6.184	12.574	2056.44	519.83	63.27	
Tubing, 7" Fox 26 ppf, 13Cr80	57	7.000	6.184	12.578	2069.02	507.25	63.67	
Tubing, 7" Fox 26 ppf, 13Cr80	58	7.000	6.184	12.579	2081.60	494.67	64.08	
Tubing, 7" Fox 26 ppf, 13Cr80	59	7.000	6.184	12.574	2094.17	482.10	64.48	
Tubing, 7" Fox 26 ppf, 13Cr80	60	7.000	6.184	12.578	2106.75	469.52	64.89	
Tubing, 7" Fox 26 ppf, 13Cr80	61	7.000	6.184	12.572	2119.32	456.95	65.29	
Tubing, 7" Fox 26 ppf, 13Cr80	62	7.000	6.184	12.581	2131.90	444.37	65.70	
Tubing, 7" Fox 26 ppf, 13Cr80	63	7.000	6.184	12.580	2144.48	431.79	66.10	
Tubing, 7" Fox 26 ppf, 13Cr80	91	7.000	6.184	12.572	2157.05	419.22	66.51	
Tubing, 7" Fox 26 ppf, 13Cr80	93	7.000	6.184	12.576	2169.63	406.64	66.91	

DESCRIPTION	Joint	OD	ID	Length of Item	Depth as Run	Total Depth	Displ. bbls	Remarks
Tubing, 7" Fox 26 ppf, 13Cr80	95	7.000	6.184	12.578	2182.21	394.06	67.32	
Tubing, 7" Fox 26 ppf, 13Cr80	96	7.000	6.184	12.582	2194.79	381.48	67.72	
Tubing, 7" Fox 26 ppf, 13Cr80	97	7.000	6.184	12.579	2207.37	368.90	68.13	
Tubing, 7" Fox 26 ppf, 13Cr80	98	7.000	6.184	12.577	2219.95	356.32	68.53	
Tubing, 7" Fox 26 ppf, 13Cr80	99	7.000	6.184	12.576	2232.52	343.75	68.94	
Tubing, 7" Fox 26 ppf, 13Cr80	127	7.000	6.184	12.578	2245.10	331.17	69.34	
Tubing, 7" Fox 26 ppf, 13Cr80	128	7.000	6.184	12.578	2257.68	318.59	69.75	
Tubing, 7" Fox 26 ppf, 13Cr80	129	7.000	6.184	12.579	2270.26	306.01	70.15	
Tubing, 7" Fox 26 ppf, 13Cr80	131	7.000	6.184	12.578	2282.84	293.43	70.56	
Tubing, 7" Fox 26 ppf, 13Cr80	132	7.000	6.184	12.577	2295.41	280.86	70.96	
Tubing, 7" Fox 26 ppf, 13Cr80	133	7.000	6.184	12.577	2307.99	268.28	71.37	
Tubing, 7" Fox 26 ppf, 13Cr80	135	7.000	6.184	12.577	2320.57	255.70	71.77	
Pup Joint, 7" Fox **29 ppf** bxp 13Cr80 2.0m long	**Assy LT4-9B**	7.676	6.184	2.045	2322.61	253.66	71.91	**Note btm connection**
Flow Coupling, 7" 26 ppf- Fox box x pin 13Cr80		7.676	6.180	2.925	2325.54	250.73	72.10	
TRSSV, SP, 7" 26 ppf Fox box x pin 13Cr80		8.140	4.562	3.066	2328.60	247.67	72.54	**With lock-out prong**
Flow Coupling, 7" 26 ppf Fox box x pin 13Cr80		7.676	6.180	2.925	2331.53	244.74	72.74	
Pup Joint, 7" Fox **29 ppf** bxp 13Cr80 2.0m long		7.676	6.184	2.049	2333.58	242.69	72.87	**Note top connection**
Tubing, 7" Fox 26 ppf, 13Cr80	145	7.000	6.184	12.578	2346.15	230.12	73.28	
Tubing, 7" Fox 26 ppf, 13Cr80	146	7.000	6.184	12.578	2358.73	217.54	73.68	
Tubing, 7" Fox 26 ppf, 13Cr80	147	7.000	6.184	12.578	2371.31	204.96	74.09	
Tubing, 7" Fox 26 ppf, 13Cr80	148	7.000	6.184	12.578	2383.89	192.38	74.49	
Tubing, 7" Fox 26 ppf, 13Cr80	149	7.000	6.184	12.577	2396.47	179.80	74.90	
Tubing, 7" Fox 26 ppf, 13Cr80	150	7.000	6.184	12.582	2409.05	167.22	75.30	
Tubing, 7" Fox 26 ppf, 13Cr80	151	7.000	6.184	12.577	2421.62	154.65	75.71	
Tubing, 7" Fox 26 ppf, 13Cr80	152	7.000	6.184	12.577	2434.20	142.07	76.11	
Tubing, 7" Fox 26 ppf, 13Cr80	153	7.000	6.184	12.580	2446.78	129.49	76.52	
Tubing, 7" Fox 26 ppf, 13Cr80	190	7.000	6.184	12.578	2459.36	116.91	76.92	
Tubing, 7" Fox 26 ppf, 13Cr80	191	7.000	6.184	12.577	2471.94	104.33	77.33	
Space-out Pup Joints, 7" Fox 26 ppf bxp 13Cr80		7.000	6.184	1.499	2473.44	102.83	77.37	
Space-out Pup Joints, 7" Fox 26 ppf bxp 13Cr80		7.000	6.184	2.965	2476.40	99.87	77.47	
Space-out Pup Joints, 7" Fox 26 ppf bxp 13Cr80		7.000	6.184	3.093	2479.49	96.78	77.57	
Pup Joint, 7" Fox 26 ppf bxp 13Cr80 1.8m long	**Assy LT4-10B**	7.000	6.184	1.834	2481.33	94.94	77.63	
Pup Joint, 7" Fox 26 ppf pxp 13Cr80 1.0m long		7.657	6.184	0.943	2482.27	94.00	77.69	
Tubing Hanger 18¾", 7" Fox 26 ppf box (below hang-off)		17.760	4.795	0.585	2482.86	93.41	78.24	**Top 0.65m above hang-off**
Mechanical THRT & TH (above TH hang-off)	**MTHRT Assy**	17.760	4.795	1.517	2484.37	91.90	79.65	
Crossover, 7" 26.0 lb/ft Fox b x 9⅝" 61.1 lb/ft New Vam b		10.650	6.184	0.520	2484.89	91.38	79.77	
Pup Joint, 7" Fox 26 ppf bxp 13Cr80 1.8m long		7.000	6.184	1.782	2486.67	89.60	79.83	
Tubing, 7" Fox 26 ppf, 13Cr80	192	7.000	6.184	12.579	2499.25	77.02	80.24	
Tubing, 7" Fox 26 ppf, 13Cr80	193	7.000	6.184	12.580	2511.83	64.44	80.64	
Tubing, 7" Fox 26 ppf, 13Cr80	194	7.000	6.184	12.578	2524.41	51.86	81.05	
Tubing, 7" Fox 26 ppf, 13Cr80	195	7.000	6.184	12.575	2536.99	39.28	81.45	
Tubing, 7" Fox 26 ppf, 13Cr80	196	7.000	6.184	12.577	2549.56	26.71	81.86	
Tubing, 7" Fox 26 ppf, 13Cr80	197	7.000	6.184	12.576	2562.14	14.13	82.26	
Tubing, 7" Fox 26 ppf, 13Cr80	198	7.000	6.184	12.575	2574.71	1.56	82.67	
Pup Joint, 7" Fox 26 ppf 13Cr80 1.7m long	Pup 1	7.000	6.184	1.691	2576.41	-0.14	82.72	
Pup Joint, 7" Fox 26 ppf 13Cr80 1.2m long	Pup 2	7.000	6.184	1.234	2577.64	-1.37	82.76	

1.4m Stickup

Date	Start	End	Dur. (Hrs)	Depth (m)	Activity	Cls	Phs	Ops	RC	Hrs. in Day (%)	Day Cost	Cost Impact
Longtom-4												
20-Jun-08	630	730	1	0	Continued skidding cantilever deck out to 52ft to allow for removal of generator.	TP	P1	M2	RE	$^{1.00}/_{24.00}$=4.17%	615,700.00	25,654.17
20-Jun-08	730	900	1.5	0	Removed generator through hatch.	TP	P1	M2	RE	$^{1.50}/_{24.00}$=6.25%	615,700.00	38,481.25
20-Jun-08	900	1000	1	0	Skidded rig back into drilling position.	TP	P1	M2	RE	$^{1.00}/_{24.00}$=4.17%	615,700.00	25,654.17
20-Jun-08	1530	1730	2	0	Encountered problems with link tilt clamps slipping and rotating head not working properly during the activities listed directly above (13h00 to 15h30).	TP	P1	G4	RE	$^{2.00}/_{24.00}$=8.33%	615,700.00	51,308.33
20-Jun-08	1730	1800	0.5	0	Conducted Cyber chair computer update patch.	TP	P1	G11	RE	$^{0.50}/_{24.00}$=2.08%	615,700.00	12,827.08
22-Jun-08	500	930	4.5	132.8	Made up TDS, performed shallow MWD test and attempted to stab into 30in wellhead at seabed, moving pipe to various positions. ROV was unable to be deployed due to adverse weather. **WOW NPT Due To Subsea Well Design**	TP	P4	G8	WOW	$^{4.50}/_{24.00}$=18.75%	637,300.00	119,493.75
22-Jun-08	930	1030	1	132.8	Launched small ROV to observe stabbing of bit into 30in wellhead. Unable to assist due to adverse weather. Retrieved same. **WOW NPT Due To Subsea Well Design**	TP	P4	G8	WOW	$^{1.00}/_{24.00}$=4.17%	637,300.00	26,554.17
22-Jun-08	1030	1100	0.5	132.8	Launched big ROV - failure of soft start on hydraulic system. Retrieved same. **WOW NPT Due To Subsea Well Design**	TP	P4	G8	WOW	$^{0.50}/_{24.00}$=2.08%	637,300.00	13,277.08
22-Jun-08	1100	1330	2.5	132.8	Launched small ROV and adapted the feed method of the umbilical to reduce the environmental effects. Stabbed into wellhead using visuals from small ROV. **WOW NPT Due To Subsea Well Design**	TP	P4	G8	WOW	$^{2.50}/_{24.00}$=10.42%	637,300.00	66,385.42
23-Jun-08	100	300	2	755	Working tight hole, up to 30k overpull	TP	P4	G8	TP			
23-Jun-08	400	500	1	755	Repaired hydraulic hose on TDS link-tilt.	TP	P5	G8	TP			
24-Jun-08	400	500	1	755	Repaired hydraulic hose on TDS link-tilt.	TP	P4	G11	RE	$^{1.00}/_{24.00}$=4.17%	656,100.00	27,337.50
24-Jun-08	1500	1900	4	755	Attempted to sting 16in shoe into 30in well head. Poor visibility due to cuttings / silt obstructing ROVs vision of well head. Circulated and attempted to work casing into well head. Laid out a single of casing, rigged up circulating swedge and jetted well head area.	TP	P5	G9	TP	$^{4.00}/_{24.00}$=16.67%	656,100.00	109,350.00
24-Jun-08	1900	2030	1.5	755	ROV lost communication and was pushed by current into port leg. Regained communications to ROV and freed ROV from port leg while continuing to jet well head area.	TP	P5	G9	TP	$^{1.50}/_{24.00}$=6.25%	656,100.00	41,006.25
24-Jun-08	2030	2200	1.5	755	Continued attempts to stab into wellhead. Observed stab in with 16in casing into 30in conductor.	TP	P5	G9	TP	$^{1.50}/_{24.00}$=6.25%	656,100.00	41,006.25
24-Jun-08	2300	2400	1	755	Observed retaining plates on solid body elevators badly bent. Removed plates to straighten same.	TP	P5	G11	RE	$^{1.00}/_{24.00}$=4.17%	656,100.00	27,337.50
25-Jun-08	0	300	3	755	Straightened bent retaining plates and reinstated same. Re-adjusted link-tilt clamps.	TP	P5	G11	RE	$^{3.00}/_{24.00}$=12.50%	1,581,200.00	197,650.00
25-Jun-08	1230	1400	1.5	755	Downtime - Slow operation running inner string - Iron Roughneck not operational.	TP	P5	G8	RE	$^{1.50}/_{24.00}$=6.25%	1,581,200.00	98,825.00
26-Jun-08	830	2400	15.5	755	Waited on weather. 09.00 Wind 44 knts Gusts 50 knts Sea 4 - 5m. 12.00 Wind 45 knts Gusts 55 knts Sea 5m 15.00 Wind 39 knts Gusts 48 knts Sea 5m 18.00 Wind 43 knts Gusts 53 knts Sea 4 - 5m 21.00 Wind 40 knts Gusts 50 knts Sea 5m 24.00 Wind 36 knts Gusts 43 knts Sea 3 - 4m Currents too strong to enable ROV to operate and for work boats to launch FRC.	TP	P6	G25	WOW	$^{15.50}/_{24.00}$=64.58%	1,983,000.00	1,280,687.50
27-Jun-08	0	600	6	755	Waited on Weather. 03.00 Wind 30 knts Gusts 38 knts Sea 3 - 4m 06.00 Wind 26 knts Gusts 30 knts Sea 3 - 4m Currents too strong to enable ROV to operate untill 04.00 hrs. Work boats unable launch FRC due to sea state. Cranes unable to offload boats due to sea states.	TP	P6	G13	WOW	$^{6.00}/_{24.00}$=25.00%	656,600.00	164,150.00
27-Jun-08	600	630	0.5	755	Deck cranes operational but no stand-by cover. Picked up and made up next joint of 22in HP riser to string.	TP	P6	G13	WOW	$^{0.50}/_{24.00}$=2.08%	656,600.00	13,679.17
27-Jun-08	630	700	0.5	755	Waited on weather to subside for boat to provide close stand-by cover. Wind 26 knts, Gusts 30 knts, Sea 3m.	TP	P6	G13	WOW	$^{0.50}/_{24.00}$=2.08%	656,600.00	13,679.17

27-Jun-08	730	900	1.5	755	22in slip inserts and slips wedged together in 30in bowls. Freed same.	TP	P6	G13	WOW	$^{1.50}/_{24.00}$=6.25%	656,600.00	41,037.50
27-Jun-08	1100	1130	0.5	755	ROV lost thruster capability when attempting to locate wellhead in preperation to stab and vehicle floated to surface. Re-established control and dived back to bottom.	TP	P6	G13	TP	$^{0.50}/_{24.00}$=2.08%	656,600.00	13,679.17
27-Jun-08	2000	2400	4	755	Attempted to stroke out CTU unit - pistons opened unequally. Trouble shot problem. Found that pressure regulating valve was inoperable and lower / raise function valve was leaking. Released claxton clamp and stroked out pistons on CTU to fully open postion. Functioned same to confirm no trapped air in system: pistons still opening and closing unequally	TP	P6	G13	RE	$^{4.00}/_{24.00}$=16.67%	656,600.00	109,433.33
28-Jun-08	0	230	2.5	755	Made up Claxton clamp hand tight 4in above CTU and adjusted slip insert to engage on riser. Stroked open CTU pistons to 4in to contact Claxton clamp and adjusted slip inserts to ensure clamp level. Torqued up bolts on Claxton clamp to 2250 ft/lbs. Increased CTU pressure to support 100T	TP	P6	G13	RE	$^{2.50}/_{24.00}$=10.42%	1,347,100.00	140,322.92
28-Jun-08	2130	2200	0.5	755	Changed out auto elevators to manual elevators as rotating head not functioning with auto elevators installed.	TP	P11	G11	RE	$^{0.50}/_{24.00}$=2.08%	1,347,100.00	28,064.58
29-Jun-08	1000	1130	1.5	758	NOV fault find on cyber chair.	TP	P11	G11	RE	$^{1.50}/_{24.00}$=6.25%	886,400.00	55,400.00
2-Jul-08	930	1030	1	1,928.00	Camera screen on cyber system out of action. Circulated and worked string while repairing same.	TP	P11	G11	RE	$^{1.00}/_{24.00}$=4.17%	717,200.00	29,883.33
2-Jul-08	1730	1900	1.5	2,017.00	Trouble shot top drive rotating problems. RPM on top drive increasing and decreasing when increasing WOB and bringing mud pumps online. Placed 4 generators on line.	TP	P11	G11	RE	$^{1.50}/_{24.00}$=6.25%	717,200.00	44,825.00
2-Jul-08	1900	1930	0.5	2,031.00	Drilled 13.5in hole from 2017 to 2031m Tried to maintain30 deg Inc and 183.5 deg azimuth. Inclination dropped down to 27.26 degrees. Varied drilling parameters to assist with holding angle, no success. Parameters: Press 3950 psi, GPM 1200, WOB 10-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.	TP	P11	D4	TP	$^{0.50}/_{24.00}$=2.08%	717,200.00	14,941.67
2-Jul-08	1930	2130	2	2,031.00	Circulated hole clean.	TP	P11	F4	TP	$^{2.00}/_{24.00}$=8.33%	717,200.00	59,766.67
2-Jul-08	2130	2400	2.5	2,031.00	Flow checked, POOH wet to 1881m, pumped 30 bbl/s 14.2 ppg slug, continued POOH to 1724m. Hole in good condition.	TP	P11	G8	TP	$^{2.50}/_{24.00}$=10.42%	717,200.00	74,708.33
3-Jul-08	0	530	5.5	2,031.00	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior to BHA being at BOP'S.	TP	P11	G8	TP	$^{5.50}/_{24.00}$=22.92%	995,000.00	228,020.83
3-Jul-08	530	630	1	2,031.00	POOH with BHA and removed RA source from ADN tool.	TP	P11	G7	TP	$^{1.00}/_{24.00}$=4.17%	995,000.00	41,458.33
3-Jul-08	630	730	1	2,031.00	Made up single, pup joint and x/o to rack back ADN-8. Down loaded data from ADN-8 but unable to initiate.	TP	P11	G7	TP	$^{1.00}/_{24.00}$=4.17%	995,000.00	41,458.33
3-Jul-08	730	1030	3	2,031.00	Laid out 13.5in BHA including ADN-8 - unable to be initiated.	TP	P11	G7	TP	$^{3.00}/_{24.00}$=12.50%	995,000.00	124,375.00
3-Jul-08	1030	1400	3.5	2,031.00	Made up bit #5, picked up and made up 13.5in steerable drilling assembly and RIH to 30.68m.	TP	P11	G7	TP	$^{3.50}/_{24.00}$=14.58%	995,000.00	145,104.17
3-Jul-08	1400	1430	0.5	2,031.00	Shallow tested Power Drive at 800 GPM, 1000psi: good test.	TP	P11	G7	TP	$^{0.50}/_{24.00}$=2.08%	995,000.00	20,729.17
3-Jul-08	1430	1500	0.5	2,031.00	Loaded RA source into ADN	TP	P11	G7	TP			
3-Jul-08	1500	1530	0.5	2,031.00	RIH with BHA to 87.54m.	TP	P11	G7	TP	$^{0.50}/_{24.00}$=2.08%	995,000.00	20,729.17
3-Jul-08	1530	1600	0.5	2,031.00	Shallow tested ADN at 800 GPM, 1100psi: good test.	TP	P11	G7	TP	$^{0.50}/_{24.00}$=2.08%	995,000.00	20,729.17
3-Jul-08	1600	1700	1	2,031.00	Continued to RIH with BHA to 184m.	TP	P11	G8	TP	$^{1.00}/_{24.00}$=4.17%	995,000.00	41,458.33
3-Jul-08	1700	2130	4.5	2,031.00	RIH with 5.5in drill pipe to 1960m. Hole good.	TP	P11	G8	TP	$^{4.50}/_{24.00}$=18.75%	995,000.00	186,562.50
3-Jul-08	2130	2230	1	2,031.00	Logged down from 1960m - 1989m. With 1000 gpm, 3180 psi, 60 RPM. Washed down to bottom. No fill.	TP	P11	F1	TP	$^{1.00}/_{24.00}$=4.17%	995,000.00	41,458.33
4-Jul-08	900	1100	2	2,346.00	Stand pipe manifold leaked at connection to stand pipe. POOH 1 stand, circulated bottoms up at 700gpm, 1800psi, while preparing tools and equipment for moving kelly hose to stand pipe #1.	TP	P11	G11	RE	$^{2.00}/_{24.00}$=8.33%	735,200.00	61,266.67
4-Jul-08	1100	1430	3.5	2,346.00	Removed kelly hose and MWD pressure sensor from stand pipe #2 and installed same on standpipe #1.	TP	P11	G11	RE	$^{3.50}/_{24.00}$=14.58%	735,200.00	107,216.67
4-Jul-08	1630	1830	2	2,405.00	Attempted to POOH 5 stands, 25k overpull and swabbing on first stand. Rigged up side entry sub and cement hose. Circulated at 700 gpm at 3060psi.	TP	P11	D4	RE	$^{2.00}/_{24.00}$=8.33%	735,200.00	61,266.67
4-Jul-08	1830	2400	5.5	2,405.00	Repaired leak on stand pipe #1. While circiulating at 700 gpm at 3060psi, worked string up and down every 20 minutes 3-4 meters.	TP	P11	D4	RE	$^{5.50}/_{24.00}$=22.92%	735,200.00	168,483.33
5-Jul-08	0	300	3	2,405.00	Repaired leak on stand pipe #1 while circiulating at 365 gpm at 2000psi. Worked string up and down every 20 minutes 3-4 meters.	TP	P11	G11	RE	$^{3.00}/_{24.00}$=12.50%	837,200.00	104,650.00

5-Jul-08	300	600	3	2,405.00	Tested stand pipe connection to 4500 psi. Rigged down cement hose. Installed bull plug onto SES, circulated and worked string at 365 GPM, 2000 PSI, 20 RPM, while tightening up retaining clamps on stand pipe. Rigged down cement hose and SES.	TP	P11	G11	RE	$^{3.00}/_{24.00}$=12.50%	837,200.00	104,650.00
5-Jul-08	730	2230	15	2,434.00	Connection on stand pipe manifold to stand pipe #1 leaking. Rigged up side entry sub and circulated at 365 gpm at 2000psi - worked string up and down every 20 minutes 3-4 meters. Loosened clamps on stand pipe and lifted same, found connection on stand pipe #1 washed out. Loosened clamps on stand pipe #2 and lifted same, changed seal and tightened clamps on stand pipe. Changed over kelly hose and Schlumberger pressure sensor from stand pipe #1 to #2. Rigged down cement line and SES.	TP	P11	G11	RE	$^{15.00}/_{24.00}$=62.50%	837,200.00	523,250.00
5-Jul-08	2230	2300	0.5	2,434.00	Washed and reamed to bottom from 2400m no fill.	TP	P11	F1	RE	$^{0.50}/_{24.00}$=2.08%	837,200.00	17,441.67
7-Jul-08	1330	2400	10.5	2,600.00	RIH with MDT as replacement for failed XPT log	TP		E3	TP			
8-Jul-08	1230	2200	9.5	2,600.00	Second CST run to replace failed gun on CST Run#1	TP		E3	TP			
9-Jul-08	1000	1030	0.5	2,600.00	Rig blacked out while breaking circulation	tp		G8	TP			
10-Jul-08	0	1330	13.5	2,600.00	MDT run to collect data not gathered by failed XPT tool	TP		E3	TP			
10-Jul-08	1630	2400	7.5	2,600.00	Power failure, trouble shoot same. Found contaminated fuel in fuel filters. Changed all 8 fuel filters on 4 engines. Transferred contaminated fuel from day tank to 11C.	TP	P13	G11	RE	$^{7.50}/_{24.00}$=31.25%	666,100.00	208,156.25
11-Jul-08	0	2400	24	2,600.00	Transferred contaminated fuel from day tank to 11C. Opened inspection cover on day tank, found sludge and water in the bottom of day tank. Cleaned out day tank. Found that the penetration for the sludge drain line into the tank was never made during fabrication. Drilled a 0.5in hole in tank to allow daily draining of tank. Started #1 engine to run fuel purifier and commenced transferring fuel into day tank via fuel purifier. Removed injectors from engine #4 and installed injectors into engine #5. While waiting on power continued Sub Sea Tree preparations and testing. Continued preparations for stand pipe repairs. Made up RTTS assembly with joint 5.5in drill pipe on cat walk. Prepared and reviewed written instructions for future operations.	TP	P13	G11	RE	$^{24.00}/_{24.00}$=100.00%	397,500.00	397,500.00
12-Jul-08	0	1700	17	2,600.00	Changed out injectors on main engines as required and set up same on engines. Engine #5 online at 10.00 hours. Engine #3 online at 17.00 hours. Engine #1 online at 22.00 hours. Found small leak on fuel heat exchanger.	TP	P13	G11	RE	$^{17.00}/_{24.00}$=70.83%	382,800.00	271,150.00
13-Jul-08	100	130	0.5	2,600.00	Lost 30 minutes rigging up to run 10.75in casing due to bail retaining plates on top drive bent thus increasing time required to remove and re-install plates for changing out bails.	TP	P13	G1	RE	$^{0.50}/_{24.00}$=2.08%	618,700.00	12,889.58
13-Jul-08	1300	1330	0.5	2,600.00	Safety standown with all crews and TP contractors to review recent incidents							
14-Jul-08	1000	1030	0.5	2,600.00	Dropped ball and pumped 3.5 bbls in attempt to launch bottom plug. No increase in pressure observed.	TP	P13	F3	TP	$^{0.50}/_{24.00}$=2.08%	2,754,600.00	57,387.50
14-Jul-08	1030	1130	1	2,600.00	Assessed situation and discussed options with town.	TP	P13	F7	TP	$^{1.00}/_{24.00}$=4.17%	2,754,600.00	114,775.00
14-Jul-08	1130	1400	2.5	2,600.00	Circulated casing volume at 10bpm and 650psi. Slowed pumps to 8bpm and 460psi after pumping 700bbls. After pumping 752 bbls observed pressure increase (casing capacity = 755 bbls). Increased pressure in stages to 4,500psi - pressure held steady. Bled off pressure.	TP	P13	F4	TP	$^{2.50}/_{24.00}$=10.42%	2,754,600.00	286,937.50
14-Jul-08	1400	1500	1	2,600.00	Assessed situation and discussed options with town.	TP	P13	F7	TP	$^{1.00}/_{24.00}$=4.17%	2,754,600.00	114,775.00
14-Jul-08	1500	1700	2	2,600.00	Rigged down cement lines and released CHSART from 10.75in casing. POOH and laid out CHSART.	TP	P13	G11	TP	$^{2.00}/_{24.00}$=8.33%	2,754,600.00	229,550.00
14-Jul-08	1700	1800	1	2,600.00	Broke out and laid out cement head. No dart in cement head.	TP	P13	G2	TP	$^{1.00}/_{24.00}$=4.17%	2,754,600.00	114,775.00
15-Jul-08	1930	2100	1.5	2,600.00	Rigged up 2.875in handling equipment and made up 2.875in stinger consisting of 2 joints of 2.875in DP and a mule shoe. RIH same to 30m.	TP	P13	G6	TP	$^{1.50}/_{24.00}$=6.25%	656,500.00	41,031.25
15-Jul-08	2100	2200	1	2,600.00	Made up side entry sub with TIW valves above and below for cementing purposes and stood back in derrick.	TP	P13	G1	TP	$^{1.00}/_{24.00}$=4.17%	656,500.00	27,354.17
15-Jul-08	2200	2400	2	2,600.00	Continued to RIH with 2.875in stinger on 5.5in DP from 30m to 769m. Broke circulation at 473m.	TP	P13	G8	TP	$^{2.00}/_{24.00}$=8.33%	656,500.00	54,708.33
16-Jul-08	0	330	3.5	2,600.00	Continued RIH with 2.875in stinger on 5.5in DP from 769m to 2350m.	TP	P13	G8	TP	$^{3.50}/_{24.00}$=14.58%	855,900.00	124,818.75
16-Jul-08	330	500	1.5	2,600.00	Removed diverter insert packers.	TP	P13	G10	TP	$^{1.50}/_{24.00}$=6.25%	855,900.00	53,493.75
16-Jul-08	500	630	1.5	2,600.00	Picked up w/bushing r/tool and RIH to retrieve w/bushing. Laid down r/tool.	TP	P13	G12	TP	$^{1.50}/_{24.00}$=6.25%	855,900.00	53,493.75
16-Jul-08	630	800	1.5	2,600.00	Picked up and made up RTTS packer.	TP	P13	G5	TP	$^{1.50}/_{24.00}$=6.25%	855,900.00	53,493.75

16-Jul-08	800	830	0.5	2,600.00	RIH with RTTS packer and set same at 140m, stinger at 2490m.	TP	P13	G8	TP	$^{0.50}/_{24.00}$=2.08%	855,900.00	17,831.25
16-Jul-08	830	1030	2	2,600.00	Circulated hole clean around casing with 590gpm, 1325psi.	TP	P13	F4	TP	$^{2.00}/_{24.00}$=8.33%	855,900.00	71,325.00
16-Jul-08	1030	1100	0.5	2,600.00	Unseated RTTS, picked up cement stand with side entry sub and TIW valves above and below sub. Spaced out and set RTTS at 149m placing stinger at 2499m.	TP	P13	G10	TP	$^{0.50}/_{24.00}$=2.08%	855,900.00	17,831.25
16-Jul-08	1100	1130	0.5	2,600.00	Rigged up surface lines and held PJSM.	TP	P13	G1	TP	$^{0.50}/_{24.00}$=2.08%	855,900.00	17,831.25
16-Jul-08	1330	1900	5.5	2,600.00	WOC. Monitored well while WOC. (Drill crew installed seal in stand pipe union)	TP	P13	F7	TP	$^{5.50}/_{24.00}$=22.92%	855,900.00	196,143.75
16-Jul-08	1900	2030	1.5	2,600.00	Attempted to open TIW valve to bleed off pressure and check for backflow - unable to open valve. Equalized pressure across valve using various pressures - unable to open valve. Cracked service jnt on TIW - still unable to open valve.	TP	P13	G10	RE	$^{1.50}/_{24.00}$=6.25%	855,900.00	53,493.75
16-Jul-08	2030	2100	0.5	2,600.00	Closed annular and attempted to unseat RTTS with 40k lbs o/pull - no success.	TP	P13	G10	RE	$^{0.50}/_{24.00}$=2.08%	855,900.00	17,831.25
16-Jul-08	2100	2130	0.5	2,600.00	With annular closed, pumped down kill line to 350psi above packer to equalize pressure across RTTS. Attempted to unseat packer with 60k lbs o/pull - no success.	TP	P13	G10	RE	$^{0.50}/_{24.00}$=2.08%	855,900.00	17,831.25
16-Jul-08	2130	2300	1.5	2,600.00	Slacked off running string weight onto RTTS, closed upper pipe rams and annular. Broke out DP tool joint below TIW and allowed pressure to bleed off at broken connection.	TP	P13	G10	RE	$^{1.50}/_{24.00}$=6.25%	855,900.00	53,493.75
16-Jul-08	2300	2400	1	2,600.00	Made up DP tool joint and attempted to unseat RTTS - no success. Closed annular and applied 100psi through kill line to top of RTTS - pulled RTTS free with 35k lbs o/pull.	TP	P13	G10	RE	$^{1.00}/_{24.00}$=4.17%	855,900.00	35,662.50
17-Jul-08	0	30	0.5	2,600.00	Worked RTTS to ensure free movement, stand back cementing stand in derrick and flow check 10 min.	TP	P13	G5	TP	$^{0.50}/_{24.00}$=2.08%	665,800.00	13,870.83
17-Jul-08	30	100	0.5	2,600.00	POOH RTTS from 149m to surface, stinger at 2350m.	TP	P13	G8	TP	$^{0.50}/_{24.00}$=2.08%	665,800.00	13,870.83
17-Jul-08	100	130	0.5	2,600.00	Laid out RTTS.	TP	P13	G5	TP	$^{0.50}/_{24.00}$=2.08%	665,800.00	13,870.83
17-Jul-08	130	500	3.5	2,600.00	Continued POOH with cement stinger from 2350m to 1106m. Pumped slug at 1422m.	TP	P13	G8	TP	$^{3.50}/_{24.00}$=14.58%	665,800.00	97,095.83
18-Jul-08	100	130	0.5	2,600.00	Dress damaged threads on wellhead housing where clutch tool makes up to wellhead.	TP	P26	G10	TP	$^{0.50}/_{24.00}$=2.08%	689,300.00	14,360.42
19-Jul-08	1800	2130	3.5	2,600.00	Troubleshot problems with ROV. Intermittent nature of problems made for additional difficulty of solving them.	TP	P26	G11	TP	$^{3.50}/_{24.00}$=14.58%	691,800.00	100,887.50
20-Jul-08	2100	2200	1	2,600.00	Unable to remove riser protectors from riser joints (protectors damaged). Removed protectors by cutting same.	TP	P26	G10	TP	$^{1.00}/_{24.00}$=4.17%	678,200.00	28,258.33
21-Jul-08	600	2400	18	2,600.00	Waited on weather. Wind speed 50 - 55 knots through most of the day, seas extremely rough. Increased tension on riser from 20klbs o/pull to 100klbs o/pull. Rigged up kill line to BOP, pressure tested choke manifold down stream valves to 300/5000psi 10min. Pressure tested mud manifold to 300/5000psi 10min.	TP	P26	G25	WOW	$^{18.00}/_{24.00}$=75.00%	281,800.00	211,350.00
22-Jul-08	0	930	9.5	2,600.00	WOW. Continued pressure testing of choke manifold to 300/7500psi 5/10min. and mud manifold to 300/5000psi 5/10min. Performed general rig maintenance. Weather at 5:30: Wind 28 - 39knots, swell to 3 - 4m.	TP	P26	G25	WOW	$^{9.50}/_{24.00}$=39.58%	819,300.00	324,306.25
23-Jul-08	430	2000	15.5	2,600.00	Continued with repairs on TDS. Support shaft for grabber badly bent, requiring heating to straighten up. Changed out dolly bearings for TDS. Attended to leak on grabber. Changed out wash pipe.	TP	P26	G11	RE	$^{15.50}/_{24.00}$=64.58%	432,500.00	279,322.92
24-Jul-08	1000	1130	1.5	2,600.00	Removed, inspected and re-installed swivel packing.	TP	P26	G11	RE	$^{1.50}/_{16.50}$=9.09%	1,096,563.00	99,687.55
Longtom-4 P												
25-Jul-08	1330	1400	0.5	2,641.00	Relief valved blew due to malfunction of I-BOP. Reset same.	TP	P15	D4	RE	$^{0.50}/_{24.00}$=2.08%	681,600.00	14,200.00
26-Jul-08	200	500	3	2,841.00	Flowchecked well and POOH backreaming at 60m/h ROP to recapture LWD/MWD missed data over intervals from 2800m - 2790m, 2755m - 2745m and 2725m - 2715m.	TP	P15	D4	TP	$^{3.00}/_{24.00}$=12.50%	882,300.00	110,287.50
28-Jul-08	630	930	3	2,896.00	Reamed down over the following intervals to recapture missing data from previous MWD/LWD tools. From 2640m to 2670m, from 2720m to 2735m, from 2750m to 2766m and from 2792m to 2813 using 500gpm, 120m/hr, 120rpm.	TP	P15	D6	TP	$^{3.00}/_{24.00}$=12.50%	704,800.00	88,100.00
30-Jul-08	530	1200	6.5	2,987.00	Troubleshot GR on log #2 CST/GR. POOH and changed out unit module. RIH to 1600m. GR still did not work. POOH to surface, changed out GR and RIH to 2600m.	TP	P15	E4	TP	$^{6.50}/_{24.00}$=27.08%	1,778,700.00	481,731.25
31-Jul-08	0	30	0.5	2,987.00	Continued rig service - topped up hydraulic fluid for TDS.	TP	P15	G11	RE	$^{0.50}/_{24.00}$=2.08%	590,700.00	12,306.25
31-Jul-08	30	100	0.5	2,987.00	2 x Main engines dropped out - reverted to emergency generator. Troubleshot problem - reset switches, restarted engines 2 & 3 and powered up rig.	TP	P15	G11	RE	$^{0.50}/_{24.00}$=2.08%	590,700.00	12,306.25
31-Jul-08	100	400	3	2,987.00	Continued to RIH from 253m to 785m at very slow rate (8 stnds/hr) to prevent engines from tripping out. Engines shut down again at 03:20hrs and were powered up again at 03:30hrs.	TP	P15	G8	RE	$^{3.00}/_{24.00}$=12.50%	590,700.00	73,837.50
31-Jul-08	830	1400	5.5	2,987.00	Waited at shoe while troubleshot problems on main engines. Swapped 5 injectors on engine #2, cleaned 6 injectors on engine 3 and cleaned settling tank.	TP	P15	G11	RE	$^{5.50}/_{24.00}$=22.92%	590,700.00	135,368.75
Longtom-4 H												
1-Aug-08	730	830	1	2,698.00	Hydraulic hose burst on Iron Roughneck - changed out same.	TP	P12	G11	RE	$^{1.00}/_{24.00}$=4.17%	45,268,500.00	1,886,187.50
1-Aug-08	1630	1830	2	2,698.00	Installed oil cooler fan and motor to TDS.	TP	P12	G11	RE	$^{2.00}/_{24.00}$=8.33%	45,268,500.00	3,772,375.00
1-Aug-08	1930	2400	4.5	2,698.00	Shut down operations due to extreme winds - 55 to 70knots.	TP	P12	G25	WOW	$^{4.50}/_{24.00}$=18.75%	45,268,500.00	8,487,843.75
2-Aug-08	0	500	5	2,698.00	Waited on weather. Wind speeds from 36 - 55knots during this period.	TP	P12	G25	WOW	$^{5.00}/_{24.00}$=20.83%	691,700.00	144,104.17
2-Aug-08	500	530	0.5	2,698.00	Waited on weather. Wind speed 37 - 44knots. Held Time-out for Safety and PJSM prior to continuing to RIH.	TP	P12	G25	WOW	$^{0.50}/_{24.00}$=2.08%	691,700.00	14,410.42
4-Aug-08	500	530	0.5	3,081.00	Repaired hydraulic leak on TDS.	TP	P12	G11	RE	$^{0.50}/_{24.00}$=2.08%	692,100.00	14,418.75
4-Aug-08	2330	2400	0.5	3,259.00	Cycled pumps and moved pipe to restart MWD tools as per DD instructions.	TP	P12	G11	TP	$^{0.50}/_{24.00}$=2.08%	692,100.00	14,418.75

5-Aug-08	1430	1530	1	3,525.00	Problems with MWD tool. Broke out TDS, racked back one stand, reciprocated pipe, connected TDS and restart MWD.	TP	P12	D4	TP	$^{1.00}/_{24.00}$=4.17%	739,100.00	30,795.83
5-Aug-08	1830	1900	0.5	3,573.00	Problem with MWD tool. Reciprocate pipe and recycle pumps to start MWD tool.	TP	P12	D4	TP	$^{0.50}/_{24.00}$=2.08%	739,100.00	15,397.92
5-Aug-08	1930	2200	2.5	3,577.00	Circulate 1x bottoms up while working first stand of pipe. 180rpm, 700gpm during circulation. Rack back one stand and circulate 1x bottoms up while working second stand pipe. 180rpm, 700gpm during circulation.	TP	P12	F4	TP	$^{2.50}/_{24.00}$=10.42%	739,100.00	76,989.58
5-Aug-08	2200	2400	2	3,577.00	POOH from 3577m to 3149m under K&M supervision. Work tight spots, without circulation, from 3230m to 3147m for 4 stnds. Over pull 20 klbs to max 35klbs.	TP	P12	G8	TP	$^{2.00}/_{24.00}$=8.33%	739,100.00	61,591.67
6-Aug-08	0	230	2.5	3,577.00	Continued to POOH from 3149m to 10.75in, shoe at 2590m. Tight spots from 3230m to 3147m for 4 stnds and from 2751m to 2748m. Max o/pull 35klbs.	TP	P12	G8	TP	$^{2.50}/_{24.00}$=10.42%	747,000.00	77,812.50
6-Aug-08	230	300	0.5	3,577.00	Performed flowcheck at 10.75in shoe and pumped slug.	TP	P12	F3	TP	$^{0.50}/_{24.00}$=2.08%	747,000.00	15,562.50
6-Aug-08	300	700	4	3,577.00	Continued to POOH from 2591m to 214m. Flowchecked at BHA.	TP	P12	G8	TP	$^{4.00}/_{24.00}$=16.67%	747,000.00	124,500.00
6-Aug-08	700	1300	6	3,577.00	Continued to POOH and lay down all BHA tools. Removed RA source from tools. Picked up new 9.5in bit and new MWD, LWD and rotary steerable tools. Loaded RA source in BHA and RIH with bit #11 to 273m.	TP	P12	G8	TP	$^{6.00}/_{24.00}$=25.00%	747,000.00	186,750.00
6-Aug-08	1300	1330	0.5	3,577.00	Made up TDS and shallow tested BHA tools.	TP	P12	P2	TP	$^{0.50}/_{24.00}$=2.08%	747,000.00	15,562.50
6-Aug-08	1700	2200	5	3,577.00	Continued RIH with 9.5in bit #11 from 273m to 2577m filling every 15 stnds.	TP	P12	G8	TP	$^{5.00}/_{24.00}$=20.83%	747,000.00	155,625.00
6-Aug-08	2200	2400	2	3,577.00	Held JSA and commenced changing out saver sub and grabber dies on TDS.	TP	P12	G11	RE	$^{2.00}/_{24.00}$=8.33%	747,000.00	62,250.00
7-Aug-08	0	100	1	3,577.00	Continued with changing out saver sub and grabber dies on TDS.	TP	P12	G11	RE	$^{1.00}/_{24.00}$=4.17%	755,400.00	31,475.00
7-Aug-08	100	230	1.5	3,577.00	Continued to RIH from 2577m to 3129m. Hole tight.	TP	P12	G8	TP	$^{1.50}/_{24.00}$=6.25%	755,400.00	47,212.50
7-Aug-08	230	700	4.5	3,577.00	Worked pipe through tight spots including washing and reaming from 3129m to 3289m. Max 40klbs over sliding weight to RIH without rotation.	TP	P12	F1	TP	$^{4.50}/_{24.00}$=18.75%	755,400.00	141,637.50
7-Aug-08	700	800	1	3,577.00	Continued RIH from 3289m to 3555m.	TP	P12	G8	TP	$^{1.00}/_{24.00}$=4.17%	755,400.00	31,475.00
7-Aug-08	800	830	0.5	3,577.00	Washed and reamed from 3555m to 3577m and established drilling parameters.	TP	P12	F1	TP	$^{0.50}/_{24.00}$=2.08%	755,400.00	15,737.50
9-Aug-08	1800	1830	0.5	4,558.00	Wash pipe leaked on TDS - retighten.	TP	P12	G11	RE	$^{0.50}/_{24.00}$=2.08%	688,900.00	14,352.08
9-Aug-08	2000	2130	1.5	4,558.00	Picked up first jnt of HT55 DP and attempted to RIH - unable to RIH with 40klbs down. Laid down the HT55 jnt, picked up a stnd of DP, made up TDS and reamed past 4412m to end of stnd. Racked back stnd of DP.	TP	P12	G2	WB	$^{1.50}/_{24.00}$=6.25%	688,900.00	43,056.25
10-Aug-08	1300	1700	4	4,648.00	Wash pipe leaking. Changed wash pipe - still leaking. Removed new wash pipe, redressed old wash pipe and install same.	TP	P12	G11	RE	$^{4.00}/_{24.00}$=16.67%	677,900.00	112,983.33
11-Aug-08	300	330	0.5	4,648.00	Leaking valve between pit 3 and pit 6 caused base oil to dilute mud system and reduce the MW. Circulate while weighting up system.	TP	P12	F2	RE	$^{0.50}/_{24.00}$=2.08%	718,800.00	14,975.00
13-Aug-08	1830	2400	5.5	4,648.00	Liner float shoe blocked, liner running tool swab cups failed	TP	P19	G9	DH			
14-Aug-08	0	30	0.5	4,648.00	POOH to 2412m.	TP	P19	G9	DH	$^{0.50}/_{24.00}$=2.08%	630,700.00	13,139.58
14-Aug-08	30	200	1.5	4,648.00	Picked up and laid out cement head. Dart still in cement head.	TP	P19	G9	DH	$^{1.50}/_{24.00}$=6.25%	630,700.00	39,418.75
14-Aug-08	200	830	6.5	4,648.00	POOH with 7 inch liner running tool.	TP	P19	G9	DH	$^{6.50}/_{24.00}$=27.08%	630,700.00	170,814.58
14-Aug-08	830	930	1	4,648.00	Broke and laid out running tool. Top two swab cups damaged, both bottom swab cups in good condition, cement wiper plug intact and in good condition.	TP	P19	G9	DH	$^{1.00}/_{24.00}$=4.17%	630,700.00	26,279.17
14-Aug-08	1345	1530	1.75	4,648.00	Removed diveter packer adapter ring. RIH with test assembly. Spaced out and landed out on wear bushing with 25k down.	TP	P19	G13	RE	$^{1.75}/_{24.00}$=7.29%	630,700.00	45,988.54
14-Aug-08	1930	2330	4	4,648.00	Picked up and made up 7 inch RTTS assembly and RIH with 20 joints of 3.50 inch drill pipe.	TP	P19	G5	DH	$^{4.00}/_{24.00}$=16.67%	630,700.00	105,116.67
14-Aug-08	2330	2400	0.5	4,648.00	Changed out elevators and moved 5.50 inch heavy weight drill pipe to forward side of derrick.	TP	P19	G8	DH	$^{0.50}/_{24.00}$=2.08%	630,700.00	13,139.58
15-Aug-08	0	530	5.5	4,648.00	RIH with 7in RTTS on 5.5in drill pipe: no resistance observed upon entering TOL at 2569m. Continued to RIH and set RTTS at 2735m: 4 right-hand turns and 20K weight down.	TP	P19	G8	DH	$^{5.50}/_{24.00}$=22.92%	634,900.00	145,497.92
15-Aug-08	530	600	0.5	4,648.00	Attempted to circulate liner using mud pumps: gradually increased pressure to 5000 psi - no circulation or returns observed.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	634,900.00	13,227.08
15-Aug-08	600	630	0.5	4,648.00	Attempted to unset RTTS: required 25k overpull. Slacked off to neutral weight to relax packer elements. Confirmed RTTS unset with 4m of downwards movement.	TP	P19	G10	DH	$^{0.50}/_{24.00}$=2.08%	634,900.00	13,227.08
15-Aug-08	630	1030	4	4,648.00	POOH with RTTS to 1721m.	TP	P19	G8	DH	$^{4.00}/_{24.00}$=16.67%	634,900.00	105,816.67
15-Aug-08	1030	1100	0.5	4,648.00	Observed back flow in string at 1721m. Circulated and conditioned mud.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	634,900.00	13,227.08
15-Aug-08	1100	1600	5	4,648.00	Continued to POOH and laid out RTTS.	TP	P19	G8	DH	$^{5.00}/_{24.00}$=20.83%	634,900.00	132,270.83
15-Aug-08	1600	1630	0.5	4,648.00	Cleaned rig floor.	TP	P19	G11	DH	$^{0.50}/_{24.00}$=2.08%	634,900.00	13,227.08
15-Aug-08	1630	1800	1.5	4,648.00	Changed out bails and elevators. Prepared TCP firing head. Laid out 3.5in drill pipe and prepared same.	TP	P19	G1	DH	$^{1.50}/_{24.00}$=6.25%	634,900.00	39,681.25
15-Aug-08	1800	2400	6	4,648.00	Held JSA. Picked up and made up TCP assembly. RIH picking up 3.5in drill pipe to 498m.	TP	P19	G8	DH	$^{6.00}/_{24.00}$=25.00%	634,900.00	158,725.00
16-Aug-08	0	930	9.5	4,648.00	RIH with 3.375in TCP assembly picking up 3.5in drill pipe to 1592.7m. Picked up and made up 7in RTTS to string. Continued to RIH picking up 3.5in drill pipe to 2003.9m.	TP	P19	G8	DH	$^{9.50}/_{24.00}$=39.58%	673,800.00	266,712.50
16-Aug-08	930	1000	0.5	4,648.00	Changed out bails and elevators.	TP	P19	G1	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50
16-Aug-08	1000	1100	1	4,648.00	RIH with one stand of 5.5in drill pipe. Made up cement stand and racked back same.	TP	P19	G1	DH	$^{1.00}/_{24.00}$=4.17%	673,800.00	28,075.00
16-Aug-08	1100	1130	0.5	4,648.00	RIH with 5.50in drill pipe to 2241m.	TP	P19	G8	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50
16-Aug-08	1130	1200	0.5	4,648.00	Observed back flow in string at 2241m. Made up TDS and circulated to balance mud.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50
16-Aug-08	1200	1930	7.5	4,648.00	Continued to RIH with TCP/RTTS assembly to 4545m: no resistance observed upon entering TOL with TCP gun or RTTS.	TP	P19	G8	DH	$^{7.50}/_{24.00}$=31.25%	673,800.00	210,562.50
16-Aug-08	1930	2000	0.5	4,648.00	Broke circulation at 1.40 bbls min/400 psi: good returns. Picked up and made up cement stand.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50

16-Aug-08	2000	2030	0.5	4,648.00	Placed bottom of TCP at 4560m. Set RTTS at 2966.3m with 5 turns to the right and confirmed set with 25k down.	TP	P19	G10	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50
16-Aug-08	2030	2130	1	4,648.00	Held JSA and rigged up cement lines. Halliburton tested cement lines to 3,000 psi for 5 mins. Applied 2,500 psi down string to activate TCP and bled off pressure to 400psi. Observed TCP fire with 200psi pressure decrease in string. Interval perforated 4560m - 4558m with 3.375 inch Predator Perfform HMX 6 SPF.	TP	P19	C5	DH	$^{1.00}/_{24.00}$=4.17%	673,800.00	28,075.00
16-Aug-08	2130	2200	0.5	4,648.00	Halliburton established circulation and pumped 1.1 bbls mud, pressure held at 850 psi. Increased pressure to 1500 psi and obtained returns. Pumped 20 bbl/s mud while increasing pump rate up to 3.6 BPM at 1450 psi and observed 20bbls returns to trip tank.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	673,800.00	14,037.50
16-Aug-08	2200	2400	2	4,648.00	Lined up to rig pumps and continued circulation, increased pump rate to 5 bbls/min at 1500 psi: good returns, no losses. Once 200 bbls pumped observed mud weight out at 11.5 ppg. Once 400bbls pumped observed mud weight out at 10.9ppg. Circulated and conditioned mud, dusted barite to balance weight.	TP	P19	F4	DH	$^{2.00}/_{24.00}$=8.33%	673,800.00	56,150.00
17-Aug-08	0	100	1	4,648.00	Circulated and conditioned mud for even weight in and out at 12.10ppg.	TP	P19	F4	DH	$^{1.00}/_{24.00}$=4.17%	627,300.00	26,137.50
17-Aug-08	100	130	0.5	4,648.00	Unset 7in RTTS. Circulated at 6.6 bbls/min at 2400 psi for 15 mins.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	627,300.00	13,068.75
17-Aug-08	130	330	2	4,648.00	POOH 6m: observed swabbing. Reset 7in RTTS and opened circulation valve, unset RTTS. Continued POOH to 2590m. 7in RTTS depth. No further swabbing observed.	TP	P19	G8	DH	$^{2.00}/_{24.00}$=8.33%	627,300.00	52,275.00
17-Aug-08	330	400	0.5	4,648.00	Made up cement stand and set 7in RTTS at 2590m with 5 turns to the right and confirmed set with 25k down.	TP	P19	G10	DH	$^{0.50}/_{24.00}$=2.08%	627,300.00	13,068.75
17-Aug-08	400	600	2	4,648.00	Held JSA and rigged up cement lines. Halliburton tested lines to 3,000 psi. Pumped 30 bbls fresh water spacer followed by 60 bbls of 13.5 ppg Tuned Spacer and 10 bbls of fresh water at 8 BPM. Mixed and pumped 138 bbls of "HBT" grade cement slurry at 15.0 ppg. Commenced displacement with 10 bbls fresh water and SBM. Theoretical top of cement within 7in liner at 4520m. Theoretical top of cement within 7in liner/ 9.50 inch hole at 3550m.	TP	P19	F3	DH	$^{2.00}/_{24.00}$=8.33%	627,300.00	52,275.00
17-Aug-08	600	700	1	4,648.00	Checked back flow: OK. Rigged down cement hose and unset 7in RTTS.	TP	P19	G1	DH	$^{1.00}/_{24.00}$=4.17%	627,300.00	26,137.50
17-Aug-08	700	900	2	4,648.00	Broke circulation. Racked back cement stand. Continued circulating bottoms up. No cement returns observed at shakers.	TP	P19	F4	DH	$^{2.00}/_{24.00}$=8.33%	627,300.00	52,275.00
17-Aug-08	900	1430	5.5	4,648.00	POOH with TCP/ 7 inch RTTS assembly to 2005m.	TP	P19	G8	DH	$^{5.50}/_{24.00}$=22.92%	627,300.00	143,756.25
17-Aug-08	1700	1730	0.5	4,648.00	Moved 5 stands of HWDP to front of finger board to enable rack back of all 3.5in drill pipe.	TP	P19	G4	DH	$^{0.50}/_{24.00}$=2.08%	627,300.00	13,068.75
17-Aug-08	1730	1830	1	4,648.00	Changed out to 3.5in elevators. POOH from 2005m - 1592m.	TP	P19	G8	DH	$^{1.00}/_{24.00}$=4.17%	627,300.00	26,137.50
17-Aug-08	1830	2000	1.5	4,648.00	Serviced, broke and laid out 7in RTTS.	TP	P19	G15	DH	$^{1.50}/_{24.00}$=6.25%	627,300.00	39,206.25
17-Aug-08	2000	2400	4	4,648.00	Pumped slug and continued to POOH to TCP gun assembly.	TP	P19	G8	DH	$^{4.00}/_{24.00}$=16.67%	627,300.00	104,550.00
18-Aug-08	0	100	1	4,648.00	Laid out TCP gun assembly.	TP	P19	G1	DH	$^{1.00}/_{24.00}$=4.17%	816,300.00	34,012.50
18-Aug-08	100	130	0.5	4,648.00	Laid out excess drilling equipment and cleaned rig floor of SBM.	TP	P19	G1	DH	$^{0.50}/_{24.00}$=2.08%	816,300.00	17,006.25
18-Aug-08	130	600	4.5	4,648.00	Held JSA and rigged up Schlumberger wireline. Made up GR/CCL/HSD gun and RIH at 02:45hrs. Correlated for depth of bottom shot at 2675m. Fired gun at 04:07hrs and observed a slight surface indication of gun firing. POOH and laid out guns; all shots fired. Rigged down Schlumberger wireline. Bottom of perforations at 2675m. Top of perforations at 2673.5m. Gun details: 1.5m long 4.50 inch OD, 12 shots per foot of Powerjet Omega Pure charges.	TP	P19	C2	DH	$^{4.50}/_{24.00}$=18.75%	816,300.00	153,056.25
18-Aug-08	600	700	1	4,648.00	Picked up and made up 7in cement retainer and RIH on 3.5in drill pipe to 149m.	TP	P19	G8	DH	$^{1.00}/_{24.00}$=4.17%	816,300.00	34,012.50
18-Aug-08	700	730	0.5	4,648.00	Changed out to 5.5in elevators.	TP	P19	G1	DH	$^{0.50}/_{24.00}$=2.08%	816,300.00	17,006.25
18-Aug-08	730	1330	6	4,648.00	RIH with cement retainer on 5.5in drillpipe to 2649m.	TP	P19	G8	DH	$^{6.00}/_{24.00}$=25.00%	816,300.00	204,075.00
18-Aug-08	1330	1400	0.5	4,648.00	Picked up and made up cement stand.	TP	P19	G1	DH	$^{0.50}/_{24.00}$=2.08%	816,300.00	17,006.25
18-Aug-08	1400	1430	0.5	4,648.00	Broke circulation with 300 gpm at 1000 psi. Worked retainer up and down within 2m of intended setting depth.	TP	P19	F4	DH	$^{0.50}/_{24.00}$=2.08%	816,300.00	17,006.25
18-Aug-08	1430	1530	1	4,648.00	Set cement retainer at 2669m with 40 RH turns, staged up to 37K o/pull to shear tension sleeve. Picked up 2m and took 25 RH turns to release stinger. Picked up 2m to confirm clear. Stung back into retainer and set down 35k. Rigged up cement hose. Established circulation up outside of liner with 500gpm at 1700psi.	TP	P19	G10	DH	$^{1.00}/_{24.00}$=4.17%	816,300.00	34,012.50
18-Aug-08	1530	1700	1.5	4,648.00	Pumped 5 bbls of fresh water with cement unit and tested lines to 3000psi. Pumped 30 bbls of fresh water, followed by 60 bbls of 13.5 ppg tuned spacer followed by another 10 bbls of fresh water. Mixed and pumped 30 bbls of 15.0 ppg "HTB" slurry. Displaced with 10 bbls of fresh water and 168 bbls of SBM. Theoretical top of cement within 7in liner/10.75in casing at 2569m. Theoretical bottom of cement within 7in liner/9.5in hole at 2675m.	TP	P19	F3	DH	$^{1.50}/_{24.00}$=6.25%	816,300.00	51,018.75
18-Aug-08	1700	1830	1.5	4,648.00	Picked up 2m out of cement retainer and circulated bottoms up at 600 gpm and 2300 psi. Observed slight cement contamination in returns on bottoms up (diverted spacers to slops pit).	TP	P19	F4	DH	$^{1.50}/_{24.00}$=6.25%	816,300.00	51,018.75
18-Aug-08	1830	1930	1	4,648.00	Rigged down cement line and racked back cement stand. Pumped slug. POOH to 2540m.	TP	P19	G8	DH	$^{1.00}/_{24.00}$=4.17%	816,300.00	34,012.50
18-Aug-08	1930	2000	0.5	4,648.00	Changed out bails to lay out 5.5in drill pipe.	TP	P19	G1	DH	$^{0.50}/_{24.00}$=2.08%	816,300.00	17,006.25
18-Aug-08	2000	2400	4	4,648.00	While WOC: POOH, laying out 5.5in drill pipe to 1938m.	TP	P19	G8	DH	$^{4.00}/_{24.00}$=16.67%	816,300.00	136,050.00

19-Aug-08	0	30	0.5	4,648.00	While WOC continued to POOH laying out 5.5in drill pipe to 1860m.	TP	P19	G8	DH	0.50/24.00=2.08%	625,600.00	13,033.33
19-Aug-08	30	130	1	4,648.00	Lined up to Halliburton cement unit and pumped 4 bbls of SBM mud. Pressure tested lines to 1,000psi. Closed annular and tested top of 7in liner lap at 2569.50m with 500 psi and held for 10 minutes - good test Pumped 6.90 bbls of SBM: 6.70 bbls SBM returned after bleeding off of pressure.	TP	P19	P1	DH	1.00/24.00=4.17%	625,600.00	26,066.67
19-Aug-08	130	200	0.5	4,648.00	Changed out bails for tripping operations.	TP	P19	G1	DH	0.50/24.00=2.08%	625,600.00	13,033.33
19-Aug-08	200	630	4.5	4,648.00	POOH and laid out cement retainer running tool.	TP	P19	G8	DH	4.50/24.00=18.75%	625,600.00	117,300.00
19-Aug-08	630	700	0.5	4,648.00	Cleared excess equipment from rig floor and cleaned same from SBM.	TP	P19	G1	DH	0.50/24.00=2.08%	625,600.00	13,033.33
19-Aug-08	700	730	0.5	4,648.00	Picked up and made up 9.5in clean out BHA and RIH to 58m.	TP	P19	G2	DH	0.50/24.00=2.08%	625,600.00	13,033.33
19-Aug-08	730	1400	6.5	4,648.00	RIH with 5.5in drill pipe and BHA to 1m above top of 7in liner at 2568m. No drag observed while RIH or at top of liner.	TP	P19	G8	DH	6.50/24.00=27.08%	625,600.00	169,433.33
19-Aug-08	1400	1530	1.5	4,648.00	Circulated bottoms up.	TP	P19	F4	DH	1.50/24.00=6.25%	625,600.00	39,100.00
19-Aug-08	1530	1630	1	4,648.00	Pumped 30 bbls slug and displaced same with 10 bbls SBM.	TP	P19	F3	DH	1.00/24.00=4.17%	625,600.00	26,066.67
19-Aug-08	1630	1930	3	4,648.00	POOH with 5.5in drilll pipe to 1059m.	TP	P19	G8	DH	3.00/24.00=12.50%	625,600.00	78,200.00
19-Aug-08	1930	2400	4.5	4,648.00	Continued POOH laying out 5.5in drill pipe to 294m. Laid out 78 joints of 5.5in drill pipe. **Held TOFS on drill floor with drill and deck crews at 22:30hrs to highlight the hazards associated with repetitive tasks and remind personnel to keep focused on the job**	TP	P19	G8	DH	4.50/24.00=18.75%	625,600.00	117,300.00
20-Aug-08	0	130	1.5	4,648.00	POOH to BHA laying out 5.5in drill pipe. Total of 102 joints laid out.	TP	P19	G8	DH	1.50/24.00=6.25%	712,900.00	44,556.25
20-Aug-08	130	200	0.5	4,648.00	Racked back BHA and broke off bit.	TP	P19	G2	DH	0.50/24.00=2.08%	712,900.00	14,852.08
20-Aug-08	200	330	1.5	4,648.00	Picked up and made up 6in Smith bit XR + PS and motor and 2 x 4.75in NMDC.	TP	P19	G2	DH	1.50/24.00=6.25%	712,900.00	44,556.25
20-Aug-08	330	800	4.5	4,648.00	RIH with BHA and 3.5in drill pipe to 2034m.	TP	P19	G8	DH	4.50/24.00=18.75%	712,900.00	133,668.75
20-Aug-08	800	900	1	4,648.00	Changed out to 5.5in elevators and RIH with 5.5in drill pipe to 2535m.	TP	P19	G8	DH	1.00/24.00=4.17%	712,900.00	29,704.17
20-Aug-08	900	930	0.5	4,648.00	Cleared rig floor and cleaned SBM from same.	TP	P19	F7	DH	0.50/24.00=2.08%	712,900.00	14,852.08
20-Aug-08	930	1300	3.5	4,648.00	Slipped and cut drilling line. Calibrated travelling block.	TP	P19	G11	DH	3.50/24.00=14.58%	712,900.00	103,964.58
20-Aug-08	1300	1400	1	4,648.00	RIH and tagged TOC at 2641m with 10klbs down weight.	TP	P19	G8	DH	1.00/24.00=4.17%	712,900.00	29,704.17
20-Aug-08	1400	1600	2	4,648.00	Drilled cement from 2641m - 2668m (with 300gpm, 3400psi, 50rpm and 3klbs WOB)	TP	P19	D1	DH	2.00/24.00=8.33%	712,900.00	59,408.33
20-Aug-08	1600	2400	8	4,648.00	Drilled cement retainer from 2668m - 2668.5m using various parrameters: 150-300gpm, 2200 - 3800 psi, 15 - 50 rpm, 3- 5k WOB.	TP	P19	D8	DH	8.00/24.00=33.33%	712,900.00	237,633.33
21-Aug-08	0	330	3.5	4,648.00	Drilled cement retainer from 2668.5m to 2668.6m with 150 gpm, 2200 psi, 15 rpm and 3- 5klbs WOB. No significant progress from 01:00hrs - 03:30hrs. 18in of cement retainer was drilled, an estimated 12in left to be drilled.	TP	P19	D1	DH	3.50/24.00=14.58%	648,200.00	94,529.17
21-Aug-08	330	1000	6.5	4,648.00	Pumped 20 bbls slug and POOH to surface. Broke off and inspected bit. Bit wear: 1, 1, NO, A, E, I, NO, PR.	TP	P19	G8	DH	6.50/24.00=27.08%	648,200.00	175,554.17
21-Aug-08	1000	1030	0.5	4,648.00	Serviced Top Drive and rig.	TP	P19	G11	DH	0.50/24.00=2.08%	648,200.00	13,504.17
21-Aug-08	1030	1900	8.5	4,648.00	Laid out 4.75in motor and made up bit #13 6in Smith GR+ and RIH to 2668.6m Broke circulation at 2559.0m with 300gpm at 600psi. Tagged top of cement retainer at 2668.6m with 10klbs down weight.	TP	P19	G8	DH	8.50/24.00=35.42%	648,200.00	229,570.83
21-Aug-08	1900	2000	1	4,648.00	Drilled out cement retainer from 2668.6m to 2668.8m. Drilled with 330gpm, 40rpm, 3k torque and 5-7 WOB Chased cement retainer down from 2668.8m to 2680m with 2-10klbs down weight.	TP	P19	D1	DH	1.00/24.00=4.17%	648,200.00	27,008.33
21-Aug-08	2000	2100	1	4,648.00	Circulated bottoms up with 600gpm at 3000psi.	TP	P19	F4	DH	1.00/24.00=4.17%	648,200.00	27,008.33
21-Aug-08	2100	2400	3	4,648.00	Pumped 30 bbls slug and POOH from 2680m to 1242m.	TP	P19	G8	DH	3.00/24.00=12.50%	648,200.00	81,025.00
22-Aug-08	0	200	2	4,648.00	POOH to 3.5in drill pipe and changed out to 3.5in elevators. Picked up and inspected first stand of 3.5in drill pipe, no visible distortion observed.	TP	P19	G8	DH	2.00/24.00=8.33%	868,200.00	72,350.00
22-Aug-08	200	500	3	4,648.00	RIH with 3.5in drill pipe to 2036m.	TP	P19	G8	DH	3.00/24.00=12.50%	868,200.00	108,525.00
22-Aug-08	500	630	1.5	4,648.00	Changed out to 5.5in elevators and continued RIH to 2680m. Oberseved drag increased to 4 - 5k down from 2680m - 2777.64m	TP	P19	G8	DH	1.50/24.00=6.25%	868,200.00	54,262.50
22-Aug-08	630	830	2	4,648.00	Made up top drive and work through hold up at 2777.64m. With 40spm, 150 - 230 gpm, 1000 - 2000psi, 40-60rpm, 5-10k WOB Observed WOB decreased to 4k.	TP	P19	G8	DH	2.00/24.00=8.33%	868,200.00	72,350.00
22-Aug-08	830	1300	4.5	4,648.00	Continued rotating and working down cement retainer from 2777.64m - 2805 m with continuous 5- 10k down, 25spm, 150gpm, 1000psi, 60rpm.	TP	P19	G8	DH	4.50/24.00=18.75%	868,200.00	162,787.50
22-Aug-08	1300	1430	1.5	4,648.00	RIH and rotated down when necessary from 2805m - 2919m. RIH with up to 20k drag and rotated with 60rpm, WOB 9K.	TP	P19	F4	DH	1.50/24.00=6.25%	868,200.00	54,262.50
22-Aug-08	1430	2030	6	4,648.00	Continued RIH from 2919m - 4490m with continuous 5 - 10k drag down. Held up with 25k down at 4490m.	TP	P19	G8	DH	6.00/24.00=25.00%	868,200.00	217,050.00
22-Aug-08	2030	2300	2.5	4,648.00	Circulated bottoms up with 230gpm, 4400psi - heavy solids returned on bottoms up.	TP	P19	F4	DH	2.50/24.00=10.42%	868,200.00	90,437.50
					While circulating bottoms held Pre Job Meeting for displacing well to brine.							

24-Aug-08	700	730	0.5	4,648.00	Attempted to repair hydraulic safety clamp. Set up rig's manual safety clamp to fit 3 1/8in TCP guns.	TP	P22	G2	TP	$^{0.50}/_{24.00}$=2.08%	1,790,500.00	37,302.08
25-Aug-08	0	100	1	4,648.00	Continued RIH with TCP gun assembly to gun #226 at 1900m, laid gun #226 out as concerns about booster protruding too high. Replaced with gun# 233.	TP	P22	G2	TP	$^{1.00}/_{24.00}$=4.17%	702,700.00	29,279.17
29-Aug-08	0	330	3.5	4,648.00	Continued to pick up and attempt to make up blast joints to the required torque. A total of 6 joints failed to meet torque requirements. This operation involved the laying out of two blast joints and picking up two replacement joints each time. Two to three attempts were made to make up blast joints to required torque before changing them out.	TP	P22	C4	TP	$^{3.50}/_{24.00}$=14.58%	3,096,400.00	451,558.33
1-Sep-08	1100	1230	1.5	4,648.00	RIH with 4.5in GS pulling tool and engaged xx plug in x nipple at 2242m. POOH and laid out running tool and plug while work through SSSV continued.	TP	P22	C13	DH	$^{1.50}/_{24.00}$=6.25%	617,900.00	38,618.75
1-Sep-08	1800	1930	1.5	4,648.00	Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV was holding - both annulus and tubing pressure decreased at same rate.	TP	P22	C13	TP	$^{0.50}/_{24.00}$=2.08%	617,900.00	12,872.92
1-Sep-08	1930	2130	2	4,648.00	Bled off annulus pressure to 0 psi. Lined up and pressured down string against FBIV to 5500 psi in an attempt to set the HFI and AHC packers again - pressure held for 15 mins then dropped 100 psi over 45 mins. Increased pressure to 5500 psi and held pressure for 30 mins - no pressure lost. Bled off pressure to 1800 psi.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	617,900.00	51,491.67
1-Sep-08	2130	2230	1	4,648.00	Opened ICV, closed annular and pressure tested down choke line with rig pumps against HF-1 packer. Pumped 6.60 bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure decreased at same rate.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	617,900.00	25,745.83
1-Sep-08	2230	2400	1.5	4,648.00	While communicating with town bled off annulus pressure to 0 psi. Lined up and pressured down tubing string against FBIV to 5500 psi and held pressure.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	617,900.00	38,618.75
2-Sep-08	0	300	3	4,648.00	Held 5500 psi on tubing string while calculating the maximum applied surface pressures allowed to assist in setting the packer and waited for technical information from Cameron support in Singapore on maximum permitted pressure for SST and components.	TP	P22	C13	TP	$^{3.00}/_{24.00}$=12.50%	832,800.00	104,100.00
2-Sep-08	300	500	2	4,648.00	Held JSA. Closed FMV. Bled off all pressure via Expro manifold. Locked open NRV on flowhead. Flushed lines with Halliburton cement unit to Expro choke with 7 bbls of Drill Water. Closed FWV and tested lines and flow head to 6000 psi for 10 mins - good test. Bled off pressure to 5400 psi. Opened FMV and increased tubing pressure from 5400 psi to 6000 psi. Held pressure for 1 hour. Bled off (to Cement Unit) to 5500 psi. Closed FKV, opened FWV and bled off pressure via Expro Choke to 1400 psi.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	832,800.00	69,400.00
2-Sep-08	500	600	1	4,648.00	Opened ICV, closed the annulus and pressure tested down choke line with rig pumps against HF-1 packer. Pumped 6.60 bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV was holding - both annulus and tubing pressure decreased at the same rate.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	832,800.00	34,700.00
2-Sep-08	600	700	1	4,648.00	Attempted to reverse circulate diesel from tubing: Pumped 10 bbls total with mud pumps down annulus pressuring up to 4950 psi allowing tubing pressure to increase from 1380 psi to 1800 psi and then attempted to bleed off tubing pressure via Expro choke to establish circulation. Bled off 1 bbl from tubing - restricted circulation path. Bled off 500 psi at cement unit - SITP = 1285 psi, SICP = 4595 psi.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	832,800.00	34,700.00
2-Sep-08	700	930	2.5	4,648.00	Observed pressures: tubing pressure built slowly and annulus pressure decreased slowly. Discussed options with town.	TP	P22	C13	TP	$^{2.50}/_{24.00}$=10.42%	832,800.00	86,750.00
2-Sep-08	930	1130	2	4,648.00	Established injection rate by pumping brine down tubing string with cement unit while holding 2700-3200 psi on annulus above packer: 0.5 BPM = 3800 psi, 0.75 BPM = 3950 psi, 1 BPM = 4050 psi, 1.25 BPM = 4120 psi, 1.5 BPM = 4050 psi, 2 BPM = 4030 psi, 5 BPM = 4100 psi. Continued pumping / injecting a total of 280 bbls brine (final injection pressure / rate = 5 BPM @ 2700 psi). Bled off annulus pressure via rig choke and tubing pressure via Expro choke.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	832,800.00	69,400.00
2-Sep-08	1130	1300	1.5	4,648.00	Closed ICV and confirmed pressures on down-hole gauges: DHPT = 6136 psi, DHPA = 6688 psi. Using cement unit, pressured down tubing string using brine to 6000 psi in an attempt to set HF-1 packer with maximum differential. Held 6000 psi pressure for one hour. Bled off tubing string pressure.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	832,800.00	52,050.00
2-Sep-08	1300	1330	0.5	4,648.00	Attempted to pressure test HF-1 packer: pressured down annulus using rig pump staging up at 500 psi. Observed tubing pressure increase to 230 psi. Stopped pumping: tubing pressure settled out at 480 psi, annulus pressure settled out at 275 psi. Bled off pressures - no test on packer.	TP	P22	C13	TP	$^{0.50}/_{24.00}$=2.08%	832,800.00	17,350.00
2-Sep-08	1330	1830	5	4,648.00	Discussed options and developed forward plan with town.	TP	P22	C13	TP	$^{5.00}/_{24.00}$=20.83%	832,800.00	173,500.00
2-Sep-08	1830	2230	4	4,648.00	Held JSA, Expro prepared tools and re-terminated rope sock. Rigged up slickline and lubricator. Reviewed packer sleeve shifting tool clearances through tubing string.	TP	P22	C13	TP	$^{4.00}/_{24.00}$=16.67%	832,800.00	138,800.00
2-Sep-08	2230	2400	1.5	4,648.00	RIH with slickline and set protection sleeve at SST well head, POOH and confirmed that sleeve was set in SST. Racked back lubricator in derrick.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	832,800.00	52,050.00
3-Sep-08	0	100	1	4,648.00	Installed test cap on flow head. Lined up and commenced pressuring up string to cycle FBIV into the locked open position. Stopped pumping after receiving confirmation from technical support that the HF-1 shifting tool will travel through all completion components.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	690,100.00	28,754.17
3-Sep-08	100	530	4.5	4,648.00	Rigged up lubricator, RIH with HF-1 shifting tool and and released packer at 2244m - positive indication that packer released with 300 klbs overpull. Repeated 3 times - no overpull observed on the last 2 times through packer. POOH and checked shifting tool - shear pins sheared indicating that packer was released. Laid out tool string and racked back lubricator in derrick. Installed test cap onto flow head.	TP	P22	C13	TP	$^{4.50}/_{24.00}$=18.75%	690,100.00	129,393.75

3-Sep-08	530	700	1.5	4,648.00	Cycled FBIV to the locked open position, pumping down tubing with cement unit pressured up to 3500 psi, hold two minutes, bleed off to zero psi, waited two minutes. Repeated sequence 6 times - observed pressure drop and increased volume pumped on sixth cycle. Repeated cycle and confirmed valve locked open.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	690,100.00	43,131.25
3-Sep-08	700	900	2	4,648.00	Shut down and flow checked well - Tubing pressure = 296 psi, Annulus losing at 0.6 bbls/hr. Monitored pressures - tubing pressure rising at approx 1 psi / minute.	TP	P22	G14	TP	$^{2.00}/_{24.00}$=8.33%	690,100.00	57,508.33
3-Sep-08	900	1300	4	4,648.00	Shut in tubing pressure = 460 psi, Annulus losing 0.6 bbls/hr. Closed annular. Opened ICV. Commenced reverse circulating, pumping down annulus with filtered 11.0 ppg brine, through ICV and up tubing to Expro choke. Pumping at 1.3 BPM and 1600-1800 psi annulus pressure holding 550-130 psi back pressure at Expro choke. Diesel returns to surface after pumping 5 bbls Diverted to flare after pumping 15 bbls Dry gas to surface after pumping 60 bbls 20% Diesel, 80% Brine after pumping 96 bbls Diesel percentage decreased to trace after pumping 217 bbls. During circulation loosing approx 20% of pumped volume. Pumped a total of 280 bbls - clean brine returns.	TP	P22	P3	TP	$^{4.00}/_{24.00}$=16.67%	690,100.00	115,016.67
3-Sep-08	1300	1400	1	4,648.00	Shut down and checked pressures - Annulus = 230 psi, Tubing = 40 psi - checked returns - gas still evident. Continued reverse circulating, pumping at 2 BPM and 2350 - 2700 psi holding 130-150 psi back pressure at Expro choke. Pumped additional 63 bbls (343 Total pumped) with clean brine returns. Shut down and checked pressures Annulus = 249 psi, Tubing = 0 psi. Bled off annulus - no flow (pressure due to restriction when circulating past packer)	TP	P22	P3	TP	$^{1.00}/_{24.00}$=4.17%	690,100.00	28,754.17
3-Sep-08	1400	1500	1	4,648.00	Flow checked well OK.	TP	P22	G14	TP	$^{1.00}/_{24.00}$=4.17%	690,100.00	28,754.17
3-Sep-08	1500	2030	5.5	4,648.00	Confirmed plan and sorted equipment to place second barrier in tubing. Rigged down Coflex hose and chemical injection line from flow-head. Rigged up slick line, prepared pump in assembly for Schlumberger.	TP	P22	C13	TP	$^{5.50}/_{24.00}$=22.92%	690,100.00	158,147.92
3-Sep-08	2030	2400	3.5	4,648.00	Made up 3.813in XX plug with 2.313in pump out plug. RIH and set same in X nipple at 2552m MDRT. POOH.	TP	P22	C13	TP	$^{3.50}/_{24.00}$=14.58%	690,100.00	100,639.58
4-Sep-08	0	100	1	4,648.00	POOH with running tool and confirmed XX plug set in X nipple at 2552m. Installed test cap on flow head.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	705,600.00	29,400.00
4-Sep-08	100	200	1	4,648.00	Lined up to Halliburton cement unit and pumped 21 bbls of brine to fill string and pressure tested XX plug at 2552m to 750 psi for 5 mins - good test.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	705,600.00	29,400.00
4-Sep-08	200	400	2	4,648.00	Rigged down and laid out slick line BOP and lubricator.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	705,600.00	58,800.00
4-Sep-08	400	600	2	4,648.00	Rigged down flow head from landing string and laid out same. Rigged down Expro completion bails.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	705,600.00	58,800.00
4-Sep-08	600	630	0.5	4,648.00	Rigged up 350tn long bails and 3.5in elevators.	TP	P22	C13	TP	$^{0.50}/_{24.00}$=2.08%	705,600.00	14,700.00
4-Sep-08	630	830	2	4,648.00	Rigged up Schlumberger wireline pump in assembly and rigged up cement hose to pump in assembly.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	705,600.00	58,800.00
4-Sep-08	830	930	1	4,648.00	Pressure tested lines with cement unit against TIW valve and"'pack off" to 1500 psi. Pressure tested against XX plug to 750 psi - all good tests.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	705,600.00	29,400.00
4-Sep-08	930	1300	3.5	4,648.00	Backed off quick connection on pump in assembly and laid down assembly onto rig floor to install chemical cutter. Rigged up T-bar and sheaves for Schlumberger wireline. Made up chemical cutter tool and installed in tubing.	TP	P22	C13	TP	$^{3.50}/_{24.00}$=14.58%	705,600.00	102,900.00
4-Sep-08	1300	1730	4.5	4,648.00	Installed pump in assembly and RIH with chemical cutter. Stopped at 2000 m with tool and closed ICV. Continued to RIH with chemical cutter and hung up at ICV. Attempted to work tool string past same - no success. Pulled back 100 m and opened ICV. RIH with tool string - successfully passed ICV. Correlated and landed out tool string on R-nipple @ 2532 m. Fired the chemical cutter to cut AHC packer at 16:15hrs. Flow checked tubing and annulus 10 minutes - OK. POOH.	TP	P22	C13	TP	$^{4.50}/_{24.00}$=18.75%	705,600.00	132,300.00
4-Sep-08	1730	1930	2	4,648.00	Tools at surface, confirmed chemical cutter fired - noted damage to severing head. Laid out tool string, and rigged down Schlumberger.	TP	P22	C13	TP	$^{2.00}/_{24.00}$=8.33%	705,600.00	58,800.00
4-Sep-08	1930	2100	1.5	4,648.00	Made up 6ft pup joint to landing string. Released MTHRT with 7 RH turns of landing string - observed shear pins sheared after 6 turns with 6,000 ft/lbs over original torque. Confirmed with Cameron that ICV closed, AAV and AMV open.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	705,600.00	44,100.00
4-Sep-08	2100	2230	1.5	4,648.00	Held JSA and POOH and laid out landing string and MTHRT.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	705,600.00	44,100.00
4-Sep-08	2230	2400	1.5	4,648.00	Picked up and made up THRET to 5.5in drill pipe and RIH to top of tubing hanger at 91.59m.	TP	P22	C13	TP	$^{1.50}/_{24.00}$=6.25%	705,600.00	44,100.00
5-Sep-08	0	100	1	4,648.00	Made up THRET into tubing hanger, unlocked tubing hanger with 4 LH turns and observed increase in torque confirming that the tubing hanger unlocked. Closed annular.	TP	P22	C13	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83

					Pumped down completion string with 5 bbls brine to 1400psi and observed Pump Open Plug sheared open at 1400 psi. Opened ICV and confirmed with Cameron that TRSSSV closed, CSM, PMV, XOV, AMV and AAV opened. Picked up 2m, intial pickup weight 220 klbs, after 1m pick up, weight dropped down to 208 klbs. Obseved no pressure increase on annulus or tubing.							
5-Sep-08	100	130	0.5	4,648.00	Cameron closed AMV, AAV, PMV and XOV with HPU. Lined up to circulate down string with returns back via choke manifold. Pumped at 2.5 bbls/min. String took 8 bbls to fill. Pressure increasing to 1800psi after pumping 51 bbls - got partial returns. Stopped pumps and observed drill pipe pressure fall to 0 psi. Annulus pressure = 0 psi. Recommenced pumping down string at 1.2 bbls/min, pressure increased to 1500 psi - getting partial returns. Estimated loss = 20 bbls. Stopped pumps and closed choke.	TP	P22	C13	TP	$^{0.50}/_{24.00}$=2.08%	619,700.00	12,910.42
5-Sep-08	130	230	1	4,648.00	Observed pressure increase on choke manifold to 200psi, drill pipe pressure 0 psi. Worked string up and down over 4m interval 4 times with 240klbs pickup, 178klbs down weight. Attempted to circulate string while working string up and down. Pressure fluctuated in drill pipe and annulus. Stop pumps - SICP = 200 psi SIDP = 100 psi.	TP	P22	P3	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83
5-Sep-08	230	400	1.5	4,648.00	Attempted to bleed of casing pressure, bled off 6 bbls to trip tank, closed in choke and observed SICP immediately build back up to 200psi. SIDP = 0 psi. Pumped 3 bbls down string - drill pipe pressure increased but SICP remained at 200 psi - no circulation. Pumped 10 bbls total. Worked string up and down over a 2m interval - pressures fluctuated.	TP	P22	P3	TP	$^{1.50}/_{24.00}$=6.25%	619,700.00	38,731.25
5-Sep-08	400	600	2	4,648.00	Stopped working string and observed pressures: SICP and SIDP both stabalized at 300 psi after 30 minutes. Bled of 4.5 bbls from string (SSSV flapper closed) and observed drill string - no flow on drill pipe for 1 hour - SICP remained steady at 300 psi.	TP	P22	P3	TP	$^{2.00}/_{24.00}$=8.33%	619,700.00	51,641.67
5-Sep-08	600	900	3	4,648.00	Held PJSM. Broke off one stand of drill pipe and installed TIW. Racked back stand. Removed TIW and made up TDS (gas evident in string). Continued to pick up string 23 m total stripping through annular - while pumping at 1.3 BPM and 300 psi. Casing pressure remained constant at 300 psi.	TP	P22	P3	TP	$^{3.00}/_{24.00}$=12.50%	619,700.00	77,462.50
5-Sep-08	900	1030	1.5	4,648.00	Opened choke and took sample of returns from annulus - 10.4 ppg with slight diesel contamination. Worked string in an attempt to establish a circulation path and pulled back 42 m to place bottom packer at 2487 m - above top 400 Sand perforations at 2494 m. Observed pressure drop on annulus to 150 psi. Opened choke and pressure bled down to zero with no further flow. Attempted to circulate but not getting any returns.	TP	P22	P3	TP	$^{1.50}/_{24.00}$=6.25%	619,700.00	38,731.25

					Opened annular and checked fluid level in annulus -took 22 bbls to fill hole. Commenced pumping and working string with annular open and established returns.								
5-Sep-08	1030	1130	1	4,648.00	Continued circulating at 5.5 BPM and 300 psi. Diesel contamination in brine and weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Circulated 100 bbls and observed rapid pressure increase.	TP	P22	F4	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83
5-Sep-08	1130	1230	1	4,648.00	Work string up and down and cleared circulation route around packers.	TP	P22	F4	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83
5-Sep-08	1230	1530	3	4,648.00	Continued circulating at 3.5 BPM & 300 psi. Slight diesel contamination in returns and brine weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Pit volumes holding steady for the first 710 bbls then observed losses while pumping the last 60 bbls of circulation.	TP	P22	F4	TP	$^{3.00}/_{24.00}$=12.50%	619,700.00	77,462.50
5-Sep-08	1530	1630	1	4,648.00	Flow checked well: down-hole losses 9 bbls / hour. (Pulled and racked back one stand drill pipe)	TP	P22	G14	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83
5-Sep-08	1630	1800	1.5	4,648.00	Pumped 120 bbls HEC pill and displaced with 230 bbls brine. (Lost 80 bbls)	TP	P22	F3	TP	$^{1.50}/_{24.00}$=6.25%	619,700.00	38,731.25
5-Sep-08	1800	1830	0.5	4,648.00	Flow checked well. Losses at 6 bbls / hour.	TP	P22	G14	TP	$^{0.50}/_{24.00}$=2.08%	619,700.00	12,910.42
5-Sep-08	1830	2000	1.5	4,648.00	POOH with tubing hanger to surface. Serviced THRET, cut control lines and laid out THRET and tubing hanger.	TP	P22	G8	TP	$^{1.50}/_{24.00}$=6.25%	619,700.00	38,731.25
5-Sep-08	2000	2030	0.5	4,648.00	POOH with completion string from 2478m - 2466m. Observed backflow from string increasing, installed TIW valve and closed same.	TP	P22	G8	TP	$^{0.50}/_{24.00}$=2.08%	619,700.00	12,910.42
5-Sep-08	2030	2130	1	4,648.00	Lined up and pumped 30 bbls 11.00ppg brine down string and chased with 10 bbls 10.8 ppg brine. Flow checked. No backflow observed from string.	TP	P22	G8	TP	$^{1.00}/_{24.00}$=4.17%	619,700.00	25,820.83
5-Sep-08	2130	2400	2.5	4,648.00	POOH with completion string to 2378m. Laid out TRSSV at 2428m.	TP	P22	G8	TP	$^{2.50}/_{24.00}$=10.42%	619,700.00	64,552.08
6-Sep-08	0	2000	20	4,648.00	POOH with completion string and laid out same. Average joints laid out per hour was 10 joints.	TP	P22	G8	TP	$^{20.00}/_{24.00}$=83.33%	619,200.00	516,000.00
6-Sep-08	2000	2200	2	4,648.00	Made up Bore protector running tool and bore protector, RIH and set same in SST. POOH and racked back running tool in derrick.	TP	P22	G13	TP	$^{2.00}/_{24.00}$=8.33%	619,200.00	51,600.00
6-Sep-08	2200	2400	2	4,648.00	RIH picking up 12 jts HWDP - picked up and made up BOP test tool to HWDP and continue RIH							
7-Sep-08	0	500	5	4,648.00	RIH with BOP test plug set same in SST at 92.72m with 25k down. Flushed lines via Halliburton with 11.00 ppg brine and tested lines to 4000psi. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up and set 25k down on test plug. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up and made up test string to Top Drive. Set 35k down on test plug - observed test assembly traveled down 6 inches from previous mark.	TP	P22	G13	TP	$^{1.50}/_{24.00}$=6.25%	619,200.00	38,700.00
7-Sep-08	500	1030	5.5	4,648.00	Rigged up Schlumberger wire line and RIH with 9.50in gauge ring/junk basket to 2482m. POOH - laid out tools and rigged down Schlumberger wireline.	TP	P22	E4	TP	$^{5.50}/_{24.00}$=22.92%	619,200.00	141,900.00
7-Sep-08	1030	1130	1	4,648.00	RIH with Bore Protector pulling tool and engaged same on Bore Protector with 9k down. Pulled Bore Protector with 11k overpull. POOH - laid out Bore Protector and running tool.	TP	P22	G13	TP	$^{1.00}/_{24.00}$=4.17%	619,200.00	25,800.00
7-Sep-08	1130	1200	0.5	4,648.00	Cleared rig floor of equipment.	TP	P22	G24	TP	$^{0.50}/_{24.00}$=2.08%	619,200.00	12,900.00
7-Sep-08	1200	1230	0.5	4,648.00	Serviced Top Drive							
7-Sep-08	1230	1330	1	4,648.00	Rigged up to run completion. Made up well contol assemblies with water bushings for 5.50 in and 7.00in tubing.	TP	P22	C4	TP	$^{1.00}/_{24.00}$=4.17%	619,200.00	25,800.00
7-Sep-08	1330	1830	5	4,648.00	Held JSA. Ran 5.50in completion string and assemblies as per tally to 359m. Checked AHC packer assembly and installed 7 shear screws.	TP	P22	C4	TP	$^{5.00}/_{24.00}$=20.83%	619,200.00	129,000.00
7-Sep-08	1830	1930	1	4,648.00	Changed out elevators.	TP	P22	C4	TP	$^{1.00}/_{24.00}$=4.17%	619,200.00	25,800.00

					Picked up and made up assembly LT4-8B and LT3-9B and installed control lines and tested Gauge to Gauge mandrel to 5,500 psi.								
7-Sep-08	1930	2400	4.5	4,648.00	Continued to RIH with 7.00in completion string to 965m.	TP	P22	C4	TP	$^{4.50}/_{24.00}$=18.75%	619,200.00	116,100.00
8-Sep-08	0	1500	15	4,648.00	Continue RIH with 5.50/7.00in completion string from 965m to 2570 m	TP	P22	C4	TP	$^{15.00}/_{24.00}$=62.50%	666,300.00	416,437.50
8-Sep-08	1500	1600	1	4,648.00	Broke circulation and circulated at 1.4 bbls/min at 25psi - observed returns in trip tank - shut down pumps Stung into PBR at 2574.76m with 10k down - confirmed seals holding with 180 psi on tubing string - no returns to trip tank - shut down pumps.	TP	P22	C4	TP	$^{1.00}/_{24.00}$=4.17%	666,300.00	27,762.50
8-Sep-08	1600	1800	2	4,648.00	POOH to installed TRSSSV at 242.5m MDRT.	TP	P22	C4	TP	$^{2.00}/_{24.00}$=8.33%	666,300.00	55,525.00
8-Sep-08	1800	2130	3.5	4,648.00	Picked up and install TRSSV at 242.5 MDRT - installled control line and tested same to 4,000psi. Observed leaks in test system while testing TRSSSV - changed out 2 needle valves.	TP	P22	C4	TP	$^{3.50}/_{24.00}$=14.58%	666,300.00	97,168.75
8-Sep-08	2130	2400	2.5	4,648.00	Continued RIH with 7.00in tubing to 2475m.	TP	P22	C4	TP	$^{2.50}/_{24.00}$=10.42%	666,300.00	69,406.25
9-Sep-08	0	430	4.5	4,648.00	Picked up and made up tubing hanger. Terminated TRSSSV control lines through tubing hanger and pressure tested control lines to 4,000psi. Baker Hughes installed and tested Production Quest electricial line connection through tubing hanger to 7,500psi. Performed pre submergence checks.	TP	P22	C4	TP	$^{4.50}/_{24.00}$=18.75%	974,200.00	182,662.50
9-Sep-08	430	500	0.5	4,648.00	Installed split bushing into rotary table and landed out tubing hanger at rotary table.	TP	P22	C4	TP	$^{0.50}/_{24.00}$=2.08%	974,200.00	20,295.83
9-Sep-08	500	630	1.5	4,648.00	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger. Performed pre submergence checks.	TP	P22	C4	TP	$^{1.50}/_{24.00}$=6.25%	974,200.00	60,887.50
9-Sep-08	630	800	1.5	4,648.00	Ran landing string & completion from 2477m to 2570.8m. ROV opened CSM & TST rotary valves including PMV, XOV, AAV and AMV. Landed tubing hanger with 30k lbs down - landed off tubing string weight and held landing string weight. Closed off AAV and AMV.	TP	P22	C4	TP	$^{1.50}/_{24.00}$=6.25%	974,200.00	60,887.50
9-Sep-08	800	1000	2	4,648.00	Locked and tested tubing hanger to 500psi/5min, 4000psi/10min. with landing string at neutral weight. Rotated tubing hanger 3.8 turns cw to lock hanger. Rotated 3.8 turns ccw and performed o/pull of 130klbs.	TP	P22	C4	TP	$^{2.00}/_{24.00}$=8.33%	974,200.00	81,183.33
9-Sep-08	1000	1400	4	4,648.00	Pressure tested SST valves. Rigged up 30ft Expro bales, held PJSM and made up flowhead.	TP	P22	P1	TP	$^{4.00}/_{24.00}$=16.67%	974,200.00	162,366.67
9-Sep-08	1400	1600	2	4,648.00	Made up co-flex hose and chicksan lines to flowhead, hooked up Schlumberger control hoses to flowhead.	TP	P22	G1	TP	$^{2.00}/_{24.00}$=8.33%	974,200.00	81,183.33
9-Sep-08	1600	1800	2	4,648.00	Held PJSM, flushed surface lines and tested flowhead master valve against Expro choke valve to 500/5500psi for 10min. Tested down annulus against annular/tie-back seal to 300psi.	TP	P22	P1	TP	$^{2.00}/_{24.00}$=8.33%	974,200.00	81,183.33
9-Sep-08	1800	1930	1.5	4,648.00	Pressure observed on tubing: 120psi and increasing by 1psi/min. Pressure caused by gas influx due to dropping brine level inside tubing. Rigging up slickline equipment.	TP	P22	P3	TP	$^{1.50}/_{24.00}$=6.25%	974,200.00	60,887.50
9-Sep-08	1930	2300	3.5	4,648.00	Held PJSM & rigged up slickline lubricator and BOP's. Made up tool string, installed lubricator and tested same to 4000psi.	TP	P22	G1	TP	$^{3.50}/_{24.00}$=14.58%	974,200.00	142,070.83
9-Sep-08	2300	2400	1	4,648.00	Equalised pressure between flowhead and tubing (334psi), RIH and retrieved isolation sleeve. Observed pressure drop on tubing from 334psi to 80psi when sleeve was pulled - pressure vented into annulus. Closed annular and observed pressures: SITHP = 80 psi, SICP = 0 psi.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	974,200.00	40,591.67
10-Sep-08	0	130	1.5	4,648.00	POOH with hanger protection sleeve. Closed master valve on flowhead. Laid out protection sleeve. Made up short wireline protection sleeve.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00
10-Sep-08	130	230	1	4,648.00	Pressure tested lubricator to 4000 psi / 5 mins. RIH and set short wireline protection sleeve. POOH with running tool. Closed master valve on flowhead. Laid out running tool. SITHP = 309 psi.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	623,600.00	25,983.33
10-Sep-08	230	400	1.5	4,648.00	Made up 4.5in GS pulling tool. Pressure tested lubricator to 4000 psi / 5 mins. RIH and attempted to pull 4.562in RQ lock from SSSV and POOH.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00

					Closed master valve on flowhead. Did not recover RQ lock from SSSV. SITHP = 407psi								
10-Sep-08	400	530	1.5	4,648.00	Made up lubricator and pressure tested to 4000 psi / 5 minutes. Opened master valve - SITHP = 630 psi. Bled back SITHP from 630 psi to 200 psi. Commenced RIH with GS pulling tool on slickline to top of SSSV. Stop running slickline. SITHP = 260 psi.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00
10-Sep-08	530	600	0.5	4,648.00	Stop running slickline. SITHP = 260 psi. Lined up to lubricate 10.9 ppg brine into tubing. Commenced pumping 10.9 ppg brine into tubing at 0.2 BPM with 350 psi THP.	TP	P22	C1	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	600	630	0.5	4,648.00	Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2 bpm. THP increased from 350 psi to 407 psi.	TP	P22	F3	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	630	700	0.5	4,648.00	Latched and recovered RQ Lock from SSSV & POOH to surface.	TP	P22	C1	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	700	730	0.5	4,648.00	THP = 416 psi. Bled off at Expro choke to 350 psi. Dry gas returns. Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2BPM. THP increased from 390 psi to 440 psi.	TP	P22	F3	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	730	830	1	4,648.00	Closed master valve on flow-head and SSSV. Bled off lubricator and removed tool string with RQ Lock. Made up sliding sleeve shifting tool string. Pressure tested lubricator. Opened master valve and SSSV. SITHP = 440 psi.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	623,600.00	25,983.33
10-Sep-08	830	900	0.5	4,648.00	Commenced RIH with sliding sleeve shifting tool to sliding sleeve at 2475 m. (While RIH with slick line bled off THP via Expro choke to 350 psi - 80% gas returns).	TP	P22	C1	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	900	930	0.5	4,648.00	THP = 376 psi. SICP = 0 psi. Opened sliding sleeve with slick line. Observed gradual rise in THP from 376 psi to 397 psi, then leveled off at 394 psi. Confirmed sliding sleeve opened with 6 passes through sleeve with tool.	TP	P22	C1	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	930	1030	1	4,648.00	POOH with shifting tool on slick line. Pulled tool string into lubricator and closed flow head swab valve.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	623,600.00	25,983.33
10-Sep-08	1030	1200	1.5	4,648.00	Attempted to reverse circulate pumping 10.9 ppg brine down annulus and hold 450 psi back pressure with Expro choke on tubing. Pumped 26 bbls at 2 bpm - THP increased from 397 psi to 403 psi. Suspected losses down-hole. Opened drilling choke and confirmed no flow on annulus.	TP	P22	F3	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00

					Opened Annular - took 43 bbls to fill riser. Observed TT circulating across top of well - down-hole losses 2.5 bbls / hour.								
10-Sep-08	1200	1330	1.5	4,648.00	Commenced bleeding off THP at Expro Choke in stages and monitored tubing filling from annulus via sliding sleeve. THP fell in stages after each bleed off. Reduced THP from 425 psi to 0 psi and filled tubing string with 31 bbls brine via sliding sleeve from annulus. Dry gas returns to Expro Choke throughout bleed off. Flow checked: no flow on tubing at open Expro choke (no brine either), annulus holding steady.	TP	P22	P3	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00
10-Sep-08	1330	1400	0.5	4,648.00	Closed annular. Lined up and reverse circulated brine down annulus and up tubing via the sliding sleeve. Pumped 5 bbls and got brine returns back to Expro choke. Shut down. Opened annular. Flow checked well - ok.	TP	P22	F3	TP	$^{0.50}/_{24.00}$=2.08%	623,600.00	12,991.67
10-Sep-08	1400	1630	2.5	4,648.00	Lined up and circulated 300 bbls 10.9 ppg filtered inhibited brine (with 1% by volume RCW 24/100 Corrosion Inhibitor - double concentration) down tubing string with cement unit at 3 bpm and 75 psi and taking returns back to mud pits.	TP	P22	F3	TP	$^{2.50}/_{24.00}$=10.42%	623,600.00	64,958.33
10-Sep-08	1630	2130	5	4,648.00	Removed lubricator and laid out sliding sleeve tool. Made up 4.562in XX plug and tool string. Installed lubricator and pressure tested to 4000 psi. RIH and set plug at 2450m, POOH. Closed FMV & FSV, broke off lubricator & changed out toolstring to 4.562in retrieval tool. Installed lubricator & pressure tested same to 5500psi.	TP	P22	C1	TP	$^{5.00}/_{24.00}$=20.83%	623,600.00	129,916.67
10-Sep-08	2130	2300	1.5	4,648.00	Lined up tubing string and tested same against XX plug @ 2450m to 500psi/5min and 5500psi/10min OK. Closed SSSV & bled of pressure above SSSV to 1000psi to perform inflow test for 15min OK. Equalised pressure and opened SSSV.	TP	P22	P1	TP	$^{1.50}/_{24.00}$=6.25%	623,600.00	38,975.00
10-Sep-08	2300	2400	1	4,648.00	Opened FSV. RIH with 4.562in GR plug retrieval tool to latch on to XX plug @ 2450m.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	623,600.00	25,983.33
11-Sep-08	0	100	1	4,648.00	Continued RIH with 4.562in GR plug retrieval tool, attempted to latch onto plug and POOH to surface - no success.	TP	P22	C1	TP	$^{1.00}/_{24.00}$=4.17%	709,900.00	29,579.17
11-Sep-08	100	230	1.5	4,648.00	Broke off lubricator and laid down 4.562in GR tool. Made up GS tool (GR with out GU adapter), installed lubricator and pressure tested same to 4000psi OK.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	709,900.00	44,368.75
11-Sep-08	230	400	1.5	4,648.00	RIH with GS toolstring, latch on to plug at 2450m and POOH to surface.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	709,900.00	44,368.75
11-Sep-08	400	530	1.5	4,648.00	Broke off lubricator, laid down 4.562in XX plug and changed out to shifting tool string. Installed lubricator & pressure tested same to 4000psi.	TP	P22	C1	TP	$^{1.50}/_{24.00}$=6.25%	709,900.00	44,368.75
11-Sep-08	530	800	2.5	4,648.00	Held PJSM and pumped 205bbl diesel down tubing string followed by 3bbl water to flush surface lines. Final SITHP = 1040psi.	TP	P22	F3	TP	$^{2.50}/_{24.00}$=10.42%	709,900.00	73,947.92
11-Sep-08	800	1000	2	4,648.00	RIH with shifting tool on slickline to 2476m and shift sliding sleeve into closed position. Observed 30psi jump on SITHP to 1070psi. POOH with shifting tool.	TP	P22	C1	TP	$^{2.00}/_{24.00}$=8.33%	709,900.00	59,158.33
11-Sep-08	1000	1300	3	4,648.00	Prepared 4.313in RX plug, loaded same into lubricator and tested lubricator to 3000psi OK. RIH RX plug to R Nipple at 2457m, latched plug and released R/tool. POOH, broke lubricator, made up GS pulling tool, re-installed lubricator and tested same to 300psi OK.	TP	P22	C1	TP	$^{3.00}/_{24.00}$=12.50%	709,900.00	88,737.50
11-Sep-08	1300	1430	1.5	4,648.00	Pressured up tubing from cement unit in stages up to 5500psi to set packer. Held 5500psi for 30min OK and then bled off pressure to 850psi (last stabilised SITHP before pressuring up tubing to set packer).	TP	P22	C3	TP	$^{1.50}/_{24.00}$=6.25%	709,900.00	44,368.75
11-Sep-08	1430	1530	1	4,648.00	Closed annular, rigged up with cement unit and pumped down kill line in stages to 3800psi and held pressure for 30min OK. Bled off annular pressure to 0psi.	TP	P22	C3	TP	$^{1.00}/_{24.00}$=4.17%	709,900.00	29,579.17
11-Sep-08	1530	1700	1.5	4,648.00	RIH to 4.313in RX plug. Found plug to be at 2473m instead of 2457m. Latched onto plug, equalised pressure and attempted to retrieve same - unsuccessful. POOH same. Rigged down lubricator and recovered pulling tool.	TP	P24	C1	TP	$^{1.50}/_{24.00}$=6.25%	709,900.00	44,368.75

11-Sep-08	1700	2030	3.5	4,648.00	Made up GS pulling tool, tested lubricator to 4000psi, RIH and latched on to plug. Jarred on plug and sheared off pins on tool. POOH GS tool.	TP	P24	C1	TP	$^{3.50}/_{24.00}$=14.58%	709,900.00	103,527.08
11-Sep-08	2030	2300	2.5	4,648.00	Cut off 20m of slick line, serviced and re-dressed GS tool, set jarring capacity to 800lbs	TP	P24	G11	TP	$^{2.50}/_{24.00}$=10.42%	709,900.00	73,947.92
11-Sep-08	2300	2400	1	4,648.00	Made up GS tool with prong removed, loaded in lubricator, tested lubricator to 4000psi.	TP	P24	C1	TP	$^{1.00}/_{24.00}$=4.17%	709,900.00	29,579.17
12-Sep-08	0	230	2.5	4,648.00	Completed pressure test on lubricator to 4000 psi. RIH with GS tool with inner prong removed and tagged top of 4.313in plug at 2473m. Observed tool passing through 4.313in nipple at 2457m. POOH tool and removed same from lubricator.	TP	P22	C3	TP	$^{2.50}/_{24.00}$=10.42%	4,461,700.00	464,760.42
12-Sep-08	230	600	3.5	4,648.00	Loaded GS tool and jar, with upgraded capacity of 800 lbs, into lubricator and tested lubricator to 4000 psi. RIH tool on slick line. Latched onto plug and jarred on same. Plug appeared to come free with good indication of additional weight on slick line. Worked plug and tool through 4.313in nipple at 2457m. POOH to surface - 4.313in RX plug recovered - No apparent damage to plug.	TP	P22	C3	TP	$^{3.50}/_{24.00}$=14.58%	4,461,700.00	650,664.58
14-Sep-08	600	1500	9	4,648.00	Assessed the situation & discussed with shore support. Opened annulus valve, pressured up above SSSV to 3400 psi and then bled off. Operated SSSV and attempted to repeat inflow test on SSSV without success (2 attempts).	TP	P21	P1	DH	$^{8.50}/_{24.00}$=35.42%	619,600.00	219,441.67
14-Sep-08	1500	1630	1.5	4,648.00	Pressured above SSSV to 3400psi via the annulus. Bullheaded 2bbls fluid through the SSSV flapper into the well. Bled off pressure using the rig choke to 370psi (Xtree) and obtained successful inflow test on SSSV - pressure increased by 70psi over a 62 minute (from 200psi) period.	TP	P21	P1	DH	$^{1.50}/_{24.00}$=6.25%	619,600.00	38,725.00
15-Sep-08	630	930	3	4,648.00	M/U ITC onto MTHRT. RIH on 7in tubing to 1m above tubing hanger. Spotted 30 litres of Transaqua HT2 into top cavity of SST. Landed ITC in tubing hanger. Closed annular preventer and pressured up to 3000 psi to assist landing of ITC. Attempted to lock ITC in place, however only able to achieve 1 turn of running string (3.5 to 4.5 turns required).	TP	P21	C3	DH	$^{3.00}/_{24.00}$=12.50%	650,000.00	81,250.00
15-Sep-08	930	1300	3.5	4,648.00	Picked up ITC 1m above tubing hanger and then repeated attempt to land & latch ITC without succes. POOH and inspected ITC / running tool. ITC appeared to have been in fully landed position, however junk seal was missing from the running tool and there was (mud?) solids type debris on ITC & running tool. Removed wireline guide from bottom of ITC. Prepared ITC & redressed MTHRT for re-running.	TP	P21	C3	DH	$^{3.50}/_{24.00}$=14.58%	650,000.00	94,791.67
15-Sep-08	1300	1400	1	4,648.00	RIH with 10in soft bullnose on 5.5in drill pipe to 92m. Jetted tubing hanger with seawater. Pumped a total of 600 bbls at 1500 gpm. POOH and laid out jetting bullnose.	TP	P21	F3	DH	$^{1.00}/_{24.00}$=4.17%	650,000.00	27,083.33
16-Sep-08	230	1330	11	4,648.00	WOW - winds of 50knts gusting to 60knts. Unable to continue working on BOP, standby boat unable to provide Fast Rescue Craft cover. While WOW, rigged down drill floor hoses and flowline, worked on equipment in pit room & shakers, broke down saver sub and both I-BOP's.	TP	P21	G25	WOW	$^{11.00}/_{24.00}$=45.83%	652,100.00	298,879.17
17-Sep-08	500	600	1	4,648.00	Unable to rotate elevators/bails during laying down operations - troubleshot problem.	TP	P21	G9	RE	$^{1.00}/_{24.00}$=4.17%	2,357,700.00	98,237.50

877 36.552

TOTAL COST DUE TO NPT: 41,001,496.91

CPI # 300113953

Incident Investigation Report

Cementing Services

Equipment: Cement Head

Problem: Premature Release of SSR Plug

Location: West Triton, Bass Strait

Date: July 14th, 2008

Submitted by:
Allan Hatfield (Cementing Services Coordinator)
Garry Unsworth (Australasian Quality Manager)

Distribution:
Jason Jeow

HALLIBURTON

Section 1

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Section 2

Introduction

A cementer and assistant had been rigging up a cement head and equipment onboard the West Triton, operating for ADA in the Bass Strait. This was ahead of performing a twin plug SSR 10 ¾" casing job on the Longtom #4 well on July 14th, 2008.

During the pumping of the spacer prior to performing the cement job there was an unexpected pressure spike that resembled an SSR top plug shearing. The situation was assessed and a decision was taken to pump the casing volume in an attempt to land the suspected sheared SSR top plug. Upon the casing capacity being pumped a bump pressure was evident, as a result the job was suspended. Upon rigging down and checking the SSR cement head it was found that indeed the dart was missing, confirming the SSR top plug had sheared.

Section 3

Investigation

An investigation into the incident took place in the period following the event, once the cement head had been returned to town and cementer and assistant had returned home. A full inspection was conducted by the Cementing Coordinator in Melbourne, Allan Hatfield. The inspection of the SSR head in question found the dart and ball release plunger assemblies we're positioned in their wrong reciprocal. The ball plunger had been used in the dart reciprocal and visa versa. Ball plungers are shorter meaning if used in the dart reciprocal it will not protrude enough into the head to provide a sufficient hold of a dart.

As a result of these findings a Taproot investigation was conducted to determine how this came about and identify the root causes of the incident.

Please see Appendix C – The Taproot Chart which shows the sequence of events and the causal factor identified.

Just to clarify as per the Taproot procedure, the Snap Chart only documents the causal factors of the incident, not the root cause(s.). Each causal factor is then analysed to find the root cause(s.) The root causes assigned from each causal factor are listed in below. The text also details our information from each causal factor which led to the identification of a root cause.

1. Causal factor - Plungers may have been reversed during the PCS service

The procedure was insufficient to identify if the plungers were reversed. A more detailed procedure may have prevented this, including quantifying the required extension of the plungers.

Root Cause
Individual performance
Procedures
Followed incorrectly
Details NI

The Ball plunger was broken. Without the ball ring, the ball plunger becomes much less distinguishable from a dart plunger. Further more there is no external difference in the plungers appearance to readily identify the reversal. No labels, markings or other methods or devices were to distinguish between the plungers were used

Root Cause
Individual Performance
Human Engineering
Human – Machine Interface
Labels NI

2. Causal Factor - No Inspection or verification of the serviced equipment prior shipment to the rig

A pre shipment inspection at the Halliburton facility was not performed due to the cement head being urgently required on the rig.

Root Cause
Management System
Should an independent quality control check caught the problem
No Inspection

Hold point not performed

3. Causal factor - No repair of the broken ball plunger was performed by either PCS or Halliburton

The ball plunger and missing ball ring remained unrepaired even after being serviced. PCS may not have had the required parts to do this and the urgency for the cement head to be returned to the rig prevented any inspection or repairs at Halliburton. If the ball plunger had been repaired then the reversal would have been noticed during this time. The standard procedure for repair was not followed due to time constraints and the lack of alternative equipment.

Root Cause
Equipment Difficulty
Equipment was defective
Quality Control
No Inspection
Hold point not performed

Root Cause
Management System
SPAC's (Standards, Policies, Admin Controls)
SPAC Not Used
No way to implement

4. Causal factor - Plungers may have been reversed during the rig service

Similar to causal factor 1 - A more detailed procedure may have prevented the reversal, including quantifying the required extension of the plungers

Root Cause
Individual performance
Procedures
Followed incorrectly
Details NI

The Ball plunger was broken. Without the ball ring, the ball plunger becomes much less distinguishable from a dart plunger. Further more there is no external difference in the plungers appearance to readily identify a reversal either. No labels or other methods or devices to distinguish between the plungers were used

Root Cause
Individual Performance
Human Engineering
Human – Machine Interface
Labels NI

5. Causal factor - The reversal of the plunger was not identified during the pre-job inspection

Causes also include those already identified in Causal factors 1 and 4.

a) Also an abnormal number of turns on plunger of 8 turns vs. a standard of 11 3/4 were not identified by the cementer as indicating a problem. If the checklist or procedure contained a prompt on the correct expected number of turns then it may have been more readily recognized as an issue.

Root Cause
Individual performance
Procedures
Followed incorrectly

Details NI

b) There is no documented visual inspection procedure.

There is no documented visual inspection procedure which provided quantitative information on how far the dart plunger should extend. The visual inspection by both the company man and cementer failed because they both wrongly assumed the plunger was sufficiently extended to prevent the dart for being release. A definitive measurement would have removed the need for a subjective (and wrong) judgment to be made.

Root Cause
Individual performance
Procedures
Followed incorrectly
Details NI

Root Cause
Individual Performance
Human Engineering
Human – Machine Interface
Controls NI

Section 4

Conclusion & Recommendations

Conclusion

The probable primary causes identified in this incident were that the procedure for servicing this equipment required more specific detail and there was no quantitative method of assessing if the dart plunger clearance inside the cement head was sufficient to prevent the dart from being released prematurely. Visual inspections by PCS or by the cement crew onboard the rig during the cement head servicing and by both the cementer and the Company man during the pre-job inspection failed to identify the problem as the assessment was purely subjective. Although the plunger extension looked sufficient to hold the dart in place, there was probably a lack of appreciation of the vacuum generated by circulation through the head and its ability to suck the dart passed the plunger.

1. Causal factor - Plungers may have been reversed during the PCS service

Corrective Action - The service procedure for the cement head should be reviewed, specifically for the amount of detail required to prevent any reoccurrence of this incident, including a reference to the possibility of the plungers being reversed. These procedures should also be supplied to any third party performing servicing on our equipment.

Responsibility: Cementing PDC
Required by: 30/09/08

2. Causal Factor - No Inspection or verification of the serviced equipment prior shipment to the rig

Corrective Action - A review of our inspection procedures when in receipt of equipment from a third party should be conducted to ensure any servicing conducted by a third party is able to satisfy our own requirements and specifications.

Responsibility: Cementing Coordinator, Cheltenham
Required by: 30/09/08

3. Causal factor - No repair of the broken ball plunger was performed by either PCS or Halliburton

Corrective Action - A review of our maintenance procedures should be conducted to ensure that any broken or damaged equipment is repaired before being sent to the rig (even when urgently required.)

Responsibility: Cementing Coordinator, Cheltenham
Required by: 30/09/08

4. Causal factor - Plungers may have been reversed during the rig service

Corrective Action - See Corrective Action for item 1

5. Causal factor - The reversal of the plunger was not identified during the pre-job inspection

Corrective Action – Review the checklist for SSR plug sets. The correct number of plunger turns to be added to the checklist to identify different plunger types, questioning the type identified.

Responsibility: Cementing PDC

Required by: 30/09/08

Corrective Action – The visual inspection procedure should be documented. It should also include specific information on the required plunger clearance, perhaps through the use of a measuring device such as a caliper to ensure any subjectivity is removed from the assessment.

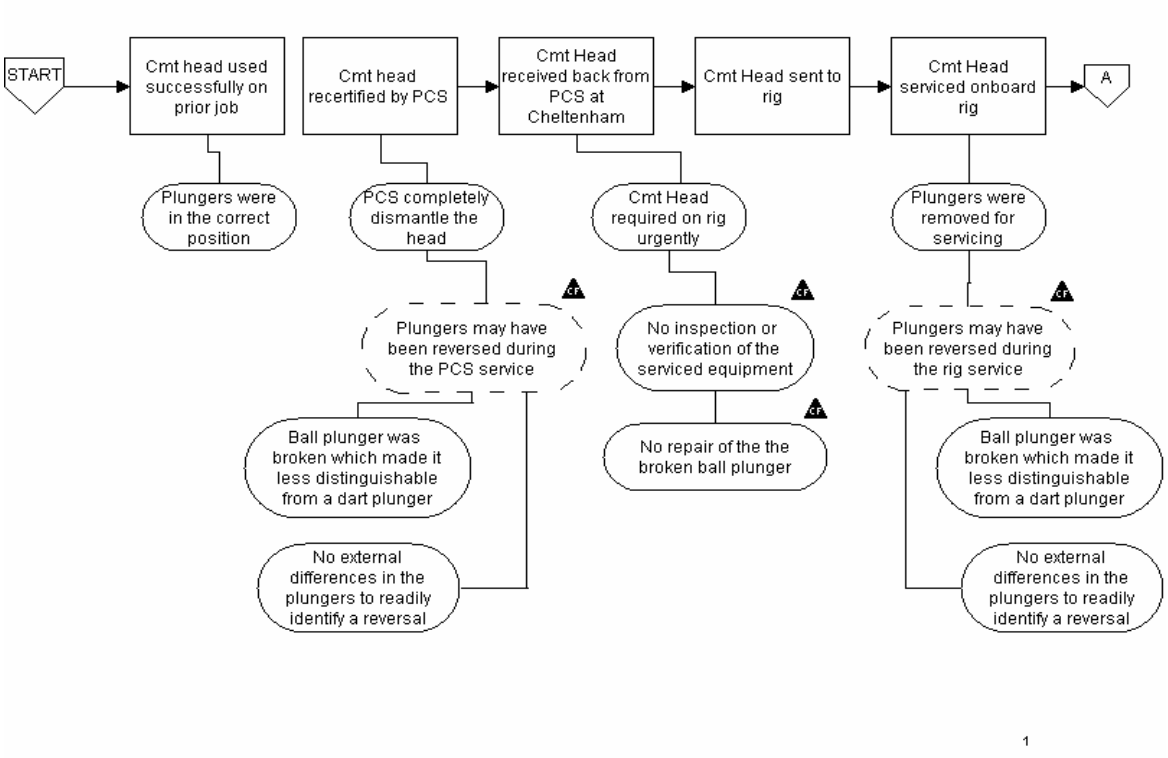
Responsibility: Cementing PDC
Required by: 30/09/08

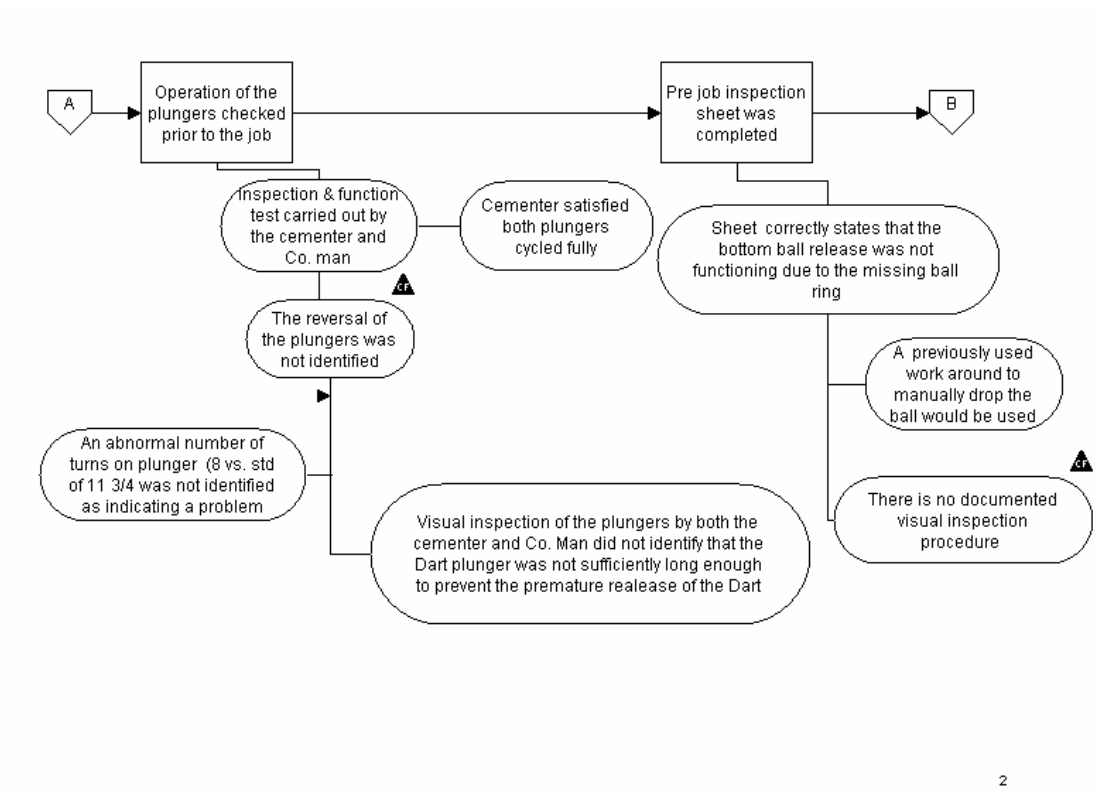
Corrective Action – Review other methods of differentiating between the two types of plungers externally, such as labels, tags or different coloured paint.

Responsibility: Cementing PDC
Required by: 30/09/08

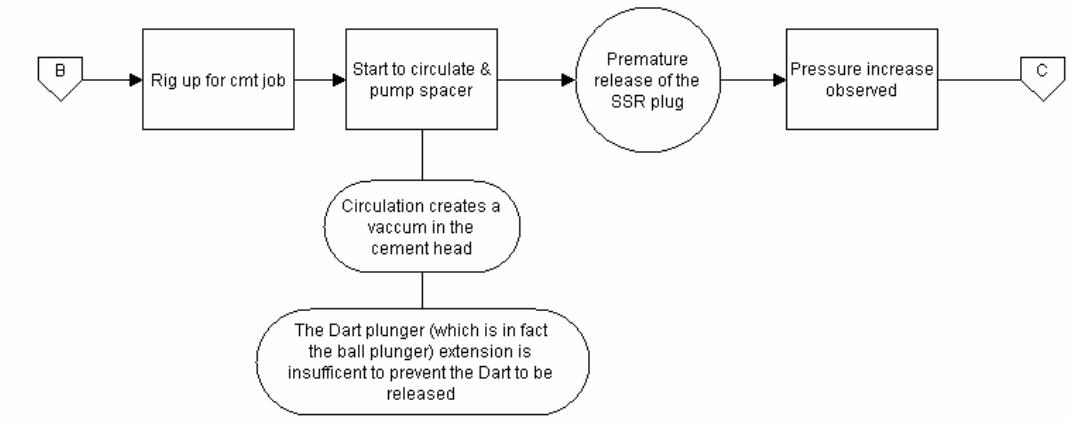
Appendix A

TapRooT® SnapCharT®

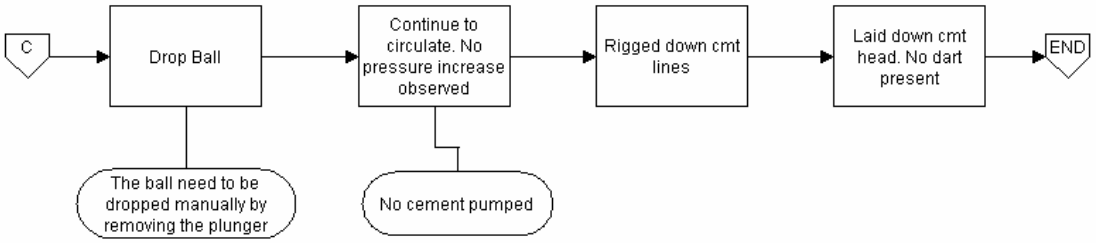



A
Operation of the plungers checked prior to the job
Pre job inspection sheet was completed
B
Inspection & function test carried out by the cementer and Co. man
Cementer satisfied both plungers cycled fully
Sheet correctly states that the bottom ball release was not functioning due to the missing ball ring
CF
The reversal of the plungers was not identified
A previously used work around to manually drop the ball would be used
An abnormal number of turns on plunger (8 vs. std of 11 3/4 was not identified as indicating a problem
Visual inspection of the plungers by both the cementer and Co. Man did not identify that the Dart plunger was not sufficiently long enough to prevent the premature realease of the Dart
CF
There is no documented visual inspection procedure

2


B
Rig up for cmt job
Start to circulate & pump spacer
Premature release of the SSR plug
Pressure increase observed
C
Circulation creates a vaccum in the cement head
The Dart plunger (which is in fact the ball plunger) extension is insufficent to prevent the Dart to be released

3


C
Drop Ball
Continue to circulate. No pressure increase observed
Rigged down cmt lines
Laid down cmt head. No dart present
END
The ball need to be dropped manually by removing the plunger
No cement pumped

4

Appendix B
Incident Photographs

Photo 1 - Difference in plunger length between a ball and dart type

Photo 2 - Difference in plunger length between a ball and dart type. Note external assemblies Look the same.

Photo 3 - View inside the cement head looking upward towards the dart plunger and dart.
The wrong plunger has insufficient length to prevent release of the dart.

Photo 4 - Dart

-

Appendix C
Pre-Job Checklist for SSR Plug Sets

Pre-Job Checklist for SSR Plug Sets

SSR plug part no. 10100 2227 NW **Plug OD (Fig. 3)** 10 3/4"
Casing size 10 3/4 55.5 ppf **Casing weight** 55.5 ppf.
Releasing dart part no. 1000 74513 **Nose OD (Fig. 4)** 1.8"
Wiper OD's: Wiper 1 5.16" **Wiper 2** 5.00" **Wiper 3** 3.58" **Wiper 4** 5.24"
Releasing sleeve ID (Fig. 3) 1.99 **Releasing Dart Shoulder OD (Fig. 4)** 2.5"
Is shoulder OD larger than sleeve ID? (Yes) " No "
Releasing ball part no. 1000204 70 **Ball OD** 1.3/4"
Landing joint ID _____ **Running tool type** _____
Plug container type _____
Plug release indicator working? (Yes) " No "
Ball release plunger
Number of turns out Not Turns in Working
Handle lock working? Yes " (No) "
Ball loaded? Yes " (No) "
Plug release plunger
Number of turns out 8 Turns in 8
Handle lock working? Yes " No " Taped up
Releasing dart loaded? (Yes) " No "
Manifold
LO TORC® valves working? (Yes) " No "
Valves closed to test lines? (Yes) " No "
Equalizer valve no. (Fig. 2) _____
Correct box and pin thread? (Yes) " No "
Is rubber in good shape? (Yes) " No "
Is o-ring in ID of lower mandrel? (Yes) " No "
Does swivel turn freely? (Yes) " No "
Crossover subs
Crossover box and pin threads? (Yes) " No "
Will ID allow ball and plug to pass? (Yes) " No " 2 13/16 2 7/8
Any square shoulders to hang up ball or plugs? Yes " (No) "
Float Equipment-Vendor name _____
Are SSR plugs compatible with float equipment (Yes) " No "
TIW or Halliburton Isolation Valve
Will ID allow ball and dart to pass? (Yes) " No "
Does valve turn freely? (Yes) " No "
Drillpipe
Will ID allow ball and plug to pass? (Yes) " No " (Min 2.5)

Inspect bumper subs, adapters, installation tools, hangers, or other equipment to ensure ball and plug passage. Done

Halliburton Energy Service Representative Nigel Lucas

Date 14 07 2006

Figure 2 – SSR Plug System Swivel Equalizer

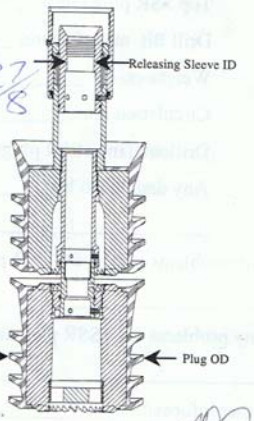


Figure 3 - SSR Plug Set

7

Report Title: Post Job Report

Report Number: SAL-019

BOT FA Reference:
(if applicable)

Client / Operator: Nexus Energy, via ADA
(if applicable)

Project / Well name: Longtom-4

Product Line: Open Hole Completions

Originating Location: Sale

Approved Distribution List:
BOT: I. Somerville, I. Rebullo
ADA: M. Siegman

We, the undersigned are fully aware of the content of this report and approve the release of same.

Rev	Date	Comments	Region Manager Approval	Area/District Manager Approval	Region Product Line Manager Approval	QA Region Manager Review
0	27-Nov-08	Baker Oil Tools	N/A	A. Orchard	N/A	N/A

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Summary

A 7” hanger-less liner was deployed on 13-Aug-08 for Nexus Energy in well Longtom-4 on rig West Triton managed by Australian Drilling Associates. The liner reached TD but encountered difficulties during cementation. Remedial cementing operations were subsequently conducted to obtain acceptable isolation.

This report documents the liner deployment and offers suggestions to minimize cementation difficulties for future liner deployments.

Brief Job Description

Refer to Appendices for additional information

The 7" hanger-less liner was configured to be deployed in a horizontal open hole and dropped off without cement isolation. The running tools were to be released upon plug bump on the landing collar.

Although the 7" hanger-less liner was originally planned to be un-cemented, wellbore conditions dictated that cementing was required and changes were made to the equipment hook-up to accommodate. The final hook-up consisted of:

Sales Items

- 7-5/8" HRD Setting Sleeve
- Crossover to 7" liner
- 7" liner
- 7" Shoe Track, consisting:
    - Insert Landing Collar (type 2), c/w ball seat for 1.75" ball (ball seat added)
    - Insert Float Collar, c/w baffle plate
    - Reamer Shoe

Downhole Running Tools

- 7-5/8" HRD Setting Tool
- 2-7/8" EU spacers
- ST Landing Sub c/w seat to catch 1.5" ball (added)
- Swab Cup Tool, ported (down facing cups)
- Swab Cup Tool, ported (up facing cups) (added)
- Solo Plug Releasing Tool c/w Solo Liner Wiper Plug

Equipment changes that were made to enable liner cementing included:

- Inclusion of 7" ST Landing Sub, to receive a 1.5" OD tripping ball at the running tools instead of requiring a 1.75" OD ball to land in a horizontally placed Landing Collar.
  Note: ST Landing Sub was mobilized hot-shot from Singapore straight to well-site.
- Inclusion of additional Swab Cup Tool (up facing cups), to balance piston forces on the running tools to prevent the cup tools from being forced up and pout of the liner top.

- Inclusion of a Ball Seat in the Insert Landing Collar, to accept a 1.75" OD ball in the event that the 7" ST Landing Sub did not arrive from Singapore in time.

Procedure changes that were made included:

- Dropping a tripping ball to release the HRD setting tool instead of relying on plug bump.
    - This included a 1.5" OD tripping ball to land in the ST Landing Sub at the liner top, instead of a 1.75" OD ball to land in the landing collar positioned at the liner bottom. This was to reduce the risk of the ball not seating in the landing collar, and to reduce pumping volumes and time.
    - Contingency procedure included the use of a 1.75" OD ball to land in the landing collar in the event that the ST Landing Sub did not arrive in time.
- Cementation procedures involving timed launching of the pump down plug.
- Revised clean-up procedures to flush excess cement from the liner top post-cementing.

Sequence of Events Summary

- Upon the liner reaching TD, the 1.50" OD tripping ball was dropped, HRD setting tool released with 2700 psi. Running tools were picked up to confirm release.
- ST Landing Sub ball seat was sheared at 4000 psi, circulation was established.
  Note: the ball seat of the ST Landing Sub rotates inside the tool to leave a full bore ID, the 1.50" tripping ball is expelled and pumped downhole.
- Liner was rotated and circulated during preparations for the cement job.
- Pressure was observed to increase prior to cement being pumped. Circulation was stopped. It was suspected that the 1.5" ball seat may have landed on the ball seat of the landing collar, even though the ball seat ID is 1.625". Based on this assumption, pressure was increase to shear out the ball seat.
- Rotation was difficult to re-establish due to torque limitations.
  Note: During the process of re-establishing rotation, left hand rotation / torque had been transmitted to the running tools actuating the left-hand release.
- Circulation was difficult to re-establish. A confirmation check confirmed that circulation was occurring at the liner top (through the running tools) instead of via the shoe track, suggesting loss of cup tool sealing integrity.
- Decision was made to cancel the cementation job and recover the running tools.

- Upon running tools reaching surface, it was observed that the down facing cups of the upper cup tool was damaged, confirming circulation path was at the liner top.
- Remedial cementing operations were subsequently conducted.
- Additional contingency equipment was mobilized to provide liner top tieback options, supporting information is including in this report for reference only.

Discussion

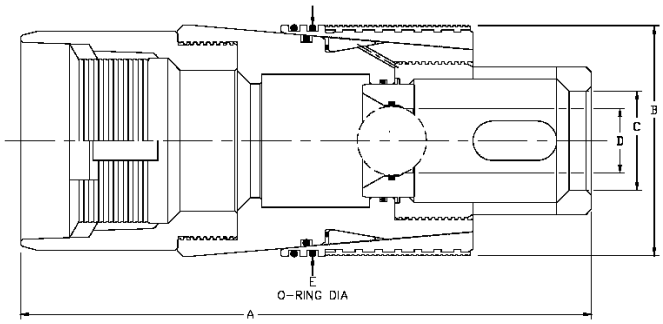
The possible causes of the pressure increase observed prior to pumping cement included:

1. 1.50” OD tripping ball landing on the ball seat of the landing collar.
2. Plugged ports in the reamer shoe, from internal debris or external plugging.
3. Damaged / collapsed shoe.
4. Open hole pack-off on the 7” liner OD.

1. Tripping Ball on Landing Collar Seat

The diagrams in Figure 1 below illustrate that the 1.50” ball should have been able to pass through the 1.625” ID of the landing collar ball seat. A QA/QC check was also conducted onshore prior to equipment mobilization to confirm ball pass-through. Given that adequate liner circulation would have effectively cleaned the landing collar ball seat ID, the likelihood for the pressure increase to be as a result of the 1.50” ball seating on the landing collar ball seat are deemed as low.

Insert Landing Collar With Ball Seat And Catcher, Product No. 266-59
Dimensional Data Drawing No. 782-413



Dimensional Data

Refer to Drawing No. 782-413.

Size And Wt.	Commodity No.	Dim A	B	C	D	E
5" 15-18#	266-59-4403	12.75	4.146	2.0	1.375	4.232
5" 23.2-24.2#	266-59-4304	13.84	3.865			3.916
5-1/2" 15.5-17#	266-59-4506	14.78	4.757			4.843
5-1/2 20.0-23.0#	266-59-4505		4.538			4.624
5-1/2" 23.8-26.8#	266-59-4501	14.75	4.365			4.444
6-5/8 28-33#	266-59-4603	16.88	5.490			5.576
7" 23-26#	266-59-4702	14.50	6.141	2.5	1.625	6.227
7" 29-32#	266-59-4703		5.960			6.046
7" 32-35#	266-59-4601		5.870			5.956
7" 38#	266-59-4602		5.788			5.834
7-5/8" 24-29.7#	266-59-4751	16.00	6.740			6.826
7-5/8 33.7-39.0#	266-59-4750	16.19	6.490			6.576
7-5/8" 42.8-45.3	266-59-4701	14.50	6.293			6.379
9-5/8" 43.5-53.5#	266-59-4906	18.25	8.369			8.455

Figure 1: Insert Landing Collar c/w Ball Seat. The ball seat ID for a 7” 23-26# tool is 1.625”.

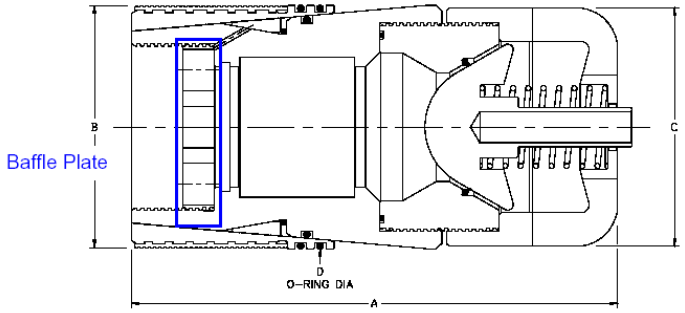
2. Internal Debris

Plugging of Float Collar

The possibility of internal debris causing the pressure increase was considered. Of the possible sources of internal debris, the 1.50” OD ball plugging the float valve was reviewed. The diagrams in Figures 2 and 3 below illustrate that the Baffle Plate positioned at the top of the float valve would have prevented the 1.50” OD ball from fouling the float.

Insert Float Valve, Product No. 266-62

Dimensional Data Drawing No. 782-455



Dimensional Data

Refer to Drawing No. 782-455.

Size And Wt.	Commodity No.	Dim			
		A	B	C	D
5" 15-18#	266-62-4406	12.24	4.146	3.88	4.232
5" 23.2-24.2#	266-62-4308	13.33	3.865		3.916
5-1/2" 15.5-17#	266-62-4509	13.77	4.757		4.843
5-1/2" 20-23#	266-62-4508		4.538		4.624
5-1/2" 23.8-26.8#	266-62-4501	13.74	4.358		4.444
6-5/8" 28-33#	266-62-4606	13.62	5.490		5.576
7" 23-26#	266-62-4704	12.61	6.141	5.75	6.227
7" 29-32#	266-62-4705		5.960		6.046
7" 32-35#	266-62-4604		5.870		5.956
7" 38#	266-62-4605		5.788		5.834
7-5/8 24-29.7#	266-62-4753	14.11	6.740		6.826
7-5/8" 33.7-39#	266-62-4752	14.30	6.490		6.576
7-5/8" 42.8-45.3#	266-62-4701	12.61	6.293		6.379
9-5/8" 40#	266-62-4903	13.99	8.662		8.748
9-5/8" 43.5-53.5#	266-62-4902	14.86	8.369		8.455

Figure 2: Insert Float Collar c/w Baffle Plate.

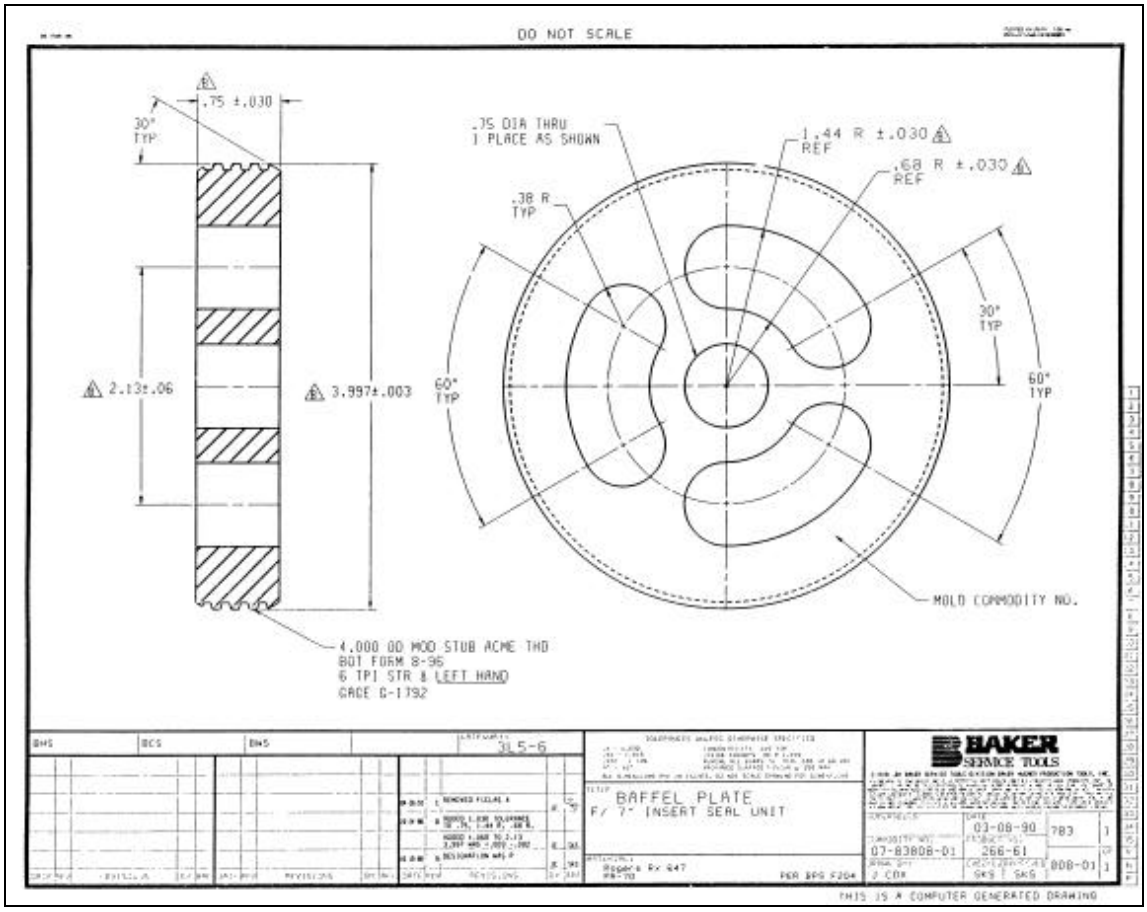


Figure 3: Baffle Plate for Insert Landing Collar

Debris from damaged Swab Cup Tool

Another possible source of internal debris included debris from damaged cups of the swab cup tool. Upon retrieval of the tools from the well, it was observed that the down facing cups of the upper cup tool were damaged with some rubber missing, refer to Figure 4. The likelihood of rubber plugging the float equipment is possible, but consideration would also need to be given the amount of circulation, and the “sudden” pressure increase.

Figure 4: Damaged cups of upper cup tool.

With reference to Appendix 2 (Data Log), the use of drill string rotation and circulation could have resulted in relative movement between the running tools, either the tools moving upwards or the liner moving downwards *(note: absence of liner hanger)*.

The relative movement would have the effect of:

- Positioning the splines of the HRD setting tool out of the mating slots in the HRD setting sleeve resulting in torque transmitted through to the cup tools causing the cups to spin inside the liner top. Figure 5 illustrates the torque spline of the HRTD setting tool.

Figure 5: Torque spline of the HRD setting tool

Evidence of this is suggested in the photos of the HRD setting tool as shown in Figure 6 below. As well as the setting tool components being over-torqued, uncontrolled release of torque can also have the effect of shearing the mechanical release pins of the HRD

setting tool is possible, which was observed during disassembly of the tool in the BOT-Sale warehouse.

Figure 6: Over-torqued components of the HRD setting tool.

- Positioning the upper swab cup tool above the mandrel of the HRD setting sleeve, allowing possible damage to the cups during subsequent downwards movement. Given that the amount of movement required was approximately 3m, the likelihood of this occurring is reduced.

3. Damaged / Collapsed Shoe

If the reamer shoe was damaged or externally plugged, an increase in pressure could result. Given that the pressure increase was relatively sudden, after adequate circulation time, the likelihood of this is significantly reduced.

4. Open hole pack-off on the 7” liner OD

Although difficult to diagnose, an open hole pack-off is always possibly. Given that the pressure increase was relatively sudden, after adequate circulation time, the likelihood of this is significantly reduced.

Conclusions

The following conclusions follow from the observations made and subsequent investigations:

- Rotation of a hanger-less liner post-release of the running tools increases the risk of running tool component damage.
- Debris from the damaged cup tool could have caused the pressure increase prior to the cement job.

Recommendations

For future liner installations that may or may not require cementing, the following recommendations are offered:

- Revised liner hook-up to allow contingency options of cementing the liner, and liner rotation post-hanger setting. These options are possible via:
    - Inclusion of a hydraulic set rotating liner hanger in the equipment hook-up, which will enable effective liner rotation post-hanger setting.
    - Inclusion of slick stinger style cementing pack-off system.
    - Inclusion of a ball catching device in the running tool hook-up instead of a ball seating in a landing collar.
- Revised contingency planning to include tieback options, and options for remedial services (eg. cementing, testing).

Appendix 1: BOT Liner Job Report

Baker Oil Tools

Liner Hanger Workbook
Liner Job Information Sheet

Customer Information:

Company Name:	Nexus Energy	District:	Sale, Australia
Field / Project:	Bass Strait	Service Supervisor:	Jonathan Francis
Well Number:	Longtom - 4	Service Supervisor ID:	Franjon
Company Representative:	Bill Openshaw	Service Supervisor #2:	
Rig Name:	Triton	Job Log Number	OHC--Australia-Franjon-08/09/08
Barge / Deepwater / Land / Offshore:	Offshore	Mobilization Date:	09-Aug-08
Country:	Australia	De-Mobilization Date:	15-Aug-08
Job Number/SST Number:	S1151	Start Date:	09-Aug-08

Casing Information:

OD (in)	ID (in)	Wt. (#/ft)	Yield Strength (psi)	Thread	Burst (psi)	Collapse (psi)	Drift (in.)	Wall Thickness (in.)	Casing Shoe Depth (m)	OH Diameter (in)	Liner Overlap (m)
10.750	9.760	55.50	80000	Hydril 511	6450.0	4020.0	9.604	0.495	2591.0	9.500	20.0

Liner Information:

	OD (in)	ID (in)	Wt. (#/ft)	Yield Strength (psi)	Thread	Burst (psi)	Collapse (psi)	Drift (in.)	Capacity (bbl/ft)	Wall Thickness (in.)	Length (m)
Upper Liner	7.000	6.184	29.00	80000	Hydril 513	8160.0	7030.0	6.059	0.03715	0.408	1470.6
Lower Liner	7.000	6.276	26.00	80000	Hydril 513	7240.0	5410.0	6.151	0.03826	0.362	606.9

Shoe Track Length (m)	81.3	Liner Top Depth (m)	2571.0	Liner Shoe Depth (m)	4648.4

Drill Pipe Information:

	Size (in)	Adj. Wt. (#/ft)	ID (in)	Grade	Capacity (bbl/ft)	Length (m)	Thread	Tensile (lbs)
DP# 1 (Top)	5.500	24.70	4.670	S-135	0.021185	2569.9	XT 57	895,001
DP# 2	5.000	19.50	4.276	S-135	0.01776	5.4	IF	712,072
DP# 3								-
DP# 4								-
DP# 5								-

Open Hole or Bit size is smaller than drift of casing, MAKE SURE TOOLS WILL FIT!!

Total DP	2,575.3	m	Enter Drill Pipe Tensile Safety Factor	100%	

Misc Information:

Hydraulic Factors:

Deviation at TD	84	deg.
Mud Weight	12.00	lb/gal
Buoyancy Factor	0.817	
Block/TD Weight	60,000	lbs.
Wt applied f/ Cmt Job	20,000	lbs.
Max Internal DP Pressure	5,000.0	psi
Wt applied f/ Packer Test		lbs.

Hanger Information

Are You Using a Hanger	No	
Burst Rating		psi
Tensile Rating		lbs.
Hanging Capacity		lbs.

Liner Wiper Plug Rating

Plug Pressure Rating	5,000.0	psi
Temperature Rating	300	°F

7.08

Packer/Sleeve Information:

Are You Using a Packer?	No	
Packer Seal Surface OD		in.
Packer Body Burst		psi
Packer Body Collapse		psi
Packer Body Tensile		lbs.
Tieback Ext. ID	7.750	in.
Tieback Ext. Burst	4,848.0	psi
Tieback Ext. API Collapse	4,286.0	psi
Tieback Ext. Yield Collapse	4,701.0	psi
Packer Setting Force		lbs.
Can/Will Packer be Rot. on	Yes	
Element Rating		psi
Pack-off/Slick Stinger OD		in.

Misc.

Setting Tool Tensile	597,000	lbs
Bumper Jar Tensile	N/A	lbs
Surf. Equip. Tensile	597,000	lbs
Pick-Up f/ Dogs		m
Pick-Up f/ Pack-Off	1.00	m
Shear f/ HR Mech Rel.	4,650	ft-lbs
Make-up torque of Weak Link	12,000	ft-lbs

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Baker Oil Tools

OPEN HOLE COMPLETIONS
SEQUENCE OF EVENTS

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	4/7/2008	**District Location:**	Sale, Australia

DETAIL THE JOB - THIS FORM IS USED TO REPORT WHAT ACTUALLY TOOK PLACE

DATE	TIME	OPERATIONS & REMARKS
8th Aug 08	19:00	Travel from Sale to Melbourne , Australia.
9th Aug 08	14:30	On board Rig Triton - attented Seadrill rig safety induction
10th Aug 08	8:00	Check and measured 7" x 7-5/8" x 10-3/4" liner equipments on board.
		Installed Solo Plug Liner Wiper Plug material no.H269-38-0004 onto Solo Plug Running Tool
		material no. H269-37-0002 and shear pressure at 1302 PSI(3 Pins)
11th Aug 08	9:30	Installed Insert Type 1 Landing Collar inside crossover pup w/ 7" 29ppf Hydril 513 Box x 26ppf
		Hydril 513 Pin and Insert Float Collar from box end of 7" 26ppf Hydril 513 casing joint # 1F.
		Remark : Insert setting at 400 kg/cm2
	19:00	Installed shear sleeve material no. H078237903 (3500 PSI) and shear sleeve catcher
		material no. H078238000 - wittness by night man.
	21:00	Pick up 7-5/8" HRD Setting Sleeve Assembly - torqued up crossover sub with 5-1/2" XT 57 Box
		by 4-1/2" IF Pin down + 5-1/2" XT 57 drill pipe pup joint x 5FT above the running
		Pick up "TD" cementing head and torqued up with crossover sub + single of 5-1/2" XT 57
		drill pipe on top and crossover sub + 20FT drill pipe pup joint on below - stand on derrick.
		Remark: All crossover sub and drill pipe pup joint were drifted with 2.500" drift OD.
12th Aug 08	2:45	Hold JHA at rig floor with crews prior running 7.000" liner .
	3:00	Pick up non-BOT Reamer Shoe with single float assembly on joint - fill with mud & float check.
		Pick up BOT Insert Float collar joint # 1F and pick up next joint per Nexus Energy's 7.000"
		casing running tally - torqued up 7" Hydril connection to 12,000 FT/Lbs and fill with mud to
		check on float - Good flow.
		Pick up Insert Type II Landing Collar installed inside XO-1 and continue RIH casing per tally.
13th Aug 08	2:30	Pick up 7-5/8" HRD Setting Sleeve assembly with 2-7/8" EU 8rd pin looking down - make up
		2-7/8" ST Landing Sub + 7" Ported Swap Cup (two cups facing down) + 7" Ported Swap
		cups (two cups facing up) + Solo Plug Wiper Liner Plug Adaptor + Solo Plug Wiper attached.
		Torqued up Setting Sleeve Assembly that having 7" 26 PPF Hydril 513 Pin down to the last
		liner joint. Break circulate 240 bbls at 1000 PSI / 4 bbls/min - Record 175 K slack down weight
		and 192 K up weight. Continue RIH with 5.500" XT 57 drill pipe.
	5:00	Stop at 10-3/4" shoe - break circulate at 53 SPM / 500 PSI until having good return to surface.
		Note : Running speed inside open hole at 80-90 ft/min and fill by circulate at every 10 stands.
		Continue to work out the liner to the setting depth @ 4648 M by slack down weight of 30k max.
		Note : Actual reading at surface of 202 K slack down weight - Max slack down weight is 172 K.
	11:45	Pick up stand # 83 - wash down with 42 SPM / 900 PSI and tag bottom with 20K slack down
		weight . Space out and lay back Std# 82 on derrick - pick up "TD" Cementing Head and torqued
		up to the last drill pipe Std# 81 per rig drill pipe tally.
		Note : Manually released 1.500" Phenolic setting ball prior torqued up cementing head with
		crossover sub to 5.500" XT 57 drill pipe - tag bottom with 20K slack down weight.
	13:50	Chase setting ball with 40 SPM / 900 PSI to land setting ball on ST Landing Sub ball seat.
	14:20	Ball landed - hold pressure at 1500 PSI for one min and then increase pressure to 2700 PSI
		Hold for 3 mins and bleed off to 0 / open all valves - slowly pick up 1.50 meter and confirmed
		HRD released with 233 K pick up weight indication.
		Note: Pick up refer with string and liner weight is at 300K pick up weight.
		Pressure up string to trip off the ST Landing Sub ball seat and ball seat shear @ 4000 PSI.
		Continue to circulate to ensure ball seat sheared and good flow / returns to surface.
		Rig up the cement line and circulate while prepare for the cementing job.
	18:15	Rotate the liner while continue circulations - records torque at 15k to 22k with 30 RPM for
		1/2 hours - stop rotate but still continue to circulate while Halliburton prepare for cementing job.
		Note: Nexus Energy recommend rotating torque during cementing job is 35K ft/lbs.
	19:30	Pump the following using the rig pump;
		# 60bbls Accolade base oil
		# 60bbls Tuned Spacer
		# 7bbls brine (to clear the line)
	20:30	Isolate the top drive and hold 500 PSI pressure to monitor for leaks and then pump the
		following using Halliburton cement unit;
		Start to rotate the string / liner at 30 RPM - torque at 13K to 18K.

Company Representative:_____BOT Representative:_____

Baker Oil Tools

OPEN HOLE COMPLETIONS
SEQUENCE OF EVENTS

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	4/7/2008	**District Location:**	Sale, Australia

DETAIL THE JOB - THIS FORM IS USED TO REPORT WHAT ACTUALLY TOOK PLACE

DATE	TIME	OPERATIONS & REMARKS
		Pump 10bbls fresh water to test line and start to mix slurry @ 15.00 ppg
		Notice the pressure building up to 2500 PSI after pumping 4 bbls and stop pumping to check
		Keep on trying to pressure up with mud on the line / string - still showed high pressure
		Switch to the rig pump and work out for circulations - stop rotate and ensure to keep 10K on
		WOB.
		Meeting with town - attempt to rotate with 30 RPM / 30K ft.lbs / 2600 PSI.
		Note :String rotate to left (5 to 8 rotations) when attempted to stop rotate and secondary
		release shear pins did sheared at this movement.
		Note: The rig top Drive did not have control device for left hand turning on string.During stopping
		right hand turns , the string will keeping turns to left hand with no control at all time.
	23:00	Cementing job was cancelled - pick up 3 M to place the upper swap cup inside the 7-5/8"
		HRD setting sleeve ID of 7.735" and lay back 5.500" drill pipe to derrick.
14th Aug 08	0:30	After lay back 5 stands - pick up "TD" cementing head and break out connections. Confirmed
		Pump Down Plug is still inside the Plug Dropping Head.
	7:00	POOH running tools - notice that the two cup facing down were demaged / 90% of rubber
		elements were gone , secondary release shear pins were sheared and deform on emergency
		mechanical profile of 7-5/8" HRD's Housing and showed of over torqued on 4-1/2" IF Box end
		at running tools (4.500" Lift Nipple).
		Note: Solo Plug Liner Wiper Plug is still attached to Adaptor.
		Call town and was informed that back up equipments will be heading to the rig in case of
		running back with the same Setting Sleeve assembly system.
		Stand-by for the next operations.
15th Aug 08		Stand-by for the next operations.
	13:30	Booked to depart Rig West Triton

Company Representative:_____BOT Representative:_____

Baker Oil Tools

OPEN HOLE COMPLETIONS
WEIGHT/FORCE CALCULATION SHEET

0

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

Weight and Neutral Calculations:

Drill Pipe #1 in Mud	170,081	lbs.
Drill Pipe #2 in Mud	282	lbs.
Drill Pipe #3 in Mud	0	lbs.
Drill Pipe #4 in Mud	0	lbs.
Drill Pipe #5 in Mud	0	lbs.
Total Drill Pipe Weight in mud	**170,364**	**lbs.**
Block/TD Weight	60,000	lbs.
Weight Indicator Reading of Drill Pipe and Block	**230,364**	**lbs.**
Liner #1 Weight in Mud	114,267	lbs.
Liner #2 Weight In Mud	42,277	lbs.
Total Liner Weight in Mud	**156,544**	**lbs.**
Weight Indicator Reading of Liner, Drill Pipe, and Block	**386,908**	**lbs.**
Weight Indicator Reading of Drill Pipe and Block	230,364	lbs.
Subtract 2RH Shear	14,700	lbs.
Weight Indicator Reading for Setting Tool Release	**215,664**	**lbs.**

****Warning: The Liner Weight is Greater than the Hanging Capacity for the Liner Hanger**

Piston Forces:

Piston Force at Pack-off (Worst Case)	**0**	**lbs.**
Piston Force at Pack-off (Actual)	**-71,802**	**lbs.**

Slack-off Requirements for Liner Weight

Stretch in Drill Pipe #1 due to Liner Weight.	2.02	**m**
Stretch in Drill Pipe #2 due to Liner Weight.	0.01	
Stretch in Drill Pipe #3 due to Liner Weight.	0.00	
Stretch in Drill Pipe #4 due to Liner Weight.	0.00	
Stretch in Drill Pipe #5 due to Liner Weight.	0.00	
Bumper Jar Stroke (if used)	0.46	
Feet Needed to Slack-off Liner Weight.	2.49	
Minimum Feet Needed to Shear 2RH	0.19	
Minimum Total Feet Needed to Release 2RH	2.68	
Minimum Feet Needed to Apply Wt. for Cement Job	0.26	

****WARNING: A Buckle Program MUST be run for this application**

Misc. Information (All calculations assume still tied on to liner)

Maximum Pull on Running Tool Assy. (Weight Indicator Reading)	230,364	lbs.
Maximum Pull on Drill Pipe (Weight Indicator Reading)	772,072	lbs.
Maximum Pull on Surface Equipment (Weight Indicator Reading)	657,000	lbs.
Left Hand Turns required to Mechanically Release HR/HRD tool	1.76	
Maximum number of Left Hand Turns that Can be Applied	4.53	

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Baker Oil Tools

Liner Hanger Workbook
Displacement Calculation Sheet

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

Rig Output: 0.13 bbl/stk 7.6923 stk/bbl

Displacement:		
Drill Pipe #1	178.63 bbl	1,374.1 stks
Drill Pipe #2	0.31 bbl	2.4 stks
Drill Pipe #3	bbl	stks
Drill Pipe #4	bbl	stks
Drill Pipe #5	bbl	stks
Drill Pipe Capacity Total	178.95 bbl	1,376.5 stks
Shoe Track Capacity	9.91 bbl	76.3 stks
Liner #1 Capacity	179.24 bbl	1,378.8 stks
Liner #2 Capacity	76.19 bbl	586.1 stks
Total Liner Capacity to L/Collar	245.52 bbl	1,888.6 stks
Total Capacity to Land Plugs	424.46 bbl	3,265.1 stks
Total Capacity to Shoe	434.38 bbl	3,341.4 stks

Annular Volumes:		
Liner#1 by Open Hole	193.33 bbl	1,487.18 stks
Liner#2 by Open Hole	77.15 bbl	593.50 stks
Over Lap	3.56 bbl	27.39 stks
Drill Pipe #1 by Casing	532.46 bbl	4,095.82 stks
Drill Pipe #2 by Casing	1.21 bbl	9.30 stks
Drill Pipe #3 by Casing	bbl	stks
Drill Pipe #4 by Casing	bbl	stks
Drill Pipe #5 by Casing	bbl	stks
Total (Bottoms Up)	807.71 bbl	**6,213.19 stks**

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BAKER HUGHES Baker Oil Tools

OPEN HOLE COMPLETIONS
TALLY SHEET

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

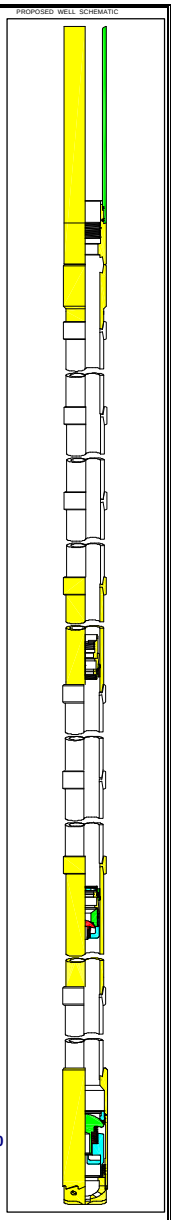
Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
	BLOCK/TOP DRIVE					60,000	
	8-1/2" Non-BOT Reamer Shoe		0.90	0.90	4,647.54	60,000	
1G	7.000" Hydril 513 HT Box x Pin	26.00	11.45	12.35	4,636.09	60,243	Blade Runner Centraliser
1F	7.000" Hydril 513 HT Box x Pin	26.00	11.54	23.89	**4,624.55**	60,488	B.R.Centr (Insert Float)
1E	7.000" Hydril 513 HT Box x Pin	26.00	11.47	35.36	4,613.08	60,732	No Centraliser
1D	7.000" Hydril 513 HT Box x Pin	26.00	11.63	46.99	4,601.45	60,979	Roller Centraliser
1C	7.000" Hydril 513 HT Box x Pin	26.00	11.62	58.61	4,589.83	61,225	Roller Centraliser
1B	7.000" Hydril 513 HT Box x Pin	26.00	11.22	69.83	4,578.61	61,464	Roller Centraliser
1A	7.000" Hydril 513 HT Box x Pin	26.00	11.51	81.34	4,567.10	61,708	Roller Centraliser
X/O 1	X/O Pup - 7" 29# Hydril Box x 26# Pin	29.00	0.53	81.87	**4,566.57**	61,721	Insert Type II landing Collar
221	7.000" Hydril 513 HT Box x Pin	29.00	11.29	93.16	4,555.28	61,988	Roller Centraliser
220	7.000" Hydril 513 HT Box x Pin	29.00	11.30	104.46	4,543.98	62,255	Roller Centraliser
219	7.000" Hydril 513 HT Box x Pin	29.00	11.29	115.75	4,532.69	62,523	Roller Centraliser
218	7.000" Hydril 513 HT Box x Pin	29.00	11.89	127.64	4,520.80	62,804	Roller Centraliser
217	7.000" Hydril 513 HT Box x Pin	29.00	11.29	138.93	4,509.51	63,072	Roller Centraliser
216	7.000" Hydril 513 HT Box x Pin	29.00	11.12	150.05	4,498.39	63,335	Roller Centraliser
215	7.000" Hydril 513 HT Box x Pin	29.00	11.14	161.19	4,487.25	63,599	Roller Centraliser
214	7.000" Hydril 513 HT Box x Pin	29.00	11.27	172.46	4,475.98	63,866	Roller Centraliser
213	7.000" Hydril 513 HT Box x Pin	29.00	11.27	183.73	4,464.71	64,133	Roller Centraliser
212	7.000" Hydril 513 HT Box x Pin	29.00	11.28	195.01	4,453.43	64,400	Roller Centraliser
211	7.000" Hydril 513 HT Box x Pin	29.00	11.27	206.28	4,442.16	64,667	Roller Centraliser
210	7.000" Hydril 513 HT Box x Pin	29.00	11.14	217.42	4,431.02	64,931	Roller Centraliser
208	7.000" Hydril 513 HT Box x Pin	29.00	11.16	228.58	4,419.86	65,195	Roller Centraliser
207	7.000" Hydril 513 HT Box x Pin	29.00	11.15	239.73	4,408.71	65,459	Roller Centraliser
206	7.000" Hydril 513 HT Box x Pin	29.00	11.28	251.01	4,397.43	65,726	Roller Centraliser
205	7.000" Hydril 513 HT Box x Pin	29.00	11.29	262.30	4,386.14	65,994	Roller Centraliser
204	7.000" Hydril 513 HT Box x Pin	29.00	11.27	273.57	4,374.87	66,260	Roller Centraliser
203	7.000" Hydril 513 HT Box x Pin	29.00	11.28	284.85	4,363.59	66,528	Roller Centraliser
202	7.000" Hydril 513 HT Box x Pin	29.00	11.28	296.13	4,352.31	66,795	Roller Centraliser
200	7.000" Hydril 513 HT Box x Pin	29.00	11.02	307.15	4,341.29	67,056	Roller Centraliser
199	7.000" Hydril 513 HT Box x Pin	29.00	11.30	318.45	4,329.99	67,323	Roller Centraliser
198	7.000" Hydril 513 HT Box x Pin	29.00	11.29	329.74	4,318.70	67,591	Roller Centraliser
197	7.000" Hydril 513 HT Box x Pin	29.00	11.17	340.91	4,307.53	67,855	Roller Centraliser
196	7.000" Hydril 513 HT Box x Pin	29.00	11.27	352.18	4,296.26	68,122	Roller Centraliser
195	7.000" Hydril 513 HT Box x Pin	29.00	11.22	363.40	4,285.04	68,388	Roller Centraliser
194	7.000" Hydril 513 HT Box x Pin	29.00	10.98	374.38	4,274.06	68,648	Roller Centraliser
193	7.000" Hydril 513 HT Box x Pin	29.00	11.25	385.63	4,262.81	68,914	Roller Centraliser
192	7.000" Hydril 513 HT Box x Pin	29.00	11.29	396.92	4,251.52	69,182	Roller Centraliser
190	7.000" Hydril 513 HT Box x Pin	29.00	11.06	407.98	4,240.46	69,444	Roller Centraliser
189	7.000" Hydril 513 HT Box x Pin	29.00	11.24	419.22	4,229.22	69,710	Roller Centraliser
188	7.000" Hydril 513 HT Box x Pin	29.00	11.11	430.33	4,218.11	69,973	Roller Centraliser
187	7.000" Hydril 513 HT Box x Pin	29.00	11.14	441.47	4,206.97	70,237	Roller Centraliser
186	7.000" Hydril 513 HT Box x Pin	29.00	11.28	452.75	4,195.69	70,504	Roller Centraliser
185	7.000" Hydril 513 HT Box x Pin	29.00	11.27	464.02	4,184.42	70,771	Roller Centraliser
184	7.000" Hydril 513 HT Box x Pin	29.00	11.17	475.19	4,173.25	71,035	Roller Centraliser
183	7.000" Hydril 513 HT Box x Pin	29.00	11.01	486.20	4,162.24	71,296	Roller Centraliser
182	7.000" Hydril 513 HT Box x Pin	29.00	11.30	497.50	4,150.94	71,564	Roller Centraliser
181	7.000" Hydril 513 HT Box x Pin	29.00	11.29	508.79	4,139.65	71,831	Roller Centraliser
180	7.000" Hydril 513 HT Box x Pin	29.00	11.28	520.07	4,128.37	72,098	Roller Centraliser
179	7.000" Hydril 513 HT Box x Pin	29.00	11.24	531.31	4,117.13	72,364	Roller Centraliser
178	7.000" Hydril 513 HT Box x Pin	29.00	11.11	542.42	4,106.02	72,628	Roller Centraliser
177	7.000" Hydril 513 HT Box x Pin	29.00	11.11	553.53	4,094.91	72,891	Roller Centraliser
176	7.000" Hydril 513 HT Box x Pin	29.00	11.14	564.67	4,083.77	73,154	Roller Centraliser
175	7.000" Hydril 513 HT Box x Pin	29.00	11.28	575.95	4,072.49	73,422	Roller Centraliser
173	7.000" Hydril 513 HT Box x Pin	29.00	11.29	587.24	4,061.20	73,689	Roller Centraliser
172	7.000" Hydril 513 HT Box x Pin	29.00	11.30	598.54	4,049.90	73,957	Roller Centraliser
170	7.000" Hydril 513 HT Box x Pin	29.00	11.27	609.81	4,038.63	74,223	Roller Centraliser
169	7.000" Hydril 513 HT Box x Pin	29.00	10.88	620.69	4,027.75	74,481	Roller Centraliser
168	7.000" Hydril 513 HT Box x Pin	29.00	11.07	631.76	4,016.68	74,743	Roller Centraliser
167	7.000" Hydril 513 HT Box x Pin	29.00	11.25	643.01	4,005.43	75,010	Roller Centraliser

Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
166	7.000" Hydril 513 HT Box x Pin	29.00	11.16	654.17	3,994.27	75,274	Roller Centraliser
165	7.000" Hydril 513 HT Box x Pin	29.00	11.27	665.44	3,983.00	75,541	Roller Centraliser
164	7.000" Hydril 513 HT Box x Pin	29.00	11.06	676.50	3,971.94	75,803	Roller Centraliser
163	7.000" Hydril 513 HT Box x Pin	29.00	11.14	687.64	3,960.80	76,067	Roller Centraliser
XO 2	X/O Pup - 7" 26# Hydril Box x 29# Pin	29.00	**0.57**	688.21	3,960.23	76,080	
161	7.000" Hydril 513 HT Box x Pin	26.00	11.63	699.84	3,948.60	76,327	Roller Centraliser
160	7.000" Hydril 513 HT Box x Pin	26.00	11.49	711.33	3,937.11	76,571	Roller Centraliser
159	7.000" Hydril 513 HT Box x Pin	26.00	11.59	722.92	3,925.52	76,817	Blade Runner Centraliser
158	7.000" Hydril 513 HT Box x Pin	26.00	11.67	734.59	3,913.85	77,065	Blade Runner Centraliser
157	7.000" Hydril 513 HT Box x Pin	26.00	11.49	746.08	3,902.36	77,309	Blade Runner Centraliser
156	7.000" Hydril 513 HT Box x Pin	26.00	11.62	757.70	3,890.74	77,556	Blade Runner Centraliser
155	7.000" Hydril 513 HT Box x Pin	26.00	11.54	769.24	3,879.20	77,801	Blade Runner Centraliser
154	7.000" Hydril 513 HT Box x Pin	26.00	11.51	780.75	3,867.69	78,045	Blade Runner Centraliser
153	7.000" Hydril 513 HT Box x Pin	26.00	11.20	791.95	3,856.49	78,283	Blade Runner Centraliser
152	7.000" Hydril 513 HT Box x Pin	26.00	11.65	803.60	3,844.84	78,530	Blade Runner Centraliser
151	7.000" Hydril 513 HT Box x Pin	26.00	11.59	815.19	3,833.25	78,776	Blade Runner Centraliser
150	7.000" Hydril 513 HT Box x Pin	26.00	11.58	826.77	3,821.67	79,022	Blade Runner Centraliser
149	7.000" Hydril 513 HT Box x Pin	26.00	11.34	838.11	3,810.33	79,263	Blade Runner Centraliser
148	7.000" Hydril 513 HT Box x Pin	26.00	11.54	849.65	3,798.79	79,508	Blade Runner Centraliser
147	7.000" Hydril 513 HT Box x Pin	26.00	11.60	861.25	3,787.19	79,754	Blade Runner Centraliser
146	7.000" Hydril 513 HT Box x Pin	26.00	11.61	872.86	3,775.58	80,001	Blade Runner Centraliser
145	7.000" Hydril 513 HT Box x Pin	26.00	11.61	884.47	3,763.97	80,247	Blade Runner Centraliser
144	7.000" Hydril 513 HT Box x Pin	26.00	11.67	896.14	3,752.30	80,495	Blade Runner Centraliser
143	7.000" Hydril 513 HT Box x Pin	26.00	11.55	907.69	3,740.75	80,740	Blade Runner Centraliser
142	7.000" Hydril 513 HT Box x Pin	26.00	11.66	919.35	3,729.09	80,988	Blade Runner Centraliser
141	7.000" Hydril 513 HT Box x Pin	26.00	11.57	930.92	3,717.52	81,234	Blade Runner Centraliser
140	7.000" Hydril 513 HT Box x Pin	26.00	11.61	942.53	3,705.91	81,480	Blade Runner Centraliser
139	7.000" Hydril 513 HT Box x Pin	26.00	11.61	954.14	3,694.30	81,727	Blade Runner Centraliser
138	7.000" Hydril 513 HT Box x Pin	26.00	11.59	965.73	3,682.71	81,973	Blade Runner Centraliser
137	7.000" Hydril 513 HT Box x Pin	26.00	11.62	977.35	3,671.09	82,219	Blade Runner Centraliser
136	7.000" Hydril 513 HT Box x Pin	26.00	11.60	988.95	3,659.49	82,466	Blade Runner Centraliser
135	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,000.58	3,647.86	82,713	Blade Runner Centraliser
134	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,012.20	3,636.24	82,959	Blade Runner Centraliser
133	7.000" Hydril 513 HT Box x Pin	26.00	11.68	1,023.88	3,624.56	83,207	Blade Runner Centraliser
132	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,035.46	3,612.98	83,453	Blade Runner Centraliser
131	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,047.03	3,601.41	83,699	Blade Runner Centraliser
130	7.000" Hydril 513 HT Box x Pin	26.00	11.16	1,058.19	3,590.25	83,936	Blade Runner Centraliser
129	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,069.83	3,578.61	84,183	Blade Runner Centraliser
128	7.000" Hydril 513 HT Box x Pin	26.00	11.40	1,081.23	3,567.21	84,425	Blade Runner Centraliser
127	7.000" Hydril 513 HT Box x Pin	26.00	11.52	1,092.75	3,555.69	84,670	Blade Runner Centraliser
126	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,104.37	3,544.07	84,916	Blade Runner Centraliser
125	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,116.00	3,532.44	85,163	Blade Runner Centraliser
124	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,127.63	3,520.81	85,410	Blade Runner Centraliser
123	7.000" Hydril 513 HT Box x Pin	26.00	11.45	1,139.08	3,509.36	85,653	Blade Runner Centraliser
122	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,150.74	3,497.70	85,901	Blade Runner Centraliser
121	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,162.31	3,486.13	86,147	Blade Runner Centraliser
120	7.000" Hydril 513 HT Box x Pin	26.00	11.21	1,173.52	3,474.92	86,385	Blade Runner Centraliser
119	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,185.05	3,463.39	86,629	Blade Runner Centraliser
118	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,196.69	3,451.75	86,877	Blade Runner Centraliser
117	7.000" Hydril 513 HT Box x Pin	26.00	10.95	1,207.64	3,440.80	87,109	Blade Runner Centraliser
116	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,219.24	3,429.20	87,355	Blade Runner Centraliser
115	7.000" Hydril 513 HT Box x Pin	26.00	11.51	1,230.75	3,417.69	87,600	Blade Runner Centraliser
114	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,242.28	3,406.16	87,845	Blade Runner Centraliser
113	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,253.91	3,394.53	88,091	Blade Runner Centraliser
112	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,265.56	3,382.88	88,339	Blade Runner Centraliser
111	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,277.15	3,371.29	88,585	Blade Runner Centraliser
110	7.000" Hydril 513 HT Box x Pin	26.00	11.48	1,288.63	3,359.81	88,829	Blade Runner Centraliser
109	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,300.28	3,348.16	89,076	Blade Runner Centraliser
108	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,311.91	3,336.53	89,323	Blade Runner Centraliser
107	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,323.51	3,324.93	89,569	Blade Runner Centraliser
106	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,335.12	3,313.32	89,816	Blade Runner Centraliser
105	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,346.78	3,301.66	90,063	Blade Runner Centraliser
104	7.000" Hydril 513 HT Box x Pin	26.00	11.48	1,358.26	3,290.18	90,307	Blade Runner Centraliser
103	7.000" Hydril 513 HT Box x Pin	26.00	11.34	1,369.60	3,278.84	90,548	Blade Runner Centraliser
102	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,381.18	3,267.26	90,794	Blade Runner Centraliser
101	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,392.71	3,255.73	91,039	Blade Runner Centraliser
100	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,404.35	3,244.09	91,286	Blade Runner Centraliser

Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
99	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,415.99	3,232.45	91,533	Blade Runner Centraliser
98	7.000" Hydril 513 HT Box x Pin	26.00	11.01	1,427.00	3,221.44	91,767	Blade Runner Centraliser
97	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,438.63	3,209.81	92,014	Blade Runner Centraliser
96	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,450.20	3,198.24	92,259	Blade Runner Centraliser
95	7.000" Hydril 513 HT Box x Pin	26.00	11.54	1,461.74	3,186.70	92,504	Blade Runner Centraliser
94	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,473.40	3,175.04	92,752	Blade Runner Centraliser
93	7.000" Hydril 513 HT Box x Pin	26.00	11.56	1,484.96	3,163.48	92,997	Blade Runner Centraliser
92	7.000" Hydril 513 HT Box x Pin	26.00	11.69	1,496.65	3,151.79	93,246	Blade Runner Centraliser
91	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,508.29	3,140.15	93,493	Blade Runner Centraliser
90	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,519.89	3,128.55	93,739	Blade Runner Centraliser
89	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,531.49	3,116.95	93,985	Blade Runner Centraliser
88	7.000" Hydril 513 HT Box x Pin	26.00	11.44	1,542.93	3,105.51	94,228	Blade Runner Centraliser
87	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,554.59	3,093.85	94,476	Blade Runner Centraliser
86	7.000" Hydril 513 HT Box x Pin	26.00	11.52	1,566.11	3,082.33	94,720	Blade Runner Centraliser
85	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,577.76	3,070.68	94,968	Blade Runner Centraliser
84	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,589.42	3,059.02	95,215	Blade Runner Centraliser
83	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,601.00	3,047.44	95,461	Blade Runner Centraliser
82	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,612.61	3,035.83	95,708	Blade Runner Centraliser
81	7.000" Hydril 513 HT Box x Pin	26.00	11.42	1,624.03	3,024.41	95,950	Blade Runner Centraliser
80	7.000" Hydril 513 HT Box x Pin	26.00	10.95	1,634.98	3,013.46	96,183	Blade Runner Centraliser
79	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,646.61	3,001.83	96,430	Blade Runner Centraliser
78	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,658.22	2,990.22	96,676	Blade Runner Centraliser
77	7.000" Hydril 513 HT Box x Pin	26.00	11.67	1,669.89	2,978.55	96,924	Blade Runner Centraliser
76	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,681.48	2,966.96	97,170	Blade Runner Centraliser
75	7.000" Hydril 513 HT Box x Pin	26.00	11.24	1,692.72	2,955.72	97,409	Blade Runner Centraliser
74	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,704.31	2,944.13	97,655	Blade Runner Centraliser
73	7.000" Hydril 513 HT Box x Pin	26.00	11.36	1,715.67	2,932.77	97,896	Blade Runner Centraliser
72	7.000" Hydril 513 HT Box x Pin	26.00	11.38	1,727.05	2,921.39	98,138	Blade Runner Centraliser
71	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,738.66	2,909.78	98,384	Blade Runner Centraliser
70	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,750.25	2,898.19	98,630	Blade Runner Centraliser
69	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,761.87	2,886.57	98,877	Blade Runner Centraliser
68	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,773.52	2,874.92	99,124	Blade Runner Centraliser
67	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,785.14	2,863.30	99,371	Blade Runner Centraliser
66	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,796.74	2,851.70	99,617	Blade Runner Centraliser
65	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,808.33	2,840.11	99,863	Blade Runner Centraliser
64	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,819.92	2,828.52	100,109	Blade Runner Centraliser
63	7.000" Hydril 513 HT Box x Pin	26.00	11.54	1,831.46	2,816.98	100,354	Blade Runner Centraliser
62	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,843.08	2,805.36	100,601	Blade Runner Centraliser
61	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,854.74	2,793.70	100,849	Blade Runner Centraliser
60	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,866.32	2,782.12	101,095	Blade Runner Centraliser
59	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,877.98	2,770.46	101,342	Blade Runner Centraliser
58	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,889.58	2,758.86	101,588	Blade Runner Centraliser
57	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,901.17	2,747.27	101,835	Blade Runner Centraliser
56	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,912.77	2,735.67	102,081	Blade Runner Centraliser
55	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,924.43	2,724.01	102,328	Blade Runner Centraliser
54	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,936.09	2,712.35	102,576	Blade Runner Centraliser
53	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,947.67	2,700.77	102,822	Blade Runner Centraliser
52	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,959.28	2,689.16	103,068	Blade Runner Centraliser
51	7.000" Hydril 513 HT Box x Pin	26.00	11.67	1,970.95	2,677.49	103,316	Blade Runner Centraliser
50	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,982.58	2,665.86	103,563	Blade Runner Centraliser
49	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,994.24	2,654.20	103,811	Blade Runner Centraliser
48	7.000" Hydril 513 HT Box x Pin	26.00	11.61	2,005.85	2,642.59	104,057	Blade Runner Centraliser
47	7.000" Hydril 513 HT Box x Pin	26.00	11.62	2,017.47	2,630.97	104,304	Blade Runner Centraliser
46	7.000" Hydril 513 HT Box x Pin	26.00	11.17	2,028.64	2,619.80	104,541	Blade Runner Centraliser
45	7.000" Hydril 513 HT Box x Pin	26.00	11.61	2,040.25	2,608.19	104,788	Blade Runner Centraliser
44	7.000" Hydril 513 HT Box x Pin	26.00	11.63	2,051.88	2,596.56	105,034	Blade Runner Centraliser
43	7.000" Hydril 513 HT Box x Pin	26.00	11.55	2,063.43	2,585.01	105,280	Blade Runner Centraliser
42	7.000" Hydril 513 HT Box x Pin	26.00	11.36	2,074.79	2,573.65	105,521	Blade Runner Centraliser
BOT	Csg x/o Sub to 7" 26# Hydril 513 pin	26.00	0.22	2,075.01	2,573.43	105,526	
BOT	7-5/8" HRD Setting Sleeve x 6 FT	29.70	2.43	2,077.44	**2,571.00**	105,585	**Top Of Liner**
BOT	Running Tool Stick Up	19.50	2.90	2,080.34	2,568.10	105,631	
Rig	Crossover Sub to 4-1/2" IF Pin dwn.	24.70	0.91	2,081.25	2,567.19	105,649	
Rig	5.500" Drill Pipe Pup Joint	24.70	1.59	2,082.84	2,565.60	105,681	
Rig	86 Stds - 5.500" DP w/ 5-1/2" XT 57	24.70	2,540.39	4,623.23	25.21	156,923	
Rig	Stand - 5.500" DP w/ 5-1/2" XT 57	24.70	29.55	4,652.78	(4.34)	157,519	
							9.500" Open Hole

DQRM-S001F1
Revision: New
05-23-07

PROPOSED WELL SCHEMATIC



DISTRICT LOCATION

Baker Oil Tools
Liner Hanger Products
Sale, Australia

BAKER HUGHES

Baker Oil Tools

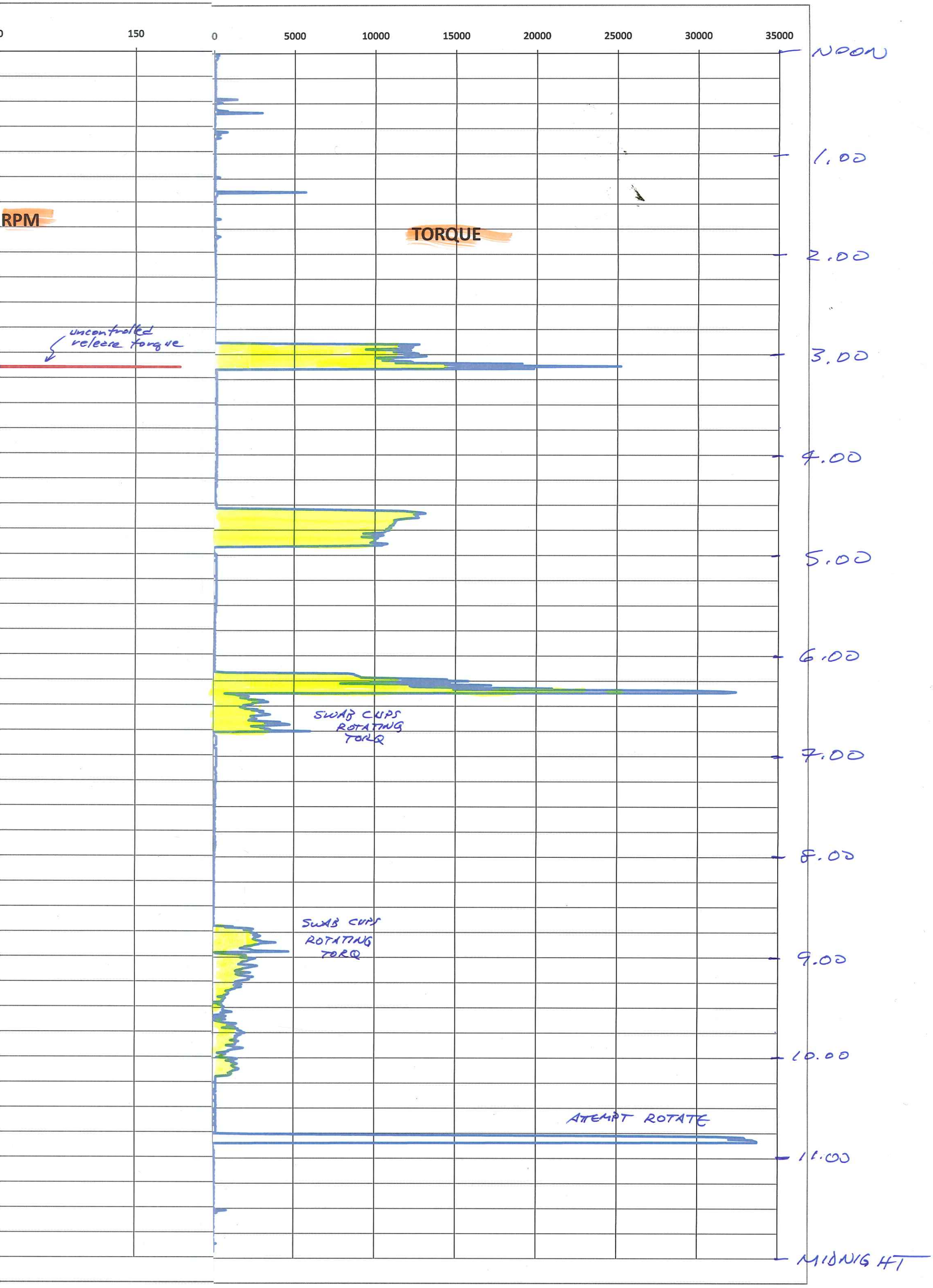
OPERATOR	Nexus Energy
COMPANY REP.	Bill Openshaw
FIELD	Bass Strait
WELL NO.	Longtom - 4
LEASE	
RIG NAME	Triton
Sales Service Ticket #	OHC--Australia-Franjon
MD (ft.)	15,252
FLUID TYPE:	
FLUID WEIGHT (PPG)	12.0
DATE SUBMITTED	8/9/2008
PREPARED BY:	Jonathan Francis

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	10.750	55.5	80,000	Hydril 523	8502.10 FT
	SIZE	WEIGHT	GRADE	THREAD	LENGTH
LINER #1	7.000	29.0	80,000	Hydril 513	4820.44 FT
LINER #2	7.000	29.0	80,000	Hydril 513	1987.77 FT
	SIZE	WEIGHT	GRADE	THREAD	LENGTH
DRILL PIPE #1	5.500	24.7	S-135	XT 57	8433.00 FT
DRILL PIPE #2	5.500	24.7	S-135	XT 57	5.127 FT
DRILL PIPE #3	5-1/2 X 4-1/2"	19.5	110	4-1/2" IF	2.99 FT
DRILL PIPE #4	4.500	19.5	110	4-1/2" IF	9.516 FT
DRILL PIPE #5					

	Tool Number	Material Number	Description	Depth (FT)	Length (FT)	OD (in.)	ID (in.)
4	1	H295422028	7-5/8 " HRD SETTING SLEEVE WITH 7.735" EXTENSION ID, 8.250" EXT. OD X 6 FT LG	8,433.20	7.973	8.250	6.760
5	2	H299695388	CROSSOVER SUB, 7-5/8" 29.70 PPF HYDRIL BOX UP X 7.000" 26 PPF HYDRIL 513 PIN DOWN	8,441.17	0.722	7.628	6.135
6	3	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN CSG.	8,441.90	4,549.92	7.000	6.276
	4	SUPPLY BY Nexus Energy	CROSSOVER SUB, 7.000" 26 PPF HYDRIL BOX UP X 7.000" 29 PPF HYDRIL 513 PIN DOWN	12,991.82	1.870	7.000	6.184
	5	SUPPLY BY Nexus Energy	7.000" 29 PPF L-80 HYDRIL 513 BOX X PIN CSG.	12,993.69	1,987.77	7.000	6.184
7	6	SUPPLY BY Nexus Energy	CROSSOVER SUB, 7.000" 29 PPF HYDRIL BOX UP X 7.000" 26 PPF HYDRIL 513 PIN DOWN (Installed Insert Type 2 Landing Collar)	14,981.46	1.739	7.000	6.184
	7	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN CSG.	14,983.19	188.52	7.000	6.276
8	8	SUPPLY BY Nexus Energy	1 JT - 7.000" 26 PPF L-80 HYDRIL 513 Box X Pin (Installed Insert Type Float Collar at Box)	15,171.71	37.88	7.000	6.276
	9	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN (Reamer Shoe Joint)	15,209.59	37.57	7.000	6.276
	10	SUPPLY BY Nexus Energy	8-1/4" Non-Baker Reamer Shoe	15,247.16	2.95	8.250	6.276
9			**Bottom of Shoe @**	15,250.11			
			LINER HANGER ACCSS.				
	1	H078835701	1.500" PHENOLIC SETTING BALL.				
	2	H270200155	2.2" PUMP DOWN PLUG 2.280" NOSE OD F/4.892 IN MAX CSG ID F/2.440 IN MIN CSG ID 3000 PSI @ 350 DEG F NITRILE SEAL				
	3	H269380004	SOLO PLUG LINER WIPER PLUG				
		Company Representative					
		BOT Representative					

DQRM-S001F1
Revision: New
05-23-07

Appendix 2: Data Log


0
150
0
5000
10000
15000
20000
25000
30000
35000
RPM
TORQUE
uncontrolled release torque
SWAB CUPS ROTATING TORQ
SWAB CUPS ROTATING TORQ
ATTEMPT ROTATE
NOON
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
MIDNIGHT

500 0 1000 2000 3000 4000 50 100

30 KIPS

925 psi

SPP

R

RELEASE HRD

SPP

SHEAR OUT BACK

665psi drop

WASHING SWAP CUPS

4 bpm out

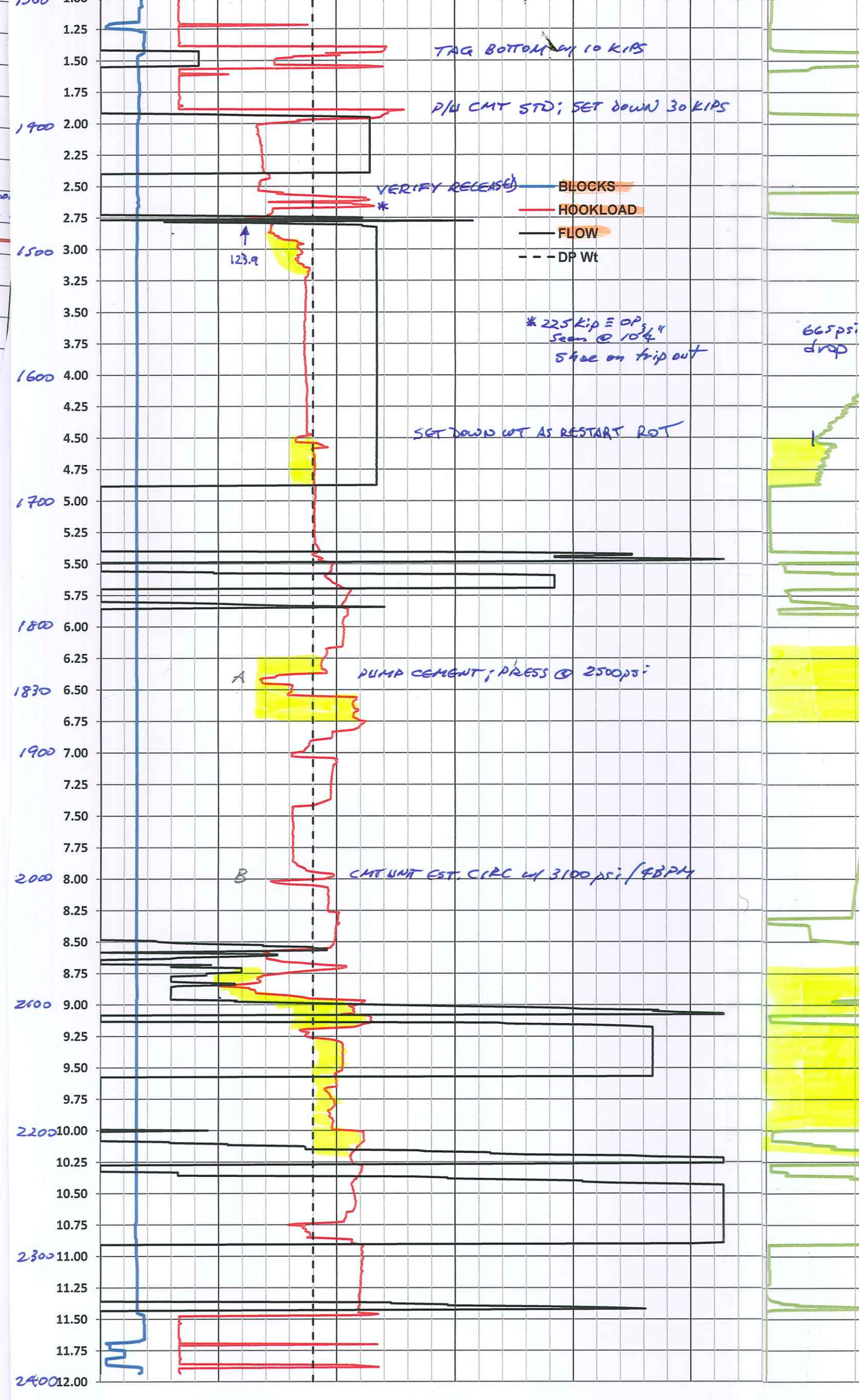
MP's 60 66/s ~~TUNED~~ BASE OIL

MP's 60 66/s TUNED SPACER

ESTABLISH CIRC W/ MP's

SWAP CUPS HOLDING PRESS

BOT NOTE BACKLASH


TAG BOTTOM W/ 10 KIPS
P/U CMT STD; SET DOWN 30 KIPS
VERIFY RELEASED
BLOCKS
HOOKLOAD
FLOW
DP Wt
123.9
* 225 Kip = OP seen @ 10¾"
Shoe on trip out
665psi drop
SET DOWN WT AS RESTART ROT
A
PUMP CEMENT; PRESS @ 2500psi
B
CMT UNIT EST. CIRC W/ 3100psi / 40BPM
1500
1600
1700
1800
1830
1900
2000
2100
2200
2300
2400
1.25
1.50
1.75
2.00
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10.75
11.00
11.25
11.50
11.75
12.00

Appendix 3: Hook-up Drawing

7-5/8" CEMENTED LINER SYSTEM

CUSTOMER: ADA / NEXUS

COUNTRY: AUSTRALIA FIELD:

QUOTATION NO. 1576-08 WELL NO. LONGTOM-4

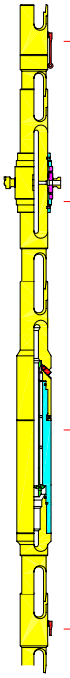
DRAWING NO. Rev 1

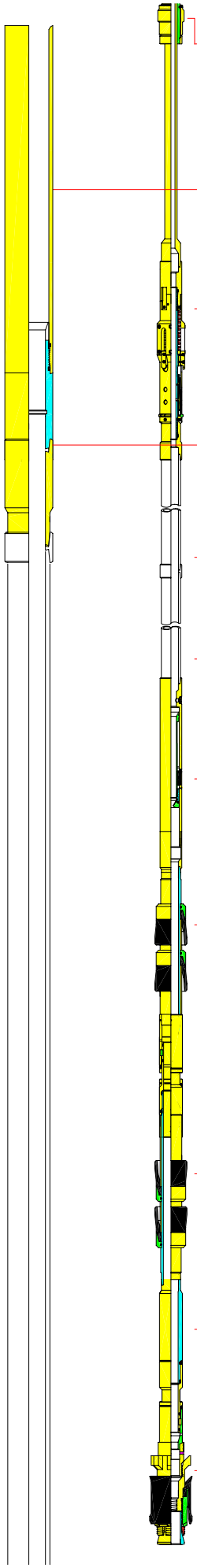
APPROVED BY: A. ORCHARD

DRAWN BY: A. ORCHARD

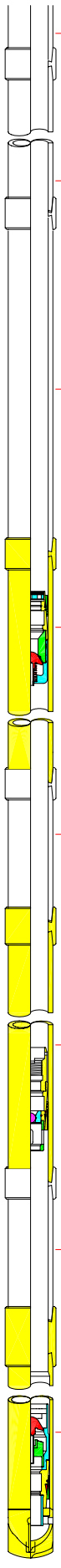
DATE: 12-AUG-08

Baker Oil Tools

MAX. O.D.	MIN. I.D.	WELL SCHEMATIC	DESCRIPTION	LENGTH	DEPTH
10.400"	3.00"		KELLY VALVE SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: PRODUCT NO: H27820		
			TD SWIVEL SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27825		
9.500"	3.500"		PLUG DROPPING TD HEAD SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27828		
6.125"	3.250"		FLAG SUB SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27821		
2.280"	N/A		PUMP DOWN PLUG SIZE: 2.28" THREADS: MATERIAL: NITRILE / PHENOLIC PRODUCT FAMILY: H27020		
1.50"	N/A		SETTING BALL SIZE: 1.750" THREADS: MATERIAL: PHENOLIC PRODUCT FAMILY: H078835700		
6.375"	3.000"		LIFT NIPPLE SIZE: 4.5" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS		



8.250"	N/A"	PRODUCT NO: H26520 JUNK COVER F/ 4.5" OD LIFT NIPPLE STEM SIZE: 7" THREADS: N/A MATERIAL: 110 KSI MYS PRODUCT NO: H26530
8.25	6.76	HRD SLEEVE WITH EXTENSION 8.25" OD X 7.75" ID X 6FT PBR EXTN SIZE: 7.625" THREADS: 7.625" 29.7# HYDRIL 511 MATERIAL: 80 KSI MYS PRODUCT FAMILY: H29532
7.395"	2.453"	HRD SETTING TOOL 2,500 PSI RELEASE SIZE: 4.5" THREADS: 4.5" IF BOX X 2.875" EU 8RD BOX MATERIAL: 110 KSI MYS PRODUCT NO: H26693
		CROSSOVER BUSHING CLIENT OWNED SIZE: 7.625" 29.7# X 7" 26# THREADS: HYDRIL 511 X HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
3.25"	2.50"	TUBING PIN X PIN HEAVY WALLED SIZE: 2.875" THREADS: EU 8RD MATERIAL: 80 KSI MYS
3.25"	2.50"	TUBING PIN X PIN HEAVY WALLED SIZE: 2.875" THREADS: EU 8RD MATERIAL: 80 KSI MYS
		ST LANDING SUB USES 1.50" OD BALL SIZE: 7" THREADS: 2.875" EU 8RD MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SWAB CUP ASSEMBLY DUAL DOWN FACING CUPS SIZE: 7" 26# THREADS: 2.875" MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SWAB CUP ASSEMBLY DUAL UP FACING CUPS SIZE: 7" 26# THREADS: 2.875" MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SOLO PLUG RELEASE TOOL SIZE: 7" THREADS: 2.875" EU 8RD MATERIAL: 110 KSI MYS PRODUCT FAMILY: H26937
		SOLO LINER WIPER PLUG SIZE: 7" 17–35 LB/FT THREADS: N/A MATERIAL: NITRILE AND ALUMINIUM PRODUCT FAMILY: H26938

7"	6.276"		LINER JOINT CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
7"	6.276"		LINER JOINTS CUSTOMER OWNED SIZE: 7" 26# AND 29# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
7"	6.276"		LINER JOINTS CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
			INSERT VALVE FLOAT COLLAR SINGLE FLOAT C/W BAFFLE PLATE SIZE: 7" 26# THREADS: N/A MATERIAL: ALUMINIUM PRODUCT FAMILY: H26662
7"	6.276"		LINER JOINT / PUP CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
			INSERT LANDING COLLAR TYPE II SIZE: 7" 26# THREADS: N/A MATERIAL: ALUMINIUM PRODUCT FAMILY: H26659
7"	6.276"		LINER JOINT / PUP CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
8.25			REAMER SHOE SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: ALUMINIUM PRODUCT FAMILY: BBL

Nominal Illustration

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Appendix 4: Equipment List

Nexus Energy

Well : **Longtom 4**
Job: **S1151**

(A) PRIMARY SALES ITEMS (NOTE: THIS ITEMS WERE SUPPLIED BY NEXUS)

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H295422028	Nexus Supplied	1	HRD Setting Sleeve	05-Aug-08
2	H299695388	Nexus Supplied	1	Crossover Sub	07-Aug-08

(B) PRIMARY RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H265200006	10107026	1	4 1/2" IF Lift Nipple	06-Aug-08
2	H265300012	ZTSL1055	1	Junk Cover	05-Mar-08
3	H266800059	10526539	1	7 5/8" HRD Running Tool	

(C) BACKUP SALES ITEMS (NOTE: THIS ITEMS WERE SUPPLIED BY NEXUS)

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H295422028	Nexus Supplied	1	HRD Setting Sleeve	06-Aug-08
2	H299695388	Nexus Supplied	1	Crossover Sub	07-Aug-08

(D) BACKUP RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1			1	4 1/2" IF Lift Nipple	
2			1	Junk Cover	
3	H266800040		1	7 5/8" HRD Running Tool	

(E) LOOSE RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H276040087	10526541	1	Swab Cup Assembly No.1	
2	H276040087	10526542	1	Swab Cup Assembly No.2	
3	H265290019	10524777	1	Pup Joint 2 7/8" EU Pin X 2 7/8" EU Pin	07-Aug-08
4	H265290019	10524778	1	Pup Joint 2 7/8" EU Pin X 2 7/8" EU Pin	07-Aug-08
5	H269370002	ZZBRN0510	1	7" Solo Plug Adapter	01-Jul-08
6	H269370002	ZZBRN0517	1	7" Solo Plug Adapter	30-Jun-08
8	-	-	4	Coupling 2 7/8" EU Box X Box	N/A

(F) CEMENT HEAD ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H265200071	ZTSL180	1	4 1/2" IF Lift Nipple	
2	H27820K008	ZTSL357	1	Kelly Valve	10-Jun-08
3	H278250016	ZLCS407	1	TD Swivel	10-Jun-08
4	H278280003	ZTSL385	1	Plug Dropping Head	10-Jun-08
5	H278210011	ZTS164A	1	Flag Sub	01-Feb-07

(G) OTHER LOOSE ITEMS

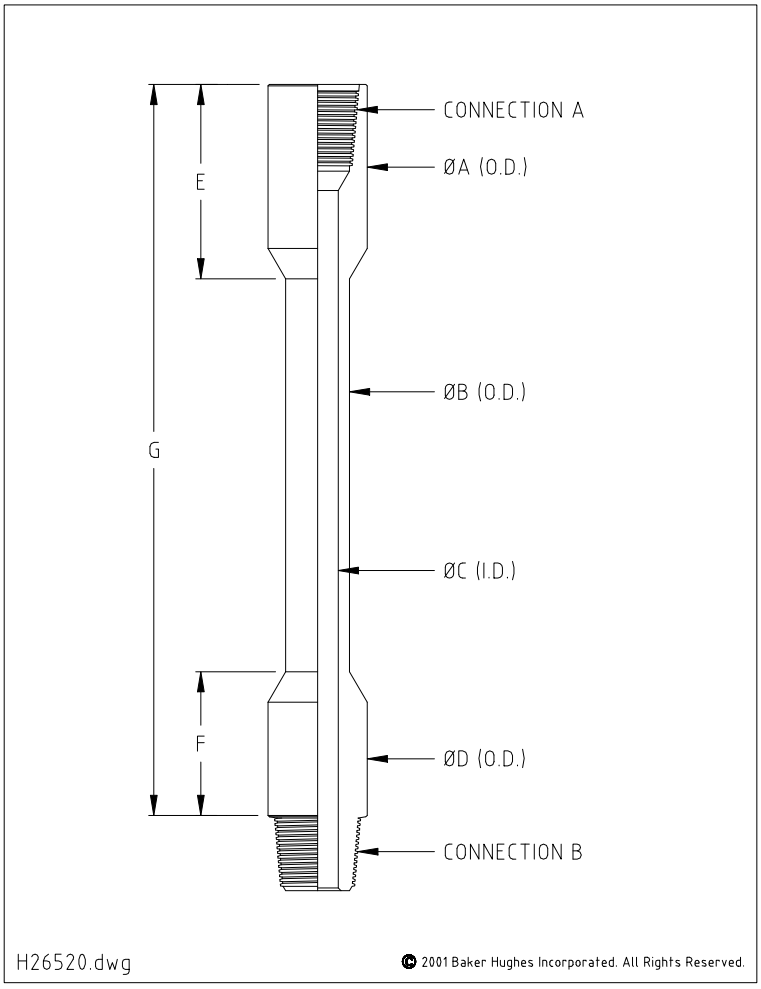
No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H269380004	-	2	7" Solo Plug	N/A
2	H270200155	-	2	Pump down plug F/- 7" Solo Plug	N/A
3	H078237800	-	2	Type 1 Insert Landing Collar	N/A
4	H078300803	-	2	Insert Float Valves	N/A
5	H078238611	-	4	Insert Seal Unit	N/A
6	H078237903	-	2	Shear out Ball Seat	N/A
7	H078238000	-	2	Ball Catcher	N/A
8	H078835701	-	2	1.75" Ball	N/A
9	H078835700	-	2	1.5" Ball	N/A
10	H078286700	-	1	Hand Pump	N/A
11	H266574002	-	1	Hydraulic Setting Tool	N/A
12	H26657	-	1	Insert Tool Adapter F/- 7"	N/A
13	H276050010	10573171	1	7" ST Landing Sub	N/A
14	10118178	ZZTBM9854	1	Tieback Mill	N/A
15	10222221	-	1	7.625" 33.7# BTC box x 7" 26# Fox box crossover	03-Sep-08
16	10222222	-	1	7.625" 33.7# VAM FJL pin x 7.625" 33.7# BTC pin crossover	03-Sep-08
17	10118250	-	1	Tieback seal assembly 7.625" 33.7# VAM FJL box	03-Sep-08

Appendix 5: Component Inspection Sheets

Component Inspection:

Serial No: 10107026 **Material No: H265200006**

Description : Lift Nipple



Connections

Connection 1
4 ½" IF BOX

Connection 2
4 ½" IF PIN

Dimensions
By B Hall

Date: 6-8-08

A: 6.125"
B: 4.508"
C: 2.992"
D: 6.125"
E: 0.560m
F: 0.450m
G: 4.162m

Other Details

Size: 4 ½" IF

Max OD:
6.125"

Min ID: 2.992"

Drift: 2.33"

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 6-8-08

Final Field Inspection
Checked By :

Signed :

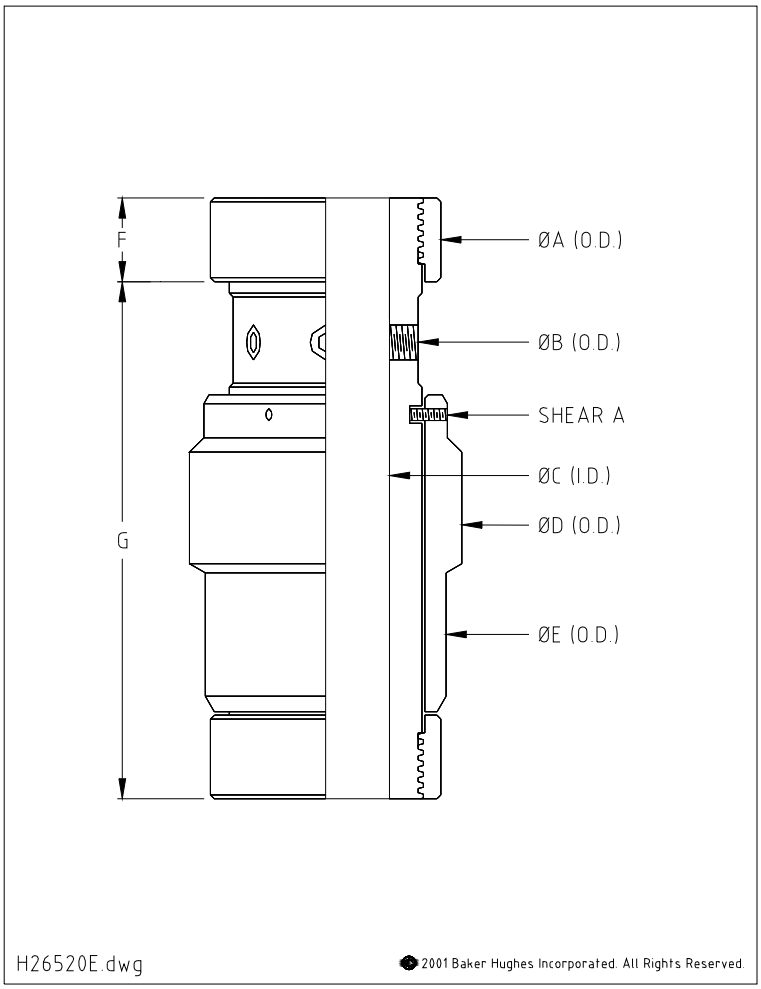
Date :

Comments

Component Inspection:

Serial No: ZTSL1055 **Material No: H265300012**

Description : 7” SLIDING JUNK COVER



Dimensions
By B.Hall

Date:

A: 7.115”
B: 6.125”
C: 5.090”
D: 8.125”
E: 7.313”
F: 0.050m
G: 0.333m

Other Details

Size: 7”

Material: 4140

Max OD: 8.125”

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Shear Detail
Shear A 4 x 3/8” Brass = 14,260lbs

Final Workshop Inspection

Checked By : B.Hall

Checked By:
Approved by:

Date : 05.03.08

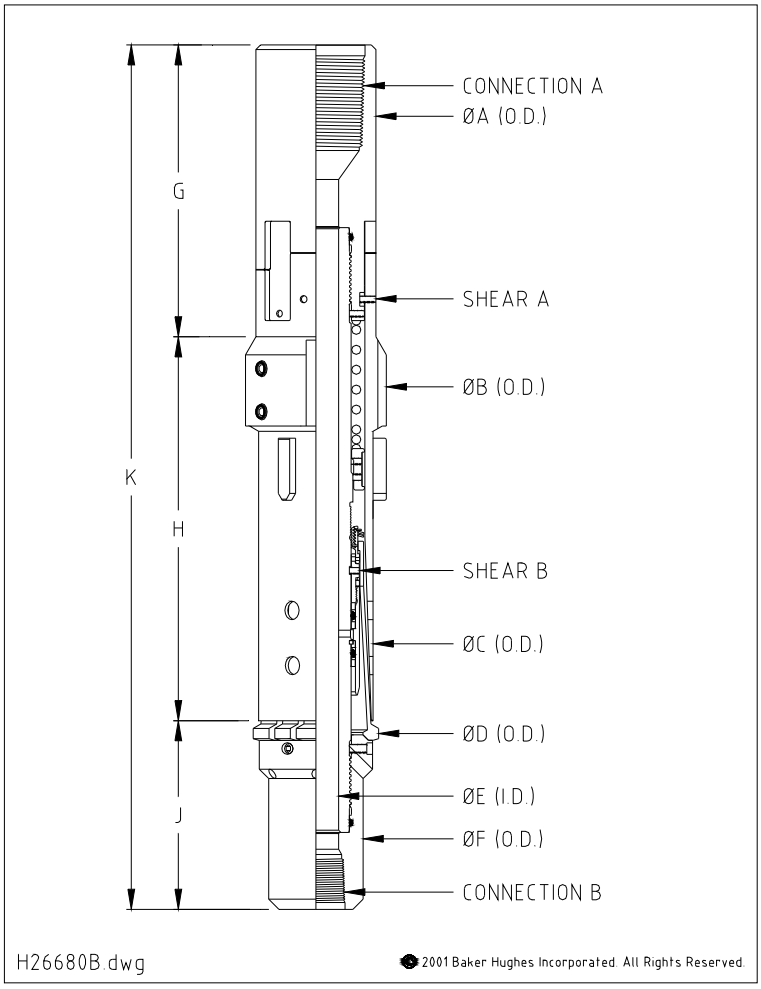
Final Field Inspection
Checked By
Signed :

Date :

Component Inspection:

Serial No: New 1 **Material No: H266800040**

Description : 7 5/8" HRD Setting Tool



Connections

Connection 1
4 ½" IF BOX

Connection 2
2 7/8" EU Box

Dimensions
By B Hall

Date 5-8-08

A: 6.500"
B: 7.655"
C: 6.670"
D: 7.230"
E: 2.450"
F: 5.415"
G: 0.405m
H: 0.530m
J: 0.255m
K: 1.192m

Other Details

Size: 7 5/8"

Max OD:
7.655"

Min ID: 2.450"

Drift: 2.330"

Shear Detail
Shear A: 2500psi – 5 Pins
Shear B: 4650FT/LBS – 2 Pins

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :

Signed :

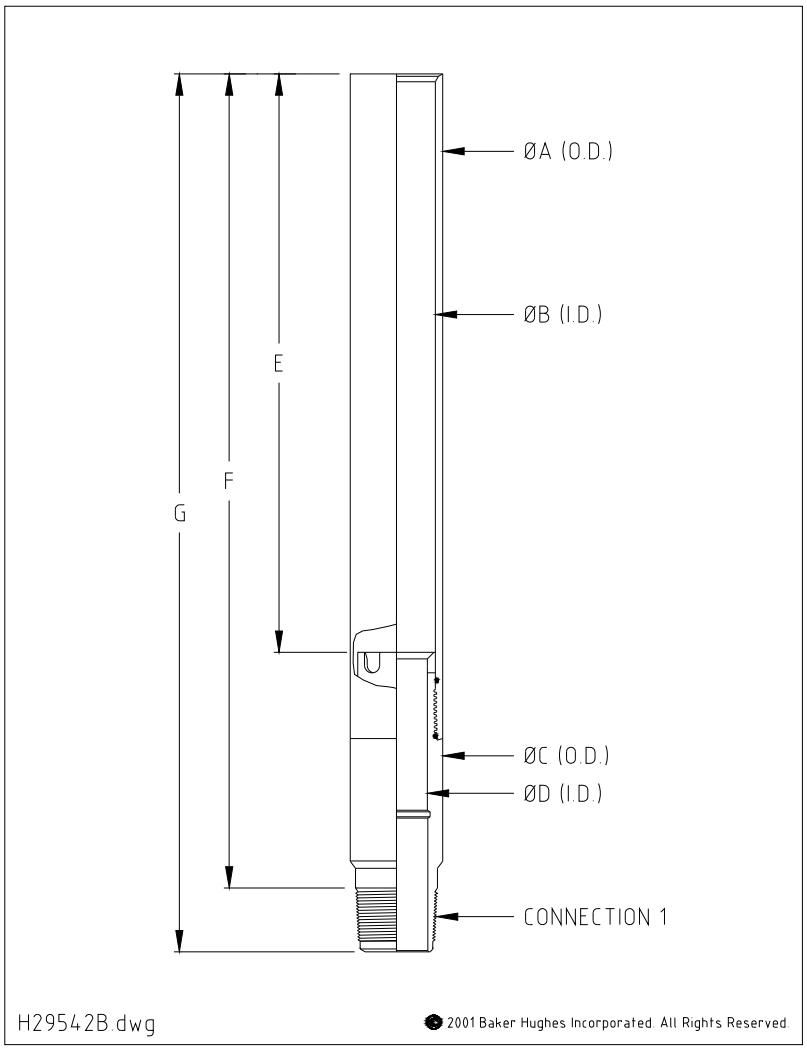
Date :

Comments

Component Inspection:

Serial No: Nexus Owned **Material No: H295422028**

Description : HRD Setting Sleeve



Connections

Connection 1
7 5/8" 29.7#
HYDRIL Box

Other Details

Size: 7 5/8"

Max OD: 8.254

Min ID: 6.760"

Dimensions
By C Carmody

Date 5-8-08

A: 8.254"
B: 7.735"
C: 7.666"
D: 6.760"
E: 7.805m
F: 2.430m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :

Signed :

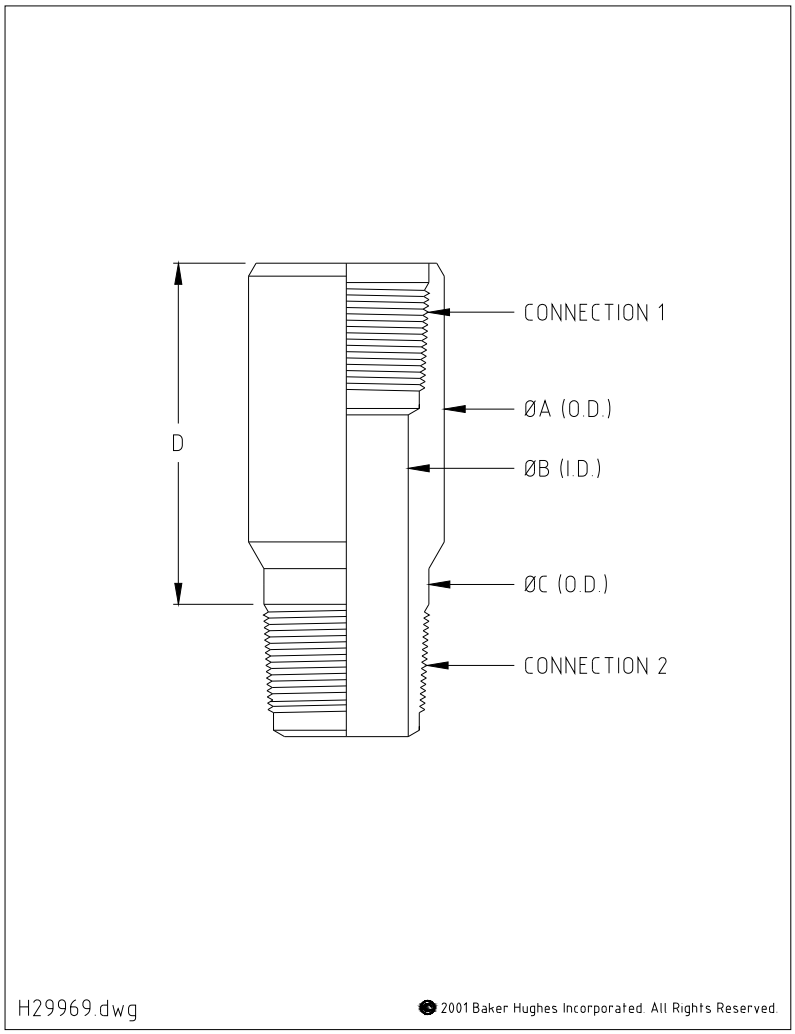
Date :

Comments
Nexus Supplied HRD Setting Sleeve F/- Longtom 4.

Component Inspection:

Serial No: Nexus Owned **Material No: H299695388**

Description : Crossover Sub



Connections

Connection 1
7 5/8" 29.7#
HYDRIL Box

Connection 2
7" 26# HYDRIL
Pin

Other Details

Size: 7 5/8"

Max OD:
7.628"

Min ID: 6.135"

Dimensions
By C Carmody

Date: 7-8-08

A:7.628"
B: 6.135"
C: 7.003"
D: 0.215m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :

Signed :

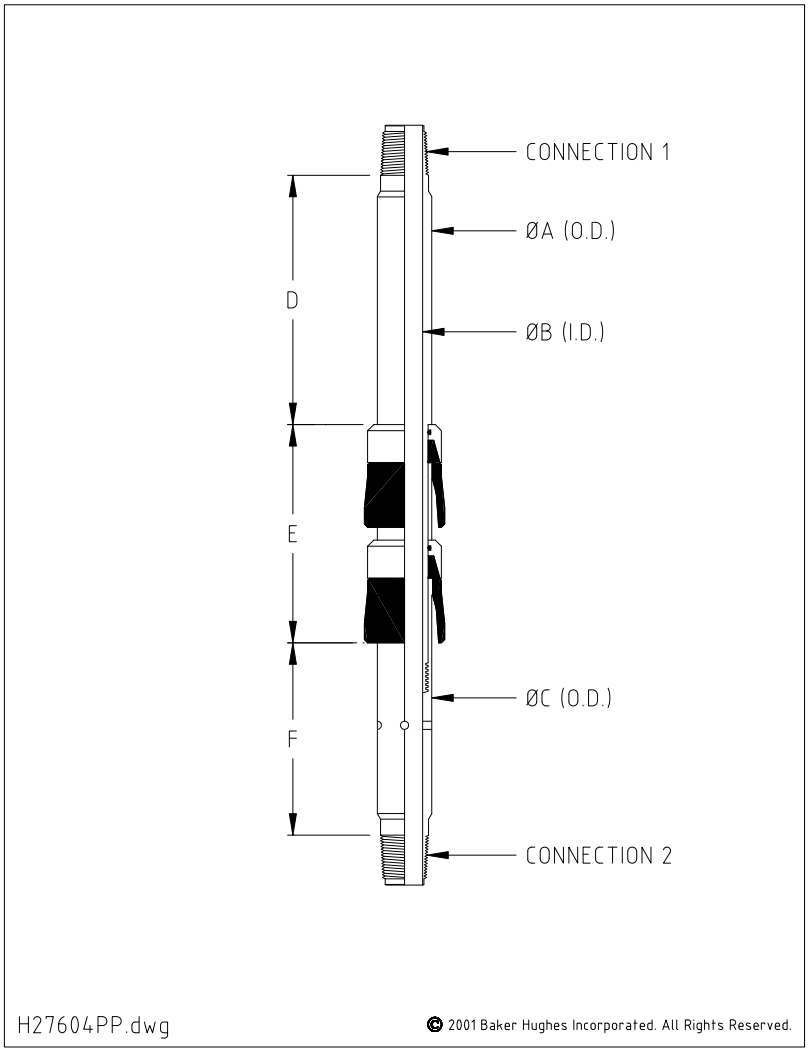
Date :

Comments

Component Inspection:

Serial No: No.1 **Material No:**

Description : 7” 26-29# Swab Cup Assembly



Connections

Connection 1
2 7/8” EU Pin

Connection 2
2 7/8” EU Pin

Dimensions
By B Hall

Date 5-8-08

A: 4.00”
B: 2.482”
C: 4.250”
D: 0.228m
E: 0.390m
F: 0.437m

Total Length:
1.055m

Other Details

Size: 7” 26-29#

Material: 4140

Max OD:
6.340”

Min ID: 2.482”

Drift: 2.330”

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :
Signed :

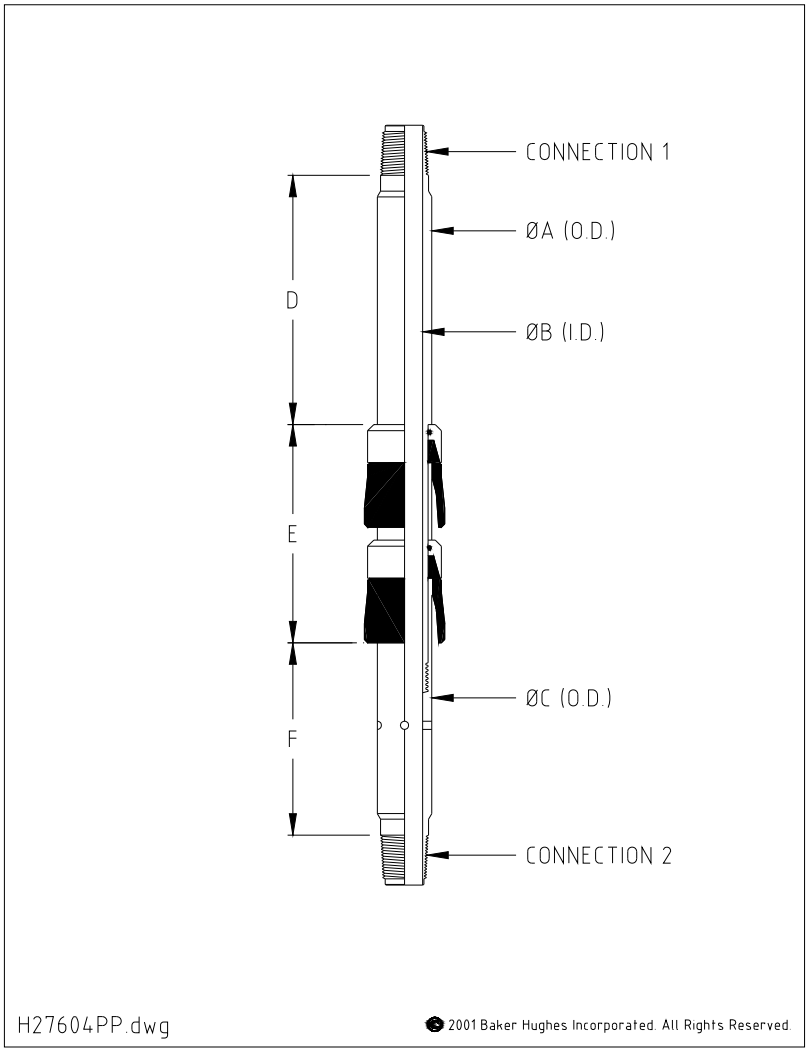
Date :

Comments
Thimble Size: 6” OD

Component Inspection:

Serial No: No.2 **Material No:**

Description : 7” 26-29# Swab Cup Assembly



Connections

Connection 1
2 7/8” EU Pin

Connection 2
2 7/8” EU Pin

Dimensions
By B Hall

Date 5-8-08

A: 4.00”
B: 2.482”
C: 4.250”
D: 0.228m
E: 0.390m
F: 0.437m

Total Length:
1.055m

Other Details

Size: 7” 26-29#

Material: 4140

Max OD:
6.340”

Min ID: 2.482”

Drift: 2.330”

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :
Signed :

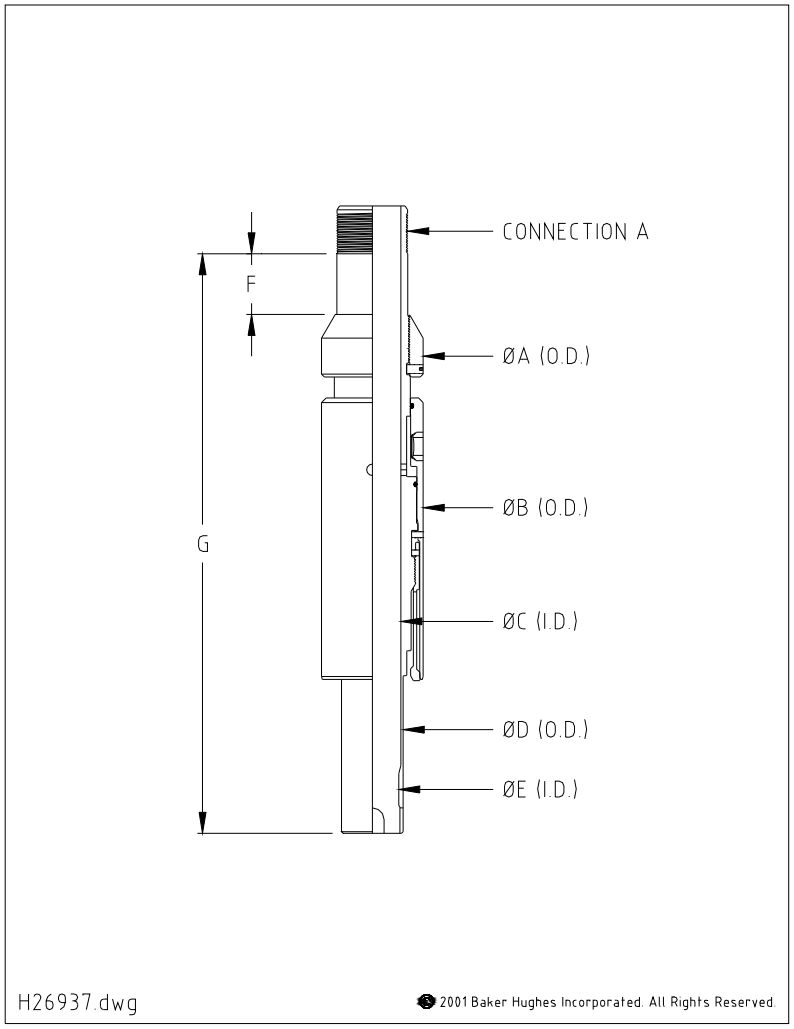
Date :

Comments
Thimble Size: 6” OD

Component Inspection:

Serial No: ZZBRN0510 **Material No: H269370002**

Description : LWP REL TL, SOLO 7.000 IN-11.7" 2.8"
7.000 IN-11.700 IN LINER WIPER PLUG
RELEASING SOLO 2.875 IN EU 8RD PIN UP
4.450 IN OD 2.310 IN ID 110 KSI MYS



Connections

Connection 1
2 7/8" EU Pin

Dimensions
By C Carmody

Date 1-7-08

A: 4.451"
B: 4.453"
C: 2.470"
D: 2.707"
E: 2.320"
F: 0.236m
G: 0.798m

Other Details

Size: 7"

Material: L80

Max OD: 4.453"

Min ID: 2.320"

Shear Detail
Shear A: 3 ¼" x ½" Shear Screws.
Shear B: 1.25" 5,000 PSI Rupture Disc

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 1-7-08

Final Field Inspection
Checked By :
Signed :

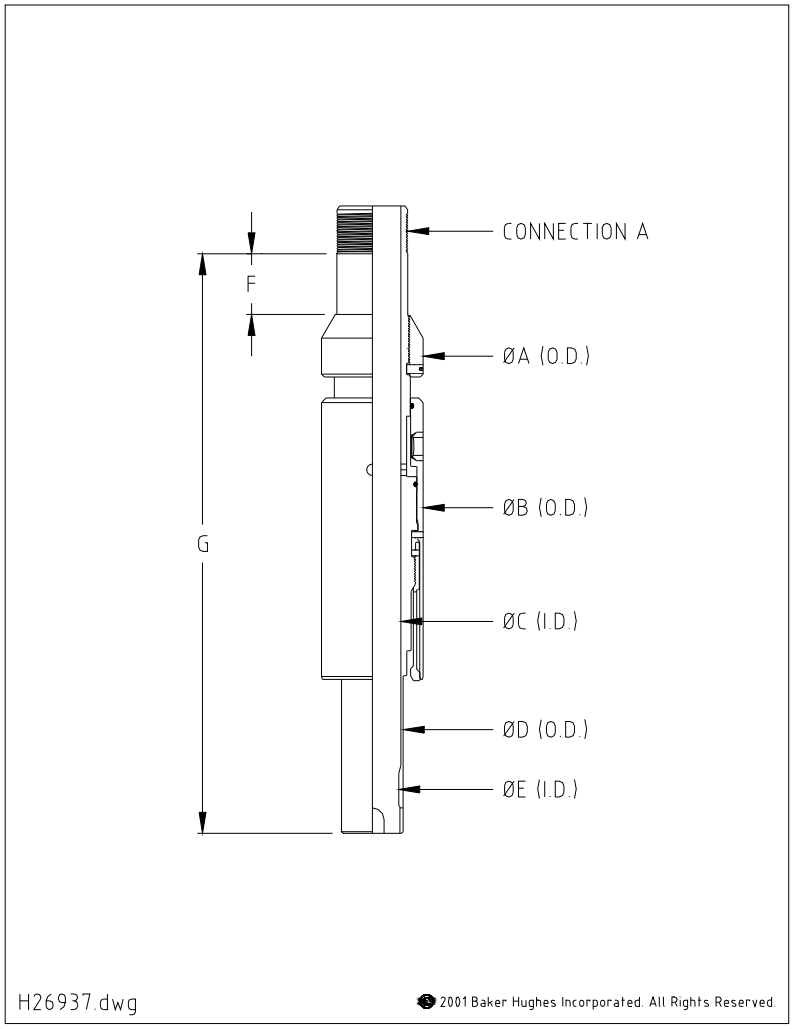
Date :

Comments

Component Inspection:

Serial No: ZZBRN0517 **Material No: H269370002**

Description : LWP REL TL, SOLO 7.000 IN-11.7" 2.8"
7.000 IN-11.700 IN LINER WIPER PLUG
RELEASING SOLO 2.875 IN EU 8RD PIN UP
4.450 IN OD 2.310 IN ID 110 KSI MYS



Connections

Connection 1
2 7/8" EU Pin

Dimensions
By B Hall

Date 30-6-08

A: 4.452"
B: 4.450"
C: 2.470"
D: 2.708"
E: 2.320"
F: 0.238m
G: 0.800m

Other Details

Size: 7"

Material: L80

Max OD:
4.450"

Min ID: 2.320"

Shear Detail
Shear A: 3 ¼" x ½" Shear Screws.
Shear B: 1.25" 5,000 PSI Rupture Disc

Final Workshop Inspection

Checked By: B Hall
Checked By:
Approved by:

Date : 30-6-08

Final Field Inspection
Checked By :
Signed :

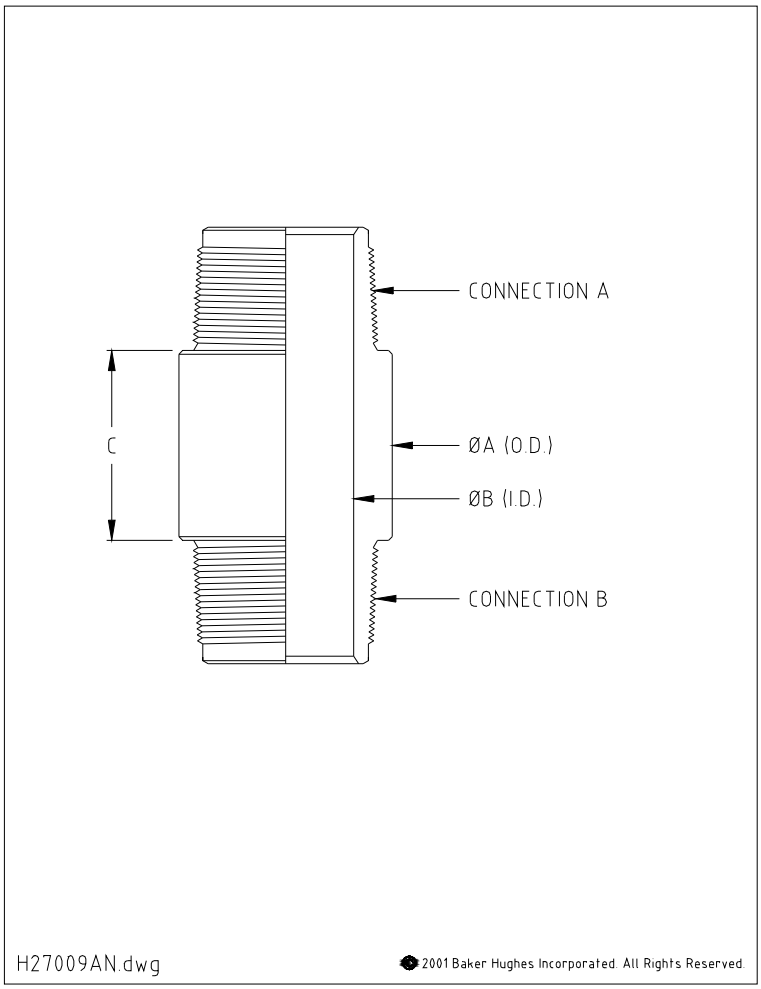
Date :

Comments

Component Inspection:

Serial No: 10524777 **Material No: H265290019**

Description : Pup Joint



Connections

Connection 1
2 7/8" EU Pin

Connection 2
2 7/8" EU Pin

Other Details

Max OD:
3.100"

Min ID: 2.455"

Drift: 2.33

Dimensions
By C Carmody

Date 7-8-08

A: 3.100"
B: 2.455"
C: 0.667m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :
Signed :

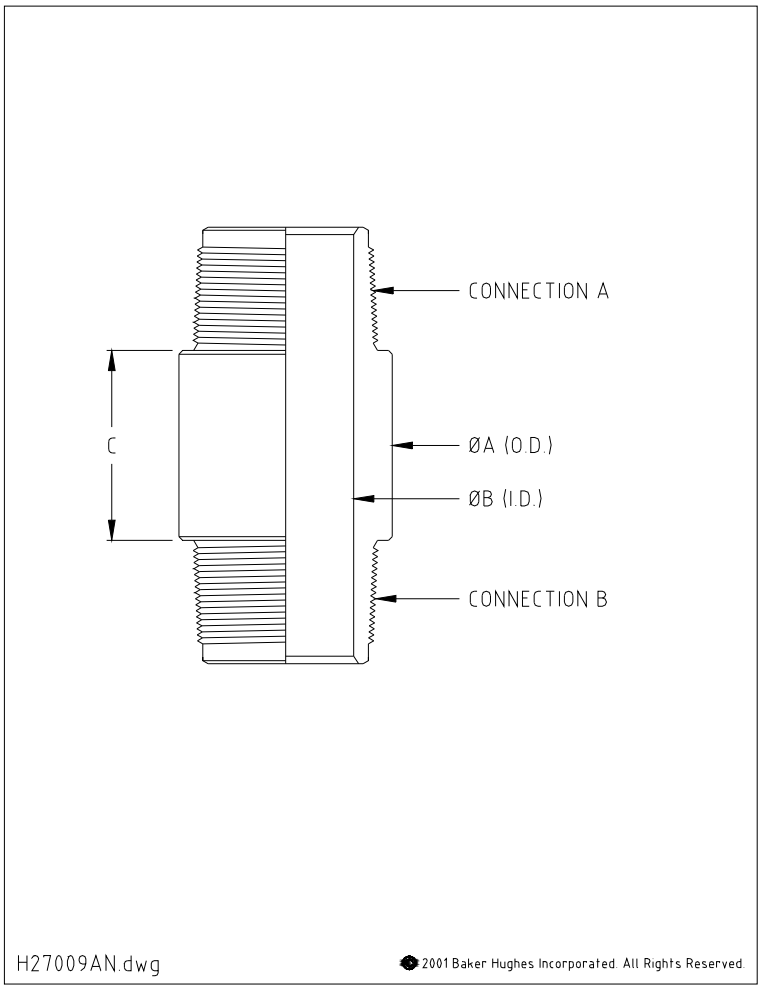
Date :

Comments

Component Inspection:

Serial No: 10524778 **Material No: H265290019**

Description : Pup Joint



Connections

Connection 1
2 7/8" EU Pin

Connection 2
2 7/8" EU Pin

Other Details

Max OD:
3.100"

Min ID: 2.455"

Drift: 2.33

Dimensions
By C Carmody

Date 7-8-08

A: 3.100"
B: 2.455"
C: 0.667m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :
Signed :

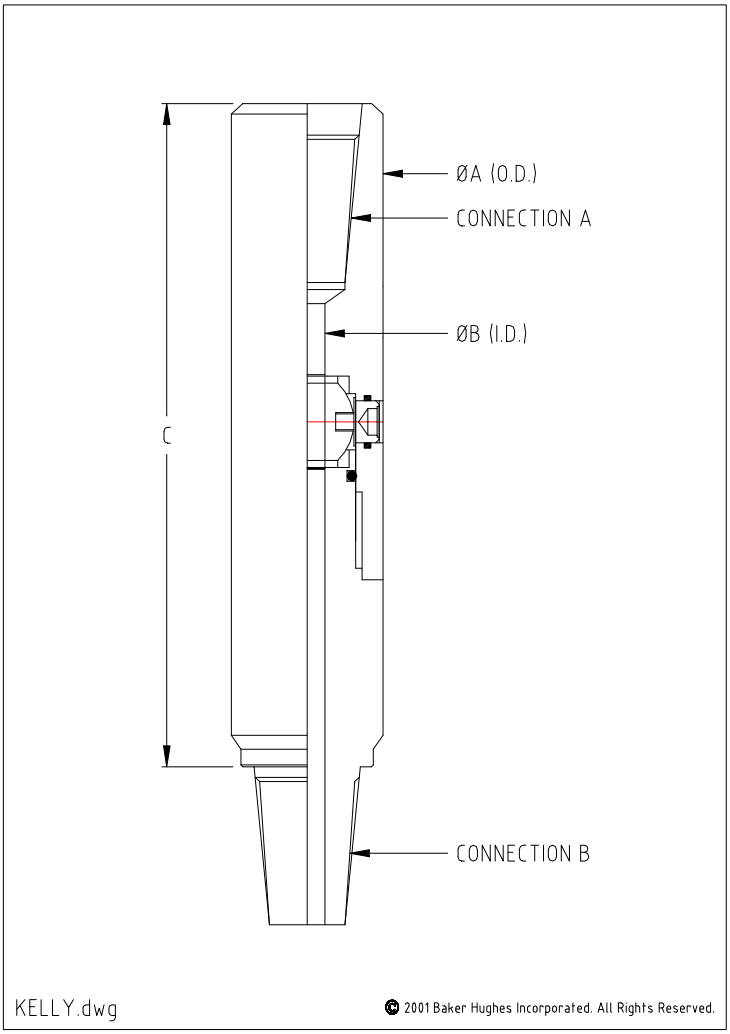
Date :

Comments

Component Inspection:

Serial No: ZTSL357 **Material No: H27820K008**

Description : LOWER KELLY VALVE, 4 ½" IF BOX x PIN



Connections

Connection A
4 ½" IF BOX

Connection B
4 ½" IF PIN

Other Details

Size: 4 ½" IF

Max OD: 6.625

Min ID: 2.750"

Dimensions
By S McEwen

Date 10.04.2008

A: 6.625"
B: 2.750"
C: 0.670 m

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 10.06.2008

Final Field Inspection
Checked By :

Signed :

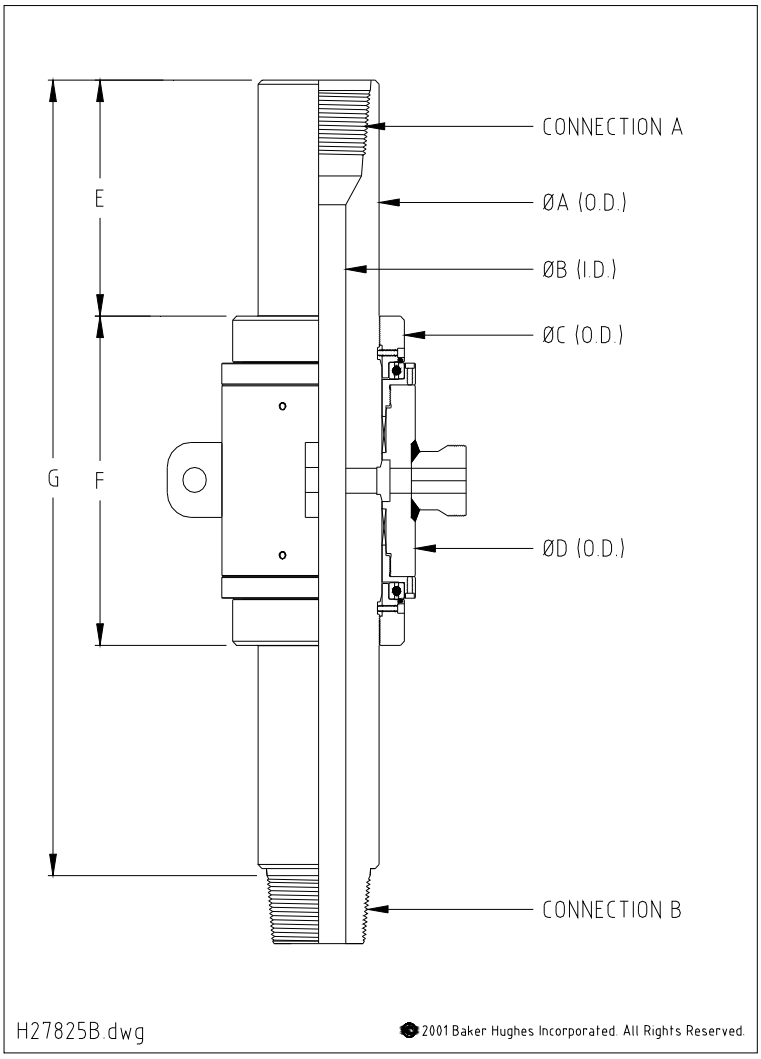
Date :

Comments

Component Inspection:

Serial No: ZLCS407 **Material No: H278250011**

Description : TD SWIVEL W-/ 4 ½" IF CONNECTIONS



Connections

Connection A
4 ½[' IF BOX

Connection B
4 ½" IF PIN

Dimensions
By S McEwen

Date 10.04.08

A: 6.375"
B: 3.00"
C: 9.00"
D: 10.375"
E: 0.362 m
F: 0.445 m
G: 1.155 m

Other Details

Size:

Range of Function:

Material:

3rd Party ID:

Max OD:

Min ID:

Drift

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 10.06.08

Final Field Inspection
Checked By :

Signed :

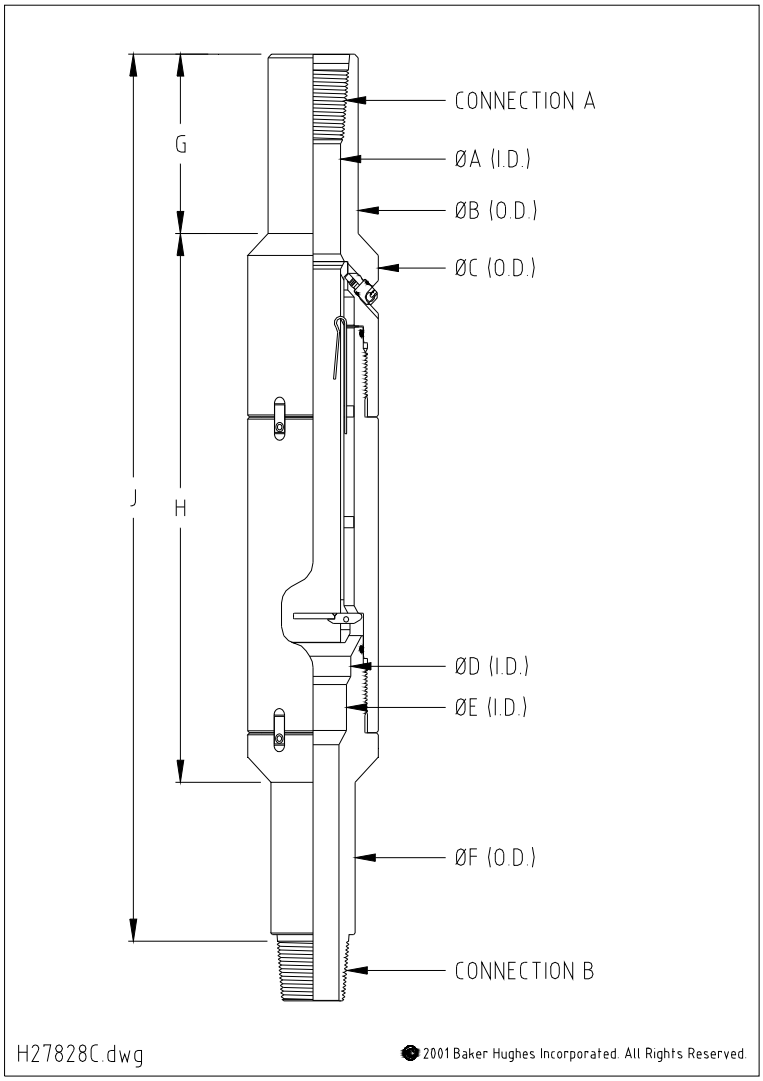
Date :

Comments

Component Inspection:

Serial No: ZTSL385 **Material No: H278280003**

Description : TD PLUG DROPPING HEAD



Connections

Connection 1
4 ½" IF Box

Connection 2
4 ½" IF Pin

Dimensions
By
Date

Other Details

Size:

Material: 4140

Max OD:

Min ID:

Drift

A: 4.00"
B: 6.300"
C: 9.500"
D: 5.5"
E: 4.875"
F: 0.500"
G: 0.280 m
H: .953 m
J: 1.500 m

Function Test

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 4.6.08

Final Field Inspection
Checked By :
Signed :

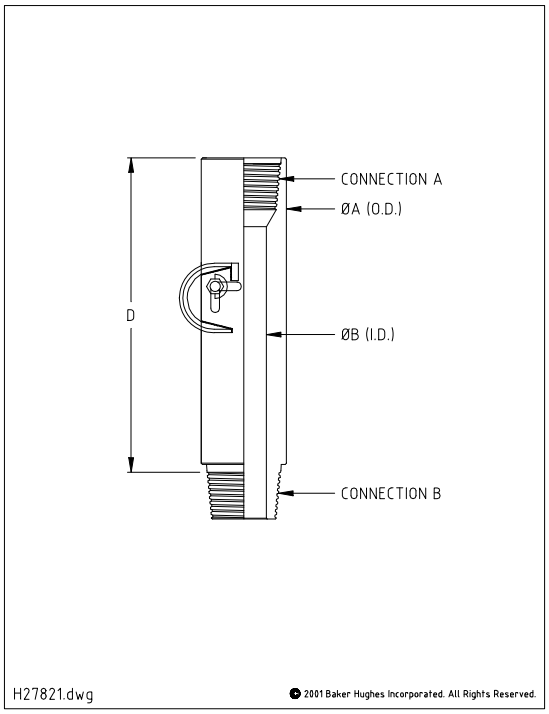
Date :

Comments
THIS INSPECTION SHEET WAS CREATED WITH REFERENCE TO TOOL: ZTSL651 – H278280003

Component Inspection:

Serial No: ZTS164A **Material No: H278210011**

Description : FLAG SUB



Connections

Connection 1
4 ½" IF Box

Connection 2
4 ½" IF Pin

Dimensions
By

Date

A: 6.125"
B: 3.250"
C: 8.438"
D: 0.482 m

Other Details

Size:

Material: 4140

Max OD:

Min ID:

Drift

Function Test

Final Workshop Inspection

Checked By : BRUCE HALL
Checked By:
Approved by:

Date : 01.02.2007

Final Field Inspection
Checked By :

Signed :

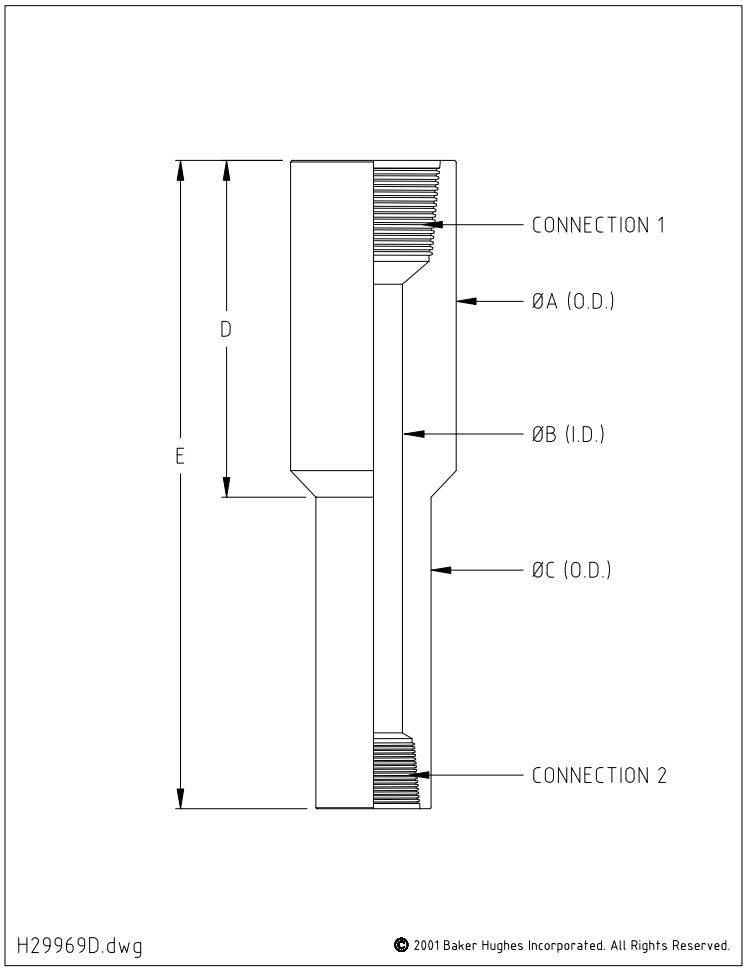
Date :

Comments

Component Inspection:

Serial No: N/A **Material No: 10222221**

Description : Crossover Sub



Connections

Connection 1
7.625" 33.70#
Buttress Box

Connection 2
7" 26#
Fox Box

Dimensions
By C Carmody

Date 3-9-08

A: 8.560"
B: 6.250"
C: 7.657"
D: N/A
E: 0.446m

Other Details

Size: 8.560"

Material: 80 KSI

Max OD: 8.560"

Min ID: 6.250"

Drift 6.151"

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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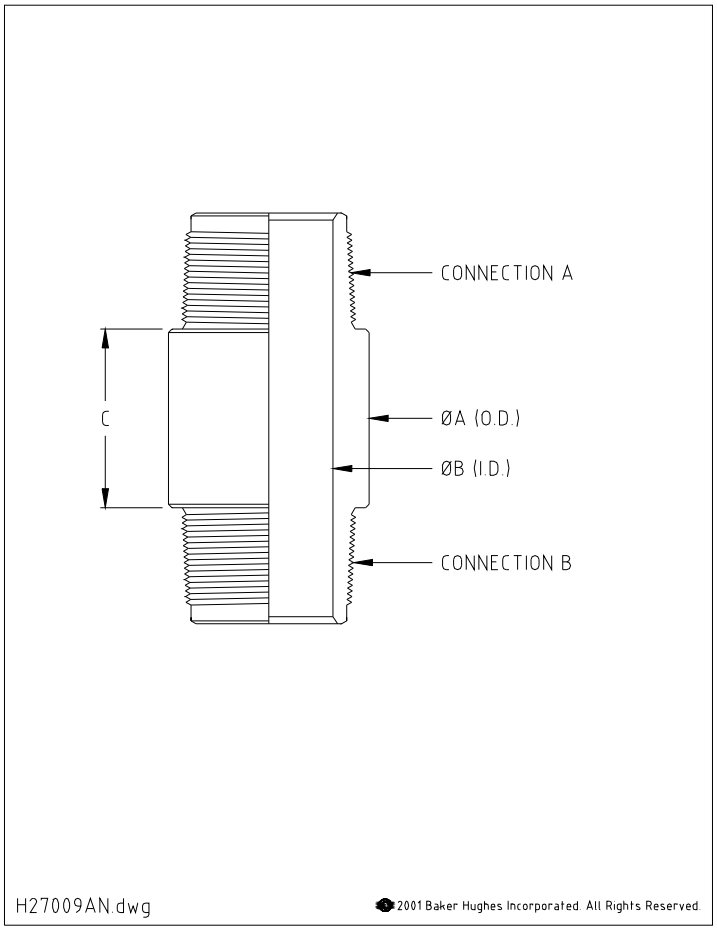
Component Inspection:

Serial No: N/A **Material No: 10222222**

Description : Crossover Sub



Connections

Connection 1
7.625” 33.70#
VAM FJL PIN

Connection 2
7.625” 33.70#
Buttress PIN

Dimensions
By C Carmody

Date 3-9-08

A: 8.230”
B: 6.700”
C: 0.194m

Other Details

Material: 80 KSI

Max OD: 8.230”

Min ID: 6.700”

Drift 6.151”

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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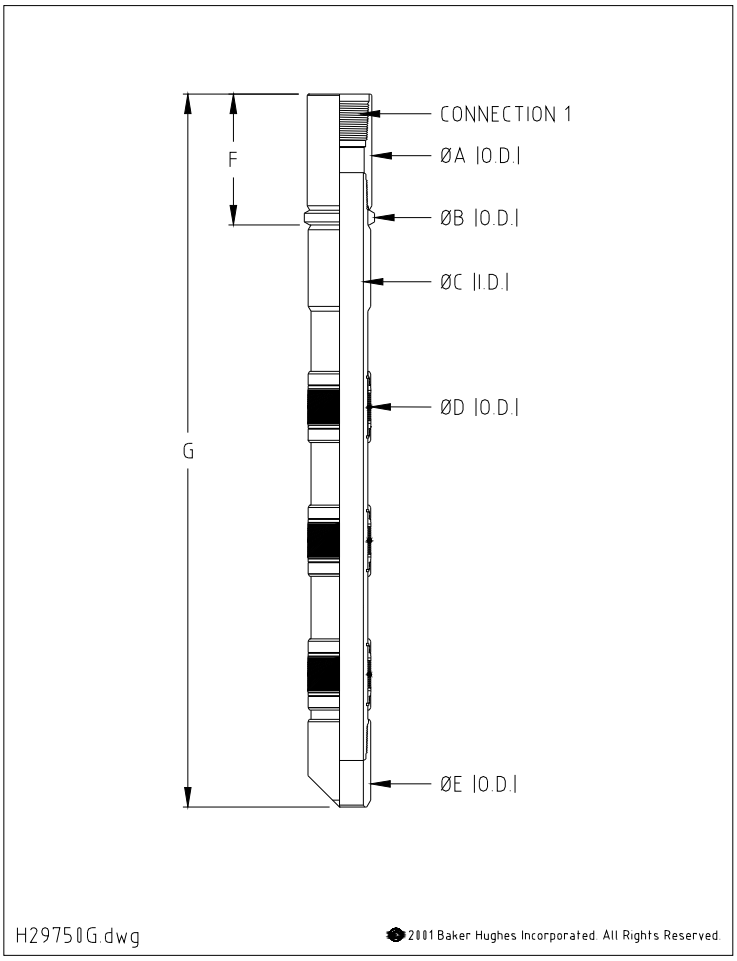
Component Inspection:

Serial No: N/A **Material No: 10118250**

Description : Tieback Seal Stem



Connections

Connection 1
7.625" 33.70#
VAM FJL Box

Dimensions
By C Carmody

Date 3-9-08

A: 7.500"
B: 8.350"
C: 6.683"
D: 7.727"
E: N/A
F: 0.66m
G: 1.765m

Other Details

Size: 7.727

Range of Function:

Material: L80

Max OD: 8.350"

Min ID: 6.683"

Drift: 6.151"

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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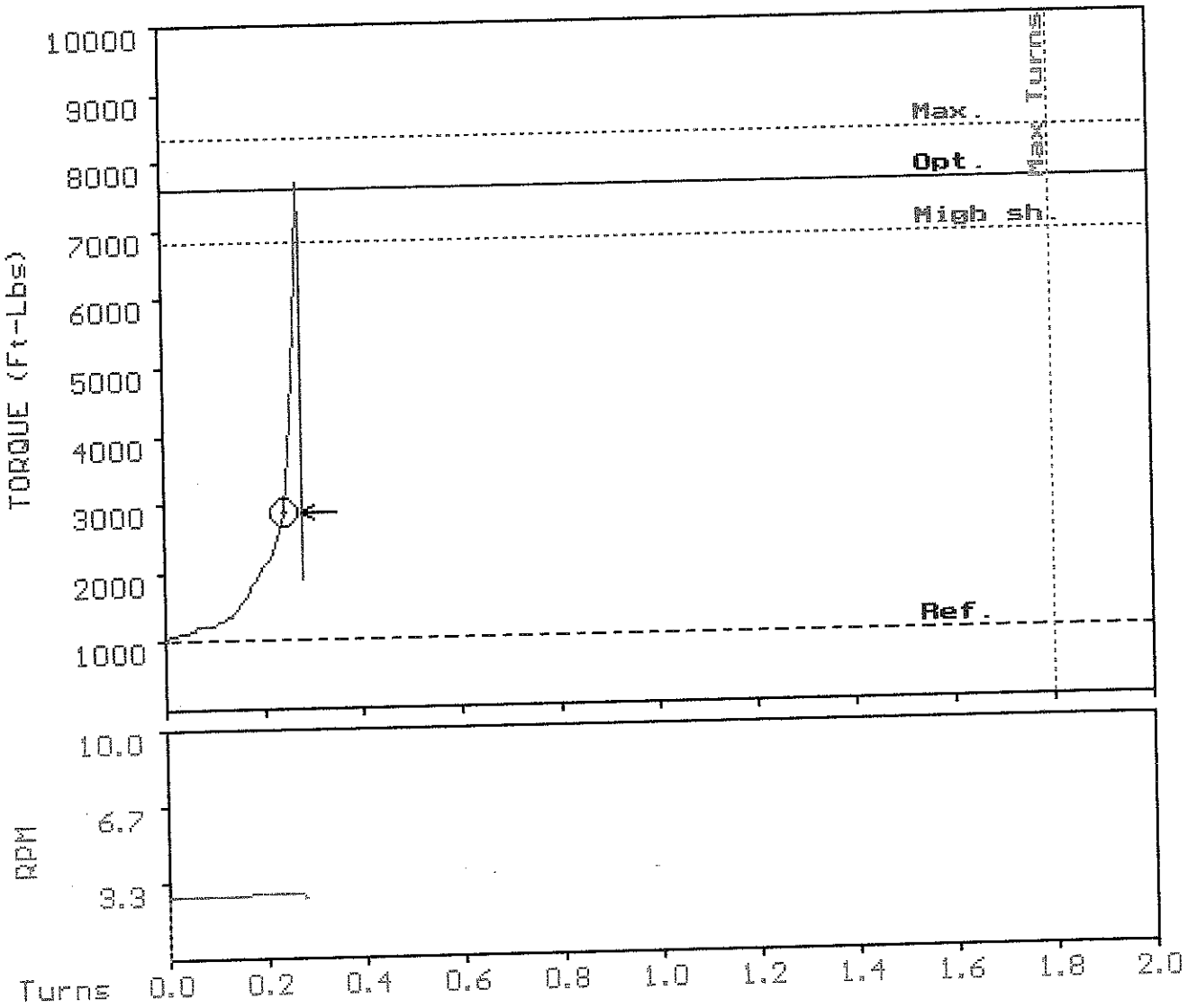
Appendix 6: Torque Charts for Contingency Tie-Back Seal Assembly



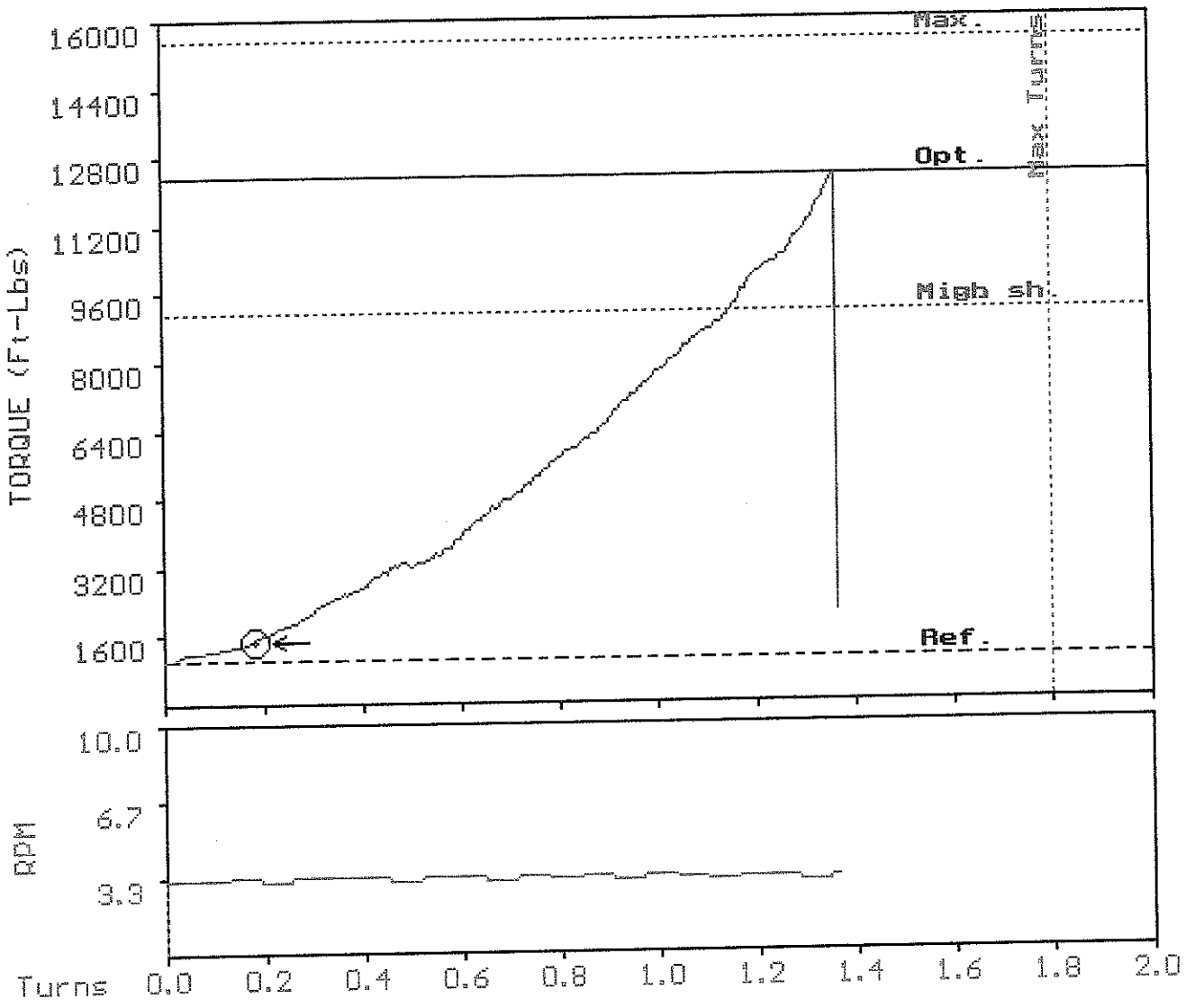
Joint # : V- 3.0 9/5/2008 9:42:30

* Torque Data *

Final Torque : 7697
Delta Torque : 4823
Shld. Torque : 2874
Comment : NEXUS S.ASSY-XOVER JT1 BG

* Turn Data *

Final Turns : 0.276
Delta Turns : 0.036
Max. R.P.M. : 2.842
Depth : 93.00



Joint # : V- 3.0 9/5/2008 9:40:23

* Torque Data *

Final Torque : 12340
Delta Torque : 10873
Shld. Torque : 1467
Comment : NEXUS XOVER-XOVER JT2 BG

* Turn Data *

Final Turns : 1.361
Delta Turns : 1.181
Max. R.P.M. : 3.335
Depth : 93.00

Report Title: Post Job Report

Report Number: SAL-019

BOT FA Reference:
(if applicable)

Client / Operator: Nexus Energy, via ADA
(if applicable)

Project / Well name: Longtom-4

Product Line: Open Hole Completions

Originating Location: Sale

Approved Distribution List:
BOT: I. Somerville, I. Rebullo
ADA: M. Siegman

We, the undersigned are fully aware of the content of this report and approve the release of same.

Rev	Date	Comments	Region Manager Approval	Area/District Manager Approval	Region Product Line Manager Approval	QA Region Manager Review
0	27-Nov-08	Baker Oil Tools	N/A	A. Orchard	N/A	N/A

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Summary

A 7” hanger-less liner was deployed on 13-Aug-08 for Nexus Energy in well Longtom-4 on rig West Triton managed by Australian Drilling Associates. The liner reached TD but encountered difficulties during cementation. Remedial cementing operations were subsequently conducted to obtain acceptable isolation.

This report documents the liner deployment and offers suggestions to minimize cementation difficulties for future liner deployments.

Brief Job Description

Refer to Appendices for additional information

The 7" hanger-less liner was configured to be deployed in a horizontal open hole and dropped off without cement isolation. The running tools were to be released upon plug bump on the landing collar.

Although the 7" hanger-less liner was originally planned to be un-cemented, wellbore conditions dictated that cementing was required and changes were made to the equipment hook-up to accommodate. The final hook-up consisted of:

Sales Items

- 7-5/8" HRD Setting Sleeve
- Crossover to 7" liner
- 7" liner
- 7" Shoe Track, consisting:
    - Insert Landing Collar (type 2), c/w ball seat for 1.75" ball (ball seat added)
    - Insert Float Collar, c/w baffle plate
    - Reamer Shoe

Downhole Running Tools

- 7-5/8" HRD Setting Tool
- 2-7/8" EU spacers
- ST Landing Sub c/w seat to catch 1.5" ball (added)
- Swab Cup Tool, ported (down facing cups)
- Swab Cup Tool, ported (up facing cups) (added)
- Solo Plug Releasing Tool c/w Solo Liner Wiper Plug

Equipment changes that were made to enable liner cementing included:

- Inclusion of 7" ST Landing Sub, to receive a 1.5" OD tripping ball at the running tools instead of requiring a 1.75" OD ball to land in a horizontally placed Landing Collar.
  Note: ST Landing Sub was mobilized hot-shot from Singapore straight to well-site.
- Inclusion of additional Swab Cup Tool (up facing cups), to balance piston forces on the running tools to prevent the cup tools from being forced up and pout of the liner top.

- Inclusion of a Ball Seat in the Insert Landing Collar, to accept a 1.75" OD ball in the event that the 7" ST Landing Sub did not arrive from Singapore in time.

Procedure changes that were made included:

- Dropping a tripping ball to release the HRD setting tool instead of relying on plug bump.
    - This included a 1.5" OD tripping ball to land in the ST Landing Sub at the liner top, instead of a 1.75" OD ball to land in the landing collar positioned at the liner bottom. This was to reduce the risk of the ball not seating in the landing collar, and to reduce pumping volumes and time.
    - Contingency procedure included the use of a 1.75" OD ball to land in the landing collar in the event that the ST Landing Sub did not arrive in time.
- Cementation procedures involving timed launching of the pump down plug.
- Revised clean-up procedures to flush excess cement from the liner top post-cementing.

Sequence of Events Summary

- Upon the liner reaching TD, the 1.50" OD tripping ball was dropped, HRD setting tool released with 2700 psi. Running tools were picked up to confirm release.
- ST Landing Sub ball seat was sheared at 4000 psi, circulation was established.
  Note: the ball seat of the ST Landing Sub rotates inside the tool to leave a full bore ID, the 1.50" tripping ball is expelled and pumped downhole.
- Liner was rotated and circulated during preparations for the cement job.
- Pressure was observed to increase prior to cement being pumped. Circulation was stopped. It was suspected that the 1.5" ball seat may have landed on the ball seat of the landing collar, even though the ball seat ID is 1.625". Based on this assumption, pressure was increase to shear out the ball seat.
- Rotation was difficult to re-establish due to torque limitations.
  Note: During the process of re-establishing rotation, left hand rotation / torque had been transmitted to the running tools actuating the left-hand release.
- Circulation was difficult to re-establish. A confirmation check confirmed that circulation was occurring at the liner top (through the running tools) instead of via the shoe track, suggesting loss of cup tool sealing integrity.
- Decision was made to cancel the cementation job and recover the running tools.

- Upon running tools reaching surface, it was observed that the down facing cups of the upper cup tool was damaged, confirming circulation path was at the liner top.
- Remedial cementing operations were subsequently conducted.
- Additional contingency equipment was mobilized to provide liner top tieback options, supporting information is including in this report for reference only.

Discussion

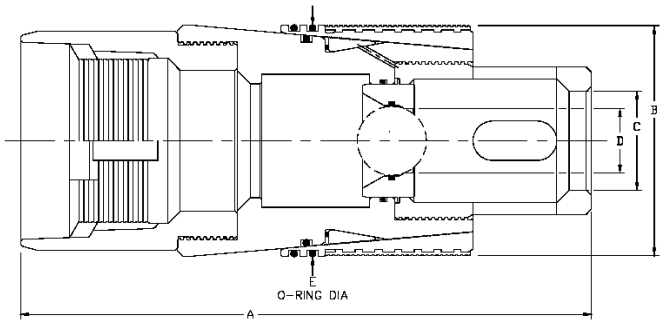
The possible causes of the pressure increase observed prior to pumping cement included:

1. 1.50” OD tripping ball landing on the ball seat of the landing collar.
2. Plugged ports in the reamer shoe, from internal debris or external plugging.
3. Damaged / collapsed shoe.
4. Open hole pack-off on the 7” liner OD.

1. Tripping Ball on Landing Collar Seat

The diagrams in Figure 1 below illustrate that the 1.50” ball should have been able to pass through the 1.625” ID of the landing collar ball seat. A QA/QC check was also conducted onshore prior to equipment mobilization to confirm ball pass-through. Given that adequate liner circulation would have effectively cleaned the landing collar ball seat ID, the likelihood for the pressure increase to be as a result of the 1.50” ball seating on the landing collar ball seat are deemed as low.

Insert Landing Collar With Ball Seat And Catcher, Product No. 266-59
Dimensional Data Drawing No. 782-413



Dimensional Data

Refer to Drawing No. 782-413.

Size And Wt.	Commodity No.	Dim A	B	C	D	E
5" 15-18#	266-59-4403	12.75	4.146	2.0	1.375	4.232
5" 23.2-24.2#	266-59-4304	13.84	3.865			3.916
5-1/2" 15.5-17#	266-59-4506	14.78	4.757			4.843
5-1/2 20.0-23.0#	266-59-4505		4.538			4.624
5-1/2" 23.8-26.8#	266-59-4501	14.75	4.365			4.444
6-5/8 28-33#	266-59-4603	16.88	5.490			5.576
7" 23-26#	266-59-4702	14.50	6.141	2.5	1.625	6.227
7" 29-32#	266-59-4703		5.960			6.046
7" 32-35#	266-59-4601		5.870			5.956
7" 38#	266-59-4602		5.788			5.834
7-5/8" 24-29.7#	266-59-4751	16.00	6.740			6.826
7-5/8 33.7-39.0#	266-59-4750	16.19	6.490			6.576
7-5/8" 42.8-45.3	266-59-4701	14.50	6.293			6.379
9-5/8" 43.5-53.5#	266-59-4906	18.25	8.369			8.455

Figure 1: Insert Landing Collar c/w Ball Seat. The ball seat ID for a 7” 23-26# tool is 1.625”.

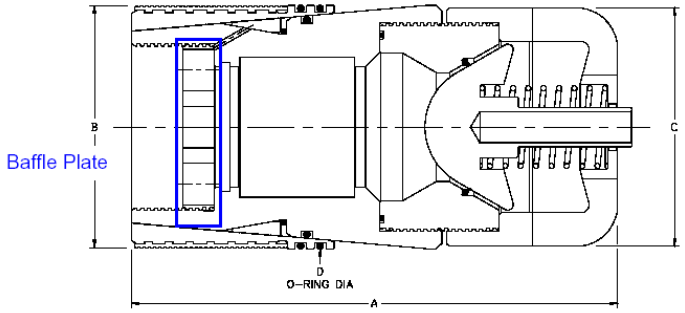
2. Internal Debris

Plugging of Float Collar

The possibility of internal debris causing the pressure increase was considered. Of the possible sources of internal debris, the 1.50” OD ball plugging the float valve was reviewed. The diagrams in Figures 2 and 3 below illustrate that the Baffle Plate positioned at the top of the float valve would have prevented the 1.50” OD ball from fouling the float.

Insert Float Valve, Product No. 266-62

Dimensional Data Drawing No. 782-455



Dimensional Data

Refer to Drawing No. 782-455.

Size And Wt.	Commodity No.	Dim			
		A	B	C	D
5" 15-18#	266-62-4406	12.24	4.146	3.88	4.232
5" 23.2-24.2#	266-62-4308	13.33	3.865		3.916
5-1/2" 15.5-17#	266-62-4509	13.77	4.757		4.843
5-1/2" 20-23#	266-62-4508		4.538		4.624
5-1/2" 23.8-26.8#	266-62-4501	13.74	4.358		4.444
6-5/8" 28-33#	266-62-4606	13.62	5.490		5.576
7" 23-26#	266-62-4704	12.61	6.141	5.75	6.227
7" 29-32#	266-62-4705		5.960		6.046
7" 32-35#	266-62-4604		5.870		5.956
7" 38#	266-62-4605		5.788		5.834
7-5/8 24-29.7#	266-62-4753	14.11	6.740		6.826
7-5/8" 33.7-39#	266-62-4752	14.30	6.490		6.576
7-5/8" 42.8-45.3#	266-62-4701	12.61	6.293		6.379
9-5/8" 40#	266-62-4903	13.99	8.662		8.748
9-5/8" 43.5-53.5#	266-62-4902	14.86	8.369		8.455

Figure 2: Insert Float Collar c/w Baffle Plate.

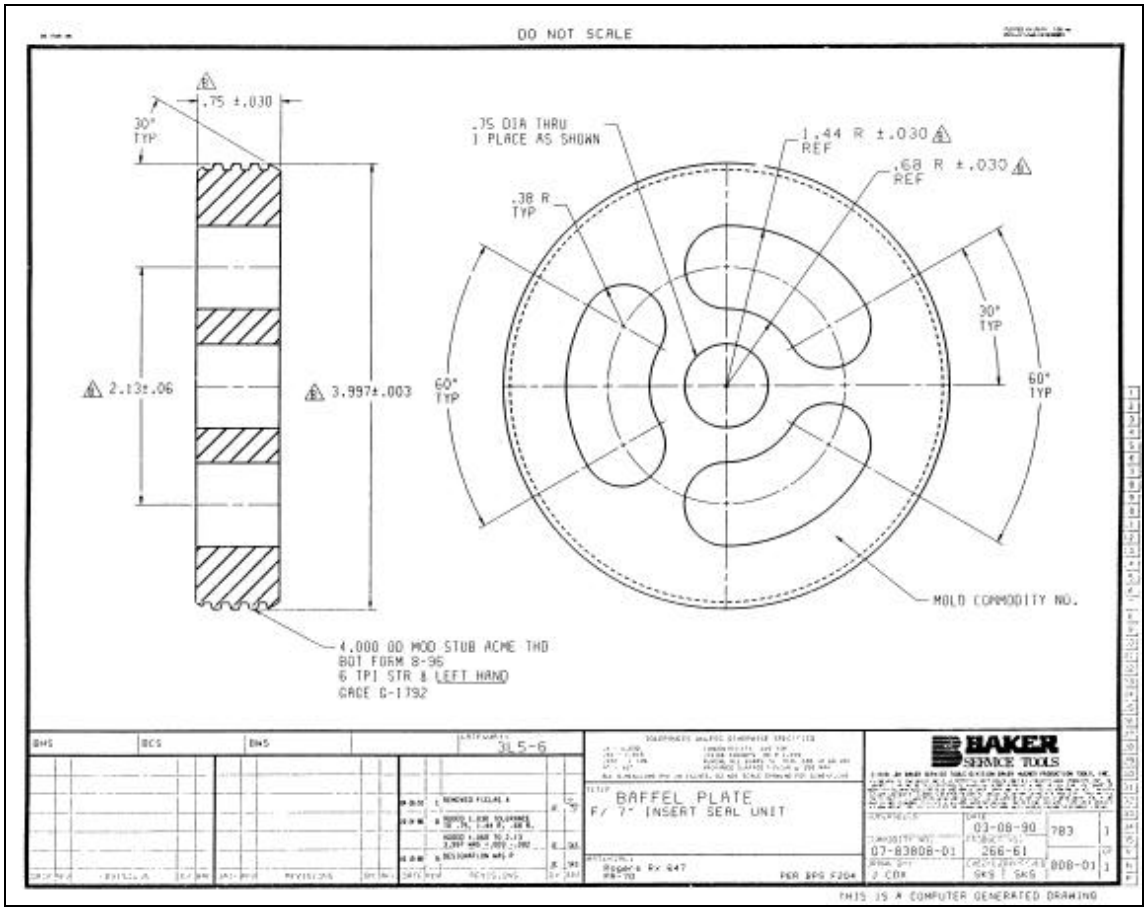


Figure 3: Baffle Plate for Insert Landing Collar

Debris from damaged Swab Cup Tool

Another possible source of internal debris included debris from damaged cups of the swab cup tool. Upon retrieval of the tools from the well, it was observed that the down facing cups of the upper cup tool were damaged with some rubber missing, refer to Figure 4. The likelihood of rubber plugging the float equipment is possible, but consideration would also need to be given the amount of circulation, and the “sudden” pressure increase.

Figure 4: Damaged cups of upper cup tool.

With reference to Appendix 2 (Data Log), the use of drill string rotation and circulation could have resulted in relative movement between the running tools, either the tools moving upwards or the liner moving downwards *(note: absence of liner hanger)*.

The relative movement would have the effect of:

- Positioning the splines of the HRD setting tool out of the mating slots in the HRD setting sleeve resulting in torque transmitted through to the cup tools causing the cups to spin inside the liner top. Figure 5 illustrates the torque spline of the HRTD setting tool.

Figure 5: Torque spline of the HRD setting tool

Evidence of this is suggested in the photos of the HRD setting tool as shown in Figure 6 below. As well as the setting tool components being over-torqued, uncontrolled release of torque can also have the effect of shearing the mechanical release pins of the HRD

setting tool is possible, which was observed during disassembly of the tool in the BOT-Sale warehouse.

Figure 6: Over-torqued components of the HRD setting tool.

- Positioning the upper swab cup tool above the mandrel of the HRD setting sleeve, allowing possible damage to the cups during subsequent downwards movement. Given that the amount of movement required was approximately 3m, the likelihood of this occurring is reduced.

3. Damaged / Collapsed Shoe

If the reamer shoe was damaged or externally plugged, an increase in pressure could result. Given that the pressure increase was relatively sudden, after adequate circulation time, the likelihood of this is significantly reduced.

4. Open hole pack-off on the 7” liner OD

Although difficult to diagnose, an open hole pack-off is always possibly. Given that the pressure increase was relatively sudden, after adequate circulation time, the likelihood of this is significantly reduced.

Conclusions

The following conclusions follow from the observations made and subsequent investigations:

- Rotation of a hanger-less liner post-release of the running tools increases the risk of running tool component damage.
- Debris from the damaged cup tool could have caused the pressure increase prior to the cement job.

Recommendations

For future liner installations that may or may not require cementing, the following recommendations are offered:

- Revised liner hook-up to allow contingency options of cementing the liner, and liner rotation post-hanger setting. These options are possible via:
    - Inclusion of a hydraulic set rotating liner hanger in the equipment hook-up, which will enable effective liner rotation post-hanger setting.
    - Inclusion of slick stinger style cementing pack-off system.
    - Inclusion of a ball catching device in the running tool hook-up instead of a ball seating in a landing collar.
- Revised contingency planning to include tieback options, and options for remedial services (eg. cementing, testing).

Appendix 1: BOT Liner Job Report

Baker Oil Tools

Liner Hanger Workbook
Liner Job Information Sheet

Customer Information:

Company Name:	Nexus Energy	District:	Sale, Australia
Field / Project:	Bass Strait	Service Supervisor:	Jonathan Francis
Well Number:	Longtom - 4	Service Supervisor ID:	Franjon
Company Representative:	Bill Openshaw	Service Supervisor #2:	
Rig Name:	Triton	Job Log Number	OHC--Australia-Franjon-08/09/08
Barge / Deepwater / Land / Offshore:	Offshore	Mobilization Date:	09-Aug-08
Country:	Australia	De-Mobilization Date:	15-Aug-08
Job Number/SST Number:	S1151	Start Date:	09-Aug-08

Casing Information:

OD (in)	ID (in)	Wt. (#/ft)	Yield Strength (psi)	Thread	Burst (psi)	Collapse (psi)	Drift (in.)	Wall Thickness (in.)	Casing Shoe Depth (m)	OH Diameter (in)	Liner Overlap (m)
10.750	9.760	55.50	80000	Hydril 511	6450.0	4020.0	9.604	0.495	2591.0	9.500	20.0

Liner Information:

	OD (in)	ID (in)	Wt. (#/ft)	Yield Strength (psi)	Thread	Burst (psi)	Collapse (psi)	Drift (in.)	Capacity (bbl/ft)	Wall Thickness (in.)	Length (m)
Upper Liner	7.000	6.184	29.00	80000	Hydril 513	8160.0	7030.0	6.059	0.03715	0.408	1470.6
Lower Liner	7.000	6.276	26.00	80000	Hydril 513	7240.0	5410.0	6.151	0.03826	0.362	606.9

Shoe Track Length (m)	81.3	Liner Top Depth (m)	2571.0	Liner Shoe Depth (m)	4648.4

Drill Pipe Information:

	Size (in)	Adj. Wt. (#/ft)	ID (in)	Grade	Capacity (bbl/ft)	Length (m)	Thread	Tensile (lbs)
DP# 1 (Top)	5.500	24.70	4.670	S-135	0.021185	2569.9	XT 57	895,001
DP# 2	5.000	19.50	4.276	S-135	0.01776	5.4	IF	712,072
DP# 3								-
DP# 4								-
DP# 5								-

Open Hole or Bit size is smaller than drift of casing, MAKE SURE TOOLS WILL FIT!!

Total DP	2,575.3	m	Enter Drill Pipe Tensile Safety Factor	100%	

Misc Information:

Hydraulic Factors:

Deviation at TD	84	deg.
Mud Weight	12.00	lb/gal
Buoyancy Factor	0.817	
Block/TD Weight	60,000	lbs.
Wt applied f/ Cmt Job	20,000	lbs.
Max Internal DP Pressure	5,000.0	psi
Wt applied f/ Packer Test		lbs.

Hanger Information

Are You Using a Hanger	No	
Burst Rating		psi
Tensile Rating		lbs.
Hanging Capacity		lbs.

Liner Wiper Plug Rating

Plug Pressure Rating	5,000.0	psi
Temperature Rating	300	°F

7.08

Packer/Sleeve Information:

Are You Using a Packer?	No	
Packer Seal Surface OD		in.
Packer Body Burst		psi
Packer Body Collapse		psi
Packer Body Tensile		lbs.
Tieback Ext. ID	7.750	in.
Tieback Ext. Burst	4,848.0	psi
Tieback Ext. API Collapse	4,286.0	psi
Tieback Ext. Yield Collapse	4,701.0	psi
Packer Setting Force		lbs.
Can/Will Packer be Rot. on	Yes	
Element Rating		psi
Pack-off/Slick Stinger OD		in.

Misc.

Setting Tool Tensile	597,000	lbs
Bumper Jar Tensile	N/A	lbs
Surf. Equip. Tensile	597,000	lbs
Pick-Up f/ Dogs		m
Pick-Up f/ Pack-Off	1.00	m
Shear f/ HR Mech Rel.	4,650	ft-lbs
Make-up torque of Weak Link	12,000	ft-lbs

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Baker Oil Tools

OPEN HOLE COMPLETIONS
SEQUENCE OF EVENTS

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	4/7/2008	**District Location:**	Sale, Australia

DETAIL THE JOB - THIS FORM IS USED TO REPORT WHAT ACTUALLY TOOK PLACE

DATE	TIME	OPERATIONS & REMARKS
8th Aug 08	19:00	Travel from Sale to Melbourne , Australia.
9th Aug 08	14:30	On board Rig Triton - attented Seadrill rig safety induction
10th Aug 08	8:00	Check and measured 7" x 7-5/8" x 10-3/4" liner equipments on board.
		Installed Solo Plug Liner Wiper Plug material no.H269-38-0004 onto Solo Plug Running Tool
		material no. H269-37-0002 and shear pressure at 1302 PSI(3 Pins)
11th Aug 08	9:30	Installed Insert Type 1 Landing Collar inside crossover pup w/ 7" 29ppf Hydril 513 Box x 26ppf
		Hydril 513 Pin and Insert Float Collar from box end of 7" 26ppf Hydril 513 casing joint # 1F.
		Remark : Insert setting at 400 kg/cm2
	19:00	Installed shear sleeve material no. H078237903 (3500 PSI) and shear sleeve catcher
		material no. H078238000 - wittness by night man.
	21:00	Pick up 7-5/8" HRD Setting Sleeve Assembly - torqued up crossover sub with 5-1/2" XT 57 Box
		by 4-1/2" IF Pin down + 5-1/2" XT 57 drill pipe pup joint x 5FT above the running
		Pick up "TD" cementing head and torqued up with crossover sub + single of 5-1/2" XT 57
		drill pipe on top and crossover sub + 20FT drill pipe pup joint on below - stand on derrick.
		Remark: All crossover sub and drill pipe pup joint were drifted with 2.500" drift OD.
12th Aug 08	2:45	Hold JHA at rig floor with crews prior running 7.000" liner .
	3:00	Pick up non-BOT Reamer Shoe with single float assembly on joint - fill with mud & float check.
		Pick up BOT Insert Float collar joint # 1F and pick up next joint per Nexus Energy's 7.000"
		casing running tally - torqued up 7" Hydril connection to 12,000 FT/Lbs and fill with mud to
		check on float - Good flow.
		Pick up Insert Type II Landing Collar installed inside XO-1 and continue RIH casing per tally.
13th Aug 08	2:30	Pick up 7-5/8" HRD Setting Sleeve assembly with 2-7/8" EU 8rd pin looking down - make up
		2-7/8" ST Landing Sub + 7" Ported Swap Cup (two cups facing down) + 7" Ported Swap
		cups (two cups facing up) + Solo Plug Wiper Liner Plug Adaptor + Solo Plug Wiper attached.
		Torqued up Setting Sleeve Assembly that having 7" 26 PPF Hydril 513 Pin down to the last
		liner joint. Break circulate 240 bbls at 1000 PSI / 4 bbls/min - Record 175 K slack down weight
		and 192 K up weight. Continue RIH with 5.500" XT 57 drill pipe.
	5:00	Stop at 10-3/4" shoe - break circulate at 53 SPM / 500 PSI until having good return to surface.
		Note : Running speed inside open hole at 80-90 ft/min and fill by circulate at every 10 stands.
		Continue to work out the liner to the setting depth @ 4648 M by slack down weight of 30k max.
		Note : Actual reading at surface of 202 K slack down weight - Max slack down weight is 172 K.
	11:45	Pick up stand # 83 - wash down with 42 SPM / 900 PSI and tag bottom with 20K slack down
		weight . Space out and lay back Std# 82 on derrick - pick up "TD" Cementing Head and torqued
		up to the last drill pipe Std# 81 per rig drill pipe tally.
		Note : Manually released 1.500" Phenolic setting ball prior torqued up cementing head with
		crossover sub to 5.500" XT 57 drill pipe - tag bottom with 20K slack down weight.
	13:50	Chase setting ball with 40 SPM / 900 PSI to land setting ball on ST Landing Sub ball seat.
	14:20	Ball landed - hold pressure at 1500 PSI for one min and then increase pressure to 2700 PSI
		Hold for 3 mins and bleed off to 0 / open all valves - slowly pick up 1.50 meter and confirmed
		HRD released with 233 K pick up weight indication.
		Note: Pick up refer with string and liner weight is at 300K pick up weight.
		Pressure up string to trip off the ST Landing Sub ball seat and ball seat shear @ 4000 PSI.
		Continue to circulate to ensure ball seat sheared and good flow / returns to surface.
		Rig up the cement line and circulate while prepare for the cementing job.
	18:15	Rotate the liner while continue circulations - records torque at 15k to 22k with 30 RPM for
		1/2 hours - stop rotate but still continue to circulate while Halliburton prepare for cementing job.
		Note: Nexus Energy recommend rotating torque during cementing job is 35K ft/lbs.
	19:30	Pump the following using the rig pump;
		# 60bbls Accolade base oil
		# 60bbls Tuned Spacer
		# 7bbls brine (to clear the line)
	20:30	Isolate the top drive and hold 500 PSI pressure to monitor for leaks and then pump the
		following using Halliburton cement unit;
		Start to rotate the string / liner at 30 RPM - torque at 13K to 18K.

Company Representative:_____BOT Representative:_____

Baker Oil Tools

OPEN HOLE COMPLETIONS
SEQUENCE OF EVENTS

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	4/7/2008	**District Location:**	Sale, Australia

DETAIL THE JOB - THIS FORM IS USED TO REPORT WHAT ACTUALLY TOOK PLACE

DATE	TIME	OPERATIONS & REMARKS
		Pump 10bbls fresh water to test line and start to mix slurry @ 15.00 ppg
		Notice the pressure building up to 2500 PSI after pumping 4 bbls and stop pumping to check
		Keep on trying to pressure up with mud on the line / string - still showed high pressure
		Switch to the rig pump and work out for circulations - stop rotate and ensure to keep 10K on
		WOB.
		Meeting with town - attempt to rotate with 30 RPM / 30K ft.lbs / 2600 PSI.
		Note :String rotate to left (5 to 8 rotations) when attempted to stop rotate and secondary
		release shear pins did sheared at this movement.
		Note: The rig top Drive did not have control device for left hand turning on string.During stopping
		right hand turns , the string will keeping turns to left hand with no control at all time.
	23:00	Cementing job was cancelled - pick up 3 M to place the upper swap cup inside the 7-5/8"
		HRD setting sleeve ID of 7.735" and lay back 5.500" drill pipe to derrick.
14th Aug 08	0:30	After lay back 5 stands - pick up "TD" cementing head and break out connections. Confirmed
		Pump Down Plug is still inside the Plug Dropping Head.
	7:00	POOH running tools - notice that the two cup facing down were demaged / 90% of rubber
		elements were gone , secondary release shear pins were sheared and deform on emergency
		mechanical profile of 7-5/8" HRD's Housing and showed of over torqued on 4-1/2" IF Box end
		at running tools (4.500" Lift Nipple).
		Note: Solo Plug Liner Wiper Plug is still attached to Adaptor.
		Call town and was informed that back up equipments will be heading to the rig in case of
		running back with the same Setting Sleeve assembly system.
		Stand-by for the next operations.
15th Aug 08		Stand-by for the next operations.
	13:30	Booked to depart Rig West Triton

Company Representative:_____BOT Representative:_____

Baker Oil Tools

OPEN HOLE COMPLETIONS
WEIGHT/FORCE CALCULATION SHEET

0

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

Weight and Neutral Calculations:

Drill Pipe #1 in Mud	170,081	lbs.
Drill Pipe #2 in Mud	282	lbs.
Drill Pipe #3 in Mud	0	lbs.
Drill Pipe #4 in Mud	0	lbs.
Drill Pipe #5 in Mud	0	lbs.
Total Drill Pipe Weight in mud	**170,364**	**lbs.**
Block/TD Weight	60,000	lbs.
Weight Indicator Reading of Drill Pipe and Block	**230,364**	**lbs.**
Liner #1 Weight in Mud	114,267	lbs.
Liner #2 Weight In Mud	42,277	lbs.
Total Liner Weight in Mud	**156,544**	**lbs.**
Weight Indicator Reading of Liner, Drill Pipe, and Block	**386,908**	**lbs.**
Weight Indicator Reading of Drill Pipe and Block	230,364	lbs.
Subtract 2RH Shear	14,700	lbs.
Weight Indicator Reading for Setting Tool Release	**215,664**	**lbs.**

****Warning: The Liner Weight is Greater than the Hanging Capacity for the Liner Hanger**

Piston Forces:

Piston Force at Pack-off (Worst Case)	**0**	**lbs.**
Piston Force at Pack-off (Actual)	**-71,802**	**lbs.**

Slack-off Requirements for Liner Weight

Stretch in Drill Pipe #1 due to Liner Weight.	2.02	**m**
Stretch in Drill Pipe #2 due to Liner Weight.	0.01	
Stretch in Drill Pipe #3 due to Liner Weight.	0.00	
Stretch in Drill Pipe #4 due to Liner Weight.	0.00	
Stretch in Drill Pipe #5 due to Liner Weight.	0.00	
Bumper Jar Stroke (if used)	0.46	
Feet Needed to Slack-off Liner Weight.	2.49	
Minimum Feet Needed to Shear 2RH	0.19	
Minimum Total Feet Needed to Release 2RH	2.68	
Minimum Feet Needed to Apply Wt. for Cement Job	0.26	

****WARNING: A Buckle Program MUST be run for this application**

Misc. Information (All calculations assume still tied on to liner)

Maximum Pull on Running Tool Assy. (Weight Indicator Reading)	230,364	lbs.
Maximum Pull on Drill Pipe (Weight Indicator Reading)	772,072	lbs.
Maximum Pull on Surface Equipment (Weight Indicator Reading)	657,000	lbs.
Left Hand Turns required to Mechanically Release HR/HRD tool	1.76	
Maximum number of Left Hand Turns that Can be Applied	4.53	

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Baker Oil Tools

Liner Hanger Workbook
Displacement Calculation Sheet

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

Rig Output: 0.13 bbl/stk 7.6923 stk/bbl

Displacement:		
Drill Pipe #1	178.63 bbl	1,374.1 stks
Drill Pipe #2	0.31 bbl	2.4 stks
Drill Pipe #3	bbl	stks
Drill Pipe #4	bbl	stks
Drill Pipe #5	bbl	stks
Drill Pipe Capacity Total	178.95 bbl	1,376.5 stks
Shoe Track Capacity	9.91 bbl	76.3 stks
Liner #1 Capacity	179.24 bbl	1,378.8 stks
Liner #2 Capacity	76.19 bbl	586.1 stks
Total Liner Capacity to L/Collar	245.52 bbl	1,888.6 stks
Total Capacity to Land Plugs	424.46 bbl	3,265.1 stks
Total Capacity to Shoe	434.38 bbl	3,341.4 stks

Annular Volumes:		
Liner#1 by Open Hole	193.33 bbl	1,487.18 stks
Liner#2 by Open Hole	77.15 bbl	593.50 stks
Over Lap	3.56 bbl	27.39 stks
Drill Pipe #1 by Casing	532.46 bbl	4,095.82 stks
Drill Pipe #2 by Casing	1.21 bbl	9.30 stks
Drill Pipe #3 by Casing	bbl	stks
Drill Pipe #4 by Casing	bbl	stks
Drill Pipe #5 by Casing	bbl	stks
Total (Bottoms Up)	807.71 bbl	**6,213.19 stks**

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BAKER HUGHES Baker Oil Tools

OPEN HOLE COMPLETIONS
TALLY SHEET

Operating Company:	Nexus Energy	**Represented by:**	Bill Openshaw
Well Name / Number:	Longtom - 4	**Field:**	Bass Strait
Sales Ticket No.:	OHC--Australia-Franjon-08/09/08	**BOT Service Rep(s).:**	Jonathan Francis
Date:	8/9/2008	**District Location:**	Sale, Australia

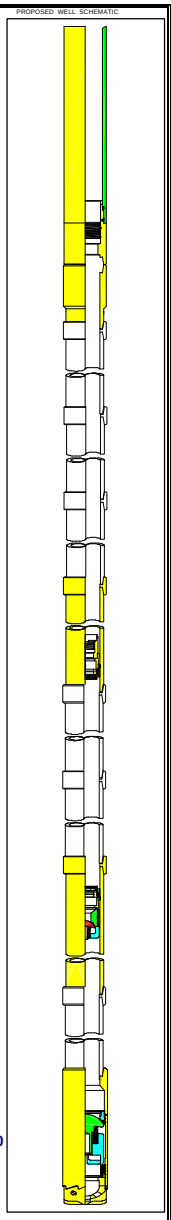
Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
	BLOCK/TOP DRIVE					60,000	
	8-1/2" Non-BOT Reamer Shoe		0.90	0.90	4,647.54	60,000	
1G	7.000" Hydril 513 HT Box x Pin	26.00	11.45	12.35	4,636.09	60,243	Blade Runner Centraliser
1F	7.000" Hydril 513 HT Box x Pin	26.00	11.54	23.89	**4,624.55**	60,488	B.R.Centr (Insert Float)
1E	7.000" Hydril 513 HT Box x Pin	26.00	11.47	35.36	4,613.08	60,732	No Centraliser
1D	7.000" Hydril 513 HT Box x Pin	26.00	11.63	46.99	4,601.45	60,979	Roller Centraliser
1C	7.000" Hydril 513 HT Box x Pin	26.00	11.62	58.61	4,589.83	61,225	Roller Centraliser
1B	7.000" Hydril 513 HT Box x Pin	26.00	11.22	69.83	4,578.61	61,464	Roller Centraliser
1A	7.000" Hydril 513 HT Box x Pin	26.00	11.51	81.34	4,567.10	61,708	Roller Centraliser
X/O 1	X/O Pup - 7" 29# Hydril Box x 26# Pin	29.00	0.53	81.87	**4,566.57**	61,721	Insert Type II landing Collar
221	7.000" Hydril 513 HT Box x Pin	29.00	11.29	93.16	4,555.28	61,988	Roller Centraliser
220	7.000" Hydril 513 HT Box x Pin	29.00	11.30	104.46	4,543.98	62,255	Roller Centraliser
219	7.000" Hydril 513 HT Box x Pin	29.00	11.29	115.75	4,532.69	62,523	Roller Centraliser
218	7.000" Hydril 513 HT Box x Pin	29.00	11.89	127.64	4,520.80	62,804	Roller Centraliser
217	7.000" Hydril 513 HT Box x Pin	29.00	11.29	138.93	4,509.51	63,072	Roller Centraliser
216	7.000" Hydril 513 HT Box x Pin	29.00	11.12	150.05	4,498.39	63,335	Roller Centraliser
215	7.000" Hydril 513 HT Box x Pin	29.00	11.14	161.19	4,487.25	63,599	Roller Centraliser
214	7.000" Hydril 513 HT Box x Pin	29.00	11.27	172.46	4,475.98	63,866	Roller Centraliser
213	7.000" Hydril 513 HT Box x Pin	29.00	11.27	183.73	4,464.71	64,133	Roller Centraliser
212	7.000" Hydril 513 HT Box x Pin	29.00	11.28	195.01	4,453.43	64,400	Roller Centraliser
211	7.000" Hydril 513 HT Box x Pin	29.00	11.27	206.28	4,442.16	64,667	Roller Centraliser
210	7.000" Hydril 513 HT Box x Pin	29.00	11.14	217.42	4,431.02	64,931	Roller Centraliser
208	7.000" Hydril 513 HT Box x Pin	29.00	11.16	228.58	4,419.86	65,195	Roller Centraliser
207	7.000" Hydril 513 HT Box x Pin	29.00	11.15	239.73	4,408.71	65,459	Roller Centraliser
206	7.000" Hydril 513 HT Box x Pin	29.00	11.28	251.01	4,397.43	65,726	Roller Centraliser
205	7.000" Hydril 513 HT Box x Pin	29.00	11.29	262.30	4,386.14	65,994	Roller Centraliser
204	7.000" Hydril 513 HT Box x Pin	29.00	11.27	273.57	4,374.87	66,260	Roller Centraliser
203	7.000" Hydril 513 HT Box x Pin	29.00	11.28	284.85	4,363.59	66,528	Roller Centraliser
202	7.000" Hydril 513 HT Box x Pin	29.00	11.28	296.13	4,352.31	66,795	Roller Centraliser
200	7.000" Hydril 513 HT Box x Pin	29.00	11.02	307.15	4,341.29	67,056	Roller Centraliser
199	7.000" Hydril 513 HT Box x Pin	29.00	11.30	318.45	4,329.99	67,323	Roller Centraliser
198	7.000" Hydril 513 HT Box x Pin	29.00	11.29	329.74	4,318.70	67,591	Roller Centraliser
197	7.000" Hydril 513 HT Box x Pin	29.00	11.17	340.91	4,307.53	67,855	Roller Centraliser
196	7.000" Hydril 513 HT Box x Pin	29.00	11.27	352.18	4,296.26	68,122	Roller Centraliser
195	7.000" Hydril 513 HT Box x Pin	29.00	11.22	363.40	4,285.04	68,388	Roller Centraliser
194	7.000" Hydril 513 HT Box x Pin	29.00	10.98	374.38	4,274.06	68,648	Roller Centraliser
193	7.000" Hydril 513 HT Box x Pin	29.00	11.25	385.63	4,262.81	68,914	Roller Centraliser
192	7.000" Hydril 513 HT Box x Pin	29.00	11.29	396.92	4,251.52	69,182	Roller Centraliser
190	7.000" Hydril 513 HT Box x Pin	29.00	11.06	407.98	4,240.46	69,444	Roller Centraliser
189	7.000" Hydril 513 HT Box x Pin	29.00	11.24	419.22	4,229.22	69,710	Roller Centraliser
188	7.000" Hydril 513 HT Box x Pin	29.00	11.11	430.33	4,218.11	69,973	Roller Centraliser
187	7.000" Hydril 513 HT Box x Pin	29.00	11.14	441.47	4,206.97	70,237	Roller Centraliser
186	7.000" Hydril 513 HT Box x Pin	29.00	11.28	452.75	4,195.69	70,504	Roller Centraliser
185	7.000" Hydril 513 HT Box x Pin	29.00	11.27	464.02	4,184.42	70,771	Roller Centraliser
184	7.000" Hydril 513 HT Box x Pin	29.00	11.17	475.19	4,173.25	71,035	Roller Centraliser
183	7.000" Hydril 513 HT Box x Pin	29.00	11.01	486.20	4,162.24	71,296	Roller Centraliser
182	7.000" Hydril 513 HT Box x Pin	29.00	11.30	497.50	4,150.94	71,564	Roller Centraliser
181	7.000" Hydril 513 HT Box x Pin	29.00	11.29	508.79	4,139.65	71,831	Roller Centraliser
180	7.000" Hydril 513 HT Box x Pin	29.00	11.28	520.07	4,128.37	72,098	Roller Centraliser
179	7.000" Hydril 513 HT Box x Pin	29.00	11.24	531.31	4,117.13	72,364	Roller Centraliser
178	7.000" Hydril 513 HT Box x Pin	29.00	11.11	542.42	4,106.02	72,628	Roller Centraliser
177	7.000" Hydril 513 HT Box x Pin	29.00	11.11	553.53	4,094.91	72,891	Roller Centraliser
176	7.000" Hydril 513 HT Box x Pin	29.00	11.14	564.67	4,083.77	73,154	Roller Centraliser
175	7.000" Hydril 513 HT Box x Pin	29.00	11.28	575.95	4,072.49	73,422	Roller Centraliser
173	7.000" Hydril 513 HT Box x Pin	29.00	11.29	587.24	4,061.20	73,689	Roller Centraliser
172	7.000" Hydril 513 HT Box x Pin	29.00	11.30	598.54	4,049.90	73,957	Roller Centraliser
170	7.000" Hydril 513 HT Box x Pin	29.00	11.27	609.81	4,038.63	74,223	Roller Centraliser
169	7.000" Hydril 513 HT Box x Pin	29.00	10.88	620.69	4,027.75	74,481	Roller Centraliser
168	7.000" Hydril 513 HT Box x Pin	29.00	11.07	631.76	4,016.68	74,743	Roller Centraliser
167	7.000" Hydril 513 HT Box x Pin	29.00	11.25	643.01	4,005.43	75,010	Roller Centraliser

Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
166	7.000" Hydril 513 HT Box x Pin	29.00	11.16	654.17	3,994.27	75,274	Roller Centraliser
165	7.000" Hydril 513 HT Box x Pin	29.00	11.27	665.44	3,983.00	75,541	Roller Centraliser
164	7.000" Hydril 513 HT Box x Pin	29.00	11.06	676.50	3,971.94	75,803	Roller Centraliser
163	7.000" Hydril 513 HT Box x Pin	29.00	11.14	687.64	3,960.80	76,067	Roller Centraliser
XO 2	X/O Pup - 7" 26# Hydril Box x 29# Pin	29.00	**0.57**	688.21	3,960.23	76,080	
161	7.000" Hydril 513 HT Box x Pin	26.00	11.63	699.84	3,948.60	76,327	Roller Centraliser
160	7.000" Hydril 513 HT Box x Pin	26.00	11.49	711.33	3,937.11	76,571	Roller Centraliser
159	7.000" Hydril 513 HT Box x Pin	26.00	11.59	722.92	3,925.52	76,817	Blade Runner Centraliser
158	7.000" Hydril 513 HT Box x Pin	26.00	11.67	734.59	3,913.85	77,065	Blade Runner Centraliser
157	7.000" Hydril 513 HT Box x Pin	26.00	11.49	746.08	3,902.36	77,309	Blade Runner Centraliser
156	7.000" Hydril 513 HT Box x Pin	26.00	11.62	757.70	3,890.74	77,556	Blade Runner Centraliser
155	7.000" Hydril 513 HT Box x Pin	26.00	11.54	769.24	3,879.20	77,801	Blade Runner Centraliser
154	7.000" Hydril 513 HT Box x Pin	26.00	11.51	780.75	3,867.69	78,045	Blade Runner Centraliser
153	7.000" Hydril 513 HT Box x Pin	26.00	11.20	791.95	3,856.49	78,283	Blade Runner Centraliser
152	7.000" Hydril 513 HT Box x Pin	26.00	11.65	803.60	3,844.84	78,530	Blade Runner Centraliser
151	7.000" Hydril 513 HT Box x Pin	26.00	11.59	815.19	3,833.25	78,776	Blade Runner Centraliser
150	7.000" Hydril 513 HT Box x Pin	26.00	11.58	826.77	3,821.67	79,022	Blade Runner Centraliser
149	7.000" Hydril 513 HT Box x Pin	26.00	11.34	838.11	3,810.33	79,263	Blade Runner Centraliser
148	7.000" Hydril 513 HT Box x Pin	26.00	11.54	849.65	3,798.79	79,508	Blade Runner Centraliser
147	7.000" Hydril 513 HT Box x Pin	26.00	11.60	861.25	3,787.19	79,754	Blade Runner Centraliser
146	7.000" Hydril 513 HT Box x Pin	26.00	11.61	872.86	3,775.58	80,001	Blade Runner Centraliser
145	7.000" Hydril 513 HT Box x Pin	26.00	11.61	884.47	3,763.97	80,247	Blade Runner Centraliser
144	7.000" Hydril 513 HT Box x Pin	26.00	11.67	896.14	3,752.30	80,495	Blade Runner Centraliser
143	7.000" Hydril 513 HT Box x Pin	26.00	11.55	907.69	3,740.75	80,740	Blade Runner Centraliser
142	7.000" Hydril 513 HT Box x Pin	26.00	11.66	919.35	3,729.09	80,988	Blade Runner Centraliser
141	7.000" Hydril 513 HT Box x Pin	26.00	11.57	930.92	3,717.52	81,234	Blade Runner Centraliser
140	7.000" Hydril 513 HT Box x Pin	26.00	11.61	942.53	3,705.91	81,480	Blade Runner Centraliser
139	7.000" Hydril 513 HT Box x Pin	26.00	11.61	954.14	3,694.30	81,727	Blade Runner Centraliser
138	7.000" Hydril 513 HT Box x Pin	26.00	11.59	965.73	3,682.71	81,973	Blade Runner Centraliser
137	7.000" Hydril 513 HT Box x Pin	26.00	11.62	977.35	3,671.09	82,219	Blade Runner Centraliser
136	7.000" Hydril 513 HT Box x Pin	26.00	11.60	988.95	3,659.49	82,466	Blade Runner Centraliser
135	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,000.58	3,647.86	82,713	Blade Runner Centraliser
134	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,012.20	3,636.24	82,959	Blade Runner Centraliser
133	7.000" Hydril 513 HT Box x Pin	26.00	11.68	1,023.88	3,624.56	83,207	Blade Runner Centraliser
132	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,035.46	3,612.98	83,453	Blade Runner Centraliser
131	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,047.03	3,601.41	83,699	Blade Runner Centraliser
130	7.000" Hydril 513 HT Box x Pin	26.00	11.16	1,058.19	3,590.25	83,936	Blade Runner Centraliser
129	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,069.83	3,578.61	84,183	Blade Runner Centraliser
128	7.000" Hydril 513 HT Box x Pin	26.00	11.40	1,081.23	3,567.21	84,425	Blade Runner Centraliser
127	7.000" Hydril 513 HT Box x Pin	26.00	11.52	1,092.75	3,555.69	84,670	Blade Runner Centraliser
126	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,104.37	3,544.07	84,916	Blade Runner Centraliser
125	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,116.00	3,532.44	85,163	Blade Runner Centraliser
124	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,127.63	3,520.81	85,410	Blade Runner Centraliser
123	7.000" Hydril 513 HT Box x Pin	26.00	11.45	1,139.08	3,509.36	85,653	Blade Runner Centraliser
122	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,150.74	3,497.70	85,901	Blade Runner Centraliser
121	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,162.31	3,486.13	86,147	Blade Runner Centraliser
120	7.000" Hydril 513 HT Box x Pin	26.00	11.21	1,173.52	3,474.92	86,385	Blade Runner Centraliser
119	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,185.05	3,463.39	86,629	Blade Runner Centraliser
118	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,196.69	3,451.75	86,877	Blade Runner Centraliser
117	7.000" Hydril 513 HT Box x Pin	26.00	10.95	1,207.64	3,440.80	87,109	Blade Runner Centraliser
116	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,219.24	3,429.20	87,355	Blade Runner Centraliser
115	7.000" Hydril 513 HT Box x Pin	26.00	11.51	1,230.75	3,417.69	87,600	Blade Runner Centraliser
114	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,242.28	3,406.16	87,845	Blade Runner Centraliser
113	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,253.91	3,394.53	88,091	Blade Runner Centraliser
112	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,265.56	3,382.88	88,339	Blade Runner Centraliser
111	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,277.15	3,371.29	88,585	Blade Runner Centraliser
110	7.000" Hydril 513 HT Box x Pin	26.00	11.48	1,288.63	3,359.81	88,829	Blade Runner Centraliser
109	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,300.28	3,348.16	89,076	Blade Runner Centraliser
108	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,311.91	3,336.53	89,323	Blade Runner Centraliser
107	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,323.51	3,324.93	89,569	Blade Runner Centraliser
106	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,335.12	3,313.32	89,816	Blade Runner Centraliser
105	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,346.78	3,301.66	90,063	Blade Runner Centraliser
104	7.000" Hydril 513 HT Box x Pin	26.00	11.48	1,358.26	3,290.18	90,307	Blade Runner Centraliser
103	7.000" Hydril 513 HT Box x Pin	26.00	11.34	1,369.60	3,278.84	90,548	Blade Runner Centraliser
102	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,381.18	3,267.26	90,794	Blade Runner Centraliser
101	7.000" Hydril 513 HT Box x Pin	26.00	11.53	1,392.71	3,255.73	91,039	Blade Runner Centraliser
100	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,404.35	3,244.09	91,286	Blade Runner Centraliser

Joint#	DESCRIPTION	PIPE WT (#/ft)	LENGTH (ft)	ACCUM. LENGTH (ft)	DEPTH (ft) 4,648.44	ACCUM. WT. (LBS)	COMMENTS
99	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,415.99	3,232.45	91,533	Blade Runner Centraliser
98	7.000" Hydril 513 HT Box x Pin	26.00	11.01	1,427.00	3,221.44	91,767	Blade Runner Centraliser
97	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,438.63	3,209.81	92,014	Blade Runner Centraliser
96	7.000" Hydril 513 HT Box x Pin	26.00	11.57	1,450.20	3,198.24	92,259	Blade Runner Centraliser
95	7.000" Hydril 513 HT Box x Pin	26.00	11.54	1,461.74	3,186.70	92,504	Blade Runner Centraliser
94	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,473.40	3,175.04	92,752	Blade Runner Centraliser
93	7.000" Hydril 513 HT Box x Pin	26.00	11.56	1,484.96	3,163.48	92,997	Blade Runner Centraliser
92	7.000" Hydril 513 HT Box x Pin	26.00	11.69	1,496.65	3,151.79	93,246	Blade Runner Centraliser
91	7.000" Hydril 513 HT Box x Pin	26.00	11.64	1,508.29	3,140.15	93,493	Blade Runner Centraliser
90	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,519.89	3,128.55	93,739	Blade Runner Centraliser
89	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,531.49	3,116.95	93,985	Blade Runner Centraliser
88	7.000" Hydril 513 HT Box x Pin	26.00	11.44	1,542.93	3,105.51	94,228	Blade Runner Centraliser
87	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,554.59	3,093.85	94,476	Blade Runner Centraliser
86	7.000" Hydril 513 HT Box x Pin	26.00	11.52	1,566.11	3,082.33	94,720	Blade Runner Centraliser
85	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,577.76	3,070.68	94,968	Blade Runner Centraliser
84	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,589.42	3,059.02	95,215	Blade Runner Centraliser
83	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,601.00	3,047.44	95,461	Blade Runner Centraliser
82	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,612.61	3,035.83	95,708	Blade Runner Centraliser
81	7.000" Hydril 513 HT Box x Pin	26.00	11.42	1,624.03	3,024.41	95,950	Blade Runner Centraliser
80	7.000" Hydril 513 HT Box x Pin	26.00	10.95	1,634.98	3,013.46	96,183	Blade Runner Centraliser
79	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,646.61	3,001.83	96,430	Blade Runner Centraliser
78	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,658.22	2,990.22	96,676	Blade Runner Centraliser
77	7.000" Hydril 513 HT Box x Pin	26.00	11.67	1,669.89	2,978.55	96,924	Blade Runner Centraliser
76	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,681.48	2,966.96	97,170	Blade Runner Centraliser
75	7.000" Hydril 513 HT Box x Pin	26.00	11.24	1,692.72	2,955.72	97,409	Blade Runner Centraliser
74	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,704.31	2,944.13	97,655	Blade Runner Centraliser
73	7.000" Hydril 513 HT Box x Pin	26.00	11.36	1,715.67	2,932.77	97,896	Blade Runner Centraliser
72	7.000" Hydril 513 HT Box x Pin	26.00	11.38	1,727.05	2,921.39	98,138	Blade Runner Centraliser
71	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,738.66	2,909.78	98,384	Blade Runner Centraliser
70	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,750.25	2,898.19	98,630	Blade Runner Centraliser
69	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,761.87	2,886.57	98,877	Blade Runner Centraliser
68	7.000" Hydril 513 HT Box x Pin	26.00	11.65	1,773.52	2,874.92	99,124	Blade Runner Centraliser
67	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,785.14	2,863.30	99,371	Blade Runner Centraliser
66	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,796.74	2,851.70	99,617	Blade Runner Centraliser
65	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,808.33	2,840.11	99,863	Blade Runner Centraliser
64	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,819.92	2,828.52	100,109	Blade Runner Centraliser
63	7.000" Hydril 513 HT Box x Pin	26.00	11.54	1,831.46	2,816.98	100,354	Blade Runner Centraliser
62	7.000" Hydril 513 HT Box x Pin	26.00	11.62	1,843.08	2,805.36	100,601	Blade Runner Centraliser
61	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,854.74	2,793.70	100,849	Blade Runner Centraliser
60	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,866.32	2,782.12	101,095	Blade Runner Centraliser
59	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,877.98	2,770.46	101,342	Blade Runner Centraliser
58	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,889.58	2,758.86	101,588	Blade Runner Centraliser
57	7.000" Hydril 513 HT Box x Pin	26.00	11.59	1,901.17	2,747.27	101,835	Blade Runner Centraliser
56	7.000" Hydril 513 HT Box x Pin	26.00	11.60	1,912.77	2,735.67	102,081	Blade Runner Centraliser
55	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,924.43	2,724.01	102,328	Blade Runner Centraliser
54	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,936.09	2,712.35	102,576	Blade Runner Centraliser
53	7.000" Hydril 513 HT Box x Pin	26.00	11.58	1,947.67	2,700.77	102,822	Blade Runner Centraliser
52	7.000" Hydril 513 HT Box x Pin	26.00	11.61	1,959.28	2,689.16	103,068	Blade Runner Centraliser
51	7.000" Hydril 513 HT Box x Pin	26.00	11.67	1,970.95	2,677.49	103,316	Blade Runner Centraliser
50	7.000" Hydril 513 HT Box x Pin	26.00	11.63	1,982.58	2,665.86	103,563	Blade Runner Centraliser
49	7.000" Hydril 513 HT Box x Pin	26.00	11.66	1,994.24	2,654.20	103,811	Blade Runner Centraliser
48	7.000" Hydril 513 HT Box x Pin	26.00	11.61	2,005.85	2,642.59	104,057	Blade Runner Centraliser
47	7.000" Hydril 513 HT Box x Pin	26.00	11.62	2,017.47	2,630.97	104,304	Blade Runner Centraliser
46	7.000" Hydril 513 HT Box x Pin	26.00	11.17	2,028.64	2,619.80	104,541	Blade Runner Centraliser
45	7.000" Hydril 513 HT Box x Pin	26.00	11.61	2,040.25	2,608.19	104,788	Blade Runner Centraliser
44	7.000" Hydril 513 HT Box x Pin	26.00	11.63	2,051.88	2,596.56	105,034	Blade Runner Centraliser
43	7.000" Hydril 513 HT Box x Pin	26.00	11.55	2,063.43	2,585.01	105,280	Blade Runner Centraliser
42	7.000" Hydril 513 HT Box x Pin	26.00	11.36	2,074.79	2,573.65	105,521	Blade Runner Centraliser
BOT	Csg x/o Sub to 7" 26# Hydril 513 pin	26.00	0.22	2,075.01	2,573.43	105,526	
BOT	7-5/8" HRD Setting Sleeve x 6 FT	29.70	2.43	2,077.44	**2,571.00**	105,585	**Top Of Liner**
BOT	Running Tool Stick Up	19.50	2.90	2,080.34	2,568.10	105,631	
Rig	Crossover Sub to 4-1/2" IF Pin dwn.	24.70	0.91	2,081.25	2,567.19	105,649	
Rig	5.500" Drill Pipe Pup Joint	24.70	1.59	2,082.84	2,565.60	105,681	
Rig	86 Stds - 5.500" DP w/ 5-1/2" XT 57	24.70	2,540.39	4,623.23	25.21	156,923	
Rig	Stand - 5.500" DP w/ 5-1/2" XT 57	24.70	29.55	4,652.78	(4.34)	157,519	
							9.500" Open Hole

DQRM-S001F1
Revision: New
05-23-07

PROPOSED WELL SCHEMATIC



DISTRICT LOCATION

Baker Oil Tools
Liner Hanger Products
Sale, Australia

BAKER HUGHES

Baker Oil Tools

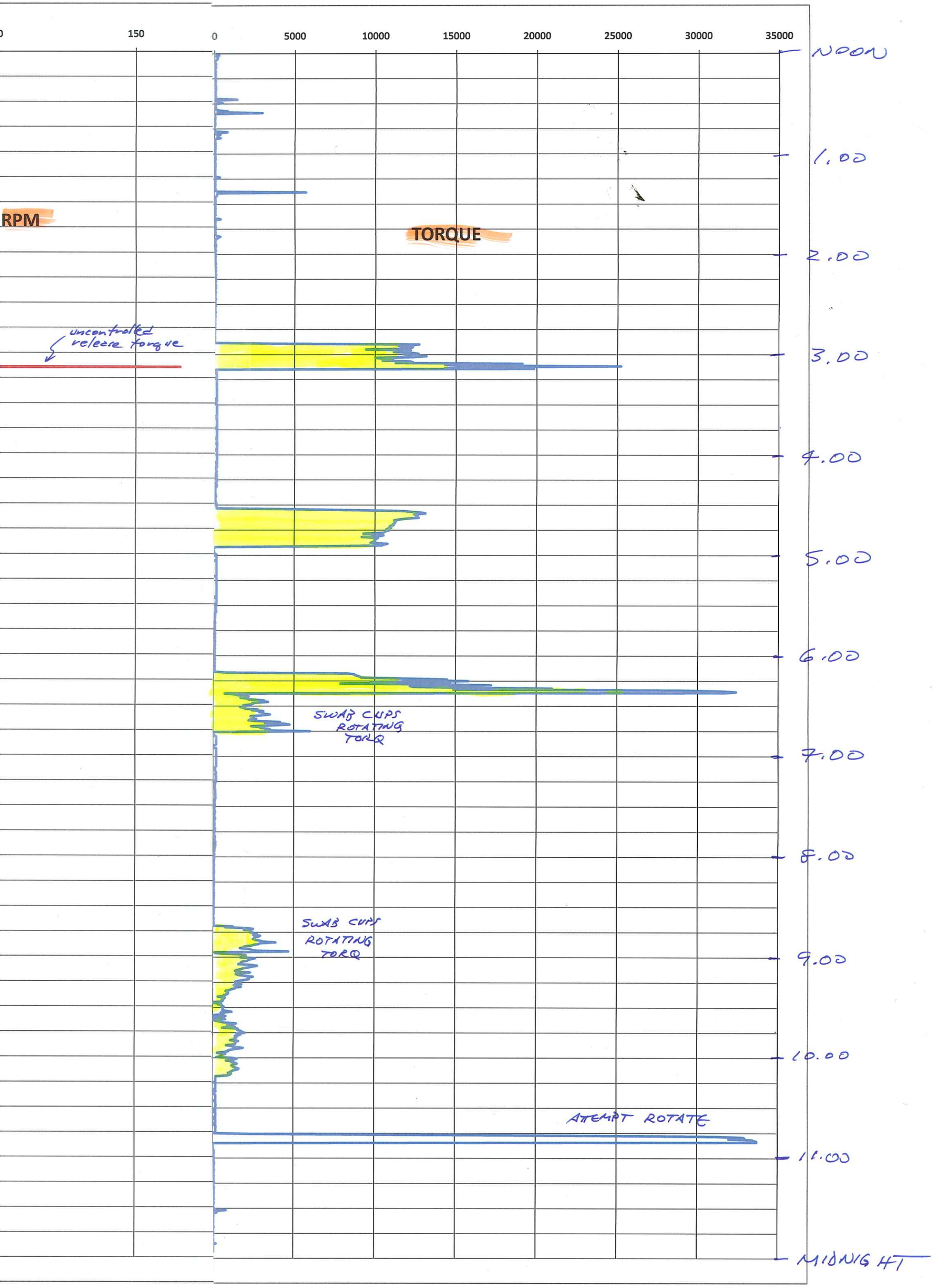
OPERATOR	Nexus Energy
COMPANY REP.	Bill Openshaw
FIELD	Bass Strait
WELL NO.	Longtom - 4
LEASE	
RIG NAME	Triton
Sales Service Ticket #	OHC--Australia-Franjon
MD (ft.)	15,252
FLUID TYPE:	
FLUID WEIGHT (PPG)	12.0
DATE SUBMITTED	8/9/2008
PREPARED BY:	Jonathan Francis

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	10.750	55.5	80,000	Hydril 523	8502.10 FT
	SIZE	WEIGHT	GRADE	THREAD	LENGTH
LINER #1	7.000	29.0	80,000	Hydril 513	4820.44 FT
LINER #2	7.000	29.0	80,000	Hydril 513	1987.77 FT
	SIZE	WEIGHT	GRADE	THREAD	LENGTH
DRILL PIPE #1	5.500	24.7	S-135	XT 57	8433.00 FT
DRILL PIPE #2	5.500	24.7	S-135	XT 57	5.127 FT
DRILL PIPE #3	5-1/2 X 4-1/2"	19.5	110	4-1/2" IF	2.99 FT
DRILL PIPE #4	4.500	19.5	110	4-1/2" IF	9.516 FT
DRILL PIPE #5					

	Tool Number	Material Number	Description	Depth (FT)	Length (FT)	OD (in.)	ID (in.)
4	1	H295422028	7-5/8 " HRD SETTING SLEEVE WITH 7.735" EXTENSION ID, 8.250" EXT. OD X 6 FT LG	8,433.20	7.973	8.250	6.760
5	2	H299695388	CROSSOVER SUB, 7-5/8" 29.70 PPF HYDRIL BOX UP X 7.000" 26 PPF HYDRIL 513 PIN DOWN	8,441.17	0.722	7.628	6.135
6	3	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN CSG.	8,441.90	4,549.92	7.000	6.276
	4	SUPPLY BY Nexus Energy	CROSSOVER SUB, 7.000" 26 PPF HYDRIL BOX UP X 7.000" 29 PPF HYDRIL 513 PIN DOWN	12,991.82	1.870	7.000	6.184
	5	SUPPLY BY Nexus Energy	7.000" 29 PPF L-80 HYDRIL 513 BOX X PIN CSG.	12,993.69	1,987.77	7.000	6.184
7	6	SUPPLY BY Nexus Energy	CROSSOVER SUB, 7.000" 29 PPF HYDRIL BOX UP X 7.000" 26 PPF HYDRIL 513 PIN DOWN (Installed Insert Type 2 Landing Collar)	14,981.46	1.739	7.000	6.184
	7	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN CSG.	14,983.19	188.52	7.000	6.276
8	8	SUPPLY BY Nexus Energy	1 JT - 7.000" 26 PPF L-80 HYDRIL 513 Box X Pin (Installed Insert Type Float Collar at Box)	15,171.71	37.88	7.000	6.276
	9	SUPPLY BY Nexus Energy	7.000" 26 PPF L-80 HYDRIL 513 BOX X PIN (Reamer Shoe Joint)	15,209.59	37.57	7.000	6.276
	10	SUPPLY BY Nexus Energy	8-1/4" Non-Baker Reamer Shoe	15,247.16	2.95	8.250	6.276
9			**Bottom of Shoe @**	15,250.11			
			LINER HANGER ACCSS.				
	1	H078835701	1.500" PHENOLIC SETTING BALL.				
	2	H270200155	2.2" PUMP DOWN PLUG 2.280" NOSE OD F/4.892 IN MAX CSG ID F/2.440 IN MIN CSG ID 3000 PSI @ 350 DEG F NITRILE SEAL				
	3	H269380004	SOLO PLUG LINER WIPER PLUG				
		Company Representative					
		BOT Representative					

DQRM-S001F1
Revision: New
05-23-07

Appendix 2: Data Log


0
150
0
5000
10000
15000
20000
25000
30000
35000
RPM
TORQUE
uncontrolled release torque
SWAB CUPS ROTATING TORQ
SWAB CUPS ROTATING TORQ
ATTEMPT ROTATE
NOON
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
MIDNIGHT

500 0 1000 2000 3000 4000 50 100

30 KIPS

925 psi

SPP

R

RELEASE HRD

SPP

SHEAR OUT BACK

665psi drop

WASHING SWAP CUPS

4 bpm out

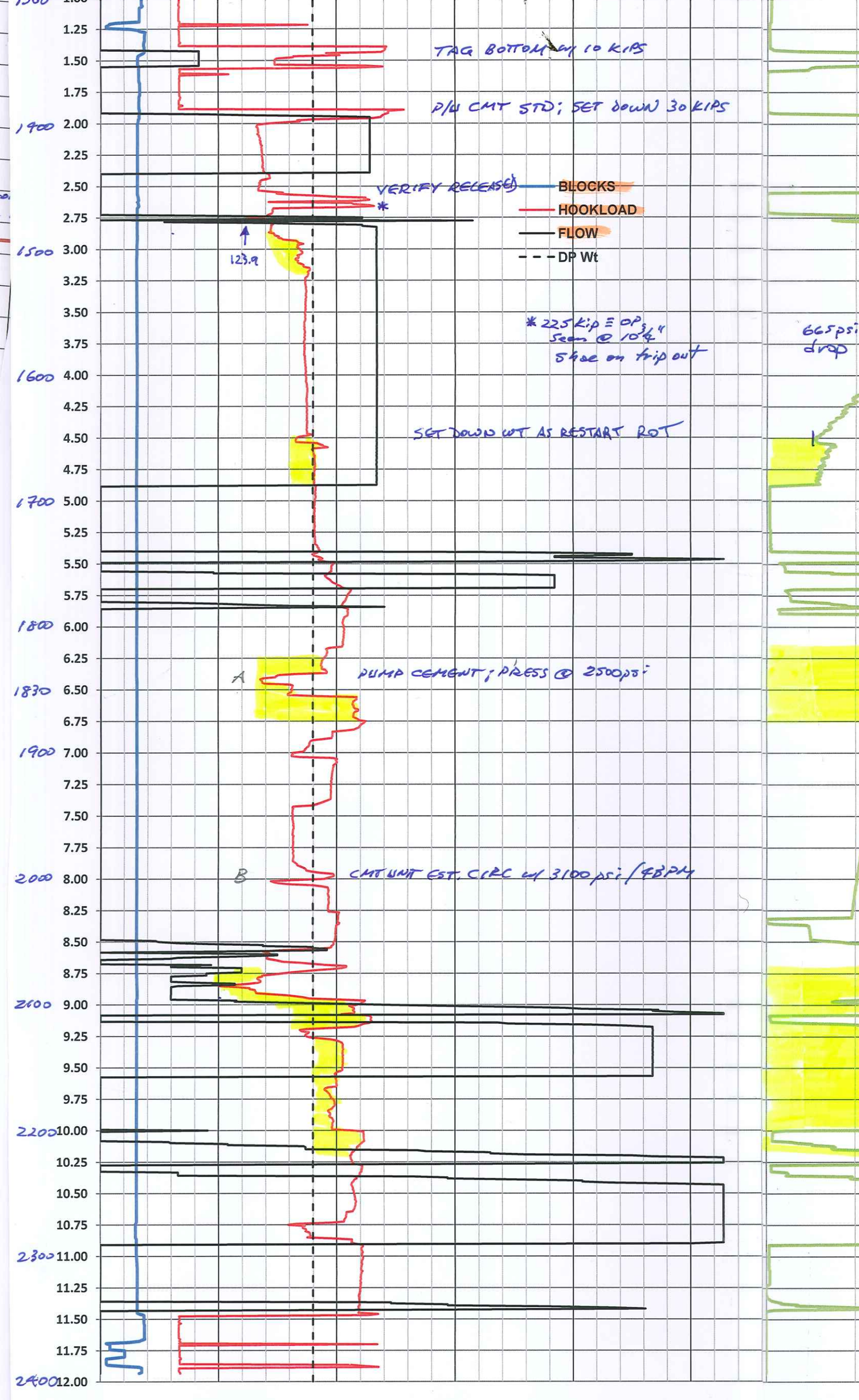
MP's 60 66/s ~~TUNED~~ BASE OIL

MP's 60 66/s TUNED SPACER

ESTABLISH CIRC W/ MP's

SWAP CUPS HOLDING PRESS

BOT NOTE BACKLASH


TAG BOTTOM W/ 10 KIPS
P/U CMT STD; SET DOWN 30 KIPS
VERIFY RELEASED
BLOCKS
HOOKLOAD
FLOW
DP Wt
123.9
* 225 Kip = OP seen @ 10¾"
Shoe on trip out
665psi drop
SET DOWN WT AS RESTART ROT
A
PUMP CEMENT; PRESS @ 2500psi
B
CMT UNIT EST. CIRC W/ 3100psi / 40BPM
1500
1600
1700
1800
1830
1900
2000
2100
2200
2300
2400
1.25
1.50
1.75
2.00
2.25
2.50
2.75
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9.75
10.00
10.25
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10.75
11.00
11.25
11.50
11.75
12.00

Appendix 3: Hook-up Drawing

7-5/8" CEMENTED LINER SYSTEM

CUSTOMER: ADA / NEXUS

COUNTRY: AUSTRALIA FIELD:

QUOTATION NO. 1576-08 WELL NO. LONGTOM-4

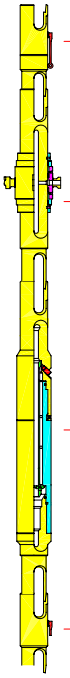
DRAWING NO. Rev 1

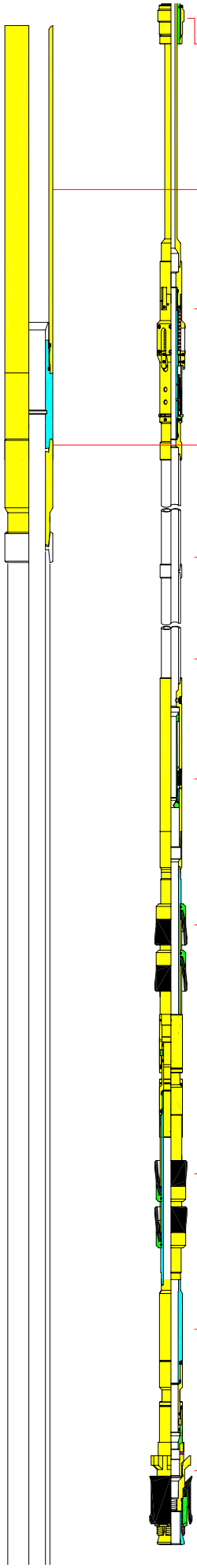
APPROVED BY: A. ORCHARD

DRAWN BY: A. ORCHARD

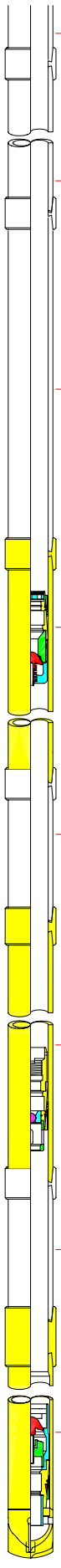
DATE: 12-AUG-08

Baker Oil Tools

MAX. O.D.	MIN. I.D.	WELL SCHEMATIC	DESCRIPTION	LENGTH	DEPTH
10.400"	3.00"		KELLY VALVE SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: PRODUCT NO: H27820		
			TD SWIVEL SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27825		
9.500"	3.500"		PLUG DROPPING TD HEAD SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27828		
6.125"	3.250"		FLAG SUB SIZE: 4.500" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS PRODUCT NO: H27821		
2.280"	N/A		PUMP DOWN PLUG SIZE: 2.28" THREADS: MATERIAL: NITRILE / PHENOLIC PRODUCT FAMILY: H27020		
1.50"	N/A		SETTING BALL SIZE: 1.750" THREADS: MATERIAL: PHENOLIC PRODUCT FAMILY: H078835700		
6.375"	3.000"		LIFT NIPPLE SIZE: 4.5" THREADS: 4.5" IF BOX X PIN MATERIAL: 110 KSI MYS		



8.250"	N/A"	PRODUCT NO: H26520 JUNK COVER F/ 4.5" OD LIFT NIPPLE STEM SIZE: 7" THREADS: N/A MATERIAL: 110 KSI MYS PRODUCT NO: H26530
8.25	6.76	HRD SLEEVE WITH EXTENSION 8.25" OD X 7.75" ID X 6FT PBR EXTN SIZE: 7.625" THREADS: 7.625" 29.7# HYDRIL 511 MATERIAL: 80 KSI MYS PRODUCT FAMILY: H29532
7.395"	2.453"	HRD SETTING TOOL 2,500 PSI RELEASE SIZE: 4.5" THREADS: 4.5" IF BOX X 2.875" EU 8RD BOX MATERIAL: 110 KSI MYS PRODUCT NO: H26693
		CROSSOVER BUSHING CLIENT OWNED SIZE: 7.625" 29.7# X 7" 26# THREADS: HYDRIL 511 X HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
3.25"	2.50"	TUBING PIN X PIN HEAVY WALLED SIZE: 2.875" THREADS: EU 8RD MATERIAL: 80 KSI MYS
3.25"	2.50"	TUBING PIN X PIN HEAVY WALLED SIZE: 2.875" THREADS: EU 8RD MATERIAL: 80 KSI MYS
		ST LANDING SUB USES 1.50" OD BALL SIZE: 7" THREADS: 2.875" EU 8RD MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SWAB CUP ASSEMBLY DUAL DOWN FACING CUPS SIZE: 7" 26# THREADS: 2.875" MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SWAB CUP ASSEMBLY DUAL UP FACING CUPS SIZE: 7" 26# THREADS: 2.875" MATERIAL: 110 KSI MYS PRODUCT FAMILY: H27604
		SOLO PLUG RELEASE TOOL SIZE: 7" THREADS: 2.875" EU 8RD MATERIAL: 110 KSI MYS PRODUCT FAMILY: H26937
		SOLO LINER WIPER PLUG SIZE: 7" 17–35 LB/FT THREADS: N/A MATERIAL: NITRILE AND ALUMINIUM PRODUCT FAMILY: H26938

7"	6.276"		LINER JOINT CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
7"	6.276"		LINER JOINTS CUSTOMER OWNED SIZE: 7" 26# AND 29# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
7"	6.276"		LINER JOINTS CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
			INSERT VALVE FLOAT COLLAR SINGLE FLOAT C/W BAFFLE PLATE SIZE: 7" 26# THREADS: N/A MATERIAL: ALUMINIUM PRODUCT FAMILY: H26662
7"	6.276"		LINER JOINT / PUP CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
			INSERT LANDING COLLAR TYPE II SIZE: 7" 26# THREADS: N/A MATERIAL: ALUMINIUM PRODUCT FAMILY: H26659
7"	6.276"		LINER JOINT / PUP CLIENT OWNED SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: 80 KSI MYS PRODUCT FAMILY:
8.25			REAMER SHOE SIZE: 7" 26# THREADS: HYDRIL 513 MATERIAL: ALUMINIUM PRODUCT FAMILY: BBL

Nominal Illustration

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Appendix 4: Equipment List

Nexus Energy

Well : **Longtom 4**
Job: **S1151**

(A) PRIMARY SALES ITEMS (NOTE: THIS ITEMS WERE SUPPLIED BY NEXUS)

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H295422028	Nexus Supplied	1	HRD Setting Sleeve	05-Aug-08
2	H299695388	Nexus Supplied	1	Crossover Sub	07-Aug-08

(B) PRIMARY RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H265200006	10107026	1	4 1/2" IF Lift Nipple	06-Aug-08
2	H265300012	ZTSL1055	1	Junk Cover	05-Mar-08
3	H266800059	10526539	1	7 5/8" HRD Running Tool	

(C) BACKUP SALES ITEMS (NOTE: THIS ITEMS WERE SUPPLIED BY NEXUS)

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H295422028	Nexus Supplied	1	HRD Setting Sleeve	06-Aug-08
2	H299695388	Nexus Supplied	1	Crossover Sub	07-Aug-08

(D) BACKUP RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1			1	4 1/2" IF Lift Nipple	
2			1	Junk Cover	
3	H266800040		1	7 5/8" HRD Running Tool	

(E) LOOSE RUNNING ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H276040087	10526541	1	Swab Cup Assembly No.1	
2	H276040087	10526542	1	Swab Cup Assembly No.2	
3	H265290019	10524777	1	Pup Joint 2 7/8" EU Pin X 2 7/8" EU Pin	07-Aug-08
4	H265290019	10524778	1	Pup Joint 2 7/8" EU Pin X 2 7/8" EU Pin	07-Aug-08
5	H269370002	ZZBRN0510	1	7" Solo Plug Adapter	01-Jul-08
6	H269370002	ZZBRN0517	1	7" Solo Plug Adapter	30-Jun-08
8	-	-	4	Coupling 2 7/8" EU Box X Box	N/A

(F) CEMENT HEAD ITEMS

No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H265200071	ZTSL180	1	4 1/2" IF Lift Nipple	
2	H27820K008	ZTSL357	1	Kelly Valve	10-Jun-08
3	H278250016	ZLCS407	1	TD Swivel	10-Jun-08
4	H278280003	ZTSL385	1	Plug Dropping Head	10-Jun-08
5	H278210011	ZTS164A	1	Flag Sub	01-Feb-07

(G) OTHER LOOSE ITEMS

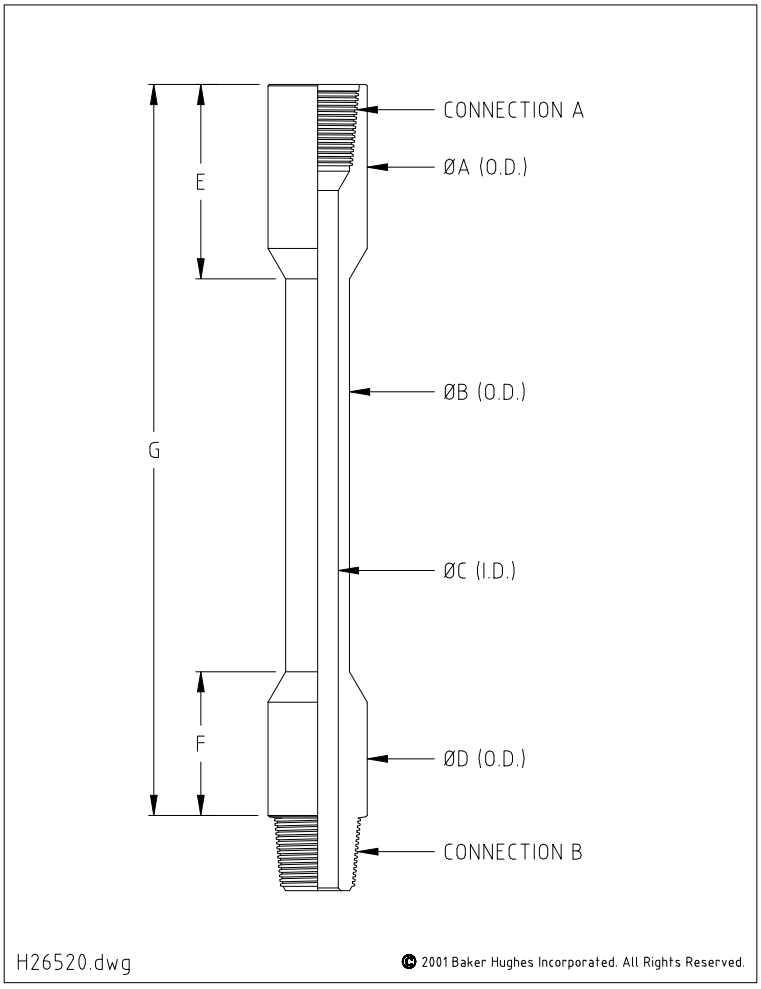
No.	Commodity No.	Serial No.	Qty	Description	Last C.I.S.
1	H269380004	-	2	7" Solo Plug	N/A
2	H270200155	-	2	Pump down plug F/- 7" Solo Plug	N/A
3	H078237800	-	2	Type 1 Insert Landing Collar	N/A
4	H078300803	-	2	Insert Float Valves	N/A
5	H078238611	-	4	Insert Seal Unit	N/A
6	H078237903	-	2	Shear out Ball Seat	N/A
7	H078238000	-	2	Ball Catcher	N/A
8	H078835701	-	2	1.75" Ball	N/A
9	H078835700	-	2	1.5" Ball	N/A
10	H078286700	-	1	Hand Pump	N/A
11	H266574002	-	1	Hydraulic Setting Tool	N/A
12	H26657	-	1	Insert Tool Adapter F/- 7"	N/A
13	H276050010	10573171	1	7" ST Landing Sub	N/A
14	10118178	ZZTBM9854	1	Tieback Mill	N/A
15	10222221	-	1	7.625" 33.7# BTC box x 7" 26# Fox box crossover	03-Sep-08
16	10222222	-	1	7.625" 33.7# VAM FJL pin x 7.625" 33.7# BTC pin crossover	03-Sep-08
17	10118250	-	1	Tieback seal assembly 7.625" 33.7# VAM FJL box	03-Sep-08

Appendix 5: Component Inspection Sheets

Component Inspection:

Serial No: 10107026 **Material No: H265200006**

Description : Lift Nipple



Connections

Connection 1
4 ½" IF BOX

Connection 2
4 ½" IF PIN

Dimensions
By B Hall

Date: 6-8-08

A: 6.125"
B: 4.508"
C: 2.992"
D: 6.125"
E: 0.560m
F: 0.450m
G: 4.162m

Other Details

Size: 4 ½" IF

Max OD:
6.125"

Min ID: 2.992"

Drift: 2.33"

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 6-8-08

Final Field Inspection
Checked By :

Signed :

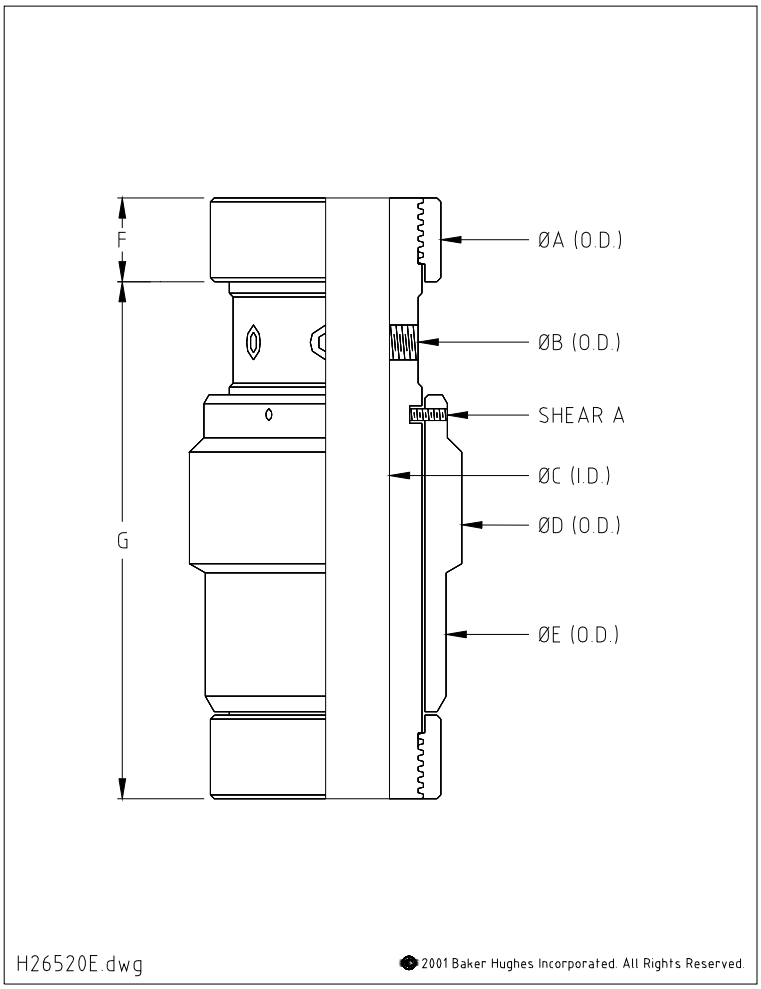
Date :

Comments

Component Inspection:

Serial No: ZTSL1055 **Material No: H265300012**

Description : 7” SLIDING JUNK COVER



Dimensions
By B.Hall

Date:

A: 7.115”
B: 6.125”
C: 5.090”
D: 8.125”
E: 7.313”
F: 0.050m
G: 0.333m

Other Details

Size: 7”

Material: 4140

Max OD: 8.125”

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Shear Detail
Shear A 4 x 3/8” Brass = 14,260lbs

Final Workshop Inspection

Checked By : B.Hall

Checked By:
Approved by:

Date : 05.03.08

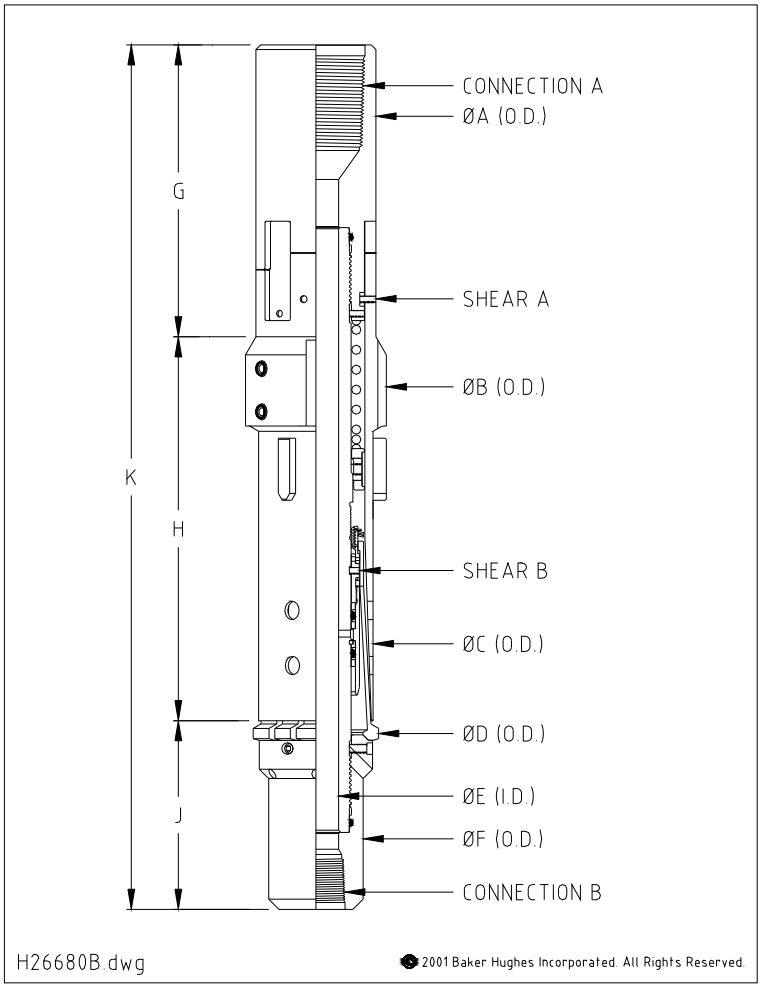
Final Field Inspection
Checked By
Signed :

Date :

Component Inspection:

Serial No: New 1 **Material No: H266800040**

Description : 7 5/8" HRD Setting Tool



Connections

Connection 1
4 ½" IF BOX

Connection 2
2 7/8" EU Box

Dimensions
By B Hall

Date 5-8-08

A: 6.500"
B: 7.655"
C: 6.670"
D: 7.230"
E: 2.450"
F: 5.415"
G: 0.405m
H: 0.530m
J: 0.255m
K: 1.192m

Other Details

Size: 7 5/8"

Max OD:
7.655"

Min ID: 2.450"

Drift: 2.330"

Shear Detail
Shear A: 2500psi – 5 Pins
Shear B: 4650FT/LBS – 2 Pins

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :

Signed :

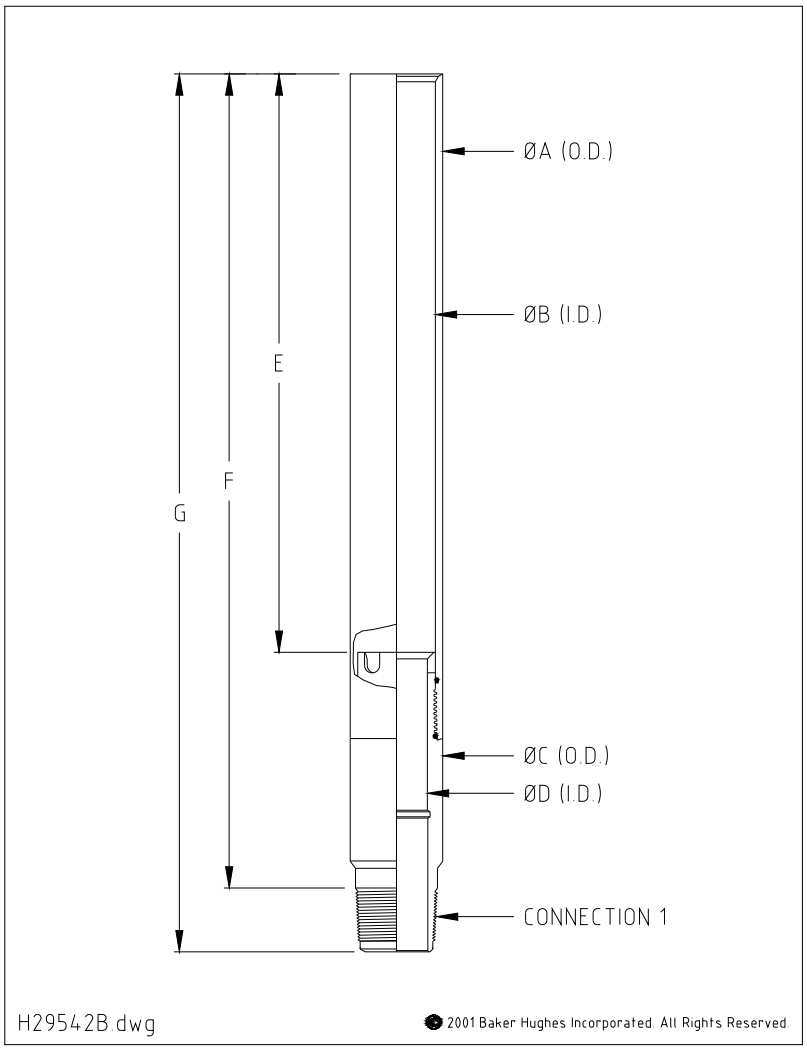
Date :

Comments

Component Inspection:

Serial No: Nexus Owned **Material No: H295422028**

Description : HRD Setting Sleeve



Connections

Connection 1
7 5/8" 29.7#
HYDRIL Box

Other Details

Size: 7 5/8"

Max OD: 8.254

Min ID: 6.760"

Dimensions
By C Carmody

Date 5-8-08

A: 8.254"
B: 7.735"
C: 7.666"
D: 6.760"
E: 7.805m
F: 2.430m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :

Signed :

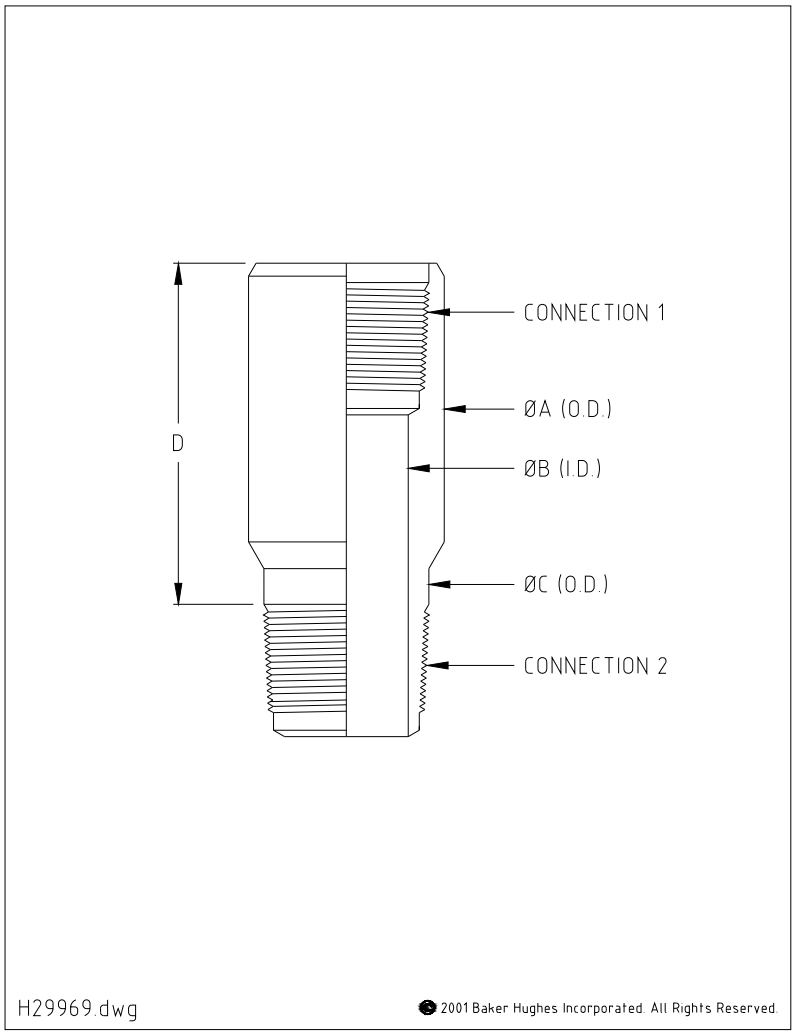
Date :

Comments
Nexus Supplied HRD Setting Sleeve F/- Longtom 4.

Component Inspection:

Serial No: Nexus Owned **Material No: H299695388**

Description : Crossover Sub



Connections

Connection 1
7 5/8" 29.7#
HYDRIL Box

Connection 2
7" 26# HYDRIL
Pin

Other Details

Size: 7 5/8"

Max OD:
7.628"

Min ID: 6.135"

Dimensions
By C Carmody

Date: 7-8-08

A:7.628"
B: 6.135"
C: 7.003"
D: 0.215m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :

Signed :

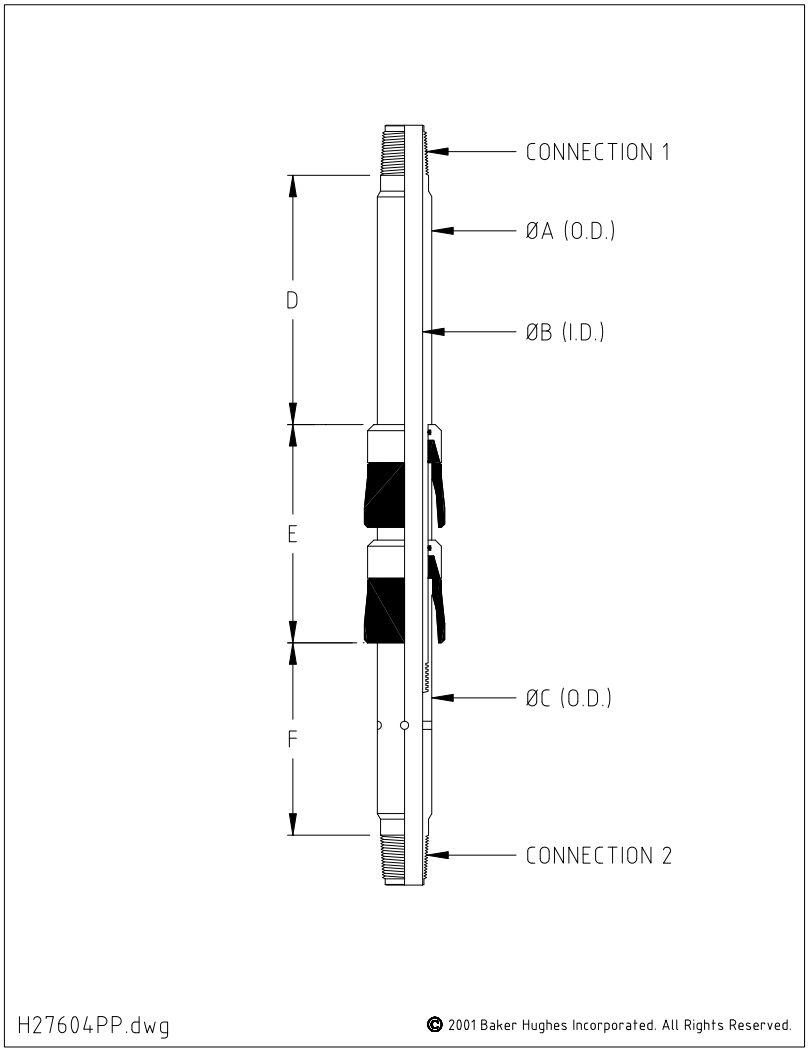
Date :

Comments

Component Inspection:

Serial No: No.1 **Material No:**

Description : 7” 26-29# Swab Cup Assembly



Connections

Connection 1
2 7/8” EU Pin

Connection 2
2 7/8” EU Pin

Dimensions
By B Hall

Date 5-8-08

A: 4.00”
B: 2.482”
C: 4.250”
D: 0.228m
E: 0.390m
F: 0.437m

Total Length:
1.055m

Other Details

Size: 7” 26-29#

Material: 4140

Max OD:
6.340”

Min ID: 2.482”

Drift: 2.330”

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :
Signed :

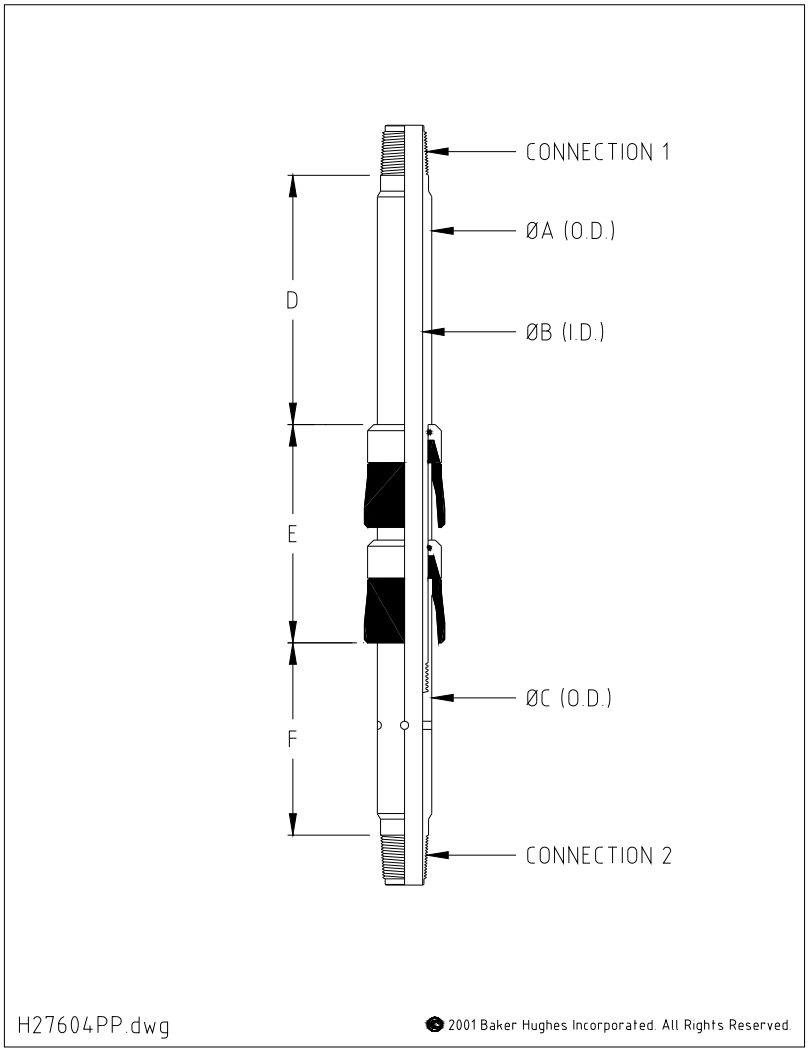
Date :

Comments
Thimble Size: 6” OD

Component Inspection:

Serial No: No.2 **Material No:**

Description : 7” 26-29# Swab Cup Assembly



Connections

Connection 1
2 7/8” EU Pin

Connection 2
2 7/8” EU Pin

Dimensions
By B Hall

Date 5-8-08

A: 4.00”
B: 2.482”
C: 4.250”
D: 0.228m
E: 0.390m
F: 0.437m

Total Length:
1.055m

Other Details

Size: 7” 26-29#

Material: 4140

Max OD:
6.340”

Min ID: 2.482”

Drift: 2.330”

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 5-8-08

Final Field Inspection
Checked By :
Signed :

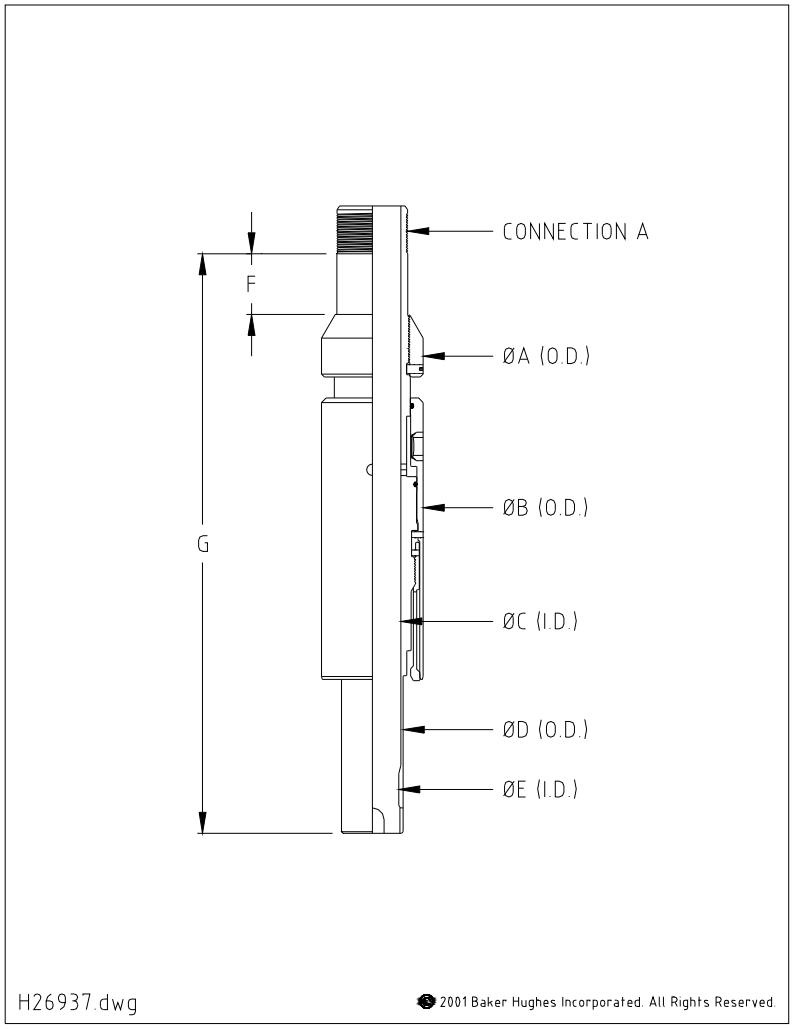
Date :

Comments
Thimble Size: 6” OD

Component Inspection:

Serial No: ZZBRN0510 **Material No: H269370002**

Description : LWP REL TL, SOLO 7.000 IN-11.7" 2.8"
7.000 IN-11.700 IN LINER WIPER PLUG
RELEASING SOLO 2.875 IN EU 8RD PIN UP
4.450 IN OD 2.310 IN ID 110 KSI MYS



Connections

Connection 1
2 7/8" EU Pin

Dimensions
By C Carmody

Date 1-7-08

A: 4.451"
B: 4.453"
C: 2.470"
D: 2.707"
E: 2.320"
F: 0.236m
G: 0.798m

Other Details

Size: 7"

Material: L80

Max OD: 4.453"

Min ID: 2.320"

Shear Detail
Shear A: 3 ¼" x ½" Shear Screws.
Shear B: 1.25" 5,000 PSI Rupture Disc

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 1-7-08

Final Field Inspection
Checked By :
Signed :

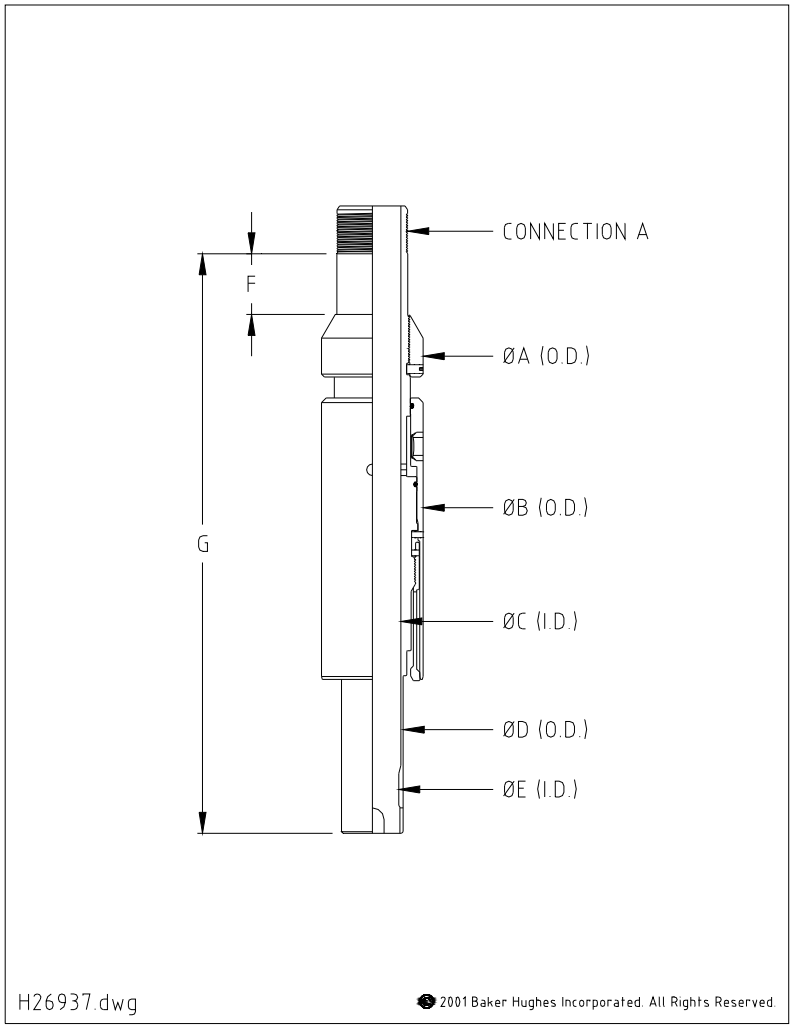
Date :

Comments

Component Inspection:

Serial No: ZZBRN0517 **Material No: H269370002**

Description : LWP REL TL, SOLO 7.000 IN-11.7" 2.8"
7.000 IN-11.700 IN LINER WIPER PLUG
RELEASING SOLO 2.875 IN EU 8RD PIN UP
4.450 IN OD 2.310 IN ID 110 KSI MYS



Connections

Connection 1
2 7/8" EU Pin

Dimensions
By B Hall

Date 30-6-08

A: 4.452"
B: 4.450"
C: 2.470"
D: 2.708"
E: 2.320"
F: 0.238m
G: 0.800m

Other Details

Size: 7"

Material: L80

Max OD:
4.450"

Min ID: 2.320"

Shear Detail
Shear A: 3 ¼" x ½" Shear Screws.
Shear B: 1.25" 5,000 PSI Rupture Disc

Final Workshop Inspection

Checked By: B Hall
Checked By:
Approved by:

Date : 30-6-08

Final Field Inspection
Checked By :
Signed :

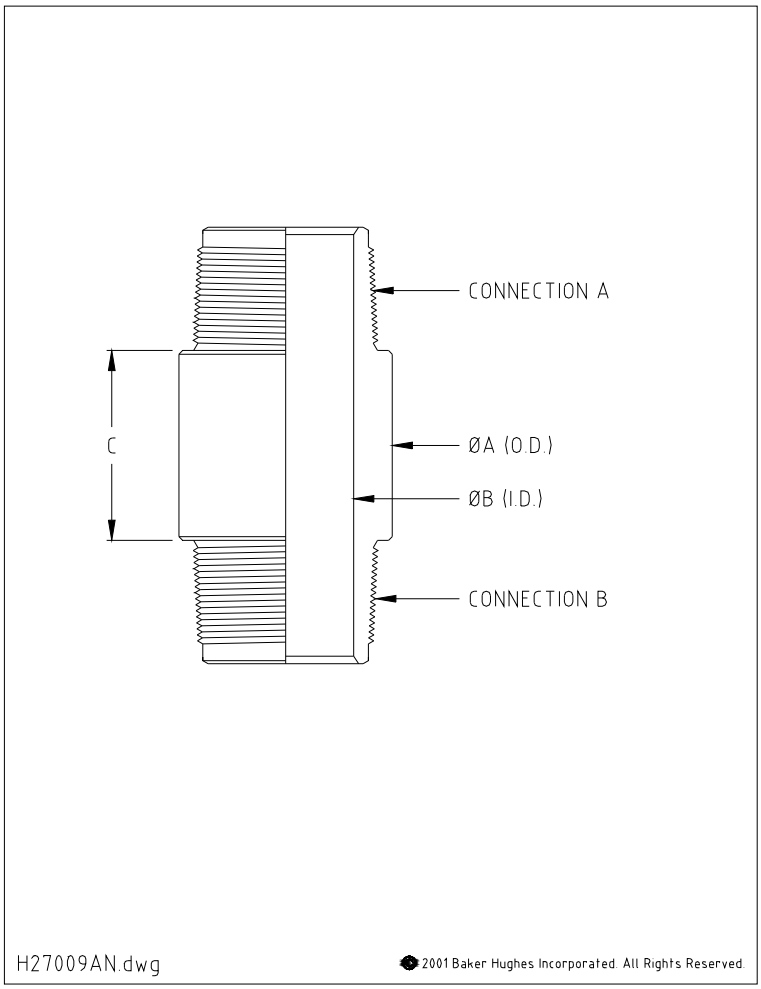
Date :

Comments

Component Inspection:

Serial No: 10524777 **Material No: H265290019**

Description : Pup Joint



Connections

Connection 1
2 7/8" EU Pin

Connection 2
2 7/8" EU Pin

Other Details

Max OD:
3.100"

Min ID: 2.455"

Drift: 2.33

Dimensions
By C Carmody

Date 7-8-08

A: 3.100"
B: 2.455"
C: 0.667m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :
Signed :

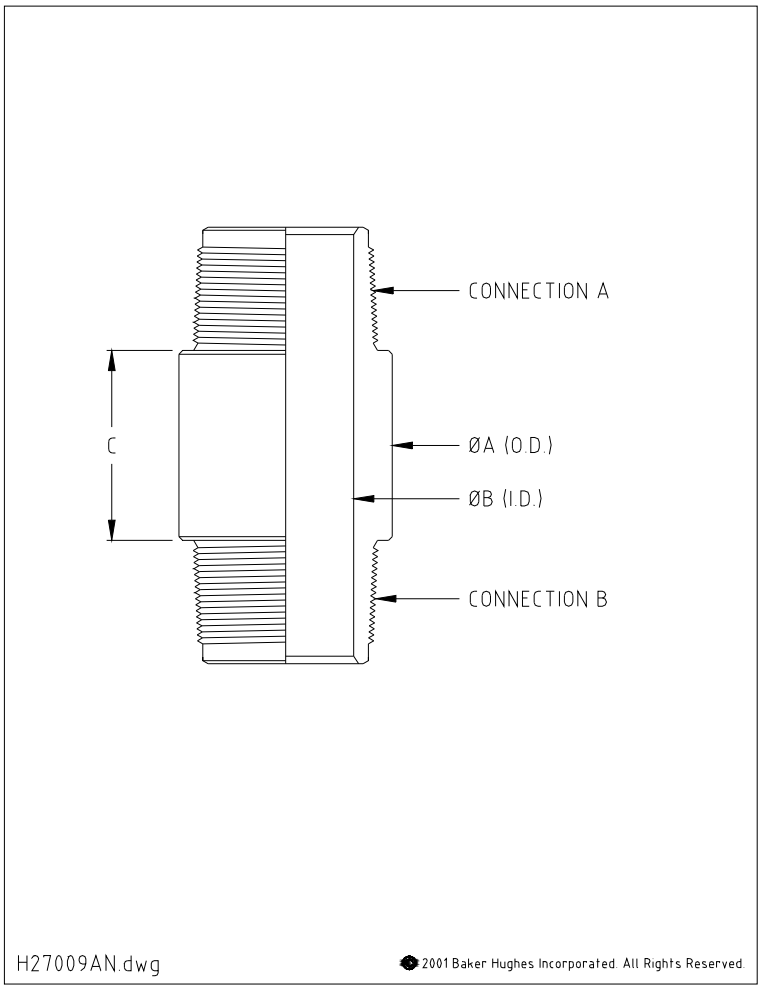
Date :

Comments

Component Inspection:

Serial No: 10524778 **Material No: H265290019**

Description : Pup Joint



Connections

Connection 1
2 7/8" EU Pin

Connection 2
2 7/8" EU Pin

Other Details

Max OD:
3.100"

Min ID: 2.455"

Drift: 2.33

Dimensions
By C Carmody

Date 7-8-08

A: 3.100"
B: 2.455"
C: 0.667m

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 7-8-08

Final Field Inspection
Checked By :
Signed :

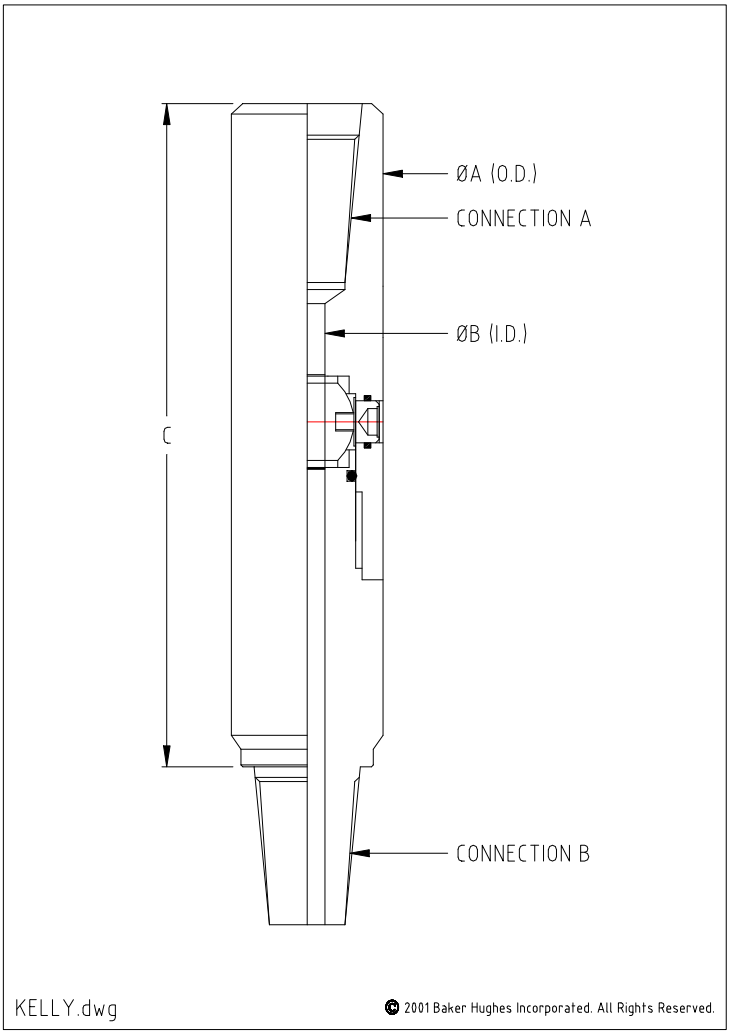
Date :

Comments

Component Inspection:

Serial No: ZTSL357 **Material No: H27820K008**

Description : LOWER KELLY VALVE, 4 ½" IF BOX x PIN



Connections

Connection A
4 ½" IF BOX

Connection B
4 ½" IF PIN

Other Details

Size: 4 ½" IF

Max OD: 6.625

Min ID: 2.750"

Dimensions
By S McEwen

Date 10.04.2008

A: 6.625"
B: 2.750"
C: 0.670 m

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 10.06.2008

Final Field Inspection
Checked By :

Signed :

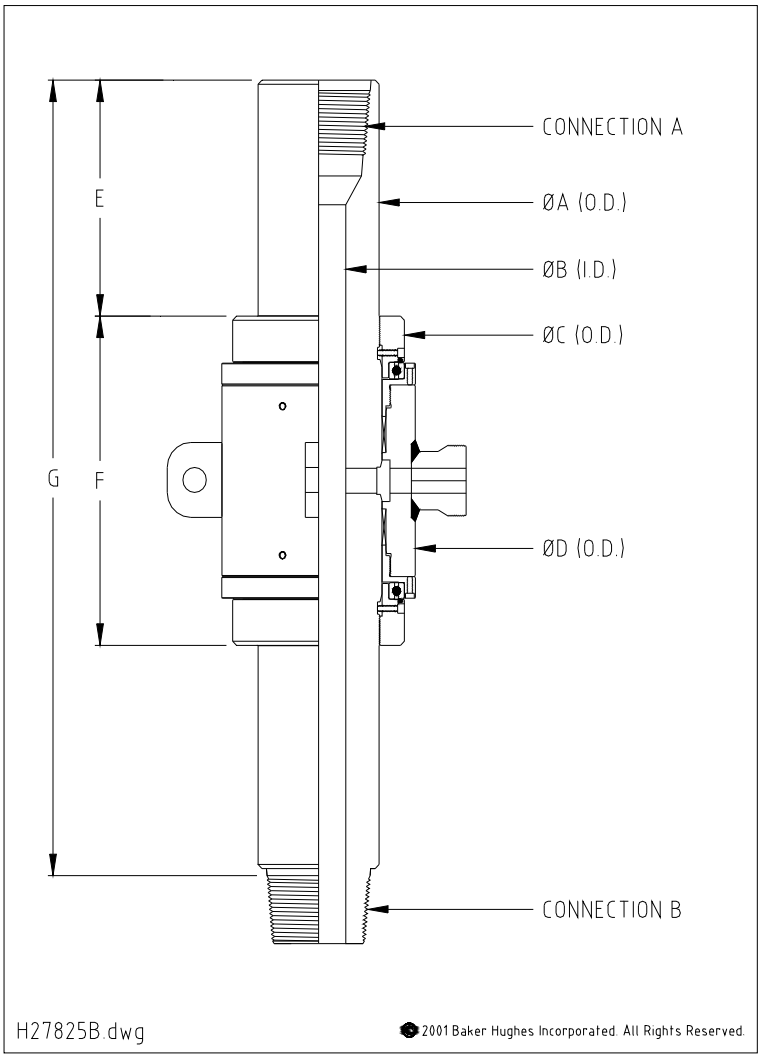
Date :

Comments

Component Inspection:

Serial No: ZLCS407 **Material No: H278250011**

Description : TD SWIVEL W-/ 4 ½" IF CONNECTIONS



Connections

Connection A
4 ½[' IF BOX

Connection B
4 ½" IF PIN

Dimensions
By S McEwen

Date 10.04.08

A: 6.375"
B: 3.00"
C: 9.00"
D: 10.375"
E: 0.362 m
F: 0.445 m
G: 1.155 m

Other Details

Size:

Range of Function:

Material:

3rd Party ID:

Max OD:

Min ID:

Drift

Inspection (NDT/MPI)

NDT/MPI Order Number:
Date:
Result::

Function Test

Final Workshop Inspection

Checked By : B Hall
Checked By:
Approved by:

Date : 10.06.08

Final Field Inspection
Checked By :

Signed :

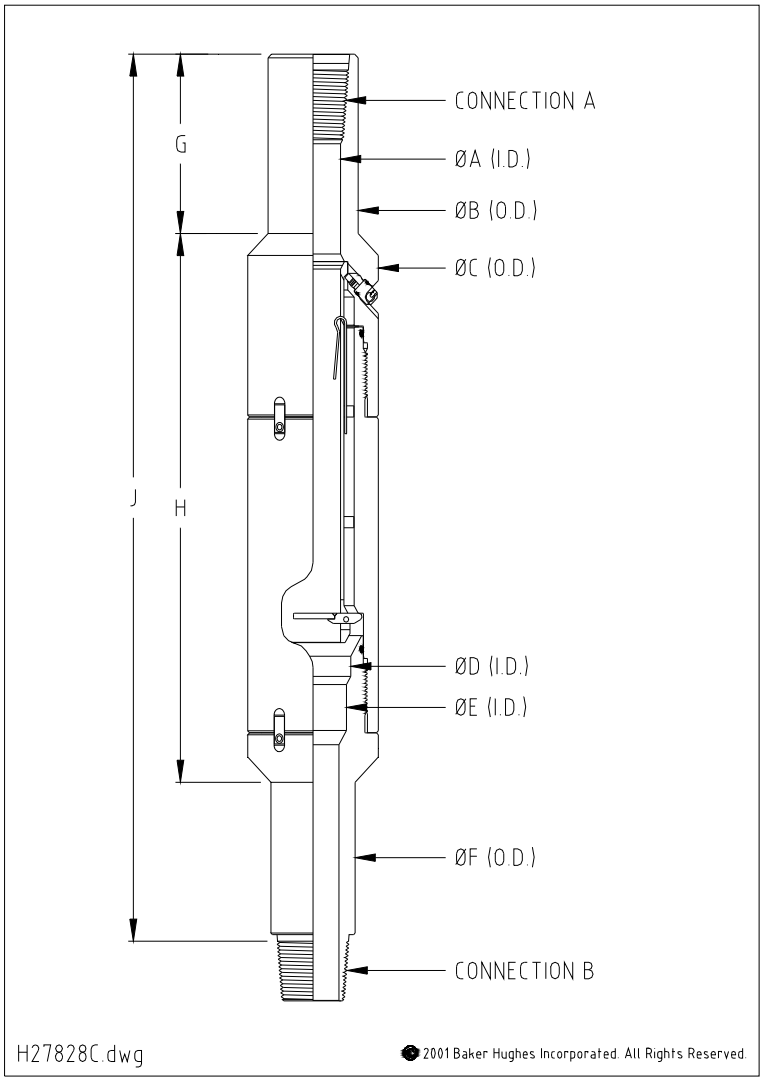
Date :

Comments

Component Inspection:

Serial No: ZTSL385 **Material No: H278280003**

Description : TD PLUG DROPPING HEAD



Connections

Connection 1
4 ½" IF Box

Connection 2
4 ½" IF Pin

Dimensions
By
Date

Other Details

Size:

Material: 4140

Max OD:

Min ID:

Drift

A: 4.00"
B: 6.300"
C: 9.500"
D: 5.5"
E: 4.875"
F: 0.500"
G: 0.280 m
H: .953 m
J: 1.500 m

Function Test

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 4.6.08

Final Field Inspection
Checked By :
Signed :

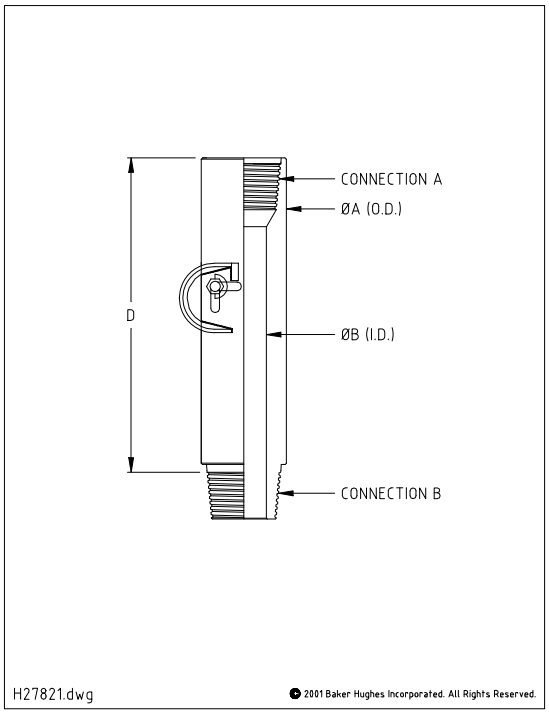
Date :

Comments
THIS INSPECTION SHEET WAS CREATED WITH REFERENCE TO TOOL: ZTSL651 – H278280003

Component Inspection:

Serial No: ZTS164A **Material No: H278210011**

Description : FLAG SUB



Connections

Connection 1
4 ½" IF Box

Connection 2
4 ½" IF Pin

Dimensions
By

Date

A: 6.125"
B: 3.250"
C: 8.438"
D: 0.482 m

Other Details

Size:

Material: 4140

Max OD:

Min ID:

Drift

Function Test

Final Workshop Inspection

Checked By : BRUCE HALL
Checked By:
Approved by:

Date : 01.02.2007

Final Field Inspection
Checked By :

Signed :

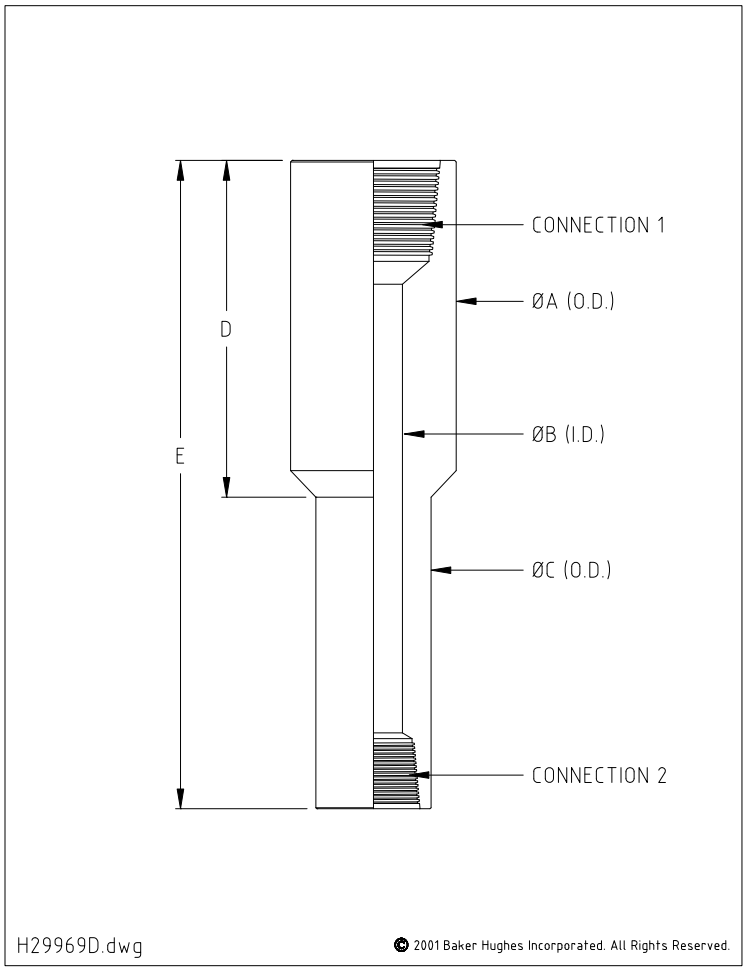
Date :

Comments

Component Inspection:

Serial No: N/A **Material No: 10222221**

Description : Crossover Sub



Connections

Connection 1
7.625" 33.70#
Buttress Box

Connection 2
7" 26#
Fox Box

Dimensions
By C Carmody

Date 3-9-08

A: 8.560"
B: 6.250"
C: 7.657"
D: N/A
E: 0.446m

Other Details

Size: 8.560"

Material: 80 KSI

Max OD: 8.560"

Min ID: 6.250"

Drift 6.151"

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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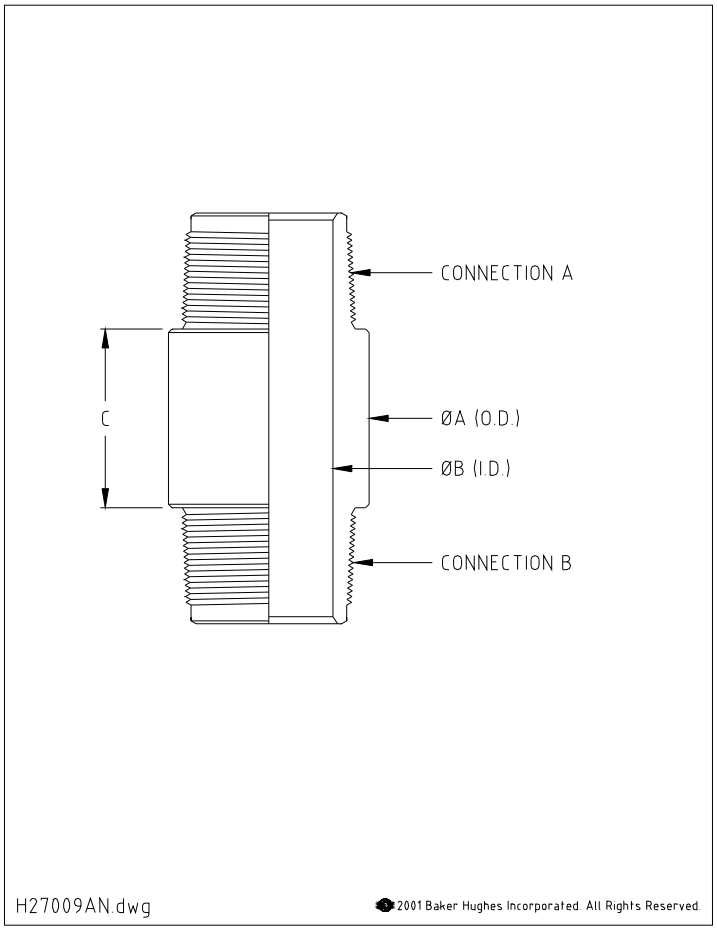
Component Inspection:

Serial No: N/A **Material No: 10222222**

Description : Crossover Sub



Connections

Connection 1
7.625” 33.70#
VAM FJL PIN

Connection 2
7.625” 33.70#
Buttress PIN

Dimensions
By C Carmody

Date 3-9-08

A: 8.230”
B: 6.700”
C: 0.194m

Other Details

Material: 80 KSI

Max OD: 8.230”

Min ID: 6.700”

Drift 6.151”

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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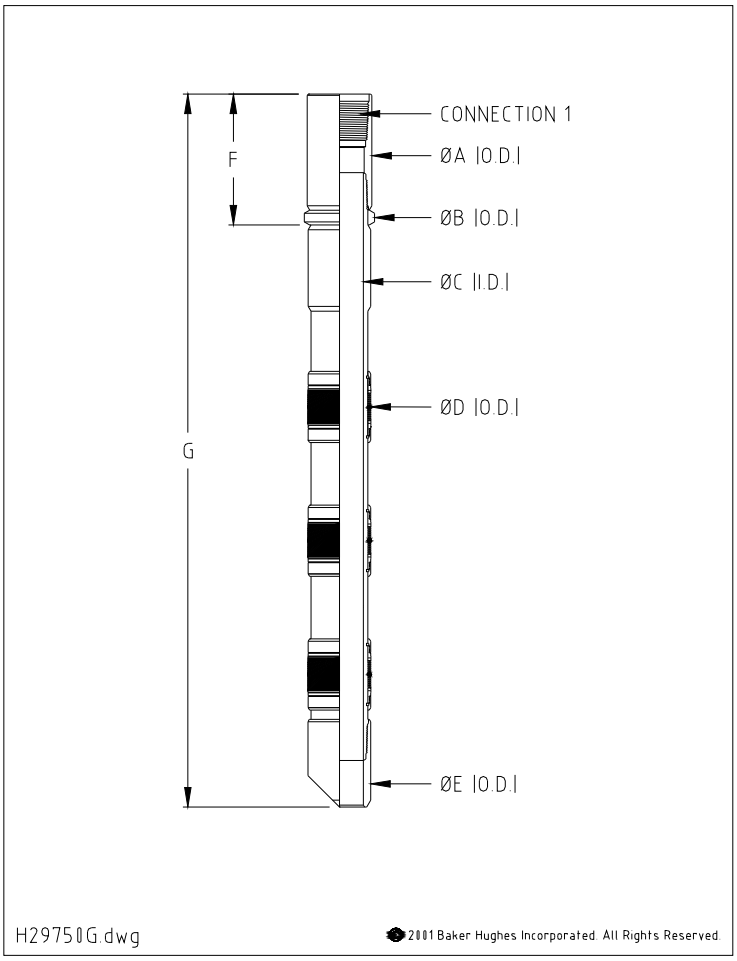
Component Inspection:

Serial No: N/A **Material No: 10118250**

Description : Tieback Seal Stem



Connections

Connection 1
7.625" 33.70#
VAM FJL Box

Dimensions
By C Carmody

Date 3-9-08

A: 7.500"
B: 8.350"
C: 6.683"
D: 7.727"
E: N/A
F: 0.66m
G: 1.765m

Other Details

Size: 7.727

Range of Function:

Material: L80

Max OD: 8.350"

Min ID: 6.683"

Drift: 6.151"

Final Workshop Inspection

Checked By : C Carmody
Checked By:
Approved by:

Date : 3-9-08

Final Field Inspection
Checked By :

Signed :

Date :

Comments

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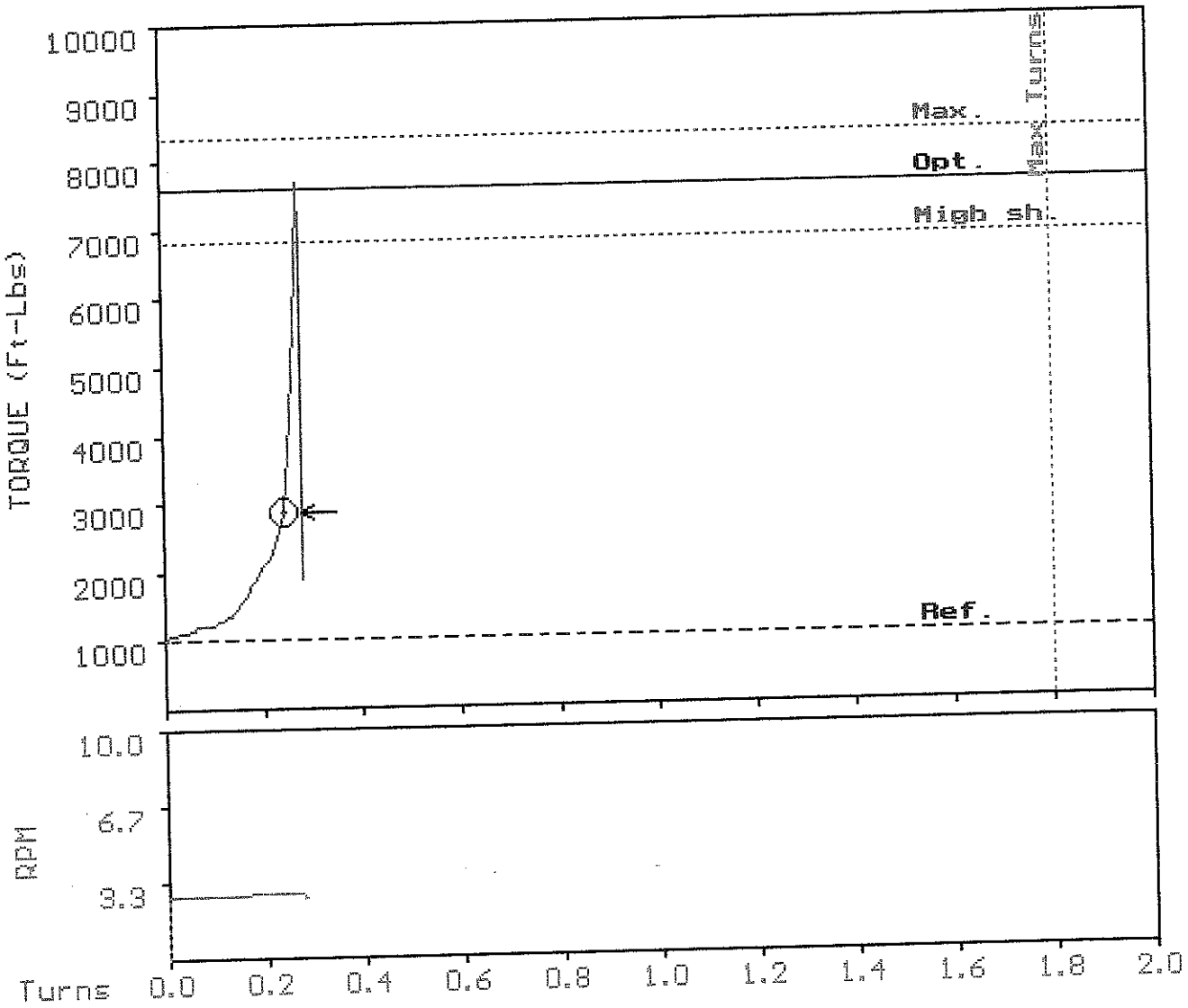
Appendix 6: Torque Charts for Contingency Tie-Back Seal Assembly



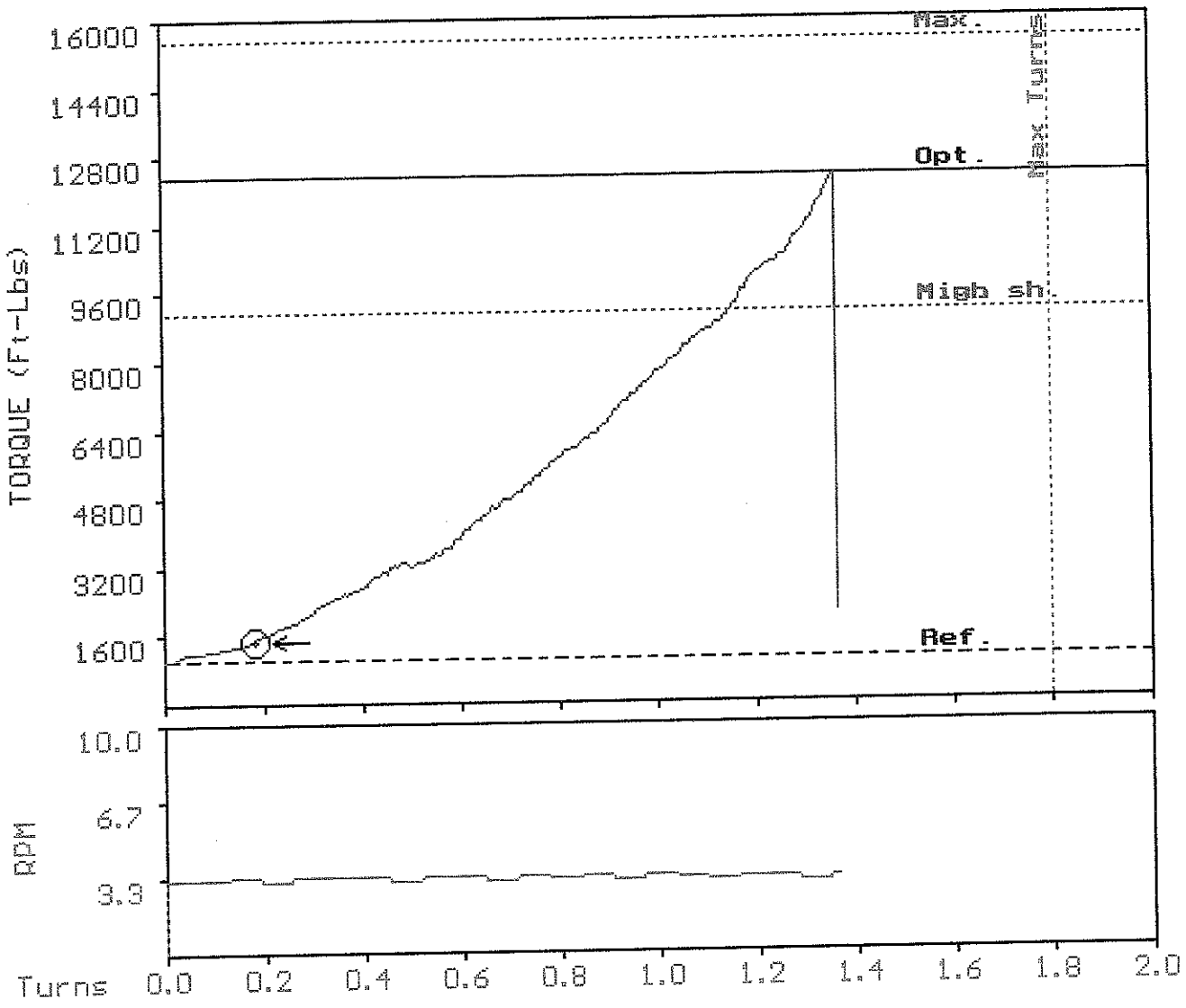
Joint # : V- 3.0 9/5/2008 9:42:30

* Torque Data *

Final Torque : 7697
Delta Torque : 4823
Shld. Torque : 2874
Comment : NEXUS S.ASSY-XOVER JT1 BG

* Turn Data *

Final Turns : 0.276
Delta Turns : 0.036
Max. R.P.M. : 2.842
Depth : 93.00



Joint # : V- 3.0 9/5/2008 9:40:23

* Torque Data *

Final Torque : 12340
Delta Torque : 10873
Shld. Torque : 1467
Comment : NEXUS XOVER-XOVER JT2 BG

* Turn Data *

Final Turns : 1.361
Delta Turns : 1.181
Max. R.P.M. : 3.335
Depth : 93.00

APPENDIX 2: DAILY DRILLING REPORTS

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 1

19 Jun 2008 **From:** S De Freitas/ R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	0.0m	Cur. Hole Size		AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	0.0m	Last Casing OD		AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT		Daily Cost	AUD$406,000
Rig	West Triton	Days from spud		Shoe MDBRT		Cum Cost	AUD$406,000
Wtr Dpth(MSL)	57.0m	Days on well	0.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD					
RT-ML	97.0m	Planned TD TVDRT					

Current Op @ 0600	Skidding rig out to enable removal of generator through hatch.
Planned Op	Complete skidding of rig, complete testing of BOP and manifolds, lay out excess items in derrick and prepare new 36in BHA for spudding well.

Summary of Period 0000 to 2400 Hrs

Departed Garfish-1 @ 09:00hrs and towed rig to Longtom-4. Arrived on location @ 11h30. Jacked rig up to preload height, pumped in ballast for preloading and held preload for 2hrs - OK. Commenced dumping preload ballast.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at 19.20 hours.	Rig alarms activated. OIM continued with full muster. On investigation no problem found.
First Aid Case		9 Days	First aid case.	Roustabout stepped back down after hooking up a bulker bag, placing his foot partially on a piece of wood dunage and rolled his ankle.
Incident		4 Days	Near miss - slip handles broke off	While making up a stand of drill pipe the tong slipped on the tool joint. At the same point the rotary which was supposed to be free wheeling locked and then released causing a jerking motion and causing the slip handles to break off.
PTW issued	4	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days		Weekly safety meeting held at 1300 on Saturday and 0045 on Sunday morning.
STOP Card	20	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 19 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P1	P	M1	0900	1130	2.50	0.0m	******START OF LONGTOM-4 at 09:00hrs on 19 June 2008****** Rig on tow to Longtom-4.
P1	P	M3	1130	1200	0.50	0.0m	******11:30hrs - On location at Longtom-4****** Jack rig up to preload gap.
P1	P	M3	1200	2130	9.50	0.0m	Ballasted rig for preloading. Offline: Callibrated draworks, slip and cut line, and measured conductors. Changed seal on test stump for BOP and pressure tested lower and upper I-BOP to 200/5000psi - OK. Kelly hose high pressure test failed. Mustered for false alarm.
P1	P	M3	2130	2330	2.00	0.0m	Held preload for 2 hrs - OK. Offline: Changed link-tilt pistons on TDS.
P1	P	M3	2330	2400	0.50	0.0m	Commenced dumping preload ballast.

Operations For Period 0000 Hrs to 0600 Hrs on 20 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P1	P	M3	0000	0130	1.50	0.0m	Jacked rig up to working height of 17m airgap.
P1	P	M2	0130	0230	1.00	0.0m	Prepared rig for skidding.
P1	P	M2	0230	0600	3.50	0.0m	Held JSA and skidded cantilever deck out to allow generator to be lifted out through hatch.

Operations For Period Hrs to Hrs on

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Printed on 19 Jun 2008

Australian Drilling Associates Pty Ltd ADA

Phase Data to 2400hrs, 19 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	15	19 Jun 2008	19 Jun 2008	15.00	0.625	0.0m

General Comments

00:00 TO 24:00 Hrs ON 19 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Link tilt rams bent, making handling of tubulars difficult and increasing time taken to carry out tasks. New rams now onboard - plan to change out on rig move. 3) Number 4 main generator down. Exciter sent ashore for rewind. 4) Problem with rotary table being locked when it should be in "free" mode. Resulted in a number of broken slip handles. 5) Excessive number of times Cyber chair freezes up.
Operational Comments	Held pre-spud meeting at 13h00.
Operational Comments	Provisional position: Lat 38deg 06' 17.6984" South, Long 148deg 19' 59.9197" East, Rig heading 24.39deg T. Position 5.8m at 324deg T from intended location.

WBM Data

Mud Type:	KCl/Polymer	API FL:	6.0cc/30min	Cl:	42000mg/l	Solids(%vol):	11%	Viscosity	60sec/qt
Sample-From:	Pit 6	Filter-Cake:	1/32nd"	K+C*1000:	8%	H2O:	86%	PV	16cp
Time:	20:00	HTHP-FL:	12.0cc/30min	Hard/Ca:	360mg/l	Oil(%):		YP	29lb/100ft²
Weight:	1.33sg	HTHP-cake:	2/32nd"	MBT:	7.5	Sand:	0.5	Gels 10s	13
Temp:	25C°			PM:	0.1	pH:	9.5	Gels 10m	22
				PF:	0.1	PHPA:	2ppb	Fann 003	11
								Fann 006	13
								Fann 100	25
								Fann 200	36
								Fann 300	45
								Fann 600	61

Comment

Cost Today

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	3	0	127.0
Rig Fuel	m3	0	10	0	188.0
POTABLE WATER	MT	0	20	0	170.0
Cement Class G	MT	0	0	0	90.0
Bentonite	MT	0	0	0	51.0
Barite	MT	0	0	0	89.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50		97			
2	National 14 P-220	6.50		97			
3	National 14 P-220	6.50		97			

Slow Pump Data

No.	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1		30		176	40		234	50		293
2		30		176	40		234	50		293
3		30		176	40		234	50		293

Personnel On Board

Company	Pax
ADA	4
Seadrill	11
Seadrill Services.	50
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Q Tech	1

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Personnel On Board

Cameron	1
Schlumberger MWD/LWD	2
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	0.0bbl	Losses	0.0bbl
Active		Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole		Dumped	
Slug		De-Gasser	
Reserve		De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments: Transfer 840bbl to Pacific Battler

Marine

Weather on 19 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	225.0deg	1012.0mbar	11C°	0.9m	110.0deg	3s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.4deg		2103.00klb	1.8m	110.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Rig

Item	Unit	Used	Quantity
Rig Fuel	m3		328.5
Potable Water	Mt		435
Drill Water	Mt		375
CEMENT G	Mt		32
Barite	Mt		108
Bentonite	Mt		24
MUD	m3		840
	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		14h40	En route to Geelong. ETA 08h00 20 June.

Item	Unit	Used	Quantity
Rig Fuel	m3		605.9
Potable Water	Mt		410
Drill Water	m3		729
CEMENT G	Mt		43
Barite	Mt		42.5
Bentonite	Mt		34.8

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1027 / 1041	11 / 6	

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Australian Drilling Associates Pty Ltd ADA

20 Jun 2008

From: S De Freitas/ R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 2
Longtom-4

Well Data

Country	Australia	MDBRT	0.0m	Cur. Hole Size	36.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	0.0m	Last Casing OD	30.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT		Daily Cost	AUD$615,700
Rig	West Triton	Days from spud	0.00	Shoe MDBRT		Cum Cost	AUD$8,843,500
Wtr Dpth(MSL)	57.0m	Days on well	1.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD	5919.0m	Current Op @ 0600	POOH with 36in drilling assy at 32m.		
RT-ML	97.0m	Planned TD TVDRT	2699.0m	Planned Op	Rig up and run 30in conductor and cement same.		

Summary of Period 0000 to 2400 Hrs

Dumped preload ballast. Jacked rig up to drilling air gap of 17m. Skidded rig out to allow generator to be removed through hatch in main deck. Skidded rig to drilling position and connected hoses. Managed tubulars in derrick and prepared for picking up 36in BHA. Made up Cameron 30in running tool to stand. Picked up 36in BHA and RIH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at 19.20 hours.	Rig alarms activated. OIM continued with full muster. On investigation no problem found.
First Aid Case		10 Days	First aid case.	Roustabout stepped back down after hooking up a bulker bag, placing his foot partially on a piece of wood dunage and rolled his ankle.
Incident	1	0 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into a hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days		Weekly safety meeting held at 1300 Saturday and 0045 on Sunday morning.
STOP Card	13	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 20 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P1	P	M3	0000	0130	1.50	0.0m	Jacked rig up to working height of 17m airgap.
P1	P	M2	0130	0230	1.00	0.0m	Prepared rig for skidding.
P1	P	M2	0230	0630	4.00	0.0m	Held JSA and skidded cantilever deck out to allow generator to be lifted out through hatch. Offline: Rigged up slings, lowered Texas deck and stairs and installed gumbo hose.
P1	TP (RE)	M2	0630	0730	1.00	0.0m	Continued skidding cantilever deck out to 52ft to allow for removal of generator.
P1	TP (RE)	M2	0730	0900	1.50	0.0m	Removed generator through hatch.
P1	TP (RE)	M2	0900	1000	1.00	0.0m	Skidded rig back into drilling position.
P1	P	G1	1000	1300	3.00	0.0m	Made rig secure, installed service lines and mud hoses.
P2	P	G4	1300	1530	2.50	0.0m	Picked up 3 x 8.25in DC from deck and RIH same. Picked up jar stand from derrick and RIH same. Picked up 1 x HWDP from deck and made up to string. Racked back 1 x HWDP stand in derrick. Changed out elevators to 5in. Laid out jar. Changed elevators to 5.5in. Picked up 3 x HWDP from deck and racked stand in derrick. Racked stand of 8.25in DCs in derrick.
P2	TP (RE)	G4	1530	1730	2.00	0.0m	Encountered problems with link tilt clamps slipping and rotating head not working properly during the activities listed directly above (13h00 to 15h30).
P2	TP (RE)	G11	1730	1800	0.50	0.0m	Conducted Cyber chair computer update patch.
P2	P	G1	1800	2000	2.00	0.0m	Made up Cameron 30in running tool to a stand of DP including x/overs, using tongs and racked back same.
P2	P	G6	2000	2400	4.00	0.0m	Picked up and made up 36in BHA and laid out 2 x 17.5in stabilizers.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description

Operations For Period 0000 Hrs to 0600 Hrs on 21 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P2	P	G6	0000	0100	1.00	0.0m	Continued making up 36in BHA and RIH same.
P2	P	E6	0100	0130	0.50	97.0m	Spaced out and tagged seabed at 97.03m. ROV unable to launch due to adverse weather. Took survey at seabed: 0.24deg.
P2	P	D2	0130	0400	2.50	132.8m	Spudded well at 01h20 and drilled 36in hole from 97m to 132.8m. Drilled first 10m using 300gpm, 3klbs, 50rpm then 1000gpm, 5klbs and 70 - 90 rpm. Pumped 3 x 75bbl flocculated gel sweeps during drilling. Maximum survey taken while drilling: 0.69 and 0.56 at TD (one survey of 3.1deg appears erroneous).
P2	P	F3	0400	0430	0.50	132.8m	Pumped 200bbl of flocculated gel sweep and then displaced hole with 280bbl inhibited mud from previous hole.
P2	P	G8	0430	0600	1.50	132.8m	(IN PROGRESS) POOH with 36in drilling assy from 132.8m to surface. Laid out 1 x 8.25in DC.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 20 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	11	20 Jun 2008	20 Jun 2008	39.00	1.625	0.0m

General Comments

00:00 TO 24:00 Hrs ON 20 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	***FINAL POSITION***: Lat 38deg 06' 17.701" South, Long 148deg 19' 59.9442" East, Rig heading 24.11deg T. Position 5.24m at 328.29deg T from intended location.
Operational Comments	Spud Can Penetrations: Port - 1.24m, Bow - 1.24m, Stbd - 1.14m
Operational Comments	Air gap: 17m, RT - Sea level: 39.9m, RT - Sea bed: 97.03, Water depth: 57.1m. Time of observation: 01h20 on 21 June 2008.

WBM Data

Mud Type:	KCl/Polymer	API FL:	6.0cc/30min	Cl:	42000mg/l	Solids(%vol):	11%	Viscosity	60sec/qt
Sample-From:	Pit 6	Filter-Cake:	1/32nd"	K+C*1000:	8%	H2O:	86%	PV	16cp
Time:	20:00	HTHP-FL:	12.0cc/30min	Hard/Ca:	360mg/l	Oil(%):		YP	29lb/100ft²
Weight:	1.33sg	HTHP-cake:	2/32nd"	MBT:	7.5	Sand:	0.5	Gels 10s	13
Temp:	25C°			PM:	0.1	pH:	9.5	Gels 10m	22
				PF:	0.1	PHPA:	2ppb	Fann 003	11
								Fann 006	13
								Fann 100	25
								Fann 200	36
								Fann 300	45
								Fann 600	61

Comment

Cost Today

Bit # 1RR

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	26.00in	IADC#	111	**Nozzles**		**Drilled over last 24 hrs**	**Calculated over Bit Run**
Mfr:	REED	WOB(avg)		No.	Size	Progress	Cum. Progress 0.0m
Type:	Rock	RPM(avg)				On Bottom Hrs	Cum. On Btm Hrs 0.0h
Serial No.:	34406	F.Rate				IADC Drill Hrs	Cum IADC Drill Hrs 0.0h
Bit Model	Y11C	SPP				Total Revs	Cum Total Revs 0
Depth In	97.0m	HSI				ROP(avg) N/A	ROP(avg) 0.00 m/hr
Depth Out		TFA	0.000				

Bit Comment: Used bit.

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BHA # 1

Weight(Wet)	32.00klb	Length	70.3m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)		String	100.00klb	Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description	26in bit, 36in H/O, bit sub, Power Pulse, 2x 9.5in DC's, X/O, 4x 8.25in DC's.
BHA Run Comment	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	453	194	0	386.0
Rig Fuel	m3	0	1	0	187.0
POTABLE WATER	MT	5	20	0	155.0
Cement Class G	MT	24	0	0	114.0
Bentonite	MT	22	12	0	61.0
Barite	MT	77	0	0	166.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50		97			
2	National 14 P-220	6.50		97			
3	National 14 P-220	6.50		97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	30		176	40		234	50		293

Personnel On Board

Company	Pax
ADA	4
Seadrill	11
Seadrill Services.	42
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Total	83

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**0.0bbl**
Active	
Mixing	
Hole	
Slug	
Reserve	
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments: Transfer 840bbl to Pacific Battler

Marine

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Printed on 22 Jun 2008

Weather on 20 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	28kn	235.0deg	1011.0mbar	9C°	1.9m	235.0deg	5s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2318.00klb	3.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Rig

Item	Unit	Used	Quantity
Rig Fuel	m3		316.9
Potable Water	Mt		300
Drill Water	Mt		50
CEMENT G	Mt		0
Barite	Mt		33
Bentonite	Mt		0
MUD	m3		0
	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		20h00	Departed Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		1591.9
Potable Water	Mt		440
Drill Water	m3		729
CEMENT G	Mt		43
Barite	Mt		42.5
Bentonite	Mt		34.8

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1024 / 1035	11 / 7	
BWJ2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1428 / 1440	1 / 12	Suitcase ROV

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Australian Drilling Associates Pty Ltd ADA

21 Jun 2008

From: S De Freitas/ R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 3
Longtom-4

Well Data

Country	Australia	MDBRT	132.8m	Cur. Hole Size	36.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	132.8m	Last Casing OD	30.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	35.0m	Shoe TVDBRT	128.8m	Daily Cost	AUD$867,500
Rig	West Triton	Days from spud	0.94	Shoe MDBRT	128.8m	Cum Cost	AUD$9,711,000
Wtr Dpth(MSL)	57.0m	Days on well	2.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD	5919.0m	Current Op @ 0600	Attempting to stab into 30in wellhead at seabed.		
RT-ML	97.0m	Planned TD TVDRT	2699.0m	Planned Op	Stab into 30in wellhead at seabed and drill 22in hole.		

Summary of Period 0000 to 2400 Hrs

RIH with 36in BHA, tagged seabed at 97.0m and drilled 36in hole from 97m to 132m. Pumped 200bbl sweep and the filled hole with 280bbl inhibited mud. POOH and ran 3 joints of 30in conductor casing with shoe at 128.8m and stick-up above seabed of 1.9m. Cemented 30in conductor casing, WOC and POOH with running string.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at 19.20 hours.	Rig alarms activated. OIM continued with full muster. On investigation no problem found.
First Aid Case	1	0 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		1 Day	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into a hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		7 Days		Weekly safety meeting held at 1300 Saturday and 0045 on Sunday morning.
STOP Card	23	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 21 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P2	P	G6	0000	0100	1.00	0.0m	Continued making up 36in BHA and RIH same.
P2	P	E6	0100	0130	0.50	97.0m	Spaced out and tagged seabed at 97.03m. ROV unable to launch due to adverse weather. Took survey at seabed: 0.24deg.
P2	P	D2	0130	0400	2.50	132.8m	Spudded well at 01h20 and drilled 36in hole from 97m to 132.8m. Drilled first 10m using 300gpm, 3klbs, 50rpm then 1000gpm, 5klbs and 70 - 90 rpm. Pumped 3 x 75bbl flocculated gel sweeps during drilling. Maximum survey taken while drilling: 0.69 and 0.56 at TD (one survey of 3.1deg appears erroneous).
P2	P	F3	0400	0430	0.50	132.8m	Pumped 200bbl of flocculated gel sweep and then displaced hole with 280bbl inhibited mud from previous hole.
P2	P	G8	0430	0630	2.00	132.8m	POOH with 36in drilling assy from 132.8m to surface. Laid out 1 x 8.25in DC.
P3	P	G1	0630	0800	1.50	132.8m	Changed out bails to long 350T and installed 30in conductor handling equipment.
P3	P	G9	0800	1000	2.00	132.8m	Held JSA, picked up 30in conductor shoe, intermediate and wellhead joints and RIH same.
P3	P	G1	1000	1100	1.00	132.8m	Changed out bails to short 350T drilling bails.
P3	P	G9	1100	1500	4.00	132.8m	Picked up 30in running tool, made up to wellhead joint, made up bulls eye and RIH 30in conductor. Filled conductor with sea water with running tool at sea level and closed valve. Continued to RIH and stabbed conductor into seabed without ROV observation and set shoe at 128.8m. Stick-up above seabed: 1.9m
P3	P	F3	1500	1700	2.00	132.8m	Rigged up cement lines, held JSA and pumped 10bbl seawater. Pressure tested lines to 1500psi, pumped further 90bbl seawater followed by168bbl class G slurry at 15.9ppg (200% excess) and displaced cement using 57bbl seawater.
P3	P	F7	1700	2200	5.00	132.8m	Waited on cement. Offline: Pressure tested choke manifold valves 5, 11, 12, 13 and 14. Prepared next BHA and rigged down cement lines.
P3	P	G9	2200	2400	2.00	132.8m	Removed Low-Torque valve and placed bull plug in the open connection. Slacked off

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							running string - good indications of conductor being well supported. Unscrewed running tool with 5.5 turns and POOH running string to 9.6m, commencing break out of running tool.

Operations For Period 0000 Hrs to 0600 Hrs on 22 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G1	0000	0100	1.00	132.8m	Continued to break out 30in running tool and laid down same. Made up 18.75in wellhead running tool into string and racked back in derrick.
P3	P	G6	0100	0200	1.00	132.8m	Laid out 26in bit and 36in hole opener.
P4	P	G9	0200	0500	3.00	132.8m	Made up 22in BHA including picking up of 1 x 9.5in DC and laying down 1 x 8.25in DC.
P4	TP (WOW)	G8	0500	0600	1.00	132.8m	(IN PROGRESS) Made up TDS, performed shallow MWD test and attempted to stab into 30in wellhead at seabed, moving pipe to various positions. ROV was unable to be deployed due to adverse weather.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 21 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	17.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	17.5	21 Jun 2008	21 Jun 2008	63.00	2.625	132.8m

General Comments

00:00 TO 24:00 Hrs ON 21 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	***FINAL POSITION***: Lat 38deg 06' 17.701" South, Long 148deg 19' 59.9442" East, Rig heading 24.11deg T. Position 5.24m at 328.29deg T from intended location.
Operational Comments	Spud Can Penetrations: Port - 1.24m, Bow - 1.24m, Stbd - 1.14m
Operational Comments	Air gap: 17m, RT - Sea level: 39.9m, RT - Sea bed: 97.03, Water depth: 57.1m. Time of observation: 01h20 on 21 June 2008.
Operational Comments	BOP fully tested, only one test remaining on the choke manifold, standpipe manifold not yet tested.
Operational Comments	Link tilt clamps slipping on bails. Unable to resolve satisfactorily.

WBM Data

Mud Type:	KCl/Polymer	API FL:	6.0cc/30min	Cl:	42000mg/l	Solids(%vol):	11%
Sample-From:	Pit 6	Filter-Cake:	1/32nd"	K+C*1000:	8%	H2O:	86%
Time:	20:00	HTHP-FL:	12.0cc/30min	Hard/Ca:	360mg/l	Oil(%):	
Weight:	1.33sg	HTHP-cake:	2/32nd"	MBT:	7.5	Sand:	0.5
Temp:	25C°			PM:	0.1	pH:	9.5
				PF:	0.1	PHPA:	2ppb

Comment

Cost Today

Viscosity	60sec/qt
PV	16cp
YP	29lb/100ft²
Gels 10s	13
Gels 10m	22
Fann 003	11
Fann 006	13
Fann 100	25
Fann 200	36
Fann 300	45
Fann 600	61

Bit # 1RR

Wear	I	O1	D	L	B	G	O2	R
	1	1	WT	A	0	I	NO	TD

Bitwear Comments:

Size ("):	26.00in	IADC#	111	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	5000.00klb	No.	Size	Progress	35.0m	Cum. Progress	35.0m
Type:	Rock	RPM(avg)	90			On Bottom Hrs	2.6h	Cum. On Btm Hrs	2.6h
Serial No.:	34406	F.Rate	1000gpm			IADC Drill Hrs	2.5h	Cum IADC Drill Hrs	2.5h
Bit Model	Y11C	SPP	800psi			Total Revs		Cum Total Revs	0
Depth In	97.0m	HSI				ROP(avg)	13.46 m/hr	ROP(avg)	13.46 m/hr
Depth Out	132.0m	TFA	0.000						

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Bit Comment	Used bit.

BHA # 1

Weight(Wet)	32.00klb	Length	70.3m	Torque(max)	8000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)		String	100.00klb	Torque(Off.Btm)	500ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)	2000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description	26in bit, 36in H/O, bit sub, Power Pulse, 2x 9.5in DC's, X/O, 4x 8.25in DC's.
BHA Run Comment	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	76	0	310.0
Rig Fuel	m3	0	8	0	179.0
POTABLE WATER	MT	12	24	0	143.0
Cement Class G	MT	0	30	0	84.0
Bentonite	MT	0	9	0	52.0
Barite	MT	0	0	0	166.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.00	97	86	800	500
2	National 14 P-220	6.50	1.00	97	86	800	500
3	National 14 P-220	6.50		97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

Personnel On Board

Company	Pax
ADA	4
Seadrill	11
Seadrill Services.	42
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Total	83

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**0.0bbl**
Active	
Mixing	
Hole	
Slug	
Reserve	
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size

Comments

Transfer 840bbl to Pacific Battler

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Printed on 22 Jun 2008

Marine

Weather on 21 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	35kn	225.0deg	1020.0mbar	11C°	1.9m	225.0deg	5s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2235.00klb	3.1m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			Enroute to Geelong	

Item	Unit	Used	Quantity
Rig Fuel	m3		305.8
Potable Water	Mt		295
Drill Water	Mt		50
CEMENT G	Mt		0
Barite	Mt		33
Bentonite	Mt		0
MUD	m3		0
	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie	18h35		At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		572.3
Potable Water	Mt		435
Drill Water	m3		729
CEMENT G	Mt		43
Barite	Mt		42.5
Bentonite	Mt		34.8

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Australian Drilling Associates Pty Ltd ADA

22 Jun 2008

From: S De Freitas/ R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 4
Longtom-4

Well Data

Country	Australia	MDBRT	374.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	374.0m	Last Casing OD	30.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	241.2m	Shoe TVDBRT	128.8m	Daily Cost	AUD$637,300
Rig	West Triton	Days from spud	1.94	Shoe MDBRT	128.8m	Cum Cost	AUD$10,348,300
Wtr Dpth(MSL)	57.0m	Days on well	3.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD	5919.0m	Current Op @ 0600	Drilling ahead 22in hole at 465m		
RT-ML	97.0m	Planned TD TVDRT	2699.0m	Planned Op	Drill ahead 22in hole to final TD of approx. 755m, displace hole to mud and POOH for 16in casing.		

Summary of Period 0000 to 2400 Hrs

Broke out 30in running tool from landing string, installed 18.75in running tool and racked back same. Picked up 22in BHA and RIH to 30in wellhead at seabed. Attempted unsuccessfully to stab into wellhead blind - unable to launch ROV. Finally launched suitcase ROV but could not hold station. Launched Tamboritha ROV - experienced soft start failure on hyd. Launched suitcase ROV again and managed to stab into wellhead using ROV visuals. Drilled cement and shoe. Drilled 22in hole from 132m to 374m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at 19.20 hours.	Rig alarms activated. OIM continued with full muster. On investigation no problem found.
First Aid Case		1 Day	First aid case.	Night chef received small laceration when opening box in galley.
Incident		2 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into a hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	4	0 Days		Permit to work issued for the day.
Safety Meeting	1	0 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	14	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G1	0000	0100	1.00	132.8m	Continued to break out 30in running tool and laid down same. Made up 18.75in wellhead running tool into string and racked back in derrick.
P3	P	G6	0100	0200	1.00	132.8m	Laid out 26in bit and 36in hole opener.
P4	P	G9	0200	0500	3.00	132.8m	Made up 22in BHA including picking up of 1 x 9.5in DC and laying down 1 x 8.25in DC.
P4	TP (WOW)	G8	0500	0930	4.50	132.8m	Made up TDS, performed shallow MWD test and attempted to stab into 30in wellhead at seabed, moving pipe to various positions. ROV was unable to be deployed due to adverse weather.
P4	TP (WOW)	G8	0930	1030	1.00	132.8m	Launched small ROV to observe stabbing of bit into 30in wellhead. Unable to assist due to adverse weather. Retrieved same.
P4	TP (WOW)	G8	1030	1100	0.50	132.8m	Launched big ROV - failure of soft start on hydraulic system. Retrieved same.
P4	TP (WOW)	G8	1100	1330	2.50	132.8m	Launched small ROV and adapted the feed method of the umbilical to reduce the environmental effects. Stabbed into wellhead using visuals from small ROV.
P4	P	G8	1330	1400	0.50	132.8m	Continued to RIH with 22in BHA and tagged cement at 124.9m.
P4	P	D1	1400	1530	1.50	132.8m	Drilled cement from 124.9m to shoe at 128m and drilled rathole to 132.8m.
P4	P	D2	1530	2400	8.50	374.0m	Control drilled 22in hole from 132.8m to 374m at max of 60m/hr using seawater and 3 x 50bbl PHG sweeps during every stand. WOB 10k, RPM 140, TQ 2-5k ft-lbs, 1160 gpm, 2200psi. No excess drag on connections. Took MWD survey every 90 m - all less than 1 degree.

Operations For Period 0000 Hrs to 0600 Hrs on 23 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	0600	6.00	374.0m	Control drilled 22in hole from 374m to 465m using seawater and 3 x 50bbl PHG sweeps during every stand. Formation firming up. Increased WOB 10 - 20k, RPM 160, TQ 2-5k

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							ft-lbs, 1160 gpm, 2250psi, 15 m/hr. No excess drag on connections. Took MWD survey every 90 m - all less than 1 degree.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 22 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	17.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	22	22 Jun 2008	22 Jun 2008	87.00	3.625	374.0m

General Comments

00:00 TO 24:00 Hrs ON 22 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	***FINAL POSITION***: Lat 38deg 06' 17.701" South, Long 148deg 19' 59.9442" East, Rig heading 24.11deg T. Position 5.24m at 328.29deg T from intended location.
Operational Comments	Spud Can Penetrations: Port - 1.24m, Bow - 1.24m, Stbd - 1.14m
Operational Comments	Air gap: 17m, RT - Sea level: 39.9m, RT - Sea bed: 97.03, Water depth: 57.1m. Time of observation: 01h20 on 21 June 2008.
Operational Comments	Link tilt clamps slipping on bails. Unable to resolve satisfactorily.

WBM Data

Mud Type:	PHB	API FL:	Cl:	Solids(%vol):		Viscosity	180sec/qt
Sample-From:	Pit 5	Filter-Cake:	K+C*1000:	H2O:	99%	PV	25cp
Time:	20:00	HTHP-FL:	Hard/Ca:	Oil(%):		YP	70lb/100ft²
Weight:	1.00sg	HTHP-cake:	MBT:	Sand:		Gels 10s	60
Temp:	25C°		PM:	pH:	9.5	Gels 10m	65
			PF:	PHPA:		Fann 003	55
						Fann 006	60
						Fann 100	75
						Fann 200	85
						Fann 300	95
						Fann 600	120

Comment

Cost Today

Bit # 2RR

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	23.00in	IADC#	115	No.	Size	Progress	241.2m	Cum. Progress	241.2m
Mfr:	SMITH	WOB(avg)	9.00klb	1	15/32nd"	On Bottom Hrs	5.9h	Cum. On Btm Hrs	5.9h
Type:	Rock	RPM(avg)	140	3	22/32nd"	IADC Drill Hrs	8.5h	Cum IADC Drill Hrs	8.5h
Serial No.:	MZ3173	F.Rate	1200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+C	SPP	2300psi			ROP(avg)	40.88 m/hr	ROP(avg)	40.88 m/hr
Depth In	132.8m	HSI							
Depth Out		TFA	1.286						

Bit Comment

BHA # 2

Weight(Wet)	47.00klb	Length	213.4m	Torque(max)	6000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	30.00klb	String	125.00klb	Torque(Off.Btm)	800ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	127.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	120.00klb			D.P. Ann Velocity	0fpm

BHA Run Description: 22" bit, Float, Power Pulse, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, X/O, 1x 8.25" DC, Jar, 1x 8.25" DC, X/O, 15x HWDP.

BHA Run Comment

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Equipment	Length	OD	ID	Serial #	Comment
Bit	0.58m	22.00in		MZ3173	
Float Sub	1.23m	9.50in			
Power Pulse	8.84m	9.63in			
Drill Collar	9.44m	9.63in			
Stabiliser	2.21m	22.00in			
Drill Collar	9.18m	9.63in			
Stabiliser	2.11m	22.00in			
Drill Collar	9.41m	9.63in			
X/O	0.47m	9.50in			
Drill Collar	9.44m	8.38in			
Jar	9.60m	8.00in			
Drill Collar	9.41m	8.38in			
X/O	0.50m	8.25in			
HWDP	140.96m	5.50in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
132.80	0.2		132.80	0.2	0.2	0.0	0.2	
147.40	0.4		147.40	0.3	0.3	0.0	1.4	
204.70	0.5		204.70	0.8	0.8	0.0	0.2	
324.10	0.8		324.09	2.1	2.1	0.0	0.3	
382.90	0.2		382.89	2.6	2.6	0.0	1.0	
412.80	0.3		412.79	2.8	2.8	0.0	0.3	
442.90	0.2		442.89	2.9	2.9	0.0	0.3	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	310.0
Rig Fuel	m3	0	0	0	179.0
POTABLE WATER	MT	0	0	0	143.0
Cement Class G	MT	0	0	0	84.0
Bentonite	MT	0	0	0	52.0
Barite	MT	0	0	0	166.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.00	97	100	2300	600
2	National 14 P-220	6.50	1.00	97	100	2300	600
3	National 14 P-220	6.50		97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

Personnel On Board

Company	Pax
ADA	5
Seadrill	11
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2

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Personnel On Board

Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5
Total	91

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugine Edwards/James Munford

Available	**1784.0bbl**	**Losses**	**0.0bbl**
Active		Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole		Dumped	
Slug		De-Gasser	
Reserve	1384.0bbl	De-Sander	
Kill		De-Silter	
Guar Gum	400.0bbl	Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments

Marine

Weather on 22 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	270.0deg	1023.0mbar	12C°	2.0m	270.0deg	7s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2399.00klb	3.7m	270.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		283.5
Potable Water	Mt		290
Drill Water	Mt		0
CEMENT G	Mt		0
Barite	Mt		33
Bentonite	Mt		0
MUD	m3		0
	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	18h35		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		559.9
Potable Water	Mt		234
Drill Water	m3		729
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1223 / 1230	8 / 0	

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Printed on 22 Jun 2008

Australian Drilling Associates Pty Ltd ADA

22 Jun 2008

From: S De Freitas/ R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 4
Longtom-4

Well Data

Country	Australia	MDBRT	374.0m	Cur. Hole Size	22.000in	AFE Cost	US$ 0
Field	Longtom	TVDBRT	374.0m	Last Casing OD	30.000in	AFE No.	
Drill Co.	Seadrill	Progress	241.2m	Shoe TVDBRT	128.8m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	1.94	Shoe MDBRT	128.8m	Cum Cost	US$2,356,000
Wtr Dpth(MSL)	57.0m	Days on well	3.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD		Current Op @ 0600	Drilling ahead 22in hole at 465m		
RT-ML	97.0m	Planned TD TVDRT		Planned Op	Drill ahead 22in hole to final TD of approx. 755m, displace hole to mud and POOH for 16in casing.		

Summary of Period 0000 to 2400 Hrs

Broke out 30in running tool from landing string and installed 18.75in running tool and racked back same. Picked up 22in BHA and RIH to 30in wellhead at seabed. Attempted unsuccessfully to stab into wellhead blind - unable to launch ROV. Finally launched suitcase ROV but could not hold station. Launched Tamboritha ROV - experienced soft start failure on hyd. Launched suitcase ROV again and managed to stab into wellhead using ROV visuals. Drilled cement and shoe. Drilled 22in hole from 132m to 374m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		1 Day	First aid case.	Night chef received small laceration when opening box in galley.
Incident		2 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	4	0 Days		Permit to work issued for the day.
Safety Meeting	1	0 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	14	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G1	0000	0100	1.00	132.8m	Continued break out of 30in running tool and laid down same. Made up 18.75in wellhead running tool into string and racked back in derrick.
P2	P	G6	0100	0200	1.00	132.8m	Laid out 26in bit and 36in hole opener.
P4	P	G9	0200	0500	3.00	132.8m	Made up 22in BHA including picking up of 1 x 9.5in DC and laying down 1 x 8.25in DC.
P4	TP (WOW)	G8	0500	0930	4.50	132.8m	Made up TDS, performed shallow MWD test and attempted to stab into 30in wellhead at seabed, moving pipe to various positions. ROV unable to be deployed due to adverse weather.
P4	TP (WOW)	G8	0930	1030	1.00	132.8m	Launched small ROV to observe stabbing of bit into 30in wellhead. Unable to assist due to adverse weather. Retrieved same.
P4	TP (WOW)	G8	1030	1100	0.50	132.8m	Launched big ROV - failure of soft start on hydraulic system. Retrieved same.
P4	TP (WOW)	G8	1100	1330	2.50	132.8m	Launched small ROV and adapted the feed method of the umbilical to reduce the environmental effects. Stabbed into wellhead using visuals from small ROV.
P4	P	G8	1330	1400	0.50	132.8m	Continued RIH with 22in BHA and tagged cement at 124.9m.
P4	P	D1	1400	1530	1.50	132.8m	Drilled cement from 124.9m to shoe at 128m and rathole to 132.8m.
P4	P	D2	1530	2400	8.50	374.0m	Control drilled 22in hole from 132.8m to 374m at 60m/hr max using seawater and 3 x 50bbl PHG sweeps during every stand. WOB 10k, RPM 140, TQ 2-5k ft-lbs, 1160 gpm, 2200psi. No excess drag on connections. Take MWD survey every 90 m - all less than 1 degree.

Operations For Period 0000 Hrs to 0600 Hrs on 23 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	0600	6.00	374.0m	Control drilled 22in hole from 374m to 465m using seawater and 3 x 50bbl PHG sweeps

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							during every stand. Formation firming up. Increase WOB 10 -20k, RPM 160, TQ 2-5k ft-lbs, 1160 gpm, 2250psi, 15 m/hr. No excess drag on connections. Take MWD survey every 90 m - all less than 1 degree.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 22 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	22	22 Jun 2008	22 Jun 2008	87.00	3.625	374.0m

General Comments

00:00 TO 24:00 Hrs ON 22 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	***FINAL POSITION***: Lat 38deg 06' 17.701" South, Long 148deg 19' 59.9442" East, Rig heading 24.11deg T. Position 5.24m at 328.29deg T from intended location.
Operational Comments	Spud Can Penetrations: Port - 1.24m, Bow - 1.24m, Stbd - 1.14m
Operational Comments	Air gap: 17m, RT - Sea level: 39.9m, RT - Sea bed: 97.03, Water depth: 57.1m. Time of observation: 01h20 on 21 June 2008.
Operational Comments	Link tilt clamps slipping on bails. Unable to resolve satisfactorily.

WBM Data

Mud Type:	PHB	API FL:	Cl:	Solids(%vol):		Viscosity	180sec/qt
Sample-From:	Pit 5	Filter-Cake:	K+C*1000:	H2O:	99%	PV	25cp
Time:	20:00	HTHP-FL:	Hard/Ca:	Oil(%):		YP	70lb/100ft²
Weight:	1.00sg	HTHP-cake:	MBT:	Sand:		Gels 10s	60
Temp:	25C°		PM:	pH:	9.5	Gels 10m	65
			PF:	PHPA:		Fann 003	55
						Fann 006	60
						Fann 100	75
						Fann 200	85
						Fann 300	95
						Fann 600	120

Comment

Cost Today

Bit # 2RR

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	23.00in	IADC#	115	No.	Size	Progress	241.2m	Cum. Progress	241.2m
Mfr:	SMITH	WOB(avg)	9.00klb	1	15/32nd"	On Bottom Hrs	5.9h	Cum. On Btm Hrs	5.9h
Type:	Rock	RPM(avg)	140	3	22/32nd"	IADC Drill Hrs	8.5h	Cum IADC Drill Hrs	8.5h
Serial No.:	MZ3173	F.Rate	1200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+C	SPP	2300psi			ROP(avg)	40.88 m/hr	ROP(avg)	40.88 m/hr
Depth In	132.8m	HSI							
Depth Out		TFA	1.286						

Bit Comment

BHA # 2

Weight(Wet)	47.00klb	Length	213.4m	Torque(max)	6000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	30.00klb	String	125.00klb	Torque(Off.Btm)	800ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	127.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	120.00klb			D.P. Ann Velocity	0fpm

BHA Run Description: 22" bit, Float, Power Pulse, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, X/O, 1x 8.25" DC, Jar, 1x 8.25" DC, X/O, 15x HWDP.

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BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.58m	22.00in		MZ3173	
Float Sub	1.23m	9.50in			
Power Pulse	8.84m	9.63in			
Drill Collar	9.44m	9.63in			
Stabiliser	2.21m	22.00in			
Drill Collar	9.18m	9.63in			
Stabiliser	2.11m	22.00in			
Drill Collar	9.41m	9.63in			
X/O	0.47m	9.50in			
Drill Collar	9.44m	8.38in			
Jar	9.60m	8.00in			
Drill Collar	9.41m	8.38in			
X/O	0.50m	8.25in			
HWDP	140.96m	5.50in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
132.80	0.2		132.80	0.2	0.2	0.0	0.2	
147.40	0.4		147.40	0.3	0.3	0.0	1.4	
204.70	0.5		204.70	0.8	0.8	0.0	0.2	
324.10	0.8		324.09	2.1	2.1	0.0	0.3	
382.90	0.2		382.89	2.6	2.6	0.0	1.0	
412.80	0.3		412.79	2.8	2.8	0.0	0.3	
442.90	0.2		442.89	2.9	2.9	0.0	0.3	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	310.0
Rig Fuel	m3	0	0	0	179.0
POTABLE WATER	MT	0	0	0	143.0
Cement Class G	MT	0	0	0	84.0
Bentonite	MT	0	0	0	52.0
Barite	MT	0	0	0	166.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.00	97	100	2300	600		30		176	40		234	50		293
2	National 14 P-220	6.50	1.00	97	100	2300	600		30		176	40		234	50		293
3	National 14 P-220	6.50		97					30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

Personnel On Board

Company	Pax
ADA	5
Seadrill	11
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	2

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Personnel On Board

Halliburton	2
Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5
Total	91

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugine Edwards/James Munford

Available	**1784.0bbl**	**Losses**	**0.0bbl**
Active		Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole		Dumped	
Slug		De-Gasser	
Reserve	1384.0bbl	De-Sander	
Kill		De-Silter	
Guar Gum	400.0bbl	Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments

Marine

Weather on 22 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	270.0deg	1023.0mbar	12C°	2.0m	270.0deg	7s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2399.00klb	3.7m	270.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		283.5
Potable Water	Mt		290
Drill Water	Mt		0
CEMENT G	Mt		0
Barite	Mt		33
Bentonite	Mt		0
MUD	m3		0
	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	18h35		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		559.9
Potable Water	Mt		234
Drill Water	m3		729
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1223 / 1230	8 / 0	

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DRILLING MORNING REPORT # 5

23 Jun 2008 **From:** S De Freitas/ R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	749.0m	Cur. Hole Size	22.000in	AFE Cost	US$ 0
Field	Longtom	TVDBRT	749.0m	Last Casing OD	30.000in	AFE No.	
Drill Co.	Seadrill	Progress	375.0m	Shoe TVDBRT	128.8m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	2.94	Shoe MDBRT	128.8m	Cum Cost	US$3,006,000
Wtr Dpth(MSL)	57.0m	Days on well	4.63	FIT/LOT:	/		
RT-ASL(MSL)	40.0m	Planned TD MD		Current Op @ 0600	POOH with 22in bit at 128m.		
RT-ML	97.0m	Planned TD TVDRT		Planned Op	Complete POOH, rig up and run 16in casing and cement same.		

Summary of Period 0000 to 2400 Hrs

Drilled ahead 22in hole from 374m to 749m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		2 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		3 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 23 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	2400	24.00	749.0m	Drilled 22in hole from 374m to 749m using seawater and 3 x 50bbl PHG sweeps during every stand. Formation firming up. Increase WOB 10 -20k and then 25k, RPM 140 - 160, TQ 2-5k ft-lbs, 1200 gpm, 2400psi, 15 m/hr varying parameters to reduce surface vibrations. No excess drag on connections. Take MWD survey every 90 m - all less than 1 degree.

Operations For Period 0000 Hrs to 0600 Hrs on 24 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	0030	0.50	755.0m	Drilled 22in hole from 749m to 755m - TD of section.
P4	P	F3	0030	0100	0.50	755.0m	Swept hole with 150bbl bentonite mud and then displaced hole with 395bbl bentonite mud followed by 723bbl inhibited mud from previous well.
P4	TP (WB)	G8	0100	0300	2.00	755.0m	Commenced POOH with 22in drilling assy. Encountered 30k O/pull at 741m. Worked pipe first without rotation, then connected TDS and backreamed slowly using inhibited mud at 60gpm pump volume. Worked through tight spot from 741m to 726m. POOH to 668m - taking 30k O/pull. Connected TDS and worked through tight spot at 668m.
P4	P	D2	0300	0400	1.00	755.0m	Continued POOH from 668m to 391m.
P4	TP (RE)	G8	0400	0500	1.00	755.0m	Repaired hydraulic hose on TDS link tilt.
P4	P	G8	0500	0600	1.00	755.0m	Coninued POOH with 22in bit from 391m to 128m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 23 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m

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Phase Data to 2400hrs, 23 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	46	22 Jun 2008	23 Jun 2008	111.00	4.625	749.0m

General Comments

00:00 TO 24:00 Hrs ON 23 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	***FINAL POSITION***: Lat 38deg 06' 17.701" South, Long 148deg 19' 59.9442" East, Rig heading 24.11deg T. Position 5.24m at 328.29deg T from intended location.
Operational Comments	Spud Can Penetrations: Port - 1.24m, Bow - 1.24m, Stbd - 1.14m
Operational Comments	Air gap: 17m, RT - Sea level: 39.9m, RT - Sea bed: 97.03, Water depth: 57.1m. Time of observation: 01h20 on 21 June 2008.
Operational Comments	Link tilt clamps slipping on bails. Unable to resolve satisfactorily.

WBM Data

Mud Type:	PHB	API FL:		Cl:		Solids(%vol):	
Sample-From:	Pit 8	Filter-Cake:		K+C*1000:		H2O:	99%
Time:	20:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	1.15sg	HTHP-cake:		MBT:		Sand:	
Temp:	25C°			PM:		pH:	9.5
				PF:		PHPA:	

Comment

Cost Today

Viscosity	155sec/qt
PV	20cp
YP	70lb/100ft²
Gels 10s	55
Gels 10m	60
Fann 003	52
Fann 006	55
Fann 100	75
Fann 200	85
Fann 300	90
Fann 600	110

Bit # 2RR

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	23.00in	IADC#	115	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	SMITH	WOB(avg)	20.00klb	No.	Size	Progress	375.0m	Cum. Progress	616.2m
Type:	Rock	RPM(avg)	140	1	15/32nd"	On Bottom Hrs	20.7h	Cum. On Btm Hrs	26.6h
Serial No.:	MZ3173	F.Rate	1200gpm	3	22/32nd"	IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	32.5h
Bit Model	XR+C	SPP	2300psi			Total Revs		Cum Total Revs	0
Depth In	132.8m	HSI				ROP(avg)	18.12 m/hr	ROP(avg)	23.17 m/hr
Depth Out		TFA	1.286						

Bit Comment

BHA # 2

Weight(Wet)	47.00klb	Length	213.4m	Torque(max)	7000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	30.00klb	String	148.00klb	Torque(Off.Btm)	1000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	149.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	148.00klb			D.P. Ann Velocity	0fpm

BHA Run Description: 22" bit, Float, Power Pulse, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, X/O, 1x 8.25" DC, Jar, 1x 8.25" DC, X/O, 15x HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.58m	22.00in		MZ3173	
Float Sub	1.23m	9.50in			
Power Pulse	8.84m	9.63in			
Drill Collar	9.44m	9.63in			
Stabiliser	2.21m	22.00in			

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Equipment	Length	OD	ID	Serial #	Comment
Drill Collar	9.18m	9.63in			
Stabiliser	2.11m	22.00in			
Drill Collar	9.41m	9.63in			
X/O	0.47m	9.50in			
Drill Collar	9.44m	8.38in			
Jar	9.60m	8.00in			
Drill Collar	9.41m	8.38in			
X/O	0.50m	8.25in			
HWDP	140.96m	5.50in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
531.80	0.9		531.78	3.7	3.7	0.0	0.8	
651.70	0.4		651.67	5.1	5.1	0.0	0.4	
750.40	0.7		750.37	6.0	6.0	0.0	0.3	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	188	0	109.0
Rig Fuel	m3	0	10	0	155.0
POTABLE WATER	MT	220	27	0	320.0
Cement Class G	MT	40	0	0	124.0
Bentonite	MT	0	7	0	45.0
Barite	MT	0	0	0	166.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.00	97	100	2400	600
2	National 14 P-220	6.50	1.00	97	100	2400	600
3	National 14 P-220	6.50		97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

Personnel On Board

Company	Pax
ADA	5
Seadrill	11
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5
Total	91

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	1726.0bbl
Active Mixing	
Hole Slug	
Reserve	863.0bbl
Kill KCL/Polymer	863.0bbl

Losses	2200.0bbl
Downhole	
Surf+ Equip	2200.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments

Marine

Weather on 23 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	23kn	245.0deg	1023.0mbar	12C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2401.00klb	2.4m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		276.8
Potable Water	Mt		435
Drill Water	Mt		460
CEMENT G	Mt		40
Barite	Mt		33
Bentonite	Mt		0
	bbl		1500
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	18h35		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		548.5
Potable Water	Mt		229
Drill Water	m3		729
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 6

24 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	749.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	749.0m	Last Casing OD	30.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	6.0m	Shoe TVDBRT	128.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	3.94	Shoe MDBRT	128.8m	Cum Cost	AUD$3,661,800
Wtr Dpth(MSL)	57.3m	Days on well	5.63	FIT/LOT:	/		
RT-ASL(MSL)	39.9m	Planned TD MD	5919.0m	Current Op @ 0600	Running 16" casing. Depth at 06.00 400 meters.		
RT-ML	97.2m	Planned TD TVDRT	2699.0m	Planned Op	Run inner string. Land out well head in conductor and cement casing. POOH with inner string. Run HP riser.		

Summary of Period 0000 to 2400 Hrs

POOH. Rigged up and ran casing to 95.10m. Jet well head area to observe stab in of casing. Freed ROV from Port leg & stabbed into wellhead. Continued to run casing to 145m. Repair bail retaining plates on top drive.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		3 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		4 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	15	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 24 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	0030	0.50	755.0m	Drilled 22in hole from 749m to 755m - TD of section.
P4	P	F3	0030	0100	0.50	755.0m	Swept hole with 150bbl bentonite mud and then displaced hole with 395bbl bentonite mud followed by 723bbl inhibited mud from previous well.
P4	TP (WB)	G8	0100	0300	2.00	755.0m	Commenced POOH with 22in drilling assy. Encountered 30k O/pull at 741m. Worked pipe first without rotation, then connected TDS and backreamed slowly using inhibited mud at 60gpm pump volume. Worked through tight spot from 741m to 726m. POOH to 668m - taking 30k O/pull. Connected TDS and worked through tight spot at 668m.
P4	P	G8	0300	0400	1.00	755.0m	Continued to POOH from 668m to 391m.
P4	TP (RE)	G11	0400	0500	1.00	755.0m	Repaired hydraulic hose on TDS link tilt.
P4	P	G8	0500	0800	3.00	755.0m	Continued to POOH with 22in bit from 391m to 100m. Jet well head area 10 mins. continued POOH with BHA, laid out MWD.
P5	P	G1	0800	0900	1.00	755.0m	Changed bails, and rigged up casing equipment.
P5	P	G2	0900	1230	3.50	755.0m	Picked up and made up running tool to well head, attempted to rack back in derrick assembly bowing badly, laid out running tool and well head.
P5	P	G9	1230	1500	2.50	755.0m	Picked up and checked shoe joint, run 16" casing to 95.10m.
P5	P	G9	1500	1900	4.00	755.0m	Attempted to sting 16" shoe into 30" well head, poor vision due to cuttings / silt obstructing vision of ROV of well head.Circulated and attempted to work casing into well head. Laided out single of casing and rigged up circulating swedge and jet well head area.
P5	TP (TP)	G9	1900	2030	1.50	755.0m	ROV lost communication, ROV pushed by current into port leg. Regained communications to ROV and freed ROV from port leg while continuing to jet well head area.
P5	P	G9	2030	2200	1.50	755.0m	Continued attempts to stab into wellhead. Observed stab in with 16" casing into 30" conductor.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P (RE)	G9	2200	2300	1.00	755.0m	Continued to run 16" casing to 145m.
P5	TP (RE)	G9	2300	2400	1.00	755.0m	Observed retaining plates on solid body elevators badly bent. Removed plates to straighten same.

Operations For Period 0000 Hrs to 0600 Hrs on 25 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	TP (RE)	G9	0000	0300	3.00	755.0m	Straighten bent retaining plates and reinstate same and readjusted link tilt clamps.
P5	P	G9	0300	0600	3.00	755.0m	Continued run 16" casing. Depth at 06.00 hrs 400 meters.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 24 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	16	24 Jun 2008	24 Jun 2008	135.00	5.625	755.0m

General Comments

00:00 TO 24:00 Hrs ON 24 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	Jar hours = 34.5 hours.

WBM Data

Mud Type:	PHB	API FL:		Cl:		Solids(%vol):	
Sample-From:	Pit 8	Filter-Cake:		K+C*1000:		H2O:	99%
Time:	20:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	1.15sg	HTHP-cake:		MBT:		Sand:	
Temp:	25C°			PM:		pH:	9.5
				PF:		PHPA:	

Comment

Cost Today

Viscosity	155sec/qt
PV	20cp
YP	70lb/100ft²
Gels 10s	55
Gels 10m	60
Fann 003	52
Fann 006	55
Fann 100	75
Fann 200	85
Fann 300	90
Fann 600	110

Bit # 2RR

Wear	I	O1	D	L	B	G	O2	R
	2	2	WT	A	1	I	NO	TD

Bitwear Comments:

Size ("):	23.00in	IADC#	115
Mfr:	SMITH	WOB(avg)	20.00klb
Type:	Rock	RPM(avg)	140
Serial No.:	MZ3173	F.Rate	1200gpm
Bit Model	XR+C	SPP	2300psi
Depth In	132.8m	HSI	
Depth Out	755.0m	TFA	1.286

Nozzles	
No.	Size
1	15/32nd"
3	22/32nd"

Drilled over last 24 hrs		Calculated over Bit Run	
Progress	6.0m	Cum. Progress	622.2m
On Bottom Hrs	0.5h	Cum. On Btm Hrs	27.1h
IADC Drill Hrs	0.5h	Cum IADC Drill Hrs	33.0h
Total Revs	232159	Cum Total Revs	232159
ROP(avg)	12.00 m/hr	ROP(avg)	22.96 m/hr

Bit Comment

BHA # 2

Weight(Wet)	47.00klb	Length	213.4m	Torque(max)	7000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	30.00klb	String	148.00klb	Torque(Off.Btm)	1000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	149.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	0fpm

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	Slack-Off 148.00klb		D.P. Ann Velocity 0fpm
BHA Run Description	22" bit, Float, Power Pulse, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, 22" Stab, 1x 9.5" DC, X/O, 1x 8.25" DC, Jar, 1x 8.25" DC, X/O, 15x HWDP.		
BHA Run Comment			

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.58m	22.00in		MZ3173	
Float Sub	1.23m	9.50in			
Power Pulse	8.84m	9.63in			
Drill Collar	9.44m	9.63in			
Stabiliser	2.21m	22.00in			
Drill Collar	9.18m	9.63in			
Stabiliser	2.11m	22.00in			
Drill Collar	9.41m	9.63in			
X/O	0.47m	9.50in			
Drill Collar	9.44m	8.38in			
Jar	9.60m	8.00in			
Drill Collar	9.41m	8.38in			
X/O	0.50m	8.25in			
HWDP	140.96m	5.50in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	6	0	103.0
Rig Fuel	m3	0	20	0	135.0
POTABLE WATER	MT	12	27	0	305.0
Cement Class G	MT	0	0	0	124.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	166.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.00	97	100	2400	600		30		176	40		234	50		293
2	National 14 P-220	6.50	1.00	97	100	2400	600		30		176	40		234	50		293
3	National 14 P-220	6.50		97					30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	45
Catering	9
Halliburton	2
Baker Hughes Inteq	3
Halliburton	2
Tamboritha	6
Q Tech	1
Cameron	1
Schlumberger MWD/LWD	2
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5

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Personnel On Board

Schlumberger	1
Other Contractor	1
Other	1
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	**791.5bbl**	**Losses**	**825.5bbl**	Equipment	Description	Mesh Size	Comments
Active Mixing		Downhole		Shaker 1	VSM-300	255	Guar Gum: 320
		Surf+ Equip	825.5bbl	Shaker 2	VSM-300	255	
Hole	484.5bbl	Dumped		Shaker 3	VSM-300	255	
Slug		De-Gasser		Shaker 4	VSM-300	255	
Reserve		De-Sander					
Kill		De-Silter					
PHB	307.0bbl	Centrifuge					

Marine

Weather on 24 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	23kn	270.0deg	1020.0mbar	10C°	2.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2361.00klb	3.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		276.8
Potable Water	Mt		435
Drill Water	Mt		460
CEMENT G	Mt		40
Barite	Mt		33
Bentonite	Mt		0
	bbl		1500
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	18h35		At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		548.5
Potable Water	Mt		229
Drill Water	m3		729
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1018 / 1029	15 / 6	

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Australian Drilling Associates Pty Ltd ADA

25 Jun 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 7
Longtom-4

Well Data

Country	Australia	MDBRT	755.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	755.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	4.94	Shoe MDBRT	750.0m	Cum Cost	AUD$4,317,900
Wtr Dpth(MSL)	57.3m	Days on well	6.63	FIT/LOT:	/		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Running 22" HP riser.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Make up H4 connector and run 22" HP riser and connect to well head. Pressure test HP riser. Nipple up Bop's.		

Summary of Period 0000 to 2400 Hrs

Run 16" casing to 750.03m. Cemented casing, released running tool. POOH, laid out running tool, continued POOH with inner string.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		4 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		5 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	19	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 25 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	TP (RE)	G11	0000	0300	3.00	755.0m	Straightened bent retaining plates and reinstated same. Re-adjusted link-tilt clamps.
P5	P	G9	0300	0800	5.00	755.0m	Continued to run 16in casing to 647m.
P5	P	G9	0800	1000	2.00	755.0m	Picked up and made up 20"/16" cross over to 16" casing and land of at rotary table. (Confirmed with shorebase suitability of landing shoulder on 20" Linx 2 Connector)
P5	P	G9	1000	1030	0.50	755.0m	Changed out handling equipment & prepare to run inner string.
P5	P	G9	1030	1230	2.00	755.0m	RIH with inner string.
P5	TP (RE)	G8	1230	1400	1.50	755.0m	Downtime - Slow operation running inner string - Iron Roughneck not operational.
P5	P	G9	1400	1730	3.50	755.0m	Picked up and made up well head to inner string and 16" casing and RIH with landing string. Observed land out of well head with ROV. Confirmed land out with 50k overpull.
P5	P	G9	1730	1800	0.50	755.0m	Rigged up cement lines.
P5	P	F3	1800	2100	3.00	755.0m	Held JSA, pumped 10 bbls sea water tested lines 2,500 psi, pumped 90 bbls sea water. Mixed and pump 516 bbls "G" class cement slurry at 12.50 ppg followed by tail cement of 229 bbls "G" at 15.80 ppg and displaced with 66.9 bbls sea water. Bleed off pressure of 450 psi, 2.50 bbls returned, checked float, float holding. ROV observed returns the entire time while cementing. 16" shoe at 750.03m, Top cement in 16" casing at +/- 735m, Top 18 3/4" well head at 93.93m.
P5	P	G8	2100	2400	3.00	755.0m	Rigged down cement lines, observed running tool backed out from well head with ROV. POOH laid out running tool.

Operations For Period 0000 Hrs to 0600 Hrs on 26 Jun 2008

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Printed on 25 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	P	G13	0000	0230	2.50	755.0m	Held JSA, rigged up and move H4 connector from main deck to Texas deck and place same in "C" plate. Rigged down handling equipment. ROV installed debris cap while above operation was in place.
P6	P	G13	0230	0600	3.50	755.0m	Rigged up handling equipment and picked up DQ RBC connector and joint 22" riser and made up same. Lowered assembly down to Texas deck and make up same to H4 connector. Picked up and attached 2 core umbilical to connector and function tested same.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 25 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m

General Comments

00:00 TO 24:00 Hrs ON 25 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore.
Operational Comments	Jar hours = 34.5 hours.
Operational Comments	Slow time of running inner string due to using rig tongs as iron rough neck failure.

WBM Data

Mud Type:	PHB	API FL:	Cl:	Solids(%vol):		Viscosity	155sec/qt
Sample-From:	Pit 8	Filter-Cake:	K+C*1000:	H2O:	99%	PV	20cp
Time:	20:00	HTHP-FL:	Hard/Ca:	Oil(%):		YP	70lb/100ft²
Weight:	1.15sg	HTHP-cake:	MBT:	Sand:		Gels 10s	55
Temp:	25C°		PM:	pH:	9.5	Gels 10m	60
			PF:	PHPA:		Fann 003	52
						Fann 006	55
						Fann 100	75
						Fann 200	85
						Fann 300	90
						Fann 600	110

Comment

Cost Today

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	511	0	0	614.0
Rig Fuel	m3	0	14	0	121.0
POTABLE WATER	MT	12	30	0	287.0
Cement Class G	MT	0	95	0	29.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	166.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	6
Seadrill	11
Seadrill Services.	41
Catering	9
Halliburton	2

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Personnel On Board

Baker Hughes Inteq	5
Halliburton	2
Tamboritha	6
Q Tech	2
Cameron	1
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5
Schlumberger	1
Other	1
Schlumberger DD	2
BHI	1
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	1111.0bbl	Losses	0.0bbl
Active Mixing		Downhole Surf+ Equip	0.0bbl
Hole	484.0bbl	Dumped	
Slug Reserve	307.0bbl	De-Gasser De-Sander	
Kill Guar Gum	320.0bbl	De-Silter Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments

Marine

Weather on 25 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	310.0deg	1010.0mbar	12C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2229.00klb	2.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			At Geelong	

Item	Unit	Used	Quantity
Rig Fuel	m3		542.7
Potable Water	Mt		445
Drill Water	Mt		270
CEMENT G	Mt		40
Barite	Mt		117
Bentonite	Mt		0
	bbl		1500
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			On route to Geelong from Paciffic terminal for brine.	

Item	Unit	Used	Quantity
Rig Fuel	m3		505.53
Potable Water	Mt		397
Drill Water	m3		729
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8
SOBM	m3		286

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Protector	0900		At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		583.325
Potable Water	mt		167

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS	1009 / 1024	8 / 8	

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Helicopter Movement				
	AUSTRALIA PTY LTD			

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 8

26 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	755.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	755.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	5.94	Shoe MDBRT	750.0m	Cum Cost	AUD$5,899,100
Wtr Dpth(MSL)	57.3m	Days on well	7.63	FIT/LOT:	/		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Wait on Weather.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Run 22in HP riser and connect to well head. Pressure test HP riser. Nipple up BOP, test Bop connection.		

Summary of Period 0000 to 2400 Hrs

Rigged up and ran 22" HP riser to 60m. Wait on Weather.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		7 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		5 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		6 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	11	1 Day		Permit to work issued for the day.
Safety Meeting		4 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	34	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 26 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	P	G13	0000	0230	2.50	755.0m	Held JSA, rigged up and moved H4 connector from main deck to Texas deck and placed same in "C" plate. Rigged down handling equipment. ROV installed debris cap while above operation was in place.
P6	P	G13	0230	0830	6.00	755.0m	Rigged up handling equipment and picked up DQ RBC connector and 22in riser joint. Made up same. Lowered assembly down to Texas deck and made up same to H4 connector. Picked up and attached 2 x core umbilical to connector and function tested same. Run 22" HP riser to 60m.
P6	TP (WOW)	G13	0830	2400	15.50	755.0m	Wait on weather. 09.00 Wind 44 knts Gusts 50 knts Sea 4 - 5m. 12.00 Wind 45 knts Gusts 55 knts Sea 5m 15.00 Wind 39 knts Gusts 48 knts Sea 5m 18.00 Wind 43 knts Gusts 53 knts Sea 4 - 5m 21.00 Wind 40 knts Gusts 50 knts Sea 5m 24.00 Wind 36 knts Gusts 43 knts Sea 3 - 4m Currents too strong to enable ROV to operate and for work boats to launch FRC.

Operations For Period 0000 Hrs to 0600 Hrs on 27 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	TP (WOW)	G13	0000	0600	6.00	755.0m	Wait on Weather. 03.00 Wind 30 knts Gusts 38 knts Sea 3 - 4m 06.00 Wind 26 knts Gusts 30 knts Sea 3 - 4m Currents too strong to enable ROV to operate till 04.00 hrs. Work boats unable launch FRC due to sea state. Cranes unable to off load boats due to sea states.

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Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 26 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	24	26 Jun 2008	26 Jun 2008	183.00	7.625	755.0m

WBM Data

Cost Today AUD$ 2500

Mud Type:	PHB	API FL:	Cl:	Solids(%vol):		Viscosity	155sec/qt
Sample-From:	Pit 8	Filter-Cake:	K+C*1000:	H2O:	99%	PV	20cp
Time:	20:00	HTHP-FL:	Hard/Ca:	Oil(%):		YP	70lb/100ft²
Weight:	1.15sg	HTHP-cake:	MBT:	Sand:		Gels 10s	55
Temp:	25C°		PM:	pH:	9.5	Gels 10m	60
			PF:	PHPA:		Fann 003	52
						Fann 006	55
						Fann 100	75
						Fann 200	85
						Fann 300	90
						Fann 600	110

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	614.0
Rig Fuel	m3	0	7	0	114.0
POTABLE WATER	MT	15	24	0	278.0
Cement Class G	MT	0	0	0	29.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	166.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	6
Seadrill	10
Seadrill Services.	41
Catering	9
Halliburton	3
Baker Hughes Inteq	5
Halliburton	2
Tamboritha	5
Q Tech	2
Cameron	1
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Dril-Quip	1
Weatherford	5
Other	1
Schlumberger DD	2
BHI	1
Tasman Oil Tools	1
Total	99

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	1111.0bbl
Active Mixing	
Hole	484.0bbl
Slug	
Reserve	307.0bbl
Kill	
Guar Gum	320.0bbl

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	255
Shaker 3	VSM-300	255
Shaker 4	VSM-300	255

Comments

Marine

Weather on 26 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	35kn	260.0deg	1012.0mbar	10C°	4.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2388.00klb	5.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At location.

Item	Unit	Used	Quantity
Rig Fuel	m3		537.7
Potable Water	Mt		440
Drill Water	Mt		270
CEMENT G	Mt		40
Barite	Mt		117
Bentonite	Mt		0
	bbl		1500
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			On route to location. ETA 18.00 27-06-08

Item	Unit	Used	Quantity
Rig Fuel	m3		489.42
Potable Water	Mt		452
Drill Water	m3		615
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8
SOBM	m3		286
	m3		101
	m3		95.4

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Protector		11.00	On route to Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		593.64
Potable Water	mt		364

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1426 / 1440	10 / 11	Attempted to fly out in morning but weather did not permit aircraft to land. Second attempt in the afternoon was successful.

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DRILLING MORNING REPORT # 9

27 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	755.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	755.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	6.94	Shoe MDBRT	750.0m	Cum Cost	AUD$6,549,100
Wtr Dpth(MSL)	57.3m	Days on well	8.63	FIT/LOT:	/		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Nipple up Bop's.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Nipple up Bop's, pressure test casing and Bop connection to 2000psi. Lay out stand 9 1/2" drill collars. Make up clean out assembly, RIH picking up drill pipe. drill out cement and shoe track, circulate hole clean. Preform LOT		

Summary of Period 0000 to 2400 Hrs

Wait on Weather. Run 22" HP riser and land same and comfirm latch with 50k overpull. Installed CTU and claxton ring. Trouble shoot fault with CTU & control system.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		8 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		6 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		7 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	19	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 27 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	TP (WOW)	G13	0000	0600	6.00	755.0m	Wait on Weather. 03.00 Wind 30 knts Gusts 38 knts Sea 3 - 4m 06.00 Wind 26 knts Gusts 30 knts Sea 3 - 4m Currents too strong to enable ROV to operate till 04.00 hrs. Work boats unable launch FRC due to sea state. Cranes unable to off load boats due to sea states.
P6	TP (WOW)	G13	0600	0630	0.50	755.0m	Deck cranes operational but no stand-by cover. Picked up made up next joint 22" HP riser to string.
P6	TP (WOW)	G13	0630	0700	0.50	755.0m	Wait on weather to subside for boat to provide close stand-by cover. Wind 26 knts Gusts 30 knts Sea 3m
P6	P	G13	0700	0730	0.50	755.0m	Boat confirmed stand by cover possible. Held JSA and attempted to picked up riser from slips.
P6	TP (TP)	G13	0730	0900	1.50	755.0m	22" slip inserts and slips wedged together in 30" bowls. Freed same.
P6	P	G13	0900	1000	1.00	755.0m	Run 22" HP riser to 75m.
P6	P	G13	1000	1100	1.00	755.0m	Picked up and made up DQ running tool from derrick and make up same to 22" HP riser.
P6	TP (TP)	G13	1100	1130	0.50	755.0m	ROV lost thruster capability when attempting to locate wellhead in preperation to stab and vehicle floated to surface. Re-established control and dived back to bottom.
P6	P	G13	1130	1330	2.00	755.0m	Continued RIH with 22" HP riser on drill pipe, with assistance from ROV stab H4 connector onto well head, lock connector and confirm latch with 50k overpull.
P6	P	G13	1330	1430	1.00	755.0m	Attempted to test HP riser to 500 psi - leaking at DQ running tool. ROV checked well connector and riser no visible leaks.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	P	G13	1430	1700	2.50	755.0m	Rigged up CTU on Texas deck.
P6	P	G13	1700	2000	3.00	755.0m	Installed claxton base onto CTU and claxton ring onto riser and torqued up same to 2250 ft/lbs.
P6	TP (RE)	G13	2000	2400	4.00	755.0m	Attempted to stroke out CTU unit - pistons opening unequally. Trouble shoot problem. Found that pressure regulating valve was inoperable and lower / raise function valve is leaking. Released claxton clamp and stroke out pistons on CTU to fully open postion and function same to confirm no trapped air in system - pistons opening and closing unequally.

Operations For Period 0000 Hrs to 0600 Hrs on 28 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	TP (RE)	G13	0000	0230	2.50	755.0m	Made up Claxton clamp hand tight 4" above CTU and adjusted slip insert to engage on riser. Stroked open CTU pistons to 4" to contact Claxton clamp and adjust slip inserts to ensure clamp level. Torqued up bolts on Claxton clamp to 2250 ft/lbs. Increased CTU pressure to support 100T.
P6	P	G13	0230	0300	0.50	755.0m	Stroked DQ running tool mandrel down and attempted to test HP riser again to 500 psi - DQ running tool still leaking. Backed out running tool and racked back same.
P6	P	G13	0300	0600	3.00	755.0m	Lowered CTU work platform on to Texas deck. Move Bops from set back area and nipple up Bop's to HP riser.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 27 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	48	26 Jun 2008	27 Jun 2008	207.00	8.625	755.0m

General Comments

00:00 TO 24:00 Hrs ON 27 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Unit requires urgent attention.
Operational Comments	Jar hours = 34.5 hours.
Operational Comments	While wait on weather: Pressure tested stand pipe manifold 250/5000 psi 5/10 mins. Changed out stab master guide to 10 3/4". Changed out and pressure tested to 5000 psi top drive wash pipe.
Operational Comments	Port crane out of service, broken wires on whip line and also on main block and wire on main block birds nested. Both whip line and main block lines require to be changed out ASAP.

WBM Data — Cost Today AUD$ 31249

Mud Type:	API FL:	Cl:	Solids(%vol):	Viscosity	
Sample-From:	Filter-Cake:	K+C*1000:	H2O:	PV	
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:		PM:	pH:	Gels 10m	
		PF:	PHPA:	Fann 003	
				Fann 006	
				Fann 100	
				Fann 200	
				Fann 300	
				Fann 600	
Comment	Received 1064bbl base oil and SBM chemicals from Ocean Battler.				

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	15	0	599.0
Rig Fuel	m3	0	6	0	108.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
POTABLE WATER	MT	15	29	0	264.0
Cement Class G	MT	42	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	42	0	0	208.0
SOBM	m3	143	0	0	143.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	7
Seadrill	10
Seadrill Services.	41
Catering	9
Halliburton	3
Baker Hughes Inteq	5
Halliburton	2
Tamboritha	3
Q Tech	2
Cameron	1
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Dril-Quip	1
Other	1
Schlumberger DD	2
BHI	1
Tasman Oil Tools	1
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**775.8bbl**
Active Mixing	148.8bbl
Hole Slug	
Reserve	307.0bbl
Kill Guar Gum	320.0bbl

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	89
Shaker 2	VSM-300	89
Shaker 3	VSM-300	89
Shaker 4	VSM-300	89

Comments

Marine

Weather on 27 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	250.0deg	1024.0mbar	12C°	2.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2538.00klb	2.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		531.7
Potable Water	Mt		435
Drill Water	Mt		270
CEMENT G	Mt		40

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Printed on 27 Jun 2008

				Item	Unit	Used	Quantity
				Barite	Mt		75
				Bentonite	Mt		0
					bbl		452
					bbl		0
Pacific Valkyrie	15.00		On location.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		473.62
				Potable Water	Mt		447
				Drill Water	m3		615
				CEMENT G	Mt		0
				Barite	Mt		42.5
				Bentonite	Mt		34.8
				SOBM	m3		286
					m3		101
					m3		95.4
Pacific Protector	0900		At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		593.64
				Potable Water	mt		364

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1417 / 1428	5 / 11	

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DRILLING MORNING REPORT # 10

28 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	755.0m	Cur. Hole Size	22.000in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	755.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	7.94	Shoe MDBRT	750.0m	Cum Cost	AUD$7,199,100
Wtr Dpth(MSL)	57.3m	Days on well	9.63	FIT/LOT:	/		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Circulate hole clean for LOT.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Conduct FIT. POOH lay out 8" drill collars. Pick up 13 1/2" drilling assembly, RIH drill 13 1/2" hole.		

Summary of Period 0000 to 2400 Hrs

Tennsioned up CTU, nippled up Bop's and diverter system. Tested casing/shear rams 2000psi. Laid out 9.5" drill collars, picked up and RIH with 14.75" drill out assembly.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		9 Days	Held at 19.20 hours.	Rig alarms activated. Oim continued with full muster. On investigation no problem found.
First Aid Case		7 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		8 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	27	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 28 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	TP (RE)	G13	0000	0230	2.50	755.0m	Made up Claxton clamp hand tight 4" above CTU and adjusted slip insert to engage on riser. Stroked open CTU pistons to 4" to contact Claxton clamp and adjust slip inserts to ensure clamp level. Torqued up bolts on Claxton clamp to 2250 ft/lbs. Increased CTU pressure to support 100T.
P6	P	G13	0230	0300	0.50	755.0m	Stroked DQ running tool mandrel down and attempted to test HP riser again to 500 psi - DQ running tool still leaking. Backed out running tool and racked back same.
P6	P	G13	0300	0800	5.00	755.0m	Lowered CTU work platform on to Texas deck. Move Bops from set back area and nipple up Bop's to HP riser. Tension up on CTU to 200T
P6	P	G13	0800	1200	4.00	755.0m	Picked up and installed mandrell on to Bop's. Picked up and made up overshot to diverter and installed control hoses to same.
P6	P	G13	1200	1330	1.50	755.0m	Rigged up choke line on Bop's.
P28	P	G24	1330	1430	1.00	755.0m	Cleared Texas deck of equipment and 22" elevators. Energized diverter system seals.
P6	P	P1	1430	1530	1.00	755.0m	Filled riser with sea water and pressure tested 16' casing, H4 connector and 22" riser against shear rams 2000 psi 10 mins. Good test.
P7	P	G5	1530	1800	2.50	755.0m	Laid out 22" HP riser running tool. Laid out 22" BHA from derrick.
P7	P	G6	1800	1930	1.50	755.0m	Picked up and made up 14 3/4" drill out assembly and RIH to 51m.
P7	P	G1	1930	2030	1.00	755.0m	Changed out bails and rigged up auto elevators.
P7	P	G11	2030	2130	1.00	755.0m	Rig service and update drillers chair software.
P7	TP (RE)	G8	2130	2200	0.50	755.0m	Changed out auto elevators to manual elevators as rotating head not functioning with auto elevators installed.
P7	P	G8	2200	2230	0.50	755.0m	RIH with 5 stands heavy weight drill pipe to 200m.
P7	P	G8	2230	2400	1.50	755.0m	RIH picking up 5.5" drill pipe singles from deck.

Operations For Period 0000 Hrs to 0600 Hrs on 29 Jun 2008

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P7	P	G8	0000	0300	3.00	755.0m	RIH picking up 5.5" drill pipe to 731.78m
P7	P	G8	0300	0330	0.50	755.0m	Washed down from 731.78m to TOC at 736m with 5k down.
P7	P	D1	0330	0430	1.00	755.0m	Drilled cement from 736m to 750m, drilled shoe at 750m and cleaned out rathole from 750m to 755m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 11OO, PSI 1700 (sea water)
P7	P	D2	0430	0500	0.50	758.0m	Drilled 14 3/4" hole from 755 - 758m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 11OO, PSI 1700 (sea water)
P7	P	F4	0500	0600	1.00	758.0m	Pump 100 bbls Hi/vis and circulated hole clean.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 28 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Intermediate Hole (1)(P7)	8.5	28 Jun 2008	28 Jun 2008	230.00	9.583	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	231.00	9.625	755.0m

General Comments

00:00 TO 24:00 Hrs ON 28 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Unit requires urgent attention. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 34.5 hours.
Operational Comments	Port crane out of service, broken wires on whip line and also on main block and wire on main block birds nested. Both whip line and main block lines require to be changed out ASAP.

SBM Data

Cost Today AUD$ 559876

Mud Type:	HTHP-Temp:	Ex.Lime:	Solids(%vol):	Viscosity	
Oil Type:	HTHP:	Salinity:	H2O:	YP	
Sample-From:	HTHP-FL:	Elec.Stab.:	Oil(%):	PV	
Time:	HTHP-cake:		Sand:	O/W Ratio:	
Weight:	CaCl mud:		LGS:	Gels 10s	
Temp:	CaCl WP:		Oil On Cut:	Gels 10m	
				Fann 003	
				Fann 006	
				Fann 100	
				Fann 200	
				Fann 300	
				Fann 600	

Comment: Received 1692bbl of SBM ACCOLADE mud. 160bbl remaining on Ocean Valkyrie. Adjust oil/water ratio to 70/30 and treat to ensure mud properties within specifications. Weight SBM with Barite to 12.0ppg.

Bit # 3

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	14.75in	IADC#	115		
Mfr:	REED	WOB(avg)	12.00klb		
Type:	Rock	RPM(avg)	80		
Serial No.:	WC6252	F.Rate	1100gpm		
Bit Model	T11	SPP	1700psi		
Depth In	755.0m	HSI			
Depth Out		TFA	1.093		

Nozzles

No.	Size
1	15/32nd"
3	20/32nd"

Drilled over last 24 hrs		**Calculated over Bit Run**	
Progress		Cum. Progress	0.0m
On Bottom Hrs		Cum. On Btm Hrs	0.0h
IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Total Revs		Cum Total Revs	0
ROP(avg)	N/A	ROP(avg)	0.00 m/hr

Bit Comment

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BHA # 3

Weight(Wet)	50.00klb	Length	200.3m	Torque(max)		D.C. (1) Ann Velocity	186fpm
Wt Below Jar(Wet)		String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	144fpm
		Slack-Off				D.P. Ann Velocity	144fpm

BHA Run Description

BHA Run Comment: Drill out cement, rathole and 3m new formation.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.38m			WC6252	
Bit Sub	1.23m	9.50in	3.00in	115581.105	
8in DC	37.83m	8.38in	2.88in		
Jars	9.60m	8.00in	3.00in	15881191	
8in DC	9.41m	8.38in	2.88in	1T8	
X/O	0.50m	8.25in	2.75in	11559	
HWDP	140.96m	5.50in	3.25in		

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	35	0	564.0
Rig Fuel	m3	0	3	0	105.0
POTABLE WATER	MT	15	32	0	247.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	208.0
SOBM	m3	0	0	0	143.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.00	97			
2	National 14 P-220	6.50	1.00	97			
3	National 14 P-220	6.50		97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	7
Seadrill	10
Seadrill Services.	41
Catering	9
Halliburton	3
Baker Hughes Inteq	5
Halliburton	2
Tamboritha	3
Q Tech	2
Cameron	1
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Dril-Quip	1
Other	1

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Personnel On Board

Schlumberger DD	2
BHI	1
Tasman Oil Tools	1
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2520.8bbl**	**Losses**	**0.0bbl**
Active	1745.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole		Dumped	
Slug		De-Gasser	
Reserve	455.8bbl	De-Sander	
Kill		De-Silter	
Guar Gum	320.0bbl	Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	89
Shaker 2	VSM-300	89
Shaker 3	VSM-300	89
Shaker 4	VSM-300	89

Comments

Marine

Weather on 28 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	8kn	70.0deg	1019.0mbar	14C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2796.00klb	1.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		23.00	On route to Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		497.6
Potable Water	Mt		457
Drill Water	Mt		270
CEMENT G	Mt		0
Barite	Mt		75
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	15.00		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		463.42
Potable Water	Mt		442
Drill Water	m3		615
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8
SOBM	m3		286
	m3		101
	m3		95.4

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DRILLING MORNING REPORT # 11

29 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	755.0m	Cur. Hole Size	14.750in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	755.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	3.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	8.94	Shoe MDBRT	750.0m	Cum Cost	AUD$7,849,100
Wtr Dpth(MSL)	57.3m	Days on well	10.63	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling 13 1/2" hole at 815m.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13 1/2" hole.		

Summary of Period 0000 to 2400 Hrs

RIH picking up 5.5" drill pipe, Tagged TOC at 736m. Drilled out shoe track, clean out rathole and drilled 3m formation from 736 - 758m. Pumped 100bbls Hi/vis circulated hole clean. Preformed LOT with sea water at 650 psi surface applied pressure EMW = 13.70Pppg. POOH, laid out 14 3/4" BHA. Made up 13 1/2" streerable BHA, shallow test MWD, RIH with BHA to 183m. Continued RIH picking up 5.5" drill pipe to 750m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		0 Days	Held at 10.30 hours.	Rig alarms activated.
First Aid Case		8 Days	First aid case.	Night chef received small laceration when opening box in galley.
Incident		9 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	13	0 Days		Permit to work issued for the day.
Safety Meeting	2	1 Day		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	16	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 29 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P7	P	G8	0000	0300	3.00	755.0m	RIH picking up 5.5" drill pipe to 731.78m
P7	P	G8	0300	0330	0.50	755.0m	Washed down from 731.78m to TOC at 736m with 5k down.
P7	P	D1	0330	0430	1.00	755.0m	Drilled cement from 736m to 750m, drilled shoe at 750m and cleaned out rathole from 750m to 755m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 11OO, PSI 1700 (sea water)
P7	P	D2	0430	0500	0.50	758.0m	Drilled 14 3/4" hole from 755 - 758m. WOB 10k, RPM 80, TORQUE 2-3K ft/lbs, GPM 11OO, PSI 1700 (sea water)
P7	P	F4	0500	0600	1.00	758.0m	Pump 100 bbls Hi/vis and circulated hole clean.
P7	P	E1	0600	0700	1.00	758.0m	Tested lines to 2000psi. Conducted LOT with sea water to 650 psi surface applied pressure EMW = 13.70 PPG.
P7	P	G8	0700	0830	1.50	758.0m	Flow checked and POOH to 58m.
P7	P	G2	0830	1000	1.50	758.0m	Laid out 14 3/4" BHA.
P7	TP (RE)	G2	1000	1130	1.50	758.0m	NOV fault find on cyber chair.
P7	P	G7	1130	1500	3.50	758.0m	Picked up and made up 13 1/2" steerable drilling assembly as per DD instructions.
P7	P	G7	1500	1600	1.00	758.0m	Shallow test Power Drive - 800 gpm at 650psi.
P7	P	G7	1600	1700	1.00	758.0m	Load radioactive source.
P7	P	G7	1700	1730	0.50	758.0m	RIH with BHA to 86m, shallow AND-8 at 800 gpm/650 psi.
P7	P	G8	1730	1900	1.50	758.0m	RIH with HWDP and pick up 6 1/2" Jars to 183m.
P7	P	G8	1900	2400	5.00	758.0m	RIH picking up 5.5" drill pipe to 750m.

Operations For Period 0000 Hrs to 0600 Hrs on 30 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P7	P	G11	0000	0100	1.00	758.0m	Serviced rig and top drive.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P7	P	F4	0100	0330	2.50	758.0m	Held JSA with crews and made a final check on line up. Pumped 50 hi/vis spacer and displaced well to SOBM at 500 gpm and 1000 psi. Shut down with hi-vis spacer at surface and lined up returns to slops pit. Continued circulating out hi-vis spacer. Shut down with SOBM at surface. Directed returns into sand traps and lined up returns to active pit. Displaced kill and choke lines, choke manifold and fill trip tank with SOBM. Take SCR'S.
P7	P	D4	0330	0600	2.50	888.0m	Drilled 13 1/2" hole from 758m to 815m with 1000 gpm, 2500 psi, 80 RPM, 10-12k WOB, 1500 ft-lbs, 30 m/hr ROP.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 29 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m

General Comments

00:00 TO 24:00 Hrs ON 29 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Unit requires urgent attention. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 0 hours.

SBM Data

Cost Today AUD$ 71524

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	70sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	250803mg/l	H2O:	27%	YP	14lb/100ft²
		HTHP-FL:	4.0cc/30min	Elec.Stab.:	380mV	Oil(%):	54%	PV	31cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:		O/W Ratio:	67/33
Time:	22:00	CaCl mud:	29.12			LGS:	4%	Gels 10s	8
Weight:	12.00sg	CaCl WP:				Oil On Cut:		Gels 10m	12
Temp:	20C°							Fann 003	6
								Fann 006	7
								Fann 100	23
								Fann 200	
								Fann 300	45
								Fann 600	76

Comment: Continue to adjust active mud properties and weight to 12.0ppg. Added 5ppb Omyacarb 5 and 5ppb Circal 60/16 to displacement volume. Drill out cement and shoe track with seawater and Guar Gum/PHB sweeps, returns overboard. Received 457bbl, 11.3ppg brine.

Bit # 3

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	0	I	NO	BHA

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	14.75in	IADC#	115	No.	Size	Progress	3.0m	Cum. Progress	3.0m
Mfr:	REED	WOB(avg)	10.00klb	1	15/32nd"	On Bottom Hrs	0.5h	Cum. On Btm Hrs	0.5h
Type:	Rock	RPM(avg)	80	3	20/32nd"	IADC Drill Hrs	0.5h	Cum IADC Drill Hrs	0.5h
Serial No.:	WC6252	F.Rate	1100gpm			Total Revs		Cum Total Revs	0
Bit Model	T11	SPP	1700psi			ROP(avg)	6.00 m/hr	ROP(avg)	6.00 m/hr
Depth In	755.0m	HSI							
Depth Out	758.0m	TFA	1.093						

Bit Comment

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Bit # 4

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**		**Drilled over last 24 hrs**	**Calculated over Bit Run**
Mfr:	REED	WOB(avg)		No.	Size	Progress	Cum. Progress 0.0m
Type:	PDC	RPM(avg)		3	16/32nd"	On Bottom Hrs	Cum. On Btm Hrs 0.0h
Serial No.:	219224	F.Rate		3	18/32nd"	IADC Drill Hrs	Cum IADC Drill Hrs 0.0h
Bit Model	RSX616M-A3	SPP				Total Revs	Cum Total Revs 0
Depth In	758.0m	HSI				ROP(avg) N/A	ROP(avg) 0.00 m/hr
Depth Out		TFA	1.335				

Bit Comment

BHA # 3

Weight(Wet)	50.00klb	Length	200.3m	Torque(max)	5000ft-lbs	D.C. (1) Ann Velocity	186fpm
Wt Below Jar(Wet)		String	140.00klb	Torque(Off.Btm)	2000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	140.00klb	Torque(On.Btm)	3500ft-lbs	H.W.D.P. Ann Velocity	144fpm
		Slack-Off	140.00klb			D.P. Ann Velocity	144fpm

BHA Run Description

BHA Run Comment: Drill out cement, rathole and 3m new formation.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.38m			WC6252	
Bit Sub	1.23m	9.50in	3.00in	115581.105	
8in DC	37.83m	8.38in	2.88in		
Jars	9.60m	8.00in	3.00in	15881191	
8in DC	9.41m	8.38in	2.88in	1T8	
X/O	0.50m	8.25in	2.75in	11559	
HWDP	140.96m	5.50in	3.25in		

BHA # 4

Weight(Wet)	34.00klb	Length	183.1m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	15.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.26m	13.50in		219224	
Power drive	4.21m	8.36in	3.00in	52680	
RSS Receiver Sub	1.88m	8.36in	3.00in	50566	
Flex joint	2.94m	8.13in	3.50in	49688	
ARC8	5.53m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	VC73	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	90	0	474.0
Rig Fuel	m3	0	2	0	103.0

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Printed on 29 Jun 2008

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
POTABLE WATER	MT	12	22	0	237.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	27	0	181.0
SOBM	m3	0	0	0	143.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.00	97	94	1700	550		30		176	40		234	50		293
2	National 14 P-220	6.50	1.00	97	94	1700	550		30		176	40		234	50		293
3	National 14 P-220	6.50		97					30		176	40		234	50		293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	7
Seadrill	10
Seadrill Services.	41
Catering	9
Halliburton	3
Baker Hughes Inteq	5
Halliburton	2
Tamboritha	3
Q Tech	2
Cameron	1
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Dril-Quip	1
Other	1
Schlumberger DD	2
BHI	1
Tasman Oil Tools	1
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2374.0bbl**	**Losses**	**0.0bbl**	Equipment	Description	Mesh Size	Comments
Active	1917.0bbl	Downhole		Shaker 1	VSM-300	89	
Mixing		Surf+ Equip	0.0bbl	Shaker 2	VSM-300	89	
Hole		Dumped		Shaker 3	VSM-300	89	
Slug		De-Gasser		Shaker 4	VSM-300	89	
Reserve		De-Sander					
Kill		De-Silter					
Brine	457.0bbl	Centrifuge					

Marine

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Weather on 29 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	70.0deg	102.0mbar	14C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2663.00klb	1.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		23.00	On route to location.

Item	Unit	Used	Quantity
Rig Fuel	m3		487.617
Potable Water	Mt		451
Drill Water	Mt		460
CEMENT G	Mt		0
Barite	Mt		117
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	15.00		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		451.28
Potable Water	Mt		437
Drill Water	m3		615
CEMENT G	Mt		0
Barite	Mt		42.5
Bentonite	Mt		34.8
SOBM	m3		25
	m3		101
	m3		2

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DRILLING MORNING REPORT # 12

30 Jun 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	1447.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	1389.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	689.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	9.94	Shoe MDBRT	750.0m	Cum Cost	AUD$8,499,100
Wtr Dpth(MSL)	57.3m	Days on well	11.63	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling ahead at 1512m		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13 1/2" hole to TD.		

Summary of Period 0000 to 2400 Hrs

Service top drive and rig. Displaced well to SOBM. Drilled 13 1/2" hole from 758 - 1447m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.30 hours.	Rig alarms activated.
Incident		10 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
Incident	2	0 Days	Incident	Night utility slip on stairs striking elbow. Dogman slipped when walking on deck - he felt a strain in his grion.
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Labtrobe	1291.00m

Operations For Period 0000 Hrs to 2400 Hrs on 30 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G11	0000	0100	1.00	758.0m	Serviced rig and top drive.
P11	P	F4	0100	0330	2.50	758.0m	Held JSA with crews and made a final check on line up. Pumped 50 hi/vis spacer and displaced well to OBM at 500 gpm and 1000 psi. Shut down with hi-vis spacer at surface and lined up returns to slops pit. Continued circulating out hi-vis spacer. Shut down with OBM at surface. Directed returns into sand traps and lined up returns to active pit. Displaced kill and choke lines, choke manifold and fill trip tank with OBM. Took SCR'S.
P11	P	D4	0330	2400	20.50	1447.0m	Drilled 13.5in directional hole from 758m to1447m: Start build at 780m. Built up to 30 degrees Inc at 1220m with 183.5 AZ. Drill tangent section maintaining 30 deg Inc and 183.5 AZ from 1220m. Parameters: Press 2800 - 3300, GPM 1050 - 1125, WOB 20-25, RPM 150, TQ 11-20k ft-lbs. Observed seepage losses of 10-20 bbls / hr in Labtrobe formation.

Operations For Period 0000 Hrs to 0600 Hrs on 01 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	1512.0m	Drilled 13 1/2" hole from 1477 - 1512m maintaining 30 deg Inc and 183.5 AZ. Parameters: Press 3250 psi, GPM 1125, WOB 15-25, RPM 80-150, TQ 11-20k ft-lbs. Encountered hard stringers at 1447m, 1505m, 1511m with ROP<0.5m / hour.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Seepage looses of 10 - 20 bbls hour.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 30 Jun 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	24	30 Jun 2008	30 Jun 2008	279.00	11.625	1447.0m

General Comments

00:00 TO 24:00 Hrs ON 30 Jun 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Unit requires urgent attention. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours =20.5 hours.
Operational Comments	Pit drill held while dilling, driller observed pit gain good fast effient responce.

SBM Data — Cost Today AUD$ 180422

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	78sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	173349mg/l	H2O:	54%	YP	37lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.4cc/30min	Elec.Stab.:	570mV	Oil(%):	28%	PV	37cp
Time:	22:00	HTHP-cake:	1/32nd"			Sand:		O/W Ratio:	66/34
Weight:	12.00sg	CaCl mud:	20.58			LGS:	2%	Gels 10s	15
Temp:	52C°	CaCl WP:				Oil On Cut:	6%	Gels 10m	20
								Fann 003	15
								Fann 006	16
								Fann 100	43
								Fann 200	
								Fann 300	74
								Fann 600	111

Comment: Prepare 50bbl high vis spacer for displacement with Rheomod L. Pump 50bbl high vis spacer and displace lines and well to ACCOLADE mud. Added barite direct to active to maintain mud weight 12.0ppg after displacement. Screened up shakers to 255's and 280's. Barite being stripped out, mud weight dropping to 11.7-11.9ppg. Screened down shakers to 215's to control mud weight at 12.0ppg. Added LE Supermul to active to ensure barite oil wet. Downhole losses in Latrobe formation of 10-20bbl/hr. Treated by direct addition of Steelseal, Circal 60/16 and Omyacarb 5 to active. Prepare 400bbl SBM premix using Base oil/Brine.

Bit # 4

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	13.50in	IADC#	M422	No.	Size	Progress	689.0m	Cum. Progress	689.0m
Mfr:	REED	WOB(avg)	25.00klb	3	16/32nd"	On Bottom Hrs	12.8h	Cum. On Btm Hrs	12.8h
Type:	PDC	RPM(avg)	140	3	18/32nd"	IADC Drill Hrs	20.5h	Cum IADC Drill Hrs	20.5h
Serial No.:	219224	F.Rate	1100gpm			Total Revs	98566	Cum Total Revs	98566
Bit Model	RSX616M-A3	SPP	3375psi			ROP(avg)	53.83 m/hr	ROP(avg)	53.83 m/hr
Depth In	758.0m	HSI							
Depth Out		TFA	1.335						

Bit Comment

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BHA # 4

Weight(Wet)	34.00klb	Length	183.1m	Torque(max)	12000ft-lbs	D.C. (1) Ann Velocity	245fpm
Wt Below Jar(Wet)	15.00klb	String	170.00klb	Torque(Off.Btm)	3000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	174.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	177fpm
		Slack-Off	154.00klb			D.P. Ann Velocity	177fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.26m	13.50in		219224	
Power drive	4.21m	8.36in	3.00in	52680	
RSS Receiver Sub	1.88m	8.36in	3.00in	50566	
Flex joint	2.94m	8.13in	3.50in	49688	
ARC8	5.53m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	VC73	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
783.28	0.5	304.1	783.25	1.5	1.5	-2.7	1.0	
812.94	2.3	203.3	812.90	1.0	1.0	-3.0	8.2	
842.62	5.2	198.0	842.52	-0.8	-0.8	-3.7	9.8	
872.25	7.2	192.1	871.97	-3.9	-3.9	-4.5	7.1	
901.94	8.2	183.9	901.40	-7.9	-7.9	-5.0	5.0	
931.42	10.2	179.9	930.49	-12.6	-12.6	-5.2	7.1	
960.94	13.9	179.8	959.36	-18.7	-18.7	-5.1	12.5	
990.68	17.5	179.0	987.99	-26.8	-26.8	-5.0	12.1	
1020.40	20.9	177.5	1016.05	-36.5	-36.5	-4.7	11.6	
1050.08	24.3	176.6	1043.45	-47.9	-47.9	-4.1	11.5	
1078.64	25.7	178.4	1069.33	-60.0	-60.0	-3.6	5.6	
1108.28	26.9	180.8	1095.90	-73.1	-73.1	-3.5	5.4	
1137.39	27.6	182.4	1121.78	-86.4	-86.4	-3.9	3.5	
1166.97	28.5	183.8	1147.89	-100.3	-100.3	-4.7	3.8	
1196.40	29.5	184.6	1173.63	-114.6	-114.6	-5.7	3.6	
1225.95	30.2	185.5	1199.26	-129.2	-129.2	-7.0	2.8	
1255.99	29.8	185.5	1225.27	-144.2	-144.2	-8.4	1.3	
1285.37	30.0	186.7	1250.74	-158.7	-158.7	-10.0	2.1	
1315.16	31.1	187.9	1276.40	-173.7	-173.7	-11.9	4.2	
1344.99	31.2	187.5	1301.92	-189.0	-189.0	-14.0	0.8	
1374.68	30.4	184.9	1327.43	-204.1	-204.1	-15.6	5.2	
1404.59	30.0	183.0	1353.28	-219.2	-219.2	-16.7	3.5	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	7	0	467.0
Rig Fuel	m3	0	15	0	88.0
POTABLE WATER	MT	12	23	0	226.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	102	99	10	194.0
SOBM	m3	0	0	0	143.0

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Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	3375	560
2	National 14 P-220	6.50	1.40	97	94	3375	560
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
758.0	20	50	120	30	70	176	40	100	234
	20		120	30		176	40		234
1377.0	20	200	120	30	250	176	40	300	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	7
Seadrill	10
Seadrill Services.	43
Catering	9
Halliburton	3
Baker Hughes Inteq	5
Halliburton	2
Tamboritha	3
Q Tech	2
Schlumberger MWD/LWD	3
ROV Inspection Systems	1
Schlumberger DD	2
BHI	1
Tasman Oil Tools	2
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2514.3bbl**	**Losses**	**235.6bbl**
Active	234.0bbl	Downhole	82.6bbl
Mixing		Surf+ Equip	153.0bbl
Hole	932.3bbl	Dumped	
Slug		De-Gasser	
Reserve	991.0bbl	De-Sander	
Kill		De-Silter	
Brine	357.0bbl	Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	215/255
Shaker 3	VSM-300	215/255
Shaker 4	VSM-300	89

Comments

Marine

Weather on 30 Jun 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	25kn	320.0deg	995.0mbar	11C°	2.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2625.00klb	3.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		473.461
Potable Water	Mt		445

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				Item	Unit	Used	Quantity
				Drill Water	Mt		419
				CEMENT G	Mt		0
				Barite	Mt		42
				Bentonite	Mt		0
					bbl		452
					bbl		0
Pacific Valkyrie		10.00	On route to Geelong ETA Geelong 12.00	Item	Unit	Used	Quantity
				Rig Fuel	m3		435.04
				Potable Water	Mt		432
				Drill Water	m3		615
				CEMENT G	Mt		0
				Barite	Mt		42.5
				Bentonite	Mt		34.8
				SOBM	m3		25
					m3		101
					m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1020 / 1032	8 / 8	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 13

01 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	1720.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	1611.0m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	273.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$875,900
Rig	West Triton	Days from spud	10.94	Shoe MDBRT	750.0m	Cum Cost	AUD$20,010,400
Wtr Dpth(MSL)	57.3m	Days on well	12.63	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling 13.5in hole ahead at 1835m.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Continue to drill 13.5in hole to sectional TD at +/-2600m		

Summary of Period 0000 to 2400 Hrs

Drilled13.5in hole from 1447m - 1720m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case	1	0 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		11 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	24	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m

Operations For Period 0000 Hrs to 2400 Hrs on 01 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	2400	24.00	1720.0m	Drilled 13.5in hole from 1447m - 1720m maintaining 30 deg Inc and 183.5 deg azimuth. Parameters: Press 3250 psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Encountered hard stringers at 1447m, 1505m, 1511m, 1523m, 1536m, 1541m, 1554m, 1565m, 1586m, 1592m, 1609m, 1614m, 1633m, 1644m, 1654m, 1662m, 1684m, 1691m, 1700m, 1704m with ROP<1.5m / hour through same. Average seepage losses of 3 bbls per hour for 24 hours.

Operations For Period 0000 Hrs to 0600 Hrs on 02 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	1800.0m	Drilled 13.5in hole from 1720 - 1835m maintaining 30 deg Inc and 183.5 deg azimuth. Parameters: Press 3450 psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Encountered hard stringer at 1814 , with ROP <8m/ hour through same. Average ROP since midnight = 23.6m hour. Average seepage losses of 6 bbls per hour.

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Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 01 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	80.5	28 Jun 2008	01 Jul 2008	303.00	12.625	1720.0m

General Comments

00:00 TO 24:00 Hrs ON 01 Jul 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours =44.5 hours.

SBM Data

Cost Today AUD$ 154741

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	78sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	250717mg/l	H2O:	54%	YP	35lb/100ft²
Sample-From:	Flowline	HTHP-FL:	4.0cc/30min	Elec.Stab.:	574mV	Oil(%):	26%	PV	36cp
Time:	21:30	HTHP-cake:	1/32nd"			Sand:		O/W Ratio:	67.5/32.5
Weight:	12.10sg	CaCl mud:	24.27			LGS:	5%	Gels 10s	14
Temp:	64C°	CaCl WP:				Oil On Cut:	8%	Gels 10m	19
								Fann 003	13
								Fann 006	15
								Fann 100	39
								Fann 200	
								Fann 300	71
								Fann 600	106

Comment: Added Calcium Chloride to active to increase WPS. Continue to mix premix. Built 241bbl premix for volume. Added 0.1ppb No-sulf H2S scavenger. Added 1sx each Circal 60/16, Omyacarb 5 and Steel Seal per stand. Added Barite to active as necessary to maintain mud weight and added LE Supermul to active to ensure Barite oil wet.

Bit # 4

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	13.50in	IADC#	M422	No.	Size	Progress	273.0m	Cum. Progress	962.0m
Mfr:	REED	WOB(avg)	20.00klb	3	18/32nd"	On Bottom Hrs	16.6h	Cum. On Btm Hrs	29.4h
Type:	PDC	RPM(avg)	140	3	16/32nd"	IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	44.5h
Serial No.:	219224	F.Rate	1050gpm			Total Revs	232000	Cum Total Revs	330566
Bit Model	RSX616M-A3	SPP	3050psi			ROP(avg)	16.45 m/hr	ROP(avg)	32.72 m/hr
Depth In	758.0m	HSI							
Depth Out		TFA	1.335						

Bit Comment

BHA # 4

Weight(Wet)	34.00klb	Length	183.1m	Torque(max)	20000ft-lbs	D.C. (1) Ann Velocity	234fpm
Wt Below Jar(Wet)	15.00klb	String	182.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	195.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	169fpm
		Slack-Off	174.00klb			D.P. Ann Velocity	169fpm

BHA Run Description

BHA Run Comment

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Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.26m	13.50in		219224	
Power drive	4.21m	8.36in	3.00in	52680	
RSS Receiver Sub	1.88m	8.36in	3.00in	50566	
Flex joint	2.94m	8.13in	3.50in	49688	
ARC8	5.53m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	VC73	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
1433.94	31.7	182.3	1378.47	-231.4	-231.4	-16.2	5.9	
1463.79	30.7	181.2	1404.01	-246.9	-246.9	-16.6	3.9	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	480.0
Rig Fuel	m3	0	19	-2	81.0
POTABLE WATER	MT	12	26	0	228.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	28	0	166.0
SOBM	m3	0	100	0	43.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97	90	3050	525	1512.0	20	150	120	30	200	176	40	250	234
2	National 14 P-220	6.50	1.40	97	90	3050	525		20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97				1762.0	20	200	120	30	280	176	40	320	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	10
Seadrill Services.	47
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	3
Q Tech	2
Schlumberger MWD/LWD	3
Schlumberger DD	2

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Personnel On Board

Tasman Oil Tools	2
Schlumberger (Wireline)	8
Total	104

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	2394.2bbl
Active	272.0bbl
Mixing	
Hole	1072.2bbl
Slug	
Reserve	1050.0bbl
Kill	

Losses	191.5bbl
Downhole	72.5bbl
Surf+ Equip	91.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	28.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	215/255
Shaker 3	VSM-300	215/255
Shaker 4	VSM-300	89

Comments

Marine

Weather on 01 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	270.0deg	998.0mbar	10C°	4.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2570.00klb	4.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		408.315
Potable Water	Mt		440
Drill Water	Mt		419
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		22.00	On route to location ETA location 20.00

Item	Unit	Used	Quantity
Rig Fuel	m3		417.87
Potable Water	Mt		432
Drill Water	m3		826
CEMENT G	Mt		0
Barite	Mt		110
Bentonite	Mt		34.8
SOBM	m3		5
	m3		101
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1006 / 1021	14 / 3	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 14

02 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2031.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	1985.7m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	311.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$717,200
Rig	West Triton	Days from spud	11.94	Shoe MDBRT	750.0m	Cum Cost	AUD$20,727,600
Wtr Dpth(MSL)	57.3m	Days on well	13.63	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	39.9m	Planned TD MD	5822.0m	Current Op @ 0600	POOH with BHA.		
RT-ML	97.2m	Planned TD TVDRT	2702.0m	Planned Op	Change out Powerdrive, RIH and drill 13.5in hole to sectional TD at +/-2590m.		

Summary of Period 0000 to 2400 Hrs

Drilled 13.5in hole to 2031m. Unable to hold angle at 30 degrees. Circulated hole clean. POOH to change out Powerdrive.
Lost 1.5 hours due to top drive RPM fault and 1 hour for cyber chair camera being inoperable.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at 10.30 hours.	Rig alarms activated.
First Aid Case	1	1 Day	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		12 Days	Near miss - Roustabout stepped into open grating.	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into a hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	25	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m
Kipper Shale	1755.00m

Operations For Period 0000 Hrs to 2400 Hrs on 02 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0930	9.50	1928.0m	Drilled 13.5in hole from 1720m to 1928m maintaining 30 deg Inc and 183.5 deg azimuth. Parameters: Press 3450 psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
P11	TP (RE)	G11	0930	1030	1.00	1928.0m	Camera screen on cyber system out of action. Circulated and worked string while repairing same.
P11	P	D4	1030	1730	7.00	2017.0m	Drilled 13.5in hole from 1928m to 2017 while maintaining 30 deg Inc and 183.5 deg azimuth. Inclination dropping at 1938m. Parameters: Press 3900psi, GPM 1125, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
P11	TP (RE)	G11	1730	1900	1.50	2017.0m	Trouble shot top drive rotating problems. RPM on top drive increasing and decreasing when increasing WOB and bringing mud pumps online. Placed 4 generators on line.
P11	P	D4	1900	1930	0.50	2031.0m	Drilled 13.5in hole from 2017 to 2031m Tried to maintain30 deg Inc and 183.5 deg azimuth. Inclination dropped down to 27.26 degrees. Varied drilling parameters to assist with holding angle, no success.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Parameters: Press 3950 psi, GPM 1200, WOB 10-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 6 bbls per hour.
P11	P	F4	1930	2130	2.00	2031.0m	Circulated hole clean.
P11	P	G8	2130	2400	2.50	2031.0m	Flow checked, POOH wet to 1881m, pumped 30 bbl/s 14.2 ppg slug, continued POOH to 1724m. Hole in good condition.

Operations For Period 0000 Hrs to 0600 Hrs on 03 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G8	0000	0530	5.50	2031.0m	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior to BHA being at BOP'S.
P11	P	G6	0530	0600	0.50	2031.0m	POOH with BHA, removed RA source from ADN tool.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 02 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	104.5	28 Jun 2008	02 Jul 2008	327.00	13.625	2031.0m

General Comments

00:00 TO 24:00 Hrs ON 02 Jul 2008

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours =72 hours.
Operational Comments	Unable to offload work boats due to sea state and high winds for the 24 hour period.

SBM Data

Cost Today AUD$ 14214

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	72sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281581mg/l	H2O:	24%	YP	34lb/100ft²
Sample-From:		HTHP-FL:	3.0cc/30min	Elec.Stab.:	546mV	Oil(%):	56%	PV	38cp
Time:	21:30	HTHP-cake:	1/32nd"			Sand:		O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	32.03			LGS:	6%	Gels 10s	14
Temp:	67C°	CaCl WP:				Oil On Cut:	8%	Gels 10m	19
								Fann 003	13
								Fann 006	15
								Fann 100	39
								Fann 200	
								Fann 300	72
								Fann 600	110

Comment: Weighted 235bbl premix with Barite to 10.6ppg to allow addition to active without reduction in mud weight. Continue to add 1sx each of Steel Seal, Circal 60/16 and Omyacarb 5 eah stand and increased rate of additon to every 30 minutes as required. Prepared 285bbl premix with base oil/Brine for volume. Prepared HW slug for POOH. No dynamic losses prior to POOH. Upgraded shaker #4 to 145/215 mesh to aid solids control.

Bit # 4

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	REED	WOB(avg)	20.00klb	No.	Size	Progress	311.0m	Cum. Progress	1273.0m
Type:	PDC	RPM(avg)	140	3	18/32nd"	On Bottom Hrs	17.0h	Cum. On Btm Hrs	46.4h
Serial No.:	219224	F.Rate	1050gpm	3	16/32nd"	IADC Drill Hrs	18.5h	Cum IADC Drill Hrs	63.0h
Bit Model	RSX616M-A3	SPP	3650psi			Total Revs	348895	Cum Total Revs	679461
Depth In	758.0m	HSI				ROP(avg)	18.29 m/hr	ROP(avg)	27.44 m/hr
Depth Out	2031.0m	TFA	1.335						

Bit Comment

BHA # 4

Weight(Wet)	34.00klb	Length	183.1m	Torque(max)	20000ft-lbs	D.C. (1) Ann Velocity	234fpm
Wt Below Jar(Wet)	15.00klb	String	200.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	220.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	169fpm
		Slack-Off	198.00klb			D.P. Ann Velocity	169fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.26m	13.50in		219224	
Power drive	4.21m	8.36in	3.00in	52680	
RSS Receiver Sub	1.88m	8.36in	3.00in	50566	
Flex joint	2.94m	8.13in	3.50in	49688	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ARC8	5.53m	8.63in	4.38in	1815	
ADN 8	6.57m	8.63in	3.00in	VC73	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
			0.00	0.0	0.0	0.0	0.0	
1493.62	30.0	180.7	1429.75	-267.3	-267.3	-18.2	2.5	
1523.35	30.1	180.6	1455.48	-282.1	-282.1	-18.4	0.4	
1553.11	30.4	181.8	1481.19	-297.1	-297.1	-18.7	2.3	
1583.05	30.3	183.4	1507.03	-312.2	-312.2	-19.4	2.7	
1612.84	30.3	184.1	1532.75	-327.2	-327.2	-20.3	1.2	
1642.12	30.5	183.5	1558.00	-342.0	-342.0	-21.3	1.2	
1671.81	30.2	182.8	1583.62	-357.0	-357.0	-22.1	1.6	
1701.38	30.0	182.0	1609.20	-371.8	-371.8	-22.8	1.5	
1730.84	30.5	182.2	1634.65	-386.7	-386.7	-23.3	1.7	
1760.64	30.4	183.2	1660.34	-401.7	-401.7	-24.0	1.7	
1790.34	29.8	183.5	1686.04	-416.6	-416.6	-24.9	2.1	
1820.04	29.1	183.3	1711.90	-431.2	-431.2	-25.8	2.4	
1849.86	28.1	182.8	1738.08	-445.4	-445.4	-26.5	3.4	
1879.39	28.5	182.5	1764.08	-459.4	-459.4	-27.2	1.4	
1909.08	29.2	181.9	1790.09	-473.7	-473.7	-27.7	2.6	
1938.97	29.3	182.4	1816.17	-488.3	-488.3	-28.3	0.9	
1968.51	28.8	181.6	1841.99	-502.7	-502.7	-28.8	2.1	
1998.05	27.3	181.7	1868.06	-516.6	-516.6	-29.2	5.1	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	480.0

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Printed on 02 Jul 2008

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	50	10	0	121.0
POTABLE WATER	MT	12	25	0	215.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	16	0	150.0
SOBM	m3	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	3950	600
2	National 14 P-220	6.50	1.40	97	94	3950	600
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1928.0	20	180	120	30	200	176	40	290	234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	10
Seadrill Services.	47
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	3
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Total	103

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2482.5bbl**
Active	321.0bbl
Mixing	
Hole	1250.5bbl
Slug	
Reserve	911.0bbl
Kill	

Losses	**212.7bbl**
Downhole	91.7bbl
Surf+ Equip	102.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	19.0bbl

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255/280	
Shaker 2	VSM-300	215/255	
Shaker 3	VSM-300	215/255	
Shaker 4	VSM-300	145/215	

Marine

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Weather on 02 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	35kn	270.0deg	1010.0mbar	10C°	4.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2502.00klb	4.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		399.759
Potable Water	Mt		435
Drill Water	Mt		419
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	18.15		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		396.45
Potable Water	Mt		447
Drill Water	m3		826
CEMENT G	Mt		0
Barite	Mt		110
Bentonite	Mt		34.8
SOBM	m3		5
	m3		101
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1024 / 1038	0 / 0	Aircraft landed, unloaded and reloaded luggage but did not disembark or embark any pax.
BWJ2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1408 / 1435	12 / 13	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 15

03 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2049.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	1913.7m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	18.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$995,000
Rig	West Triton	Days from spud	12.94	Shoe MDBRT	750.0m	Cum Cost	AUD$21,722,600
Wtr Dpth(MSL)	56.0m	Days on well	14.63	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.4m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling 13.5in hole ahead at 2270m.		
RT-ML	96.4m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13.5in hole to sectional TD at +/- 2590m.		

Summary of Period 0000 to 2400 Hrs

POOH, laid out BHA, picked up and made up BHA#5 and RIH to 1960m. Logged down from 1960m -1989m and washed down to bottom. No fill. Drilled 13.5in hole from 2031m - 2049m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at 10.30 hours.	Rig alarms activated.
First Aid Case	1	2 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		13 Days	Near miss - Roustabout stepped into open grating.	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into a hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		7 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	19	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip Drill.	Held trip drill while RIH, good reaction time by drill crew.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m
Kipper Shale	1755.00m

Operations For Period 0000 Hrs to 2400 Hrs on 03 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G8	0000	0530	5.50	2031.0m	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior to BHA being at BOP'S.
P11	P	G7	0530	0630	1.00	2031.0m	POOH with BHA and removed RA source from ADN tool.
P11	P	G7	0630	0730	1.00	2031.0m	Made up single, pup joint and x/o to rack back ADN-8. Down loaded data from ADN-8 but unable to initiate.
P11	P	G7	0730	1030	3.00	2031.0m	Laid out 13.5in BHA including ADN-8 - unable to be initiated.
P11	P	G7	1030	1400	3.50	2031.0m	Made up bit #5, picked up and made up 13.5in steerable drilling assembly and RIH to 30.68m.
P11	P	G7	1400	1430	0.50	2031.0m	Shallow tested Power Drive at 800 GPM, 1000psi: good test.
P11	P	G7	1430	1500	0.50	2031.0m	Loaded RA source into ADN.
P11	P	G7	1500	1530	0.50	2031.0m	RIH with BHA to 87.54m.
P11	P	G7	1530	1600	0.50	2031.0m	Shallow tested ADN at 800 GPM, 1100psi: good test.
P11	P	G8	1600	1700	1.00	2031.0m	Continued to RIH with BHA to 184m.
P11	P	G8	1700	2130	4.50	2031.0m	RIH with 5.5in drill pipe to 1960m. Hole good.
P11	P	F1	2130	2230	1.00	2031.0m	Logged down from 1960m - 1989m. With 1000 gpm, 3180 psi, 60 RPM. Washed down to bottom. No fill.
P11	P	D4	2230	2400	1.50	2049.0m	Took SCR's and drilled 13.5in hole from 2031 - 2049m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Built angle to 31 deg Inc and 183.80 deg azimuth. Parameters: Press 3900 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	2270.0m	Drilled 13.5in hole from 2049m - 2270m. Maintained 31 deg Inc and 183.80 deg azimuth. Survey @ 2206.21m, Inc 31.48 degrees, 183.82 deg azimuth, TVD 2049.30m. Parameters: Press 4000 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 03 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	128.5	28 Jun 2008	03 Jul 2008	351.00	14.625	2049.0m

General Comments

00:00 TO 24:00 Hrs ON 03 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours =73.5 hours.
Operational Comments	Unable to offload work boats due to sea state and high winds for 20 hours.

SBM Data

Cost Today AUD$ 13315

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	126sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281581mg/l	H2O:	24%	YP	34lb/100ft²
Sample-From:		HTHP-FL:	3.0cc/30min	Elec.Stab.:	546mV	Oil(%):	56%	PV	38cp
Time:	20:00	HTHP-cake:	1/32nd"			Sand:	0.2	O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	32.03			LGS:	6%	Gels 10s	14
Temp:	30C°	CaCl WP:				Oil On Cut:	8%	Gels 10m	19
								Fann 003	13
								Fann 006	15
								Fann 100	39
								Fann 200	
								Fann 300	72
								Fann 600	110

Comment	Continue to mix premix in pit 7 for volume. Base Oil volumes: Rig 270bbl, Valkyrie: 635bbl, Battler 440bbl.

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Bit # 4

Wear	I	O1	D	L	B	G	O2	R
	2	4	CT	A	X	I	WT	BHA

Bitwear Comments:

Size (''):	13.50in	IADC#	M422	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	20.00klb	No.	Size	Progress	0.0m	Cum. Progress	1273.0m
Type:	PDC	RPM(avg)	140	3	18/32nd''	On Bottom Hrs	0.0h	Cum. On Btm Hrs	46.4h
Serial No.:	219224	F.Rate	1050gpm	3	16/32nd''	IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	63.0h
Bit Model	RSX616M-A3	SPP	3650psi			Total Revs	348895	Cum Total Revs	1028356
Depth In	758.0m	HSI				ROP(avg)	N/A	ROP(avg)	27.44 m/hr
Depth Out	2031.0m	TFA	1.335						

Bit Comment

Bit # 5

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size (''):	13.50in	IADC#	M422	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	Smith Bits	WOB(avg)	15.00klb	No.	Size	Progress	18.0m	Cum. Progress	18.0m
Type:	PDC	RPM(avg)	150	2	20/32nd''	On Bottom Hrs	0.8h	Cum. On Btm Hrs	0.8h
Serial No.:	JY2593	F.Rate	1200gpm	3	18/32nd''	IADC Drill Hrs	1.5h	Cum IADC Drill Hrs	1.5h
Bit Model	M516LSPX	SPP	3700psi			Total Revs	13500	Cum Total Revs	13500
Depth In	2031.0m	HSI				ROP(avg)	22.50 m/hr	ROP(avg)	22.50 m/hr
Depth Out		TFA	1.359						

Bit Comment

BHA # 5

Weight(Wet)	34.00klb	Length	184.0m	Torque(max)	15000ft-lbs	D.C. (1) Ann Velocity	267fpm
Wt Below Jar(Wet)	15.00klb	String	200.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	220.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	193fpm
		Slack-Off	198.00klb			D.P. Ann Velocity	193fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m	13.50in		JY2593	
Power drive	4.24m	8.36in	3.00in	50240	
RSS Receiver Sub	1.88m	8.36in	3.00in	49246	
Flex joint	2.95m	8.13in	3.50in	509.04	
ARC8	6.37m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	43150	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	480.0
Rig Fuel	m3	0	13	0	108.0
POTABLE WATER	MT	12	28	0	199.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	150.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
SOBM	m3	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	4000	600
2	National 14 P-220	6.50	1.40	97	94	3950	600
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2045.0	20	100	120	30	150	176	40	200	234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	1
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Cameron	1
Total	104

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2447.5bbl**	**Losses**	**47.9bbl**
Active	273.0bbl	Downhole	43.9bbl
Mixing		Surf+ Equip	4.0bbl
Hole	1234.5bbl	Dumped	
Slug		De-Gasser	
Reserve	940.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255/280	
Shaker 1	VSM-300	255/280	
Shaker 2	VSM-300	215/255	
Shaker 2	VSM-300	215/255	
Shaker 3	VSM-300	215/255	
Shaker 3	VSM-300	215/255	
Shaker 4	VSM-300	145/215	
Shaker 4	VSM-300	145/215	

Marine

Weather on 03 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	270.0deg	1024.0mbar	10C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2461.00klb	1.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler		00.15	Underway to Wharf 27 for christmas tree.	

Item	Unit	Used	Quantity
Rig Fuel	m3		391.261
Potable Water	Mt		430
Drill Water	Mt		419
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
	bbl		452
	bbl		0

Pacific Valkyrie			On location.	

Item	Unit	Used	Quantity
Rig Fuel	m3		385.98
Potable Water	Mt		442
Drill Water	m3		826
CEMENT G	Mt		0
Barite	Mt		110
Bentonite	Mt		34.8
SOBM	m3		5
	m3		101
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1036 / 1047	7 / 6	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 15

03 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2049.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	1913.7m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	18.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	12.94	Shoe MDBRT	750.0m	Cum Cost	AUD$10,449,100
Wtr Dpth(MSL)	56.0m	Days on well	14.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.4m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling 13 1/2" hole ahead at 2270m.		
RT-ML	96.4m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13 1/2" hole to sectional TD at +/- 2600m.		

Summary of Period 0000 to 2400 Hrs

POOH, Laid out BHA, picked up and made BHA#5, RIH to 1960m. Logged down from 1960m -1989m, washed down to bottom. No Fill. Drilled 13 1/2" hole from 2031m - 2049m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case	1	2 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		13 Days	Near miss - Roustabout stepped into open grating	A roustabout was removing chains and fastenings from equipment on the portside of the cantilever deck walkway when he walked into an open hatch which had been left open. He managed to stop himself falling through to the next level.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		7 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	19	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip Drill	Held trip drill while RIH, good reaction time by drill crew.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m
Kipper Shale	1755.00m

Operations For Period 0000 Hrs to 2400 Hrs on 03 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G8	0000	0530	5.50	2031.0m	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior to BHA being at BOP'S.
P11	P	G6	0530	0630	1.00	2031.0m	POOH with BHA, removed RA source from ADN tool.
P11	P	G6	0630	0730	1.00	2031.0m	M/up single, pup joint and x/o to rack back ADN-8. Down loaded data from ADN-8 but unable to initiate.
P11	P	G6	0730	1030	3.00	2031.0m	Laid out 13 1/2" BHA including ADN-8 - unable to be initiated.
P11	P	G6	1030	1400	3.50	2031.0m	Made up bit #5 and picked up and made up 13 1/2" steerable drilling assembly and RIH to 30.68m.
P11	P	G6	1400	1430	0.50	2031.0m	Shallow tested Power Drive AT 800 GPM, 1000psi. Good test.
P11	P	G6	1430	1500	0.50	2031.0m	Load RA source into ADN.
P11	P	G6	1500	1530	0.50	2031.0m	RIH with BHA to 87.54m.
P11	P	G6	1530	1600	0.50	2031.0m	Shallow tested ADN AT 800 GPM, 1100psi. Good test.
P11	P	G8	1600	1700	1.00	2031.0m	Continued to RIH with BHA to 184m.
P11	P	G8	1700	2130	4.50	2031.0m	RIH with 5 1/2" drill pipe to 1960m. Hole good.
P11	P	F1	2130	2230	1.00	2031.0m	Logged down from 1960m - 1989m. With1000 gpm, 3180psi, 60rpm. Washed down to bottom. No Fill.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	2230	2400	1.50	2049.0m	Take SCR's and Drilled 13 1/2" hole from 2031 - 2049m. Building angle to 31 deg Inc and 183.80 deg azimuth. Parameters: Press 3900 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	2270.0m	Drilled 13 1/2" hole from 2049m - 2270m. Maintaining 31 deg Inc and 183.80 deg azimuth. Survey @ 2206.21m Inc 31.48 degrees, Azi 183.82, TVD 2049.30m. Parameters: Press 4000 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 03 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	96.5	30 Jun 2008	03 Jul 2008	351.50	14.646	2049.0m

General Comments

00:00 TO 24:00 Hrs ON 03 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours =73.5 hours.
Operational Comments	Unable to offload work boats due to sea state and high winds for 20 hours.

SBM Data — Cost Today AUD$ 13315

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	126sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281581mg/l	H2O:	24%	YP	34lb/100ft²
Sample-From:		HTHP-FL:	3.0cc/30min	Elec.Stab.:	546mV	Oil(%):	56%	PV	38cp
Time:	20:00	HTHP-cake:	1/32nd"			Sand:	0.2	O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	32.03			LGS:	6%	Gels 10s	14
Temp:	30C°	CaCl WP:				Oil On Cut:	8%	Gels 10m	19
								Fann 003	13
								Fann 006	15
								Fann 100	39
								Fann 200	
								Fann 300	72
								Fann 600	110

Comment	Continue to mix premix in pit 7 for volume. Base Oil volumes: Rig 270bbl, Valkyrie: 635bbl, Battler 440bbl.

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Bit # 4

Wear	I	O1	D	L	B	G	O2	R
	2	4	CT	A	X	I	WT	BHA

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	20.00klb	No.	Size	Progress	0.0m	Cum. Progress	1273.0m
Type:	PDC	RPM(avg)	140	3	16/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	46.4h
Serial No.:	219224	F.Rate	1050gpm	3	18/32nd"	IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	63.0h
Bit Model	RSX616M-A3	SPP	3650psi			Total Revs	348895	Cum Total Revs	1028356
Depth In	758.0m	HSI				ROP(avg)	N/A	ROP(avg)	27.44 m/hr
Depth Out	2031.0m	TFA	1.335						

Bit Comment

Bit # 5

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	Smith Bits	WOB(avg)	15.00klb	No.	Size	Progress	18.0m	Cum. Progress	18.0m
Type:	PDC	RPM(avg)	150	2	20/32nd"	On Bottom Hrs	0.8h	Cum. On Btm Hrs	0.8h
Serial No.:	JY2593	F.Rate	1200gpm	3	18/32nd"	IADC Drill Hrs	1.5h	Cum IADC Drill Hrs	1.5h
Bit Model	M516LSPX	SPP	3700psi			Total Revs	13500	Cum Total Revs	13500
Depth In	2031.0m	HSI				ROP(avg)	22.50 m/hr	ROP(avg)	22.50 m/hr
Depth Out		TFA	1.359						

Bit Comment

BHA # 5

Weight(Wet)	34.00klb	Length	184.0m	Torque(max)	15000ft-lbs	D.C. (1) Ann Velocity	267fpm
Wt Below Jar(Wet)	15.00klb	String	200.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	220.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	193fpm
		Slack-Off	198.00klb			D.P. Ann Velocity	193fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m	13.50in		JY2593	
Power drive	4.24m	8.36in	3.00in	50240	
RSS Receiver Sub	1.88m	8.36in	3.00in	49246	
Flex joint	2.95m	8.13in	3.50in	509.04	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ARC8	6.37m	8.63in	4.38in	1815	
ADN 8	6.57m	8.63in	3.00in	43150	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	467.0
Rig Fuel	m3	0	13	0	94.0
POTABLE WATER	MT	12	28	0	183.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	150.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
SOBM	m3	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	4000	600
2	National 14 P-220	6.50	1.40	97	94	3950	600
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2045.0	20	100	120	30	150	176	40	200	234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	1
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Cameron	1
Total	104

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2447.5bbl**	**Losses**	**47.9bbl**
Active	273.0bbl	Downhole	43.9bbl
Mixing		Surf+ Equip	4.0bbl
Hole	1234.5bbl	Dumped	
Slug		De-Gasser	
Reserve	940.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	215/255
Shaker 3	VSM-300	215/255
Shaker 4	VSM-300	145/215

Comments

Marine

Weather on 03 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	270.0deg	1024.0mbar	10C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2461.00klb	1.0m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler		00.15	Underway to Wharf 27 for christmas tree.	

Item	Unit	Used	Quantity
Rig Fuel	m3		391.261
Potable Water	Mt		430
Drill Water	Mt		419
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
	bbl		452
	bbl		0

Pacific Valkyrie			On location.	

Item	Unit	Used	Quantity
Rig Fuel	m3		385.98
Potable Water	Mt		442
Drill Water	m3		826
CEMENT G	Mt		0
Barite	Mt		110
Bentonite	Mt		34.8
SOBM	m3		5
	m3		101
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1036 / 1047	7 / 6	

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DRILLING MORNING REPORT # 16

04 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2405.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2215.4m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	356.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	13.94	Shoe MDBRT	750.0m	Cum Cost	AUD$11,099,100
Wtr Dpth(MSL)	56.7m	Days on well	15.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.3m	Planned TD MD	5822.0m	Current Op @ 0600	Completing repairs to leak on stand pipe #1 - preparing to go drilling.		
RT-ML	97.0m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13 1/2" hole to sectional TD at 2600m +/-. Circulate hole clean. POOH. Rig up to run wireline logs.		

Summary of Period 0000 to 2400 Hrs

Drilled 13 1/2" hole to 2346m. Changed out kelly hose from stand pipe #2 to #1. Drilled 13 1/2" hole to 2405m. Repair leak on stand pipe #1, While circulating throught SES and cement line and work string up and down 3-4 meters.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		7 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		3 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident	1	0 Days	Derrickman slipped and buped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		8 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Sunday .
STOP Card	35	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m
Kipper Shale	1755.00m
Admiral Formation.	2186.00m

Operations For Period 0000 Hrs to 2400 Hrs on 04 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0900	9.00	2346.0m	Drilled 13.5in hole from 2049m - 2346m. Maintained 31 deg Inc and 183.80 deg azimuth to 2316m Kick of at 2316m bluiding Inc to 35.92, Azi 185.22. Parameters: Press 4100 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ 11-20k ft-lbs. Average seepage losses of 3 bbls per hour.
P11	TP (RE)	D4	0900	1100	2.00	2346.0m	Stand pipe manifold leaking at connection to stand pipe. POOH 1 stand, circulated bottoms up at 700gpm, 1800psi. While preparing tools and equipment for moving kelly hose to stand pipe #1.
P11	TP (RE)	D4	1100	1430	3.50	2346.0m	Removed kelly hose and MWD pressure sensor from stand pipe #2 and installed same on standpipe #1.
P11	P	D4	1430	1630	2.00	2405.0m	Drilled 13 1/2" hole from 2304m - 2405m. Inc at 35.92, Azi 185.28

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Parameters: Press 4100 psi, GPM 1150, WOB 15-25 klbs, RPM 80-150, TQ13-21k ft-lbs.
P11	TP (RE)	D4	1630	1830	2.00	2405.0m	Attempted to POOH 5 stands, 25k overpull and swabbing on first stand. Rigged up side entry sub and cement hose. Circiulate at 700 gpm at 3060psi.
P11	TP (RE)	D4	1830	2400	5.50	2405.0m	Repair leak on stand pipe #1. While circiulating at 700 gpm at 3060psi, work string up and down every 20 minutes 3-4 meters.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	TP (RE)	D4	0000	0300	3.00	2405.0m	Repair leak on stand pipe #1. While circiulating at 365 gpm at 2000psi, work string up and down every 20 minutes 3-4 meters.
P11	TP (RE)	D4	0300	0600	3.00	2405.0m	Tested stand pipe connection 4500 psi, rigged down cement hose, install bull plug onto SES and circulate and work string at 365 GPM, 2000 PSI, 20 RPM. While tightening up retaining clamps on stand pipe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 04 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	120.5	30 Jun 2008	04 Jul 2008	375.50	15.646	2405.0m

General Comments

00:00 TO 24:00 Hrs ON 04 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Communication from driller to crew on drill floor inadequate. 5) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 83 hours.

SBM Data

Cost Today AUD$ 20696

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	78sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	255127mg/l	H2O:	24%	YP	38lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.0cc/30min	Elec.Stab.:	465mV	Oil(%):	56%	PV	41cp
Time:	22:00	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	28.81			LGS:	6%	Gels 10s	16
Temp:	70C°	CaCl WP:				Oil On Cut:	9%	Gels 10m	19
								Fann 003	14
								Fann 006	16
								Fann 100	42
								Fann 200	
								Fann 300	79
								Fann 600	120

Comment: Weighted 250bbl premix with Barite to 12.0ppg to allow addition to active without reduction in mud weight. Increase in LGS indicative of damaged shaker screens. Immediately checked all screens and replaced damaged screens. 4x280mesh, 2x215mesh. Recieved 75MT Barite and 460bbl Base Oil.

Bit # 5

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	Smith Bits	WOB(avg)	15.00klb	No.	Size	Progress	356.0m	Cum. Progress	374.0m
Type:	PDC	RPM(avg)	150	2	20/32nd"	On Bottom Hrs	6.8h	Cum. On Btm Hrs	7.6h
Serial No.:	JY2593	F.Rate	1200gpm	3	18/32nd"	IADC Drill Hrs	12.0h	Cum IADC Drill Hrs	13.5h
Bit Model	M516LSPX	SPP	3700psi			Total Revs	59396	Cum Total Revs	72896
Depth In	2031.0m	HSI				ROP(avg)	52.35 m/hr	ROP(avg)	49.21 m/hr
Depth Out		TFA	1.359						

Bit Comment

BHA # 5

Weight(Wet)	34.00klb	Length	184.0m	Torque(max)	21000ft-lbs	D.C. (1) Ann Velocity	267fpm
Wt Below Jar(Wet)	15.00klb	String	214.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	242.00klb	Torque(On.Btm)	11000ft-lbs	H.W.D.P. Ann Velocity	193fpm
		Slack-Off	200.00klb			D.P. Ann Velocity	193fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m	13.50in		JY2593	
Power drive	4.24m	8.36in	3.00in	50240	
RSS Receiver Sub	1.88m	8.36in	3.00in	49246	
Flex joint	2.95m	8.13in	3.50in	509.04	
ARC8	6.37m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	43150	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
2028.03	27.0	181.7	1894.74	-527.7	-527.7	-29.5	1.0	
2057.68	29.0	184.8	1920.92	-541.6	-541.6	-30.3	8.3	
2087.27	29.6	188.0	1946.72	-556.0	-556.0	-31.9	5.7	
2116.78	29.6	188.0	1972.38	-570.4	-570.4	-33.9	0.0	
2146.82	31.0	187.1	1998.32	-585.4	-585.4	-35.9	4.9	
2176.36	31.8	185.6	2023.53	-600.7	-600.7	-37.6	3.8	
2206.21	31.5	183.8	2048.94	-616.3	-616.3	-38.9	3.3	
2235.88	31.4	183.4	2074.25	-631.8	-631.8	-39.9	0.8	
2265.38	32.1	184.6	2099.34	-647.3	-647.3	-41.0	3.2	
2295.93	31.7	185.0	2125.28	-663.3	-663.3	-42.3	1.5	
2325.11	33.2	184.8	2149.90	-678.9	-678.9	-43.6	5.2	
2355.31	35.9	185.3	2174.77	-696.0	-696.0	-45.2	9.0	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	467.0
Rig Fuel	m3	135	15	0	214.0
POTABLE WATER	MT	220	29	0	374.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	75	0	0	225.0
SOBM	m3	84	0	0	127.0

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Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	4000	600
2	National 14 P-220	6.50	1.40	97	94	3950	600
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2346.0	20	200	120	30	210	176	40	290	234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	1
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Cameron	1
Weatherford	6
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2392.3bbl**
Active	288.0bbl
Mixing	
Hole	1424.3bbl
Slug	
Reserve	680.0bbl
Kill	

Losses	**114.6bbl**
Downhole	8.6bbl
Surf+ Equip	106.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	215/255
Shaker 2	VSM-300	215/280
Shaker 3	VSM-300	215/280
Shaker 4	VSM-300	145/215

Comments

Marine

Weather on 04 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	270.0deg	1027.0mbar	11C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2874.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		00.15	Underway to Wharf 27 for christmas tree.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		367.616
Potable Water	Mt		425

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				Item	Unit	Used	Quantity
				Drill Water	Mt		350
				CEMENT G	Mt		0
				Barite	Mt		84
				Bentonite	Mt		0
					bbl		452
					bbl		0

				Item	Unit	Used	Quantity
Pacific Valkyrie			On location.	Rig Fuel	m3		224.01
				Potable Water	Mt		237
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		35
				Bentonite	Mt		34.8
				SOBM	m3		5
					m3		13
					m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1500 / 1536	8 / 3	
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1032 / 1040	3 / 2	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 17

05 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2463.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2259.8m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	48.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	14.94	Shoe MDBRT	750.0m	Cum Cost	AUD$11,749,100
Wtr Dpth(MSL)	56.7m	Days on well	16.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.3m	Planned TD MD	5822.0m	Current Op @ 0600	Circulating up sample at 2600m.		
RT-ML	97.0m	Planned TD TVDRT	2702.0m	Planned Op	Drill 13 1/2" hole to sectional TD at 2600m +/-Circulate hole clean, POOH and rig up and run wireline logs.		

Summary of Period 0000 to 2400 Hrs

Repaired leak on stand pipe manifold to stand pipe #1. Drilled 13 1/2" hole from 2405m - 2434m. Repaired leaking connection on stand pipe maniflod to stand pipe #1 and #2. Drilled 13 1/2" hole from 2434m - 2463m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		8 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		4 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident	1	1 Day	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	21	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	24	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Latrobe	1291.00m
Un-named Volcanics	1695.00m
Chimaera	1710.00m
Kipper Shale	1755.00m
Admiral Formation.	2186.00m

Operations For Period 0000 Hrs to 2400 Hrs on 05 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	TP (RE)	D4	0000	0300	3.00	2405.0m	Repaired leak on stand pipe #1 while circiulating at 365 gpm at 2000psi.Worked string up and down every 20 minutes 3-4 meters.
P11	TP (RE)	D4	0300	0600	3.00	2405.0m	Tested stand pipe connection 4500 psi, rigged down cement hose. Installed bull plug onto SES. Circulated and worked string at 365 GPM, 2000 PSI, 20 RPM while tightening up retaining clamps on stand pipe. Rigged down cement hose and SES.
P11	P	D4	0600	0730	1.50	2434.0m	Drilled 13 1/2" hole from 2405 - 2434m.
P11	TP (RE)	D4	0730	2230	15.00	2434.0m	Connection on stand pipe manifold to stand pipe #1 leaking. Rigged up side entry sub and circulated at 365 gpm at 2000psi - worked string up and down every 20 minutes 3-4 meters. Loosened clamps on stand pipe and lifted same, found connection on stand pipe #1 washed out. Loosened clamps on stand pipe #2 and lifted same, changed seal and tightened clamps on stand pipe. Changed over kelly hose and Schlumberger pressure sensor from stand pipe #1 to #2. Rigged down cement line and SES.
P11	TP (RE)	F1	2230	2300	0.50	2434.0m	Washed and reamed to bottom from 2400m no fill.
P11	P	D4	2300	2400	1.00	2463.0m	Drilled 13 1/2" hole from 2434 - 2463m.

Operations For Period 0000 Hrs to 0600 Hrs on 06 Jul 2008

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Australian Drilling Associates Pty Ltd ADA

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	2600.0m	Drilled 13.5in hole from 2463m -2600m as per geologist instructions, building angle as per directional plan. (Survey @ 2561.19 MD, 2327.40 TVD 50.89 Inc 182.57 AZ.) Parameters: Press 3950psi, GPM 1070, WOB 15-25 klbs, RPM 150, TQ 11-21k ft-lbs. Max Gas at 2508m = 3.92%. Average seepage losses since midnight at 5 bbls per hour.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 05 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	144.5	30 Jun 2008	05 Jul 2008	399.50	16.646	2463.0m

General Comments

00:00 TO 24:00 Hrs ON 05 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 84.5 hours.

SBM Data

Cost Today AUD$ 113368

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	74sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264401mg/l	H2O:	24%	YP	37lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.0cc/30min	Elec.Stab.:	574mV	Oil(%):	56%	PV	45cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	29.12			LGS:	6%	Gels 10s	115
Temp:	70C°	CaCl WP:				Oil On Cut:	7%	Gels 10m	21
								Fann 003	14
								Fann 006	16
								Fann 100	45
								Fann 200	
								Fann 300	82
								Fann 600	127

Comment	Added Circal 60/16, Omyacarb 5 and Steel Seal to active while circulating during repairs to minimize seepage losses and maintain concentrations. Prepare further 420bbl premix for volume if required or to be used on next hole section.

Bit # 5

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	Smith Bits	WOB(avg)	20.00klb	No.	Size	Progress	48.0m	Cum. Progress	422.0m
Type:	PDC	RPM(avg)	150	2	20/32nd"	On Bottom Hrs	1.2h	Cum. On Btm Hrs	8.8h
Serial No.:	JY2593	F.Rate	1050gpm	3	18/32nd"	IADC Drill Hrs	1.5h	Cum IADC Drill Hrs	15.0h
Bit Model	M516LSPX	SPP	3950psi			Total Revs	85000	Cum Total Revs	157896
Depth In	2031.0m	HSI				ROP(avg)	40.00 m/hr	ROP(avg)	47.95 m/hr
Depth Out		TFA	1.359						
Bit Comment									

BHA # 5

Weight(Wet)	34.00klb	Length	184.0m	Torque(max)	21000ft-lbs	D.C. (1) Ann Velocity	234fpm
Wt Below Jar(Wet)	15.00klb	String	214.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	242.00klb	Torque(On.Btm)	11000ft-lbs	H.W.D.P. Ann Velocity	169fpm
		Slack-Off	200.00klb			D.P. Ann Velocity	169fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m	13.50in		JY2593	
Power drive	4.24m	8.36in	3.00in	50240	
RSS Receiver Sub	1.88m	8.36in	3.00in	49246	
Flex joint	2.95m	8.13in	3.50in	509.04	
ARC8	6.37m	8.63in	4.38in	1815	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ADN 8	6.57m	8.63in	3.00in	43150	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
2385.09	36.8	184.1	2198.75	-710.7	-710.7	-45.5	3.9	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	10	0	457.0
Rig Fuel	m3	0	19	0	195.0
POTABLE WATER	MT	12	31	0	355.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	-75	150.0
SOBM	m3	0	0	0	127.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	4000	575
2	National 14 P-220	6.50	1.40	97	94	4000	575
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2346.0	20	200	120	30	210	176	40	290	234
	20		120	30		176	40		234
	20		120	30		176	40		234

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	1
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Cameron	1
Weatherford	6
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2668.7bbl**	**Losses**	**86.3bbl**	Equipment	Description	Mesh Size	Comments
Active	253.0bbl	Downhole	45.2bbl	Shaker 1	VSM-300	215/255	
Mixing		Surf+ Equip	18.1bbl	Shaker 2	VSM-300	215/280	
Hole	1443.7bbl	Dumped		Shaker 3	VSM-300	215/280	
Slug		De-Gasser		Shaker 4	VSM-300	145/215	
Reserve	972.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					
		Evaporation	23.0bbl				

Marine

Weather on 05 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	6kn	80.0deg	1016.0mbar	8C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2826.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	23.30		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		347.149
Potable Water	Mt		430
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		23.30	On route to Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		214
Potable Water	Mt		232
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8

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Item	Unit	Used	Quantity
SOBM	m3		5
	m3		13
	m3		2

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Australian Drilling Associates Pty Ltd ADA

06 Jul 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 18
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	137.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	15.94	Shoe MDBRT	750.0m	Cum Cost	AUD$12,399,100
Wtr Dpth(MSL)	56.7m	Days on well	17.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.3m	Planned TD MD	5822.0m	Current Op @ 0600	Run wire line log #1 XPT/DSI		
RT-ML	97.0m	Planned TD TVDRT	2702.0m	Planned Op	Complete logging program and rig up to run 10 3/4" casing and run same.		

Summary of Period 0000 to 2400 Hrs

Drilled to 2,600m section TD. Circulated hole clean. POOH to 1741m. Hole tight at 1741m pumped and back reamed from 1741m - 1604m. Continued POOH to 1574m - no further overpull. Circulated bottoms up at 1574m. RIH TO 1781m no excess drag. POOH - max o/pull 10k. Down load data from ADN tool.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		9 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		5 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident	1	2 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting	2	1 Day		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	33	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip drill.	Trip drill held with drilling crew, good fast, effient and safe response by drilling crew.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 06 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D4	0000	0600	6.00	2600.0m	Drilled 13.5in hole from 2463m -2600m as per geologist instructions, building angle as per directional plan. (Survey @ 2561.19 MD, 2327.40 TVD 50.89 Inc 182.57 AZ.) Parameters: Press 3950psi, GPM 1070, WOB 15-25 klbs, RPM 150, TQ 11-21k ft-lbs. Max Gas at 2508m = 3.92%. Average seepage losses since midnight at 5 bbls per hour.
P11	P	F4	0600	0800	2.00	2600.0m	Circulated up sample for Geologist and circulated hole clean.
P11	P	G8	0800	1000	2.00	2600.0m	Flow checked, POOH from 2600 - 2316m. No excess drag.
P11	P	F3	1000	1030	0.50	2600.0m	Pumped 30 bbls 14.2ppg slug and installed wiper rubber.
P11	P	G8	1030	1300	2.50	2600.0m	Continued POOH from 2316m - 1741m. Worked clear intermittent tight spots with up to 20k over pull at 2215m, 1888m, 1781m - 1752m. Encountered intermittent 20-25k over pull from 1752m - 1727m. Unable to wipe clear 1741m.
P11	P	F1	1300	1400	1.00	2600.0m	Pumped and back reamed from 1752m - 1727m with RPM 150, 3100 PSI, 1070 GPM,

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							TORQ 2 - 18k ft/lbs. Circulated bottoms up no excess cutting at shakers.
P11	P	D6	1400	1530	1.50	2600.0m	Attempted to POOH from 1727m - 1715m 20 - 25k overpull. Made up top drive and continued to pump and back ream from 1727m to 1604m with RPM 150, 3100 PSI, 1070 GPM, TORQ 2 - 18k ft/lbs.
P11	P	G8	1530	1630	1.00	2600.0m	POOH from 1604m - 1574m. Hole good. Circulated bottoms up. No excess cuttings at shakers.
P11	P	G8	1630	1730	1.00	2600.0m	RIH from 1574m - 1781m. No excess drag.
P11	P	G8	1730	2300	5.50	2600.0m	POOH from 1781m - 30m. Max over pull 10k. Flow checked at 16" casing shoe and prior to BHA at Bop's.
P11	P	G7	2300	2330	0.50	2600.0m	Removed RA source from ADN tool.
P11	P	G7	2330	2400	0.50	2600.0m	Broke off and laid out bit and down load data fom ADN. Bit Grade: 0, 0, NO, A, X, I, NO, TD

Operations For Period 0000 Hrs to 0600 Hrs on 07 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G7	0000	0030	0.50	2600.0m	Completed down loading data from ADN tool and racked back stand.
P11	P	E3	0030	0130	1.00	2600.0m	Held TBT. Rigged up Schlumberger wire line.
P11	P	E3	0130	0600	4.50	2600.0m	Picked up and made XPT/DSI tools and run log #1. RIH hole at 02.40 hrs. Logging down as per logging program taking pressure readings at:1709m, 1710m, 1862m. No responce from draw down on tool at 1862m. Commence pulling back to 1800m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 06 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	168.5	30 Jun 2008	06 Jul 2008	423.50	17.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 06 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 90.5 hours.

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Australian Drilling Associates Pty Ltd ADA

SBM Data

Cost Today AUD$ 53441

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	70sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264542mg/l	H2O:	23%	YP	35lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	547mV	Oil(%):	55%	PV	40cp
Time:	20:00	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	70.5/29.5
Weight:	12.00sg	CaCl mud:	25.24			LGS:	10%	Gels 10s	15
Temp:	45C°	CaCl WP:				Oil On Cut:	8%	Gels 10m	19
								Fann 003	12
								Fann 006	14
								Fann 100	40
								Fann 200	
								Fann 300	75
								Fann 600	115

Comment: Continue to mix premix in pit 5. Weighted 200bbl premix to 12.0ppg with Barite to build volume prior to PPOH for logging. LGS increase due to degasser pumping sand trap 1 into active system on connections. Prepare HW slug x2 in slug pit for POOH. Weighting remaining premix to 12.0ppg with Barite. Base Oil volumes: Rig 596bbl, Valkyrie 81bbl, Battler 452bbl.

Bit # 5

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	X	I	NO	TD

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	13.50in	IADC#	M422	No.	Size	Progress	137.0m	Cum. Progress	559.0m
Mfr:	Smith Bits	WOB(avg)	15.00klb	2	20/32nd"	On Bottom Hrs	4.2h	Cum. On Btm Hrs	13.0h
Type:	PDC	RPM(avg)	150	3	18/32nd"	IADC Drill Hrs	6.0h	Cum IADC Drill Hrs	21.0h
Serial No.:	JY2593	F.Rate	1200gpm			Total Revs	103825	Cum Total Revs	261721
Bit Model	M516LSPX	SPP	3700psi			ROP(avg)	32.62 m/hr	ROP(avg)	43.00 m/hr
Depth In	2031.0m	HSI							
Depth Out	2600.0m	TFA	1.359						

Bit Comment

BHA # 5

Weight(Wet)	34.00klb	Length	184.0m	Torque(max)	21000ft-lbs	D.C. (1) Ann Velocity	267fpm
Wt Below Jar(Wet)	15.00klb	String	214.00klb	Torque(Off.Btm)	7000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	242.00klb	Torque(On.Btm)	11000ft-lbs	H.W.D.P. Ann Velocity	193fpm
		Slack-Off	200.00klb			D.P. Ann Velocity	193fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m	13.50in		JY2593	
Power drive	4.24m	8.36in	3.00in	50240	
RSS Receiver Sub	1.88m	8.36in	3.00in	49246	
Flex joint	2.95m	8.13in	3.50in	509.04	
PowerPulse HF (MWD)	8.38m	8.25in	4.25in	E405	
ARC8	6.37m	8.63in	4.38in	1815	
ADN 8	6.57m	8.63in	3.00in	43150	
X/O	0.50m	8.25in	2.88in	11559	
HWDP	57.27m	7.00in	3.25in		See tally.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	7142	
HWDP	84.60m	7.00in	3.25in		See tally.

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
2413.59	37.7	183.2	2221.44	-727.9	-727.9	-46.6	3.7	
2472.44	42.6	183.0	2266.41	-765.8	-765.8	-48.6	8.3	
2502.00	45.3	182.8	2287.69	-786.2	-786.2	-49.7	9.1	
2531.76	48.6	183.2	2308.00	-808.0	-808.0	-50.8	11.1	
2561.19	50.9	182.6	2327.02	-830.4	-830.4	-51.9	8.0	
2578.22	52.5	183.0	2337.57	-843.7	-843.7	-52.6	9.6	

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	9	0	448.0
Rig Fuel	m3	0	19	0	176.0
POTABLE WATER	MT	12	31	0	336.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	30	50	170.0
SOBM	m3	0	41	0	86.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97	94	4000	575
2	National 14 P-220	6.50	1.40	97	94	4000	575
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2523.0	20	220	120	30	300	176	40	380	234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	1
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	8
Cameron	1
Weatherford	6
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2704.3bbl**
Active	213.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	792.0bbl
Kill	

Losses	**94.5bbl**
Downhole	39.5bbl
Surf+ Equip	55.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	215/255
Shaker 2	VSM-300	215/280
Shaker 3	VSM-300	215/280
Shaker 4	VSM-300	145/215

Comments

Marine

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Weather on 06 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	0.0deg	1012.0mbar	11C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2826.00klb	0.7m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	23.30 05-07-08		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		338.261
Potable Water	Mt		415
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	22.50 06-07-08	23.30: 5-07-08	Along side Cario quay No3.

Item	Unit	Used	Quantity
Rig Fuel	m3		192.39
Potable Water	Mt		227
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
	m3		13
	m3		2

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Australian Drilling Associates Pty Ltd ADA

07 Jul 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 19
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$839,100
Rig	West Triton	Days from spud	16.94	Shoe MDBRT	750.0m	Cum Cost	AUD$24,901,400
Wtr Dpth (LAT)	55.968m	Days on well	18.63	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Run log #3 SWC.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Complete logging program and conduct wiper trip prior to running casing.		

Summary of Period 0000 to 2400 Hrs

Racked back BHA. Rigged up Schlumberger wireline and RIH with XPT/DSI. Unable to get drawn down at sample depths. RIH to hold up depth at 2525m WLM. Logged up with DSI from 2525m - 50m. POOH and laid out tools. Made up MDT tools RIH to hold up depth at 2520m and logged up from 2520m - 50. POOH and laid out tools. Made up and ran log #2 MDT, POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		10 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		6 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		3 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	32	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 07 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G7	0000	0030	0.50	2600.0m	Completed down loading data from ADN tool and racked back stand.
P11	P	E3	0030	0130	1.00	2600.0m	Held TBT. Rigged up Schlumberger wire line.
P11	TP	E3	0130	0630	5.00	2600.0m	Picked up and made XPT/DSI tools and ran log #1. RIH hole at 02.40 hrs. Logged down as per program. Attempted to take pressure readings at:1709m, 1710m, 1860m. No response from draw down on tool at 1862m. Attempted to pull back to 1800m - 1500 lbs overpull at at 1850m, tool string stuck at 1832m, functioned tool and worked tool string free. RIH to 1955m no response from XPT tool at the following depths: 1710m, 1709m, 1880m, 1862m, 1922m, 1955m.
P11	P	E3	0630	1200	5.50	2600.0m	RIH with XPT/DSI tools held up at 2525m WLM. Logged up from 2525m - 2297m. POOH to 2125m, continued logging up from 2125m - 50m.
P11	P	E3	1200	1330	1.50	2600.0m	POOH and laid out tool string. Found probe protruding from tool, sealing packer cracked, 2 fins missing from standoff and 1 fin missing from second standoff. Picked up and made up MDT tool string.
P11	P	E3	1330	2330	10.00	2600.0m	RIH with log #2 MDT/GR. Correlated GR @ 2450m. Attempted to retrieve readings at 2513m, 2510m, 2505m - unable to get seal. Pulled up to claystone at 2498m and functioned tool - good seal. Continued to take readings in 400 and 300 sands down to 2568m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							POOH and took readings in Admiral Sands and Chimera Sands. POOH with log #2 from 1732m.
P11	P	E3	2330	2400	0.50	2600.0m	POOH with log run#2 from 1732m.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0200	2.00	2600.0m	POOH with log #2 MDT and laid out tool string.
P11	P	G11	0200	0530	3.50	2600.0m	Rehead wire line cable and dressed SWC tool with shots.
P11	P	E3	0530	0600	0.50	2600.0m	(IN PROGRESS) Picked up SWC tool string and RIH with log #3. Correlate SWC with GR at 2150m, RIH to bottom at 2600m (Tight spot at 2425m). Take SWC as per program, 30 shots fired, suspected 2 shots miss fired. Second gun not firing.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 07 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	224.5	28 Jun 2008	07 Jul 2008	447.00	18.625	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 07 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 90.5 hours.

SBM Data

Cost Today AUD$ 154092

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	135sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281667mg/l	H2O:	22%	YP	36lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	629mV	Oil(%):	56%	PV	37cp
Time:	21:30	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	72/28
Weight:	12.20sg	CaCl mud:	29.12			LGS:	8%	Gels 10s	14
Temp:	18C°	CaCl WP:				Oil On Cut:		Gels 10m	19
								Fann 003	12
								Fann 006	14
								Fann 100	42
								Fann 200	
								Fann 300	73
								Fann 600	110

Comment: Dressed shakers with 255/280 mesh for next hole section. 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr. Received: Part delivery of manifest WT-0069 OUT, 79MT Barite.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	461.0
Rig Fuel	m3	0	13	0	177.0
POTABLE WATER	MT	12	28	0	336.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	79	0	0	249.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
SOBM	m3	0	47	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	46
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	2
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	1
Schlumberger (Wireline)	7
Cameron	3
Weatherford	6
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3057.3bbl**
Active	210.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1148.0bbl
Kill	

Losses	**12.3bbl**
Downhole	12.3bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 07 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	16kn	315.0deg	1006.0mbar	10C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2714.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed	Status	Bulks

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(Date/Time)							
Pacific Battler	23.30 05-07-08		On location.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		333.054
				Potable Water	Mt		410
				Drill Water	Mt		350
				CEMENT G	Mt		0
				Barite	Mt		0
				Bentonite	Mt		0
					bbl		452
					bbl		0
Pacific Valkyrie	22.50 06-07-08		Along side Cario quay No3.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		190.81
				Potable Water	Mt		488
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		35
				Bentonite	Mt		34.8
				SOBM	m3		5
					m3		13
					m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1035 / 1047	10 / 10	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 19

07 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	16.94	Shoe MDBRT	750.0m	Cum Cost	AUD$13,049,100
Wtr Dpth(MSL)	56.7m	Days on well	18.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	40.3m	Planned TD MD	5822.0m	Current Op @ 0600	Run log #3 SWC.		
RT-ML	97.0m	Planned TD TVDRT	2702.0m	Planned Op	Complete logging program and conduct wiper trip prior running casing.		

Summary of Period 0000 to 2400 Hrs

Racked back BHA. Rigged up Schlumberger wireline and RIH with XPT/DSI, unable to get drawn down at sample depths. RIH to hold up depth at 2525m WLM. Logged up with DSI from 2525m - 50m. POOH and laid out tools. Made up MDT tools RIH to hold up depth at 2520m and logged up from 2520m - 50. POOH and laid out tools. Made up and ran log #2 MDT, POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		10 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		6 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		3 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	32	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 07 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G7	0000	0030	0.50	2600.0m	Completed down loading data from ADN tool and racked back stand.
P11	P	E3	0030	0130	1.00	2600.0m	Held TBT. Rigged up Schlumberger wire line.
P11	P	E3	0130	0630	5.00	2600.0m	Picked up and made XPT/DSI tools and ran log #1. RIH hole at 02.40 hrs. Logged down as per program. Attempted to take pressure readings at:1709m, 1710m, 1860m. No response from draw down on tool at 1862m. Attempted to pull back to 1800m - 1500 lbs overpull at at 1850m, tool string stuck at 1832m, functioned tool and worked tool string free. RIH to 1955m no response from XPT tool at the following depths: 1710m, 1709m, 1880m, 1862m, 1922m, 1955m.
P11	P	E3	0630	1200	5.50	2600.0m	RIH with XPT/DSI tools held up at 2525m WLM. logged up from 2525m - 2297m. POOH to 2125m, continued logging up from 2125m - 50m.
P11	P	E3	1200	1330	1.50	2600.0m	POOH and laid out tool string. Found probe protruding from tool, sealing packer cracked, 2 fins missing off standoff and 1 fin missing from second standoff. Picked up and made up MDT tool string.
P11	P	E3	1330	2330	10.00	2600.0m	RIH with log #2 MDT/GR @ 13.30. Correlated with G.R from 2450m, unable to pass 2520m. Attempted to retrieve readings at 2513m, 2510m, 2505m, unable to get seal. Pulled up

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							to claystone at 2498m and functioned tool - good seal. No results from readings taken at: 2513m, 2510m, 2505m, 2490m, 2507m, 2511m, 2514m, 2502m, 2495m, 2565m, 2568m, 2226m, 1748m. Good results for readings taken at: 2498.2m, 2226m, 2223m, 2217m, 1740m, 1732m.
P11	P	E3	2330	2400	0.50	2600.0m	POOH with log run#2 from 1732m.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0200	2.00	2600.0m	POOH with log #2 MDT and laid out tool string.
P11	P	C1	0200	0530	3.50	2600.0m	Rehead wire line cable and dress SWC tool with shots.
P11	P	E3	0530	0600	0.50	2600.0m	Pick up SWC tool string and RIH with log#3 SWC.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 07 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	192.5	30 Jun 2008	07 Jul 2008	447.50	18.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 07 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 90.5 hours.

SBM Data

Cost Today AUD$ 154092

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	135sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281667mg/l	H2O:	22%	YP	36lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	629mV	Oil(%):	56%	PV	37cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	72/28
Time:	21:30	CaCl mud:	29.12			LGS:	8%	Gels 10s	14
Weight:	12.20sg	CaCl WP:				Oil On Cut:		Gels 10m	19
Temp:	18C°							Fann 003	12
								Fann 006	14
								Fann 100	42
								Fann 200	
								Fann 300	73
								Fann 600	110

Comment: Dressed shakers with 255/280 mesh for next hole section. 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr. Received: Part delivery of manifest WT-0069 OUT, 79MT Barite.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	448.0
Rig Fuel	m3	0	13	0	163.0
POTABLE WATER	MT	12	28	0	320.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	79	0	0	249.0
SOBM	m3	0	47	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	46
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	2
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	1
Schlumberger (Wireline)	7
Cameron	3
Weatherford	6
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3057.3bbl**
Active	210.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1148.0bbl
Kill	

Losses	**12.3bbl**
Downhole	12.3bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 07 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	16kn	315.0deg	1006.0mbar	10C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2714.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

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Printed on 07 Jul 2008

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

Pacific Battler — 23.30 05-07-08 — On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		333.054
Potable Water	Mt		410
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
	bbl		452
	bbl		0

Pacific Valkyrie — 22.50 06-07-08 — Along side Cario quay No3.

Item	Unit	Used	Quantity
Rig Fuel	m3		190.81
Potable Water	Mt		488
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
	m3		13
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1035 / 1047	10 / 10	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 20

08 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$669,200
Rig	West Triton	Days from spud	17.94	Shoe MDBRT	750.0m	Cum Cost	AUD$25,570,600
Wtr Dpth (LAT)	55.968m	Days on well	19.63	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	RIH, depth at 06.00 = 1600m.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	POOH with wiper trip assembly. Rig up Shlumberger wireline and run MDT. Prepare to run 10 3/4" casing.		

Summary of Period 0000 to 2400 Hrs

Schlumberger ran MDT log and SWC. Re-run SWC due to tool failure. Picked up and made up wiper trip BHA.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at 10.30 hours.	Rig alarms activated.
First Aid Case		7 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		4 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting	2	3 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	24	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 08 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0200	2.00	2600.0m	POOH with log #2 MDT and laid out tool string.
P11	P	G11	0200	0530	3.50	2600.0m	Rehead wire line cable and dressed SWC tool with shots.
P11	P	E3	0530	1030	5.00	2600.0m	Picked up SWC tool string and RIH with log #3. Correlate SWC with GR at 2150m, RIH to bottom at 2600m (Tight spot at 2425m). Take SWC as per program, 30 shots fired, suspected 2 shots miss fired. Second gun not firing.
P11	P	E3	1030	1230	2.00	2600.0m	POOH with log #3 SWC. 28 shots fired, 2 shots miss fired.100 % recovery from bullets fired SWC run #1.
P11	P	G11	1230	1500	2.50	2600.0m	Rehead wire line cable and dress SWC tool with shots.
P11	U	E3	1500	1530	0.50	2600.0m	Waited on helicopter operations to commence radio silence.
P11	TP	E3	1530	2030	5.00	2600.0m	Picked up SWC tool string and RIH with log #4. RIH to 22425m , correlated SWC with GR at 2425m. Take SWC as per program 30 shots fired.
P11	TP	E3	2030	2200	1.50	2600.0m	POOH with log #4 SWC. 30 shots fired, 4 shots missing. 100 % recovery from bullets fired SWC run #2.
P11	P	E3	2200	2300	1.00	2600.0m	Rigged down Schlumberger wireline and cleared catwalk of tools.
P11	P	G6	2300	2400	1.00	2600.0m	Picked and made up wiper trip BHA.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description

Operations For Period 0000 Hrs to 0600 Hrs on 09 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G6	0000	0100	1.00	2600.0m	RIH with BHA.
P11	P	G8	0100	0600	5.00	2600.0m	RIH with 5.5in drill pipe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 08 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	248.5	28 Jun 2008	08 Jul 2008	471.00	19.625	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 08 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 90.5 hours.

SBM Data — Cost Today AUD$ 4130

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	135sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	300493mg/l	H2O:	22%	YP	29lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	657mV	Oil(%):	58%	PV	34cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	72.5
Weight:	12.20sg	CaCl mud:	29.12			LGS:	3%	Gels 10s	14
Temp:	18C°	CaCl WP:				Oil On Cut:		Gels 10m	19
								Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	97
Comment		Continue to mix premix in pit 7.							

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	461.0
Rig Fuel	m3	0	3	0	174.0
POTABLE WATER	MT	12	30	0	318.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	22	0	227.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234

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Pumps

Pump Data - Last 24 Hrs

								Slow Pump Data									
	P-220																
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	45
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	3
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	7
Cameron	3
Weatherford	6
Total	109

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3138.3bbl**
Active	205.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1234.0bbl
Kill	

Losses	**10.1bbl**
Downhole	10.1bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 08 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	0.0deg	1010.0mbar	8C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2760.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	**Arrived (Date/Time)**	**Departed (Date/Time)**	**Status**
Pacific Battler	23.30 05-07-08		On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		333.054
Potable Water	Mt		410
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0

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				Item	Unit	Used	Quantity
					bbl		452
					bbl		0

				Item	Unit	Used	Quantity
Pacific Valkyrie			Under way to location, ETA 17.00 9-07-08	Rig Fuel	m3		685.67
				Potable Water	Mt		483
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		35
				Bentonite	Mt		34.8
				SOBM	m3		5
					m3		13
					m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1455 / 1510	8 / 9	PM helo due to normal helo out of service

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 20

08 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$839,100
Rig	West Triton	Days from spud	17.94	Shoe MDBRT	750.0m	Cum Cost	AUD$13,888,200
Wtr Dpth (LAT)	56.700m	Days on well	19.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	40.300m	Planned TD MD	5822.000m	Current Op @ 0600	RIH, depth at 06.00 = 1600m.		
RT-ML	97.000m	Planned TD TVDRT	2702.000m	Planned Op	POOH with wiper trip assembly. Rig up Shlumberger wireline and run MDT. Prepare to run 10 3/4" casing.		

Summary of Period 0000 to 2400 Hrs

Schlumberger ran MDT log and SWC. Re-run SWC due to tool failure. Picked up and made up wiper trip BHA.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		7 Days	First aid case.	Roughneck had sub fall onto foot. Went to medic all OK.
Incident		4 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting	2	3 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	24	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 08 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0200	2.00	2600.0m	POOH with log #2 MDT and laid out tool string.
P11	P	G11	0200	0530	3.50	2600.0m	Rehead wire line cable and dress SWC tool with shots.
P11	P	E3	0530	1030	5.00	2600.0m	Pick up SWC tool string and RIH with log#3. Correlate SWC with GR at 2150m, RIH to bottom at 2600m (Tight spot at 2425m). Take SWC as per program, 30 shots fired, suspected 2 shots miss fired. Second gun not firing.
P11	P	E3	1030	1230	2.00	2600.0m	POOH with log #3 SWC. 28 shots fired, 2 shots miss fired.100 % recovery from bullets fired SWC run #1.
P11	P	E3	1230	1500	2.50	2600.0m	Rehead wire line cable and dress SWC tool with shots.
P11	U	E3	1500	1530	0.50	2600.0m	Wait on helicopter operations to commence radio silence.
P11	P	E3	1530	2030	5.00	2600.0m	Pick up SWC tool string and RIH with log #4. RIH to 22425m , correlated SWC with GR at 2425m. Take SWC as per program 30 shots fired.
P11	P	E3	2030	2200	1.50	2600.0m	POOH with log #4 SWC. 30 shots fired, 4 shots missing.100 % recovery from bullets fired SWC run #2.
P11	P	E3	2200	2300	1.00	2600.0m	Rigged down Schlumberger wireline and clear catwalk of tools.
P11	P	G6	2300	2400	1.00	2600.0m	Picked and made up wiper trip BHA.

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Australian Drilling Associates Pty Ltd ADA

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description

Operations For Period 0000 Hrs to 0600 Hrs on 09 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G6	0000	0100	1.00	2600.0m	RIH with BHA.
P11	P	G8	0100	0600	5.00	2600.0m	RIH with 5 1/2" drill pipe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 08 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	216.5	30 Jun 2008	08 Jul 2008	471.50	19.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 08 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 90.5 hours.

SBM Data — Cost Today AUD$ 4130

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	17%	Viscosity	135sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	300493mg/l	H2O:	22%	YP	29lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	657mV	Oil(%):	58%	PV	34cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	72.5
Weight:	12.20sg	CaCl mud:	29.12			LGS:	3%	Gels 10s	14
Temp:	18C°	CaCl WP:				Oil On Cut:		Gels 10m	19
								Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	97
Comment		Continue to mix premix in pit 7.							

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	448.0
Rig Fuel	m3	0	3	0	160.0
POTABLE WATER	MT	12	30	0	302.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	22	0	227.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)

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Pumps

Pump Data - Last 24 Hrs								Slow Pump Data								
1	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	45
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	3
Q Tech	1
Schlumberger MWD/LWD	3
Schlumberger DD	2
Tasman Oil Tools	2
Schlumberger (Wireline)	7
Cameron	3
Weatherford	6
Total	109

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3138.3bbl**
Active	205.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1234.0bbl
Kill	

Losses	**10.1bbl**
Downhole	10.1bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 08 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	0.0deg	1010.0mbar	8C°	0.5m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2760.00klb	0.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	23.30 05-07-08		On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		333.054
Potable Water	Mt		410
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		0

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Printed on 08 Jul 2008

				Item	Unit	Used	Quantity
				Bentonite	Mt		0
					bbl		452
					bbl		0

				Item	Unit	Used	Quantity
Pacific Valkyrie			Under way to location, ETA 17.00 9-07-08	Rig Fuel	m3		685.67
				Potable Water	Mt		483
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		35
				Bentonite	Mt		34.8
				SOBM	m3		5
					m3		13
					m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1455 / 1510	8 / 9	PM helo due to normal helo out of service

'Copyright IDS 2007', 20071227, ADA_AU_drllg

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 21

09 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	18.94	Shoe MDBRT	750.0m	Cum Cost	AUD$14,538,200
Wtr Dpth (LAT)	55.968m	Days on well	20.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Running log #4 MDT/GR as per program.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Complete running log #4 MDT. Rig up and run 10 3/4" casing.		

Summary of Period 0000 to 2400 Hrs

RIH with wiper trip assembly, circulated bottoms up. Pumped and back reamed from 2600m - 2258m. Circulated bottoms up at 2258m. POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated.
First Aid Case	1	0 Days	First aid case.	Painter slipped on beams for x/tree and grazed thigh. Went to medic all OK.
Incident		5 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	20	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	21	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip Drill	Trip drill held with crew while POOH, good fast, safe and efficient response by all.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 09 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G6	0000	0130	1.50	2600.0m	RIH with BHA to 185m.
P11	P	G8	0130	0930	8.00	2600.0m	RIH with 5.5in drill pipe to 2584m. No excess drag noted.
P11	P	F4	0930	1000	0.50	2600.0m	Broke circulation at 2584m.
P11	P	G8	1000	1030	0.50	2600.0m	While break circulation rig blacked out.
P11	P	D6	1030	1100	0.50	2600.0m	Washed and reamed to bottom from 2584m - 2600m. WOB 5k, 1050 gpm, 3900 psi, 150 rpm. 5 - 8k ft/lbs torque. Worked junk sub x 3 times on bottom..
P11	P	F4	1100	1200	1.00	2600.0m	Circulated hole clean. Observed a slight increase in fines over shakers at bottoms up. Mud weight out 12.2ppg.
P11	P	D6	1200	1530	3.50	2600.0m	Flow checked 15 minutes, pumped and back reamed from 2600m - 2258m with 1050 gpm, 3900 psi, 150 rpm. 8k ft/lbs torque. No excess drag observed.
P11	P	F4	1530	1630	1.00	2600.0m	Circulated hole clean. Observed no increase in cuttings over shakers at bottoms up. Mud weight out 12.2ppg.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G8	1630	2200	5.50	2600.0m	POOH to BHA. No excess drag observed. Flow checked at shoe and prior BHA at Bop's.
P11	P	G6	2200	2400	2.00	2600.0m	POOH with BHA, break out bit and junk sub. 8 SWC bullet retaining rings found on NBS and no junk in junk sub.

Operations For Period 0000 Hrs to 0600 Hrs on 10 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0100	1.00	2600.0m	Rigged up Schlumberger wire line.
P11	P	E3	0100	0600	5.00	2600.0m	Made up tool string. RIH with log run #4 MDT/GR at 01.25

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 09 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	240.5	30 Jun 2008	09 Jul 2008	495.50	20.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 09 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.
Operational Comments	Jar hours = 95 hours.

SBM Data — Cost Today AUD$ 7829

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	112sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%	YP	33lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	476mV	Oil(%):	58%	PV	44cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	0.5	O/W Ratio:	74/26
Time:	20:00	CaCl mud:	29.12			LGS:	8%	Gels 10s	14
Weight:	12.10sg	CaCl WP:				Oil On Cut:		Gels 10m	19
Temp:	24C°							Fann 003	13
								Fann 006	15
								Fann 100	40
								Fann 200	
								Fann 300	76
								Fann 600	120

Comment: Prepare HW slug for POOH on wiper trip. No evidence of Barite sag monitored on bottoms up from wiper trip.

Bit # 5 RR

Wear	I	O1	D	L	B	G	O2	R
	0	0	NO	A	X	I	NO	LOG

Bitwear Comments:

Size ("):	13.50in	IADC#	M422	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	Smith Bits	WOB(avg)	5.00klb	No.	Size	Progress	Cum. Progress 0.0m
Type:	PDC	RPM(avg)	150	2	20/32nd"	On Bottom Hrs	Cum. On Btm Hrs 0.0h
Serial No.:	JY2593	F.Rate	1050gpm	3	18/32nd"	IADC Drill Hrs	Cum IADC Drill Hrs 0.0h
Bit Model	M516LSPX	SPP	3900psi			Total Revs	Cum Total Revs 0
Depth In	2600.0m	HSI				ROP(avg) N/A	ROP(avg) 0.00 m/hr
Depth Out	2600.0m	TFA	1.359				

Bit Comment

BHA # 6

Weight(Wet)	34.00klb	Length	185.9m	Torque(max)	8000ft-lbs	D.C. (1) Ann Velocity	225fpm
Wt Below Jar(Wet)	15.00klb	String	232.00klb	Torque(Off.Btm)	5000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	240.00klb	Torque(On.Btm)		H.W.D.P. Ann Velocity	169fpm
		Slack-Off	224.00klb			D.P. Ann Velocity	169fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.28m			JY2596	
Junk Sub	0.92m	9.50in	3.50in	73214	
NB Stabiliser	1.52m	12.25in	2.88in	207A62	
Drill Collar	9.46m	8.25in	2.88in	14465	
String Stab	1.59m	12.00in	2.88in	207A101	
Drill Collar	18.89m	8.25in	2.88in		See BHA Sheet
X/O	0.50m	8.25in	2.88in	11559	
HWDP	56.36m	5.50in	3.25in		See BHA Sheet
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	0.91m	7.00in	2.75in	7142	
HWDP	84.60m	5.50in	3.25in		See BHA Sheet

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	448.0
Rig Fuel	m3	0	11	0	149.0
POTABLE WATER	MT	12	29	0	285.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	5	0	222.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97	94	3900	575		20		120	30		176	40		234
2	National 14 P-220	6.50	1.40	97	94	3900	575		20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax

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Personnel On Board

ADA	9
Seadrill	12
Seadrill Services.	46
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Schlumberger (Wireline)	7
Cameron	3
Weatherford	6
Reach	1
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3093.3bbl**	**Losses**	**36.2bbl**
Active	342.0bbl	Downhole	14.2bbl
Mixing		Surf+ Equip	20.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1052.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Evaporation	2.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 09 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	295.0deg	1010.0mbar	10C°	1.0m	245.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2758.00klb	1.5m	230.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		16.30	Under way to Geelong.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		320.765
Potable Water	Mt		402
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
	bbl		452
	bbl		0

ETA Geelong 14.30 on 10-07-08.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	15.45 09-07-08		At location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		658.03
Potable Water	Mt		478
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
	m3		13
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ2	BRISTOW HELICOPTERS	1450 / 1509	7 / 5	

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Helicopter Movement				
BWJ	AUSTRALIA PTY LTD BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1024 / 1039	10 / 11	

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DRILLING MORNING REPORT # 22

10 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	19.94	Shoe MDBRT	750.0m	Cum Cost	AUD$15,188,200
Wtr Dpth (LAT)	55.968m	Days on well	21.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Running #1 engine to run fuel purifier and transferring fuel into day tank.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Rig up and run 10 3/4" casing and cement same.		

Summary of Period 0000 to 2400 Hrs

Rigged up wire line and ran MDT/GR logs to 2593.9m, as per program. Rigged down wire line.
Made up jetting assembly and WBRT, RIH, jetted Bop's. Power failure trouble shoot same.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		1 Day	First aid case.	Painter slipped on beams for x/tree and landed on on thigh. Went to medic all OK.
Incident		6 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	18	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 10 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	E3	0000	0100	1.00	2600.0m	Rigged up Schlumberger wire line.
P11	P	E3	0100	1130	10.50	2600.0m	Made up tool string. RIH with log run #4 MDT/GR at 01.25 hrs and log as per geologists instructions.
P11	P	E3	1130	1330	2.00	2600.0m	POOH with MDT/GR, laid out tools and riggged down Schlumberger wireline.
P13	P	G16	1330	1500	1.50	2600.0m	Picked up and made up well head jetting tool and wear bushing retrival tool.
P13	P	G10	1500	1600	1.00	2600.0m	Removed diverter inner and outer inserts.
P13	P	G16	1600	1630	0.50	2600.0m	RIH and jetted arcoss Bop's with 120 spm, 750 gpm, 2,500 psi. RIH to Wellhead.
P13	TP (RE)	G16	1630	2400	7.50	2600.0m	Power failure, trouble shoot same. Found contaminated fuel in fuel filters. Changed all 8 fuel filters on 4 engines. Transferred contaminated fuel from day tank to 11C.

Operations For Period 0000 Hrs to 0600 Hrs on 11 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (RE)	G16	0000	0600	6.00	2600.0m	Transferred contaminated fuel from day tank to 11C. Opened inspection cover on day tank, found sludge and water in the bottom of day tank. Cleaned out day tank. Found that the penetration for the sludge drain line into the tank was never made during fabrication. Drilled a 1/2" hole in tank to allow daily draining of tank. Started #1 engine

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							to run fuel purifier and commenced transferring fuel into day tank via fuel purifier.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 10 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	10.5	10 Jul 2008	10 Jul 2008	519.50	21.646	2600.0m

SBM Data

Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	520mV	Oil(%):	58%
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	.25
Time:	21:00	CaCl mud:	29.12			LGS:	8%
Weight:	12.10sg	CaCl WP:				Oil On Cut:	
Temp:	20C°						

Comment

Viscosity	120sec/qt
YP	32lb/100ft²
PV	44cp
O/W Ratio:	74.4
Gels 10s	15
Gels 10m	19
Fann 003	14
Fann 006	15
Fann 100	41
Fann 200	
Fann 300	76
Fann 600	120

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	22	0	426.0
Rig Fuel	m3	210	5	0	354.0
POTABLE WATER	MT	12	30	0	267.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	222.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

No.	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1		20		120	30		176	40		234
2		20		120	30		176	40		234
3		20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	46

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Personnel On Board

Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	3
Weatherford	6
Reach	1
Schlumberger DD	2
Schlumberger MWD/LWD	2
Total	107

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**36.0bbl**
Active	253.0bbl	Downhole	12.0bbl
Mixing		Surf+ Equip	24.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1105.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 10 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	50kn	290.0deg	1010.0mbar	10C°	2.0m	290.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2898.00klb	3.0m	290.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			Along side at Geelong.	

Item	Unit	Used	Quantity
Rig Fuel	m3		302.262
Potable Water	Mt		446
Drill Water	Mt		350
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
	bbl		452
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			At location.	

Item	Unit	Used	Quantity
Rig Fuel	m3		444.68
Potable Water	Mt		473
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
	m3		13
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1020 / 1038	7 / 9	Crew Change
BWJ2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1548 / 1605	7 / 8	SCH W/Line

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DRILLING MORNING REPORT # 23

11 Jul 2008 **From:** S De Freitas/S Schmidt
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	20.94	Shoe MDBRT	750.0m	Cum Cost	AUD$15,838,200
Wtr Dpth (LAT)	55.968m	Days on well	22.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Installing injectors into engine #5 and prepare engine #3 for changing out of injectors.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Restore rig power and run 10 3/4" casing.		

Summary of Period 0000 to 2400 Hrs

Troble shoot rig power generation problem.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.30 hours.	Rig alarms activated.
First Aid Case		0 Days	First aid case.	Cementer was moving 20 litre bottles of additives. He did not feel any discomfort till 13.00 hrs when he felt pain in back. Report to medic where deep heat massage was applied.
Incident		7 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days		Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	48	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 11 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (RE)	G11	0000	2400	24.00	2600.0m	Transferred contaminated fuel from day tank to 11C. Opened inspection cover on day tank, found sludge and water in the bottom of day tank. Cleaned out day tank. Found that the penetration for the sludge drain line into the tank was never made during fabrication. Drilled a 1/2in hole in tank to allow daily draining of tank. Started #1 engine to run fuel purifier and commenced transferring fuel into day tank via fuel purifier. Removed injectors from engine #4 and installed injectors into engine #5. While waiting on power continued Sub Sea Tree preparations and testing. Continued preparations for stand pipe repairs. Made up RTTS assembly with joint 5 1/2" drill pipe on cat walk. Prepared and reviewed written instructions for future operations.

Operations For Period 0000 Hrs to 0600 Hrs on 12 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (RE)	G16	0000	0600	6.00	2600.0m	Installing injectors into engine #5 and prepare engine #3 for changing out of injectors.

Operations For Period Hrs to Hrs on

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Australian Drilling Associates Pty Ltd ADA

Phase Data to 2400hrs, 11 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	34.5	10 Jul 2008	11 Jul 2008	543.50	22.646	2600.0m

SBM Data

Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	100sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%	YP	45lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	550mV	Oil(%):	58%	PV	44cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	74.4
Time:	21:00	CaCl mud:	29.12			LGS:	8%	Gels 10s	15
Weight:	12.20sg	CaCl WP:				Oil On Cut:		Gels 10m	20
Temp:	20C°							Fann 003	14
								Fann 006	17
								Fann 100	49
								Fann 200	
								Fann 300	89
								Fann 600	133

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	426.0
Rig Fuel	m3	0	44	0	310.0
POTABLE WATER	MT	0	27	0	240.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	222.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	48
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2

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Personnel On Board

Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	3
Weatherford	6
Reach	1
Schlumberger DD	1
Schlumberger MWD/LWD	1
Total	106

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**0.0bbl**
Active	240.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1118.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 11 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	250.0deg	1020.0mbar	10C°	2.5m	225.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2866.00klb	3.5m	225.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			Along side at Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		301.01
Potable Water	Mt		443
Drill Water	Mt		350
CEMENT G	Mt		40
Barite	Mt		0
Bentonite	Mt		0
	bbl		59
	bbl		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At location.

Item	Unit	Used	Quantity
Rig Fuel	m3		436.7
Potable Water	Mt		468
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
	m3		13
	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1545 / 1555	1 / 2	William Adams - Cat Mechanic

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Australian Drilling Associates Pty Ltd ADA

12 Jul 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 24
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	21.94	Shoe MDBRT	750.0m	Cum Cost	AUD$16,488,200
Wtr Dpth (LAT)	55.968m	Days on well	23.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Running 10 3/4" casing as per program. Depth at 06.00 = 150 m.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Run and cement 10 3/4" casing.		

Summary of Period 0000 to 2400 Hrs

Changed out injectors on main engines as required. Jetted wear bushing, pulled same, jetted well head. POOH and laid out jetting/pulling assembly. Made up cement stand. Made up 10 3/4" hanger and racked back in derrick. Rigged up to run 10 3/4" casing.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated.
Dropped Object	1	0 Days	Falling wire rope.	While changing out wire line on air winch, wire rope fell to rotary table from crown block when the wire line and snake where passing throught the sheave at the crown block. All personnel were clear from the area around the rig floor while operation was taking place.
First Aid Case		1 Day	First aid case.	Cementer was moving 20 litre bottles of additives. He did not feel any discomfort till 13.00 hrs when he felt pain in back. Report to medic where deep heat massage was applied.
Incident		8 Days	Derrickman slipped and bumped thigh.	While crossing over charge pump line derrickman slipped and bumped his thigh on steel work. Went to medic minor graze no treatment required.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	16	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 12 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (RE)	G16	0000	1700	17.00	2600.0m	Changed out injectors on main engines as required and setting up same on engines. Engine #5 online at 10.00 hours. Engine #3 online at 17.00 hours. Engine #1 online at 22.00 hours. Found small leak on fuel heat exchanger.
P13	P	G16	1700	1930	2.50	2600.0m	Jetted wear bushing, engaged and pulled wear bushing, picked up 10m and jetted well head area. POOH and laid out jetting/pulling assembly. Very light wear observed on wear bushing.
P13	P	G9	1930	2130	2.00	2600.0m	Loaded dart into cement head, made up same to stand heavy weight drill pipe and racked back in derrick. All tubullars drifted to 2 3/4".
P13	P	G9	2130	2330	2.00	2600.0m	Picked up and made up 10 3/4" casing hanger and running tool, load plugs and racked

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							back in derrick on double of heavy weight drill pipe. All tubullars drifted to 2 3/4".
P13	P	G9	2330	2400	0.50	2600.0m	Rigged up to run 10 3/4" casing.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G9	0000	0200	2.00	2600.0m	Rigged up to run 10 3/4" casing. Note: Lost 30 - 40 minutes rigging up due to bail retaining plates on top drive bent thus increasing time required to remove and re-install plates for changing out bails.
P13	P	G9	0200	0600	4.00	2600.0m	Held JSA run 10 3/4" casing as per program. Checked shoe and float collar. Installed RA pip tag between joints # 215 & 214 depth when landed = 2439.43m. Depth at 06.00 = 151m

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 12 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	58.5	10 Jul 2008	12 Jul 2008	567.50	23.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 12 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - temporary fix in place. 5) Bail retaining plates on top drive bent, increasing time to change out bails. Require new retaining plates. 6) No spare Upper Top Drive IBOP or parts on board for Upper IBOP.
Operational Comments	Jar hours = 95 hours.

SBM Data — Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	100sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%	YP	45lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	520mV	Oil(%):	58%	PV	44cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	74.4
Weight:	12.20sg	CaCl mud:	29.12			LGS:	7%	Gels 10s	15
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	20
								Fann 003	14
								Fann 006	17
								Fann 100	49
								Fann 200	
								Fann 300	89
								Fann 600	133

Comment

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	426.0
Rig Fuel	m3	0	7	0	303.0
POTABLE WATER	MT	100	21	0	319.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	222.0
SOBM	m3	0	0	0	39.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	53
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	7
Q Tech	1
Tasman Oil Tools	2
Cameron	3
Weatherford	6
Reach	1
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**
Active	220.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1138.0bbl
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255/280	
Shaker 2	VSM-300	255/280	
Shaker 3	VSM-300	255/280	
Shaker 4	VSM-300	255/280	

Marine

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Weather on 12 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	8kn	310.0deg	1014.0mbar	11C°	0.5m	310.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2928.00klb	0.5m	310.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			Under way to rig ETA 10.00 hrs 13-07-08	

Item	Unit	Used	Quantity
Rig Fuel	m3		639.315
Potable Water	m3		440
Drill Water	m3		300
CEMENT G	Mt		40
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Dumped 50m3 drill water for stability purposes.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			At location.	

Item	Unit	Used	Quantity
Rig Fuel	m3		426.09
Potable Water	m3		363
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1639 / 1651	6 / 2	Scaffolders / ROV Pilot / NDT Inspector / Cat Mechanic & freight

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Australian Drilling Associates Pty Ltd ADA

13 Jul 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 25
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	16.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	750.0m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	22.94	Shoe MDBRT	750.0m	Cum Cost	AUD$17,138,200
Wtr Dpth (LAT)	55.968m	Days on well	24.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Circulating 10 3/4" casing prior cement job.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Circulate casing prior cement job and cement same. POOH with landing string. Make up RTTS and RIH displace riser to sea water. Nipple down BOP.		

Summary of Period 0000 to 2400 Hrs

Rigged up and ran 10 3/4" casing to 2328m. Held safety stand down meeting with crews and third party.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated.
Dropped Object	1	0 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		2 Days	First aid case.	Cementer was moving 20 litre bottles of additives. He did not feel any discomfort till 13.00 hrs when he felt pain in back. Report to medic where deep heat massage was applied.
Incident	1	0 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	13	0 Days		Permit to work issued for the day.
Safety Meeting	2	1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	42	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 13 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G9	0000	0100	1.00	2600.0m	Rigged up to run 10 3/4" casing.
P13	TP (RE)	G9	0100	0130	0.50	2600.0m	Lost 30 minutes rigging up to run 10 3/4" casing due to bail retaining plates on top drive bent thus increasing time required to remove and re-install plates for changing out bails.
P13	P	G9	0130	0200	0.50	2600.0m	Completed rigging up to run 10 3/4" casing.
P13	P	G9	0200	1300	11.00	2600.0m	Held JSA ran 10 3/4" casing as per program to 750m. Checked shoe and float collar. Installed RA pip tag between joints # 215 & 214 depth when landed = 2439.43m. Experienced difficulty getting centralizers through wellhead with 10 3/4" shoe @337m. Worked through but hung up itermittently with other centralisers. Left off last 7 centralisers. Continued running 10 3/4" casing to 16" shoe at 750m. Good displacement.
P13	U	G23	1300	1330	0.50	2600.0m	Held Safety Stand-down with all crews and Third Party Contractors to review recent

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							incidents. Emphasized to crews the importance of reporting incidents as soon as they happen. Expressed serious concerns about current trends and the apparent lack of personal responsibility for actions. Re-enforced to crews the need to follow procedures and stop the job if they have concerns. Pointed out the need to be constantly vigilant, and to assess tasks no matter how simple before proceeding. Reminded Supervisors of their responsibility to plan for jobs and to ensure that work is carried out in a safe manner.
P13	P	G9	1330	2400	10.50	2600.0m	Continued running 10 3/4" casing as per program from 750m - 2328m. No hole problems and good displacement.

Operations For Period 0000 Hrs to 0600 Hrs on 14 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G9	0000	0130	1.50	2600.0m	Continued to run 10 3/4" casing from 2328m - 2490m. No hole problems and good displacement.
P13	P	G9	0130	0300	1.50	2600.0m	Rigged down casing fill up tool, elevators and bails. Picked up short bails and drill pipe elevators.
P13	P	G9	0300	0530	2.50	2600.0m	Picked up and made up 10 3/4" casing hanger and RIH with landing string drifting to 2.75". Picked up cement head. Landed out 10 3/4" casing hanger at well head and confirmed with pipe measurements. Top 10 3/4" casing hanger at 94.62m. 10 3/4" casing shoe at 2590.78m 10 3/4" casing float collar at 2566.77m.
P13	P	F4	0530	0600	0.50	2600.0m	Rigged up surface cement lines.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 13 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	82.5	10 Jul 2008	13 Jul 2008	591.50	24.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 13 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting on operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP.
Operational Comments	Jar hours = 95 hours.

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Australian Drilling Associates Pty Ltd ADA

SBM Data

Cost Today AUD$ 3433

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	100sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%	YP	45lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	520mV	Oil(%):	58%	PV	44cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	74.4
Weight:	12.20sg	CaCl mud:	29.12			LGS:	7%	Gels 10s	15
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	20
								Fann 003	14
								Fann 006	17
								Fann 100	49
								Fann 200	
								Fann 300	89
								Fann 600	133

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	426.0
Rig Fuel	m3	0	14	45	334.0
POTABLE WATER	MT	6	28	0	297.0
Cement Class G	MT	38	0	0	109.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	222.0
SOBM	m3	0	6	0	33.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234
	20		120	30		176	40		234
	20		120	30		176	40		234

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	53
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	7
Q Tech	1
Tasman Oil Tools	2
Cameron	3
Weatherford	6
Reach	1
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3086.9bbl**	**Losses**	**0.0bbl**
Active	346.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1548.9bbl	Dumped	
Slug		De-Gasser	
Reserve	1192.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

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Printed on 13 Jul 2008

Marine

Weather on 13 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	45.0deg	1018.0mbar	14C°	0.3m	45.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2780.00klb	0.5m	45.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		623.805
Potable Water	Mt		437
Drill Water	Mt		300
CEMENT G	Mt		40
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		421.01
Potable Water	Mt		258
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		2

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Australian Drilling Associates Pty Ltd ADA

14 Jul 2008

From: S De Freitas/S Schmidt
To: R Oliver

DRILLING MORNING REPORT # 26
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	23.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$17,788,200
Wtr Dpth (LAT)	55.968m	Days on well	25.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Establishing parameters to commence drilling out plugs. Tag plugs at 2566m.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Drill out plugs, float collar, shoe. Circulate hole clean. POOH. Make up RTTS and RIH and cement casing.		

Summary of Period 0000 to 2400 Hrs

Run casing and land out hanger at well head. Rigged up lines and circulated 1.5 casing volume. Tested lines 4000 psi. Pumped tuned spacer, while pumping spacer observed spike in pressure to 2700 psi. Confirmed by pumping casing volume that both plugs released and seated at float collar with 4,500 psi that held. Released CSHART from casing and POOH. RIH and set wear bushing. Made up bit #6 9 1/2" Hughes MX-01 and BHA, RIH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated.
Dropped Object		1 Day	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	0 Days	Welder had grit fall in eye from welding mask.	13 July 08 - Welder was preparing to weld on the Rig Skid pin pedestal, he was laying in position on his back and flipped his Arc Shield plate closed on his helmet. This caused a small amount of grit to fall on to his face from the top lip of the mask. He was wearing safety glasses as well. At that stage he did not feel anything enter his eye. He started work this morning (14 July 08) and felt a gritty sensation in his right eye. He immediately reported to the Medic.
Incident		1 Day	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting	2	2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	28	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 14 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G9	0000	0130	1.50	2600.0m	Continued to run 10 3/4" casing from 2328m - 2490m. No hole problems and good displacement.
P13	P	G9	0130	0300	1.50	2600.0m	Rigged down casing fill up tool, elevators and bails. Picked up short bails and drill pipe elevators.
P13	P	G9	0300	0500	2.00	2600.0m	Picked up and made up 10 3/4" casing hanger and RIH with landing string drifting to

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Printed on 14 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							2.75". Picked up cement head. Landed out 10 3/4" casing hanger at well head and confirmed with pipe measurements. Top 10 3/4" casing hanger at 94.62m. 10 3/4" casing shoe at 2590.78m 10 3/4" casing float collar at 2566.77m.
P13	P	F4	0500	0630	1.50	2600.0m	Rigged up surface cement lines.
P13	P	F4	0630	0900	2.50	2600.0m	Circulated 1.5 casing volume at 8 bpm, 800psi, no losses obseved while circulating.
P13	P	F3	0900	1000	1.00	2600.0m	Pumped 5 bbls drill water, tested surface lines to 4,000psi. Pumped 50 bbls tuned spacer at 13.50 ppg, at 6.60bpm, 430psi, observed pressure increased from 430 psi to 2700 psi after 46 bbls tuned spacer pumped then pressure fell back to 430 psi.
P13	TP (TP)	F3	1000	1030	0.50	2600.0m	Dropped ball pumped 3.5 bbls in attempt to lauch bottom plug no increase in pressure observed.
P13	TP (TP)	F3	1030	1130	1.00	2600.0m	Assesed situation and discussed options with town.
P13	TP (TP)	F4	1130	1400	2.50	2600.0m	Circulated casing volume at 10bpm, 650psi, slowed pumps to 8bpm, 460psi after pumping 700bbls. After pumping 752 bbls observed pressure increased (casing capacity = 755 bbls). Increased pressure in stages to 4,500psi - pressure holding steady. Bled off pressure.
P13	TP (TP)	F7	1400	1500	1.00	2600.0m	Assesed situation and discussed opitions with town.
P13	P	F7	1500	1700	2.00	2600.0m	Rigged down cement lines and released CHSART from 10 3/4" casing. POOH, laid out CHSART.
P13	P	F7	1700	1800	1.00	2600.0m	Broke out and laid out cement head. No dart in cement head.
P13	P	F7	1800	2000	2.00	2600.0m	Made up wear bushing running tool. Ran and installed wear bushing. POOH and laid out running tool.
P13	P	G10	2000	2030	0.50	2600.0m	Installed diverter bag and insert.
P13	P	G8	2030	2400	3.50	2600.0m	Made up 9 1/2" Hughes MX-1 bit, 2 x stands 6 1/2" Drill Collars, HWDP and RIH with drill pipe to 358m.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G8	0000	0600	6.00	2600.0m	Continued RIH with 9 1/2" drill out assembly to 2550m. Break circulation and establish parameters. Tag plugs at 2566m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 14 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	106.5	10 Jul 2008	14 Jul 2008	615.50	25.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 14 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.

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General Comments

	5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts.
Operational Comments	Jar hours = 95 hours.

SBM Data

Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	98sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	320899mg/l	H2O:	20%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	550mV	Oil(%):	57%	PV	47cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.2	O/W Ratio:	74
Weight:	12.15sg	CaCl mud:	29.12			LGS:	10%	Gels 10s	15
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	19
								Fann 003	15
								Fann 006	42
								Fann 100	42
								Fann 200	
								Fann 300	78
								Fann 600	124

Comment

Bit # 6

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	115	**Nozzles**		**Drilled over last 24 hrs**	**Calculated over Bit Run**
Mfr:	HUGHES	WOB(avg)		No.	Size	Progress	Cum. Progress 0.0m
Type:	Rock	RPM(avg)		3	20/32nd"	On Bottom Hrs	Cum. On Btm Hrs 0.0h
Serial No.:	5104243	F.Rate				IADC Drill Hrs	Cum IADC Drill Hrs 0.0h
Bit Model	MX-01	SPP				Total Revs	Cum Total Revs 0
Depth In	2600.0m	HSI				ROP(avg) N/A	ROP(avg) 0.00 m/hr
Depth Out		TFA	0.920				

Bit Comment

BHA # 8

Weight(Wet)	29.00klb	Length	210.9m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	19.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description

BHA Run Comment: Used for drilling out dart, plugs, float collar and shoe.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.36m	9.50in		5104243	
Bit Sub	1.21m	6.50in	3.75in	SSSD7231	
6 1/2in DC	56.06m	6.50in	2.88in		See BHA sheet.
X/O	0.49m	7.00in	2.50in	560-2	
HWDP	56.36m	5.50in	3.25in		See BHA sheet.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	1416188	
HWDP	84.60m	5.50in	3.25in		See BHA sheet.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	23	0	403.0
Rig Fuel	m3	0	18	0	316.0
POTABLE WATER	MT	12	31	0	278.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Cement Class G	MT	0	0	0	109.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	7	0	215.0
SOBM	m3	0	0	0	33.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		120	30		176	40		234
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	

Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	51
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	7
Q Tech	1
Tasman Oil Tools	2
Cameron	3
Weatherford	4
Reach	1
Total	107

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3157.0bbl**	**Losses**	**0.0bbl**
Active	380.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1535.0bbl	Dumped	
Slug		De-Gasser	
Reserve	1242.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255/280	
Shaker 2	VSM-300	255/280	
Shaker 3	VSM-300	255/280	
Shaker 4	VSM-300	255/280	

Marine

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Weather on 14 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	11kn	90.0deg	1018.0mbar	11C°	0.3m	90.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2583.00klb	0.5m	90.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At location.

Item	Unit	Used	Quantity
Rig Fuel	m3		622.625
Potable Water	Mt		434
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At location.

Item	Unit	Used	Quantity
Rig Fuel	m3		416.75
Potable Water	Mt		348
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		35
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	1015 / 1029	6 / 8	Crew Change / HESA visitors

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Australian Drilling Associates Pty Ltd ADA

15 Jul 2008

From: S De Freitas/R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 27
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$656,500
Rig	West Triton	Days from spud	24.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$31,730,900
Wtr Dpth (LAT)	55.968m	Days on well	26.63	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	At wellhead with r/tool to retrieve w/bushing.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Run RTTS, circulate hole clean and perform 10.75in casing cement job.		

Summary of Period 0000 to 2400 Hrs

RIH with 9.5in bit from 358m to 2550m. Tagged plugs at 2566m, drilled plugs, float and cleaned shoe track. Drilled shoe at 2590m and washed to bottom at 2600m. Circulated and POOH. Made up to 30m the 2.875in stinger and RIH same on 5.5in DP to 769m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		7 Days	Held at 10.30 hours.	Rig alarms activated.
Drills	1	0 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		2 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	1 Day	Welder had grit fall in eye from welding mask.	13 July 08 - Welder was preparing to weld on the Rig Skid pin pedestal, he was laying in position on his back and flipped his Arc Shield plate closed on his helmet. This caused a small amount of grit to fall on to his face from the top lip of the mask. He was wearing safety glasses as well. At that stage he did not feel anything enter his eye. He started work this morning (14 July 08) and felt a gritty sensation in his right eye. He immediately reported to the Medic.
Incident		2 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting	2	3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	15	0 Days		Stop cards submitted for the day.
Time Out For Safety	1	1 Day		Crane operator held discussion with banksmen regarding dogging techniques.
ToolBox Talk	11	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 15 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G8	0000	0600	6.00	2600.0m	Continued to RIH with 9.5in drill out assembly from 358m to 2550m.
P13	TP (TP)	F4	0600	0630	0.50	2600.0m	Broke circulation and established parameters. Tagged plugs at 2566m.

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Printed on 15 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	D1	0630	1200	5.50	2600.0m	Drilled out top plug, bottom plug and float using 30-50 RPM, 800 gpm and 5-12 Klbs WOB. Cleaned out shoe track to top of shoe and drilled out shoe at 2590m. Washed and reamed top bottom at 2600m.
P13	TP (TP)	F4	1200	1300	1.00	2600.0m	Circulated hole clean and took SCR's.
P13	TP (TP)	F3	1300	1330	0.50	2600.0m	Flowchecked - static. Pumped slug.
P13	TP (TP)	G8	1330	1730	4.00	2600.0m	POOH from 2600m to 210m.
P13	TP (TP)	G8	1730	1930	2.00	2600.0m	Flowchecked - static. Continued POOH with 9.5in BHA.
P13	TP (TP)	G6	1930	2100	1.50	2600.0m	Rigged up 2.875in handling equipment and made up 2.875in stinger consisting of 2 joints of 2.875in DP and a mule shoe. RIH same to 30m.
P13	TP (TP)	G1	2100	2200	1.00	2600.0m	Made up side entry sub with TIW valves above and below for cementing purposes and stood back in derrick.
P13	TP (TP)	G8	2200	2400	2.00	2600.0m	Continued to RIH with 2.875in stinger on 5.5in DP from 30m to 769m. Broke circulation at 473m.

Operations For Period 0000 Hrs to 0600 Hrs on 16 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G8	0000	0330	3.50	2600.0m	Continued to RIH with 2.875in stinger on 5.5in DP from 769m to 2350m.
P13	TP (TP)	G10	0330	0500	1.50	2600.0m	Removed diverter insert packers.
P13	TP (TP)	G10	0500	0600	1.00	2600.0m	Picked up w/bushing r/tool and RIH to retrieve w/bushing.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 15 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	35	19 Jun 2008	20 Jun 2008	35.00	1.458	0.0m
Conductor Hole(P2)	10.5	20 Jun 2008	21 Jun 2008	45.50	1.896	132.8m
Conductor Casing(P3)	19.5	21 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Production Hole (1)(P11)	286	28 Jun 2008	10 Jul 2008	508.50	21.188	2600.0m
Production Casing(1)(P13)	130.5	10 Jul 2008	15 Jul 2008	639.00	26.625	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 15 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare Upper Top Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).

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General Comments

Operational Comments	Jar hours = 95 hours.

SBM Data — Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Time:	21:00	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Weight:	12.10sg	CaCl WP:				Oil On Cut:		Gels 10m	17
Temp:	20C°							Fann 003	11
Comment								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Bit # 6

Wear	I	O1	D	L	B	G	O2	R
	1	1	WT	A	1	I	NO	TD

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	9.50in	IADC#	115	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	HUGHES	WOB(avg)		3	20/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Type:	Rock	RPM(avg)				IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Serial No.:	5104243	F.Rate				Total Revs		Cum Total Revs	0
Bit Model	MX-01	SPP				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	2600.0m	HSI							
Depth Out	2600.0m	TFA	0.920						

Bit Comment	Bit used to drill out plugs, float and shoe only.

BHA # 8

Weight(Wet)	29.00klb	Length	210.9m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	19.00klb	String	230.00klb	Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description	
BHA Run Comment	Used for drilling out dart, plugs, float collar and shoe.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.36m	9.50in		5104243	
Bit Sub	1.21m	6.50in	3.75in	SSSD7231	
6 1/2in DC	56.06m	6.50in	2.88in		See BHA sheet.
X/O	0.49m	7.00in	2.50in	560-2	
HWDP	56.36m	5.50in	3.25in		See BHA sheet.
X/O	0.91m	7.00in	2.75in	11323.1	
6 1/2in Jars	9.73m	6.25in	2.75in	14161588	
X/O	1.22m	7.00in	2.88in	1416188	
HWDP	84.60m	5.50in	3.25in		See BHA sheet.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	25	0	391.0
Rig Fuel	m3	0	5	0	325.0
POTABLE WATER	MT	12	17	-2	287.0
Cement Class G	MT	0	0	0	109.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	3	0	212.0
SOBM	m3	0	0	0	33.0

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Pumps

Pump Data - Last 24 Hrs								Slow Pump Data									
No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	

Personnel On Board

Company	Pax
ADA	10
Seadrill	13
Seadrill Services.	49
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	4
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	2
Reach	1
Dril-Quip	1
ROV-UIS	1
Total	107

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**0.0bbl**	Equipment	Description	Mesh Size
Active	220.0bbl	Downhole				
Mixing		Surf+ Equip	0.0bbl			
Hole	1699.3bbl	Dumped				
Slug		De-Gasser				
Reserve	1138.0bbl	De-Sander				
Kill		De-Silter				
		Centrifuge				

Comments

Marine

Weather on 15 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	3kn	115.0deg	1012.0mbar	10C°	0.0m	115.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2537.00klb	0.5m	115.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler	12.15hrs 13-07-08		At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		621.36
				Potable Water	Mt		431
				Drill Water	Mt		300
				CEMENT G	Mt		0
				Barite	Mt		0
				Bentonite	Mt		0
				Base Oil	m3		59
				Brine	m3		0

Pacific Valkyrie			En route to Geelong, ETA 09h30.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		409.35
				Potable Water	Mt		338
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		35
				Bentonite	Mt		34.8
				SOBM	m3		5
				Base Oil	m3		13
				Brine	m3		2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	1118 / 1424	13 / 13	Crew Change Helicopter shutdown onboard due to fog onshore at refueling station

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16 Jul 2008

From: S De Freitas/R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 28
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	25.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$19,088,200
Wtr Dpth (LAT)	55.968m	Days on well	27.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Running seall assy for 10.75in casing hanger.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Set seal assy, and pressure test same, run and set RTTS with storm valve and pressure test same. Displace riser to sea water to prepare for riser recovery.		

Summary of Period 0000 to 2400 Hrs

RIH with cement stinger from 769m to 2350m, ran w/bushing retrieval tool and pulled w/bushing. Ran and set RTTS, circulated casing through TDS, unseated RTTS, picked up surface cement sub, set RTTS, pressure tested lines and cemented 10.75in casing. Held 430psi on DP and closed TIW valve while WOC. Attempted a number of actions to open TIW valve after WOC, resolving finally to breaking the jnt below the TIW valve and bleeding off pressure. Unseated RTTS.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		8 Days	Held at10.30 hours.	Rig alarms activated.
Drills	1	1 Day	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		3 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	2 Days	Welder had grit fall in eye from welding mask.	13 July 08 - Welder was preparing to weld on the Rig Skid pin pedestal, he was laying in position on his back and flipped his Arc Shield plate closed on his helmet. This caused a small amount of grit to fall on to his face from the top lip of the mask. He was wearing safety glasses as well. At that stage he did not feel anything enter his eye. He started work this morning (14 July 08) and felt a gritty sensation in his right eye. He immediately reported to the Medic.
Incident		3 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting	2	4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	41	0 Days		Stop cards submitted for the day.
ToolBox Talk	12	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 16 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G8	0000	0330	3.50	2600.0m	Continued RIH with 2.875in stinger on 5.5in DP from 769m to 2350m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G10	0330	0500	1.50	2600.0m	Removed diverter insert packers.
P13	TP (TP)	G10	0500	0630	1.50	2600.0m	Picked up w/bushing r/tool and RIH to retrieve w/bushing. Laid down r/tool.
P13	TP (TP)	G5	0630	0800	1.50	2600.0m	Picked up and made up RTTS packer.
P13	TP (TP)	G8	0800	0830	0.50	2600.0m	RIH with RTTS packer and set same at 140m, stinger at 2490m.
P13	TP (TP)	F4	0830	1030	2.00	2600.0m	Circulated hole clean around casing with 590gpm, 1325psi.
P13	TP (TP)	G10	1030	1100	0.50	2600.0m	Unseated RTTS, picked up cement stand with side entry sub and TIW valves above and below sub. Spaced out and set RTTS at 149m placing stinger at 2499m.
P13	TP (TP)	G10	1100	1130	0.50	2600.0m	Rigged up surface lines and held PJSM.
P13	P	F3	1130	1330	2.00	2600.0m	Pumped 10bbl water, pressure tested surface lines to 3000psi and pumped further 10bbl water. Pumped 30bbl tuned spacer, mixed and pumped 200bbl class G cement at 15.8ppg and displaced cement with 183bbl SBM using rig pumps. Theoretical TOC behind 10.75in casing at 1900m. Cement top inside 10.75in casing at 2537m.
P13	TP (TP)	F7	1330	1900	5.50	2600.0m	WOC. Monitored well while WOC. (Drill crew installed seal in stand pipe union)
P13	TP (RE)	G5	1900	2030	1.50	2600.0m	Attempted to open TIW valve to bleed off pressure and check for backflow - unable to open valve. Equalized pressure across valve using various pressures - unable to open valve. Cracked service jnt on TIW - still unable to open valve.
P13	TP (RE)	G5	2030	2100	0.50	2600.0m	Closed annular and attempted to unseat RTTS with 40k lbs o/pull - no success.
P13	TP (RE)	G5	2100	2130	0.50	2600.0m	With annular closed, pumped down kill line to 350psi above packer to equalize pressure across RTTS. Attempted to unseat packer with 60k lbs o/pull - no success.
P13	TP (RE)	G5	2130	2300	1.50	2600.0m	Slacked off running string weight onto RTTS, closed upper pipe rams and annular. Broke out DP tool joint below TIW and allowed pressure to bleed off at broken connection.
P13	TP (RE)	G5	2300	2400	1.00	2600.0m	Made up DP tool joint and attempted to unseat RTTS - no success. Closed annular and applied 100psi through kill line to top of RTTS - pulled RTTS free with 35k lbs o/pull.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G5	0000	0030	0.50	2600.0m	Worked RTTS to ensure free movement, stand back cementing stand in derrick.
P13	TP (TP)	G8	0030	0100	0.50	2600.0m	POOH RTTS from 149m to surface, stinger at 2350m.
P13	TP (TP)	G5	0100	0130	0.50	2600.0m	Laid out RTTS.
P13	TP (TP)	G8	0130	0500	3.50	2600.0m	Continued POOH with cement stinger from 2350m to 1106m. Pumped slug at 1422m.
P13	P	G2	0500	0530	0.50	2600.0m	Picked up and made up seal assy and running tool to string.
P13	P	G8	0530	0600	0.50	2600.0m	RIH with 10.75in hanger seal assy.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 16 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	154.5	10 Jul 2008	16 Jul 2008	663.50	27.646	2600.0m

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SBM Data

Cost Today AUD$ 9893

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	125sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	273577mg/l	H2O:	24%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	400mV	Oil(%):	52%	PV	44cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.10sg	CaCl mud:	29.12			LGS:	13%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	11
								Fann 006	13
								Fann 100	36
								Fann 200	
								Fann 300	75
								Fann 600	119

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	143	0	235.0
Rig Fuel	m3	0	11	0	300.0
POTABLE WATER	MT	12	40	0	243.0
Cement Class G	MT	0	38	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	8	0	204.0
SOBM	m3	0	3	0	30.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	4
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Total	99

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	2760.3bbl
Active	270.0bbl
Mixing	
Hole	746.3bbl
Slug	
Reserve	1744.0bbl
Kill	

Losses	402.4bbl
Downhole	40.0bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Behind Casing	362.4bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 16 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	7kn	335.0deg	1010.0mbar	9C°	0.2m	135.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2316.00klb	1.3m	135.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		620.09
Potable Water	Mt		428
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		395.38
Potable Water	Mt		448
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	1044 / 1103	3 / 11	3rd Party Welders demob

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DRILLING MORNING REPORT # 29

17 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	26.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$19,738,200
Wtr Dpth (LAT)	55.968m	Days on well	28.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Preparing to remove CTU and stand back same.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Pull 22in riser joints and lay down same. Rig up and run SS tree.		

Summary of Period 0000 to 2400 Hrs

POOH with RTTS from 149m to surface, laid out RTTS and continued POOH stinger to 917m. Made up r/tool with seal assy, RIH same and set seal on 10.75in casing hanger. Tested seal to 500/3000psi. POOH r/tool and ran RTTS with storm valve to 155m. Set and tested RTTS, released r/tool and displaced hole to sea water from 150m. POOH r/tool. Nippled down diverter, overshot, mandrel and set BOP on stump.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		9 Days	Held at10.30 hours.	Rig alarms activated.
Drills	1	2 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		4 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	0 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		4 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting	2	5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	28	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 17 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (TP)	G5	0000	0030	0.50	2600.0m	Worked RTTS to ensure free movement, stand back cementing stand in derrick and flow check 10 min.
P13	TP (TP)	G8	0030	0100	0.50	2600.0m	POOH RTTS from 149m to surface, stinger at 2350m.
P13	TP (TP)	G5	0100	0130	0.50	2600.0m	Laid out RTTS.
P13	TP	G8	0130	0500	3.50	2600.0m	Continued POOH with cement stinger from 2350m to 1106m. Pumped slug at 1422m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(TP)						
P13	P	G2	0500	0530	0.50	2600.0m	Picked up and made up seal assy and running tool to string.
P13	P	G8	0530	0630	1.00	2600.0m	RIH with 10.75in hanger seal assy to 95.2m.
P13	P	P2	0630	0900	2.50	2600.0m	Landed seal assy, held PJSM, lined up cement unit, flushed lines with 2bbl fresh water and pressure tested lines to 500psi/3000psi for 5/10 min. Closed annular and presured up seal assy and tested same to 500psi/3000psi for 5/10 min.
P13	P	G8	0900	1100	2.00	2600.0m	Released Cameron r/tool with 50k lbs o/pull and POOH with r/tool.
P13	P	G5	1100	1130	0.50	2600.0m	Made up RTTS packer with storm valve in place.
P13	P	G8	1130	1230	1.00	2600.0m	RIH with RTTS to 155m.
P13	P	G10	1230	1300	0.50	2600.0m	Set RTTS and backed off running string with 22 turns to the left. Tested RTTS to 500psi OK.
P13	P	F3	1300	1430	1.50	2600.0m	Held PJSM, pumped 50bbl hi-vis spacer and displaced hole from 150m to surface with sea water. Flushed choke and kill lines and functioned BOP.
P13	P	G8	1430	1600	1.50	2600.0m	POOH with RTTS r/tool, made up DQ clutch type r/tool and racked back same in derrick.
P13	P	G13	1600	2330	7.50	2600.0m	Held PJSM, rigged up handling equipment and nippled down diverter housing, overshot, laid down mousehole. Nippled down mandril, choke line and set BOP on stump. Rigged up long casing bails.
P13	P	G1	2330	2400	0.50	2600.0m	Prepared to pick up work platform.

Operations For Period 0000 Hrs to 0600 Hrs on 18 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G1	0000	0100	1.00	2600.0m	Held PJSM and continued to rig up to remove work platform.
P13	TP (TP)	G10	0100	0130	0.50	2600.0m	Dress damaged threads on wellhead housing where clutch tool makes up to wellhead.
P13	P	G1	0130	0200	0.50	2600.0m	Picked up and set back BOP work platform under cantilever.
P13	P	G1	0200	0330	1.50	2600.0m	Held PJSM, picked up DQ clutch type r/tool and made up same to wellhead and riser joints. Took 40k lbs O/pull and released tension on CTU.
P13	P	G10	0330	0600	2.50	2600.0m	Removed Claxton clamp and laid down same.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 17 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	178.5	10 Jul 2008	17 Jul 2008	687.50	28.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 17 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates.

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General Comments

	6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jar hours = 99.5 hours.

SBM Data

Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Time:	21:00	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Weight:	12.10sg	CaCl WP:				Oil On Cut:		Gels 10m	17
Temp:	20C°							Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	24	0	211.0
Rig Fuel	m3	0	5	0	295.0
POTABLE WATER	MT	12	27	0	228.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	2	0	28.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	1
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2

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Personnel On Board

Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Total	95

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**0.0bbl**
Active	220.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1138.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 17 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	16kn	310.0deg	1010.0mbar	12C°	0.3m	150.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2529.00klb	1.2m	150.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		620.09
Potable Water	Mt		428
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		395.38
Potable Water	Mt		448
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	1050 / 1108	8 / 12	Crew Change

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DRILLING MORNING REPORT # 30

18 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	27.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$20,388,200
Wtr Dpth(MSL)	55.968m	Days on well	29.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Removing kill line from BOP to allow further positioning of rotary table over SST.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Latch r/tool on to SST, run same and latch on to wellhead. POOH with SST r/tool.		

Summary of Period 0000 to 2400 Hrs

Rigged up to remove BOP work platform. Dressed threads on inside of surface wellhead where DQ clutch tool engages. Set back BOP work platform. Engaged DQ tool on to riser, removed Claxton clamp and CTU and disconnected H4 from seabed. Laid down 22in risr joints, skidded rig in and laid down H4 connector on deck.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		10 Days	Held at10.30 hours.	Rig alarms activated.
Drills	1	3 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		5 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	1 Day	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident	1	0 Days	Dropped claxton clamp segment after transit bolt sheared.	To remove the clamp all pressure must be released and the clamp sits level. The clamp this time was not level and the additional pressure on one side was enough to shear the transit bolt and allow one segment to fall away into the sea.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	51	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 18 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G1	0000	0100	1.00	2600.0m	Held PJSM and continued to rig up to remove work platform.
P13	TP (TP)	G10	0100	0130	0.50	2600.0m	Dress damaged threads on wellhead housing where clutch tool makes up to wellhead.
P13	P	G1	0130	0200	0.50	2600.0m	Picked up and set back BOP work platform on to main deck.
P13	P	G1	0200	0330	1.50	2600.0m	Held PJSM, picked up DQ clutch type r/tool and made up same to wellhead and riser

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							joints. Took 40k lbs O/pull and released tension on CTU.
P13	P	G10	0330	1000	6.50	2600.0m	Removed Claxton clamp and laid down same. Lost one slip segment of clamp while opening up main bolts on clamp - slip segment retaing bolt had sheared off due to uncontrollable movement of CTU. Removed and racked back CTU.
P22	P	G10	1000	1700	7.00	2600.0m	Unlatched H4 connector - observed operation with ROV. Held PJSM and racked back DQ clutch type r/tool. Changed out elevators and continued to lay down 22in riser joints. Raised H4 connector to Texas deck, installed C-plate and disconnected riser from H4 connector. Continued laying down riser.
P22	P	G1	1700	2030	3.50	2600.0m	Rigged down Weatherford tools, picked up handling slings and picked up H4 connector. Cleared all tools and handling equipment from Texas deck.
P22	P	G1	2030	2130	1.00	2600.0m	Prepared to skid rig, held PJSM.
P22	P	M2	2130	2330	2.00	2600.0m	Commenced skidding rig, removed gumbo hose and continued skidding rig 15ft.
P22	P	G10	2330	2400	0.50	2600.0m	Lowered H4 connector to main deck.

Operations For Period 0000 Hrs to 0600 Hrs on 19 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	M2	0000	0100	1.00	2600.0m	Prepared to skid out cantilever, held PJSM and skidded out cantilever to allow Texas deck to be racked back.
P22	P	G1	0100	0300	2.00	2600.0m	Removed Texas deck stairs and set back same. Raised and pinned Texas deck to transom.
P22	P	M2	0300	0500	2.00	2600.0m	Continue to skid cantilever in and rig floor to starboard side to position rig floor over sub-sea tree.
P22	P	G1	0500	0600	1.00	2600.0m	Removed kill line on BOP to allow further positioning of rig floor over SST.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 18 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	14	18 Jul 2008	18 Jul 2008	711.50	29.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 18 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).

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General Comments

Operational Comments	Jar hours = 99.5 hours.

SBM Data

Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Sample-From:	Pit 6	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Time:	21:00	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Weight:	12.10sg	CaCl WP:				Oil On Cut:		Gels 10m	17
Temp:	20C°							Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	211.0
Rig Fuel	m3	0	13	0	282.0
POTABLE WATER	MT	12	27	0	213.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	0	0	28.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2590.0	30	300	176	40	370	234	50	500	293
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	1
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Total	95

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Australian Drilling Associates Pty Ltd ADA

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	3057.3bbl
Active	220.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1138.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 18 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	25kn	205.0deg	1002.0mbar	10C°	1.0m	205.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2499.00klb	3.0m	205.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		620.09
Potable Water	Mt		428
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		395.38
Potable Water	Mt		448
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

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Australian Drilling Associates Pty Ltd ADA

19 Jul 2008

From: B Openshaw/R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 31
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	28.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$21,038,200
Wtr Dpth (LAT)	55.968m	Days on well	30.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Laying down TRT on to main deck.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Complete laying down of TRT, rig up and run 22in riser and BOP.		

Summary of Period 0000 to 2400 Hrs

Skidded rig to align rotary table with SST on deck. Made up HWDP to SST r/tool, skidded rig to allow lowering of SST. Troubleshoot problems with ROV, position rig to align SST to land out on wellhead.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		11 Days	Held at10.30 hours.	Rig alarms activated.
Drills	1	4 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		6 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	2 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		6 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	24	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 19 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	M2	0000	0100	1.00	2600.0m	Prepared to skid out cantilever, held PJSM and skidded out cantilever to allow Texas deck to be racked back.
P22	P	G1	0100	0300	2.00	2600.0m	Removed Texas deck stairs and set back same. Raised and pinned Texas deck to transom.
P22	P	M2	0300	0500	2.00	2600.0m	Continue to skid cantilever in and rig floor to starboard side to position rig floor over sub-sea tree.
P22	P	G1	0500	0600	1.00	2600.0m	Removed kill line on BOP to allow further positioning of rig floor over SST.
P22	P	M2	0600	0630	0.50	2600.0m	Skidded rig in 2ft for final alignment to pick up SST.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	M2	0630	0800	1.50	2600.0m	Prepared, held PJSM and skidded rig transversely to stbd side for final alignment with SST.
P22	P	G1	0800	1030	2.50	2600.0m	Removed r/u slings & bails, installed DP elevators and made up r/tool adapter to 1 stnd HWDP. Lowered same through rotary and made up to SST r/tool. Held PJSM and picked up SST - 142k lbs.
P22	P	M2	1030	1100	0.50	2600.0m	Tranversed rig 5ft to port side.
P22	P	G1	1100	1200	1.00	2600.0m	Connected and prepared umbilical for running with landing string.
P22	P	M2	1200	1630	4.50	2600.0m	Held PJSM, skidded rig to 25ft, lowered SST to below hull, skidded rig transversely to well centre and skidded cantilever deck forward to allow clamping of umbilical to HWDP while running SST.
P22	P	G10	1630	1730	1.00	2600.0m	Lowered SST to 90m on HWDP.
P22	P	M2	1730	1800	0.50	2600.0m	Skidded rig to well centre.
P22	TP (TP)	G10	1800	2130	3.50	2600.0m	Troubleshoot problems with ROV. Intermittent nature of problems made for additional difficulty of solving them.
P22	P	M2	2130	2400	2.50	2600.0m	ROV back on bottom. Removed trash cap and skidded rig both to port and forward to align SST with 18.75in wellhead at seabed.

Operations For Period 0000 Hrs to 0600 Hrs on 20 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0100	1.00	2600.0m	Skidded rig for final alignment and landed SST on 18.75in wellhead. Slacked of 30k lbs on to wellhead and activated H4 with 3000psi pressure. Observed H4 indicator move to fully closed position. Took 50k lbs o/pull to confirm connection.
P22	P	P2	0100	0200	1.00	2600.0m	Pressure tested VX ring to 5000psi for 15min.
P22	P	G10	0200	0230	0.50	2600.0m	Set down 50klbs weight and unlatch TRT.
P22	P	G10	0230	0400	1.50	2600.0m	ROV disconnected IWOCS stabbing plate from SST and connected same to TRT for recovery.
P22	P	G10	0400	0430	0.50	2600.0m	ROV performed survey around SST to confirm no snags for recovery of TRT. Held umbilical away from SST at one potential snagging point.
P22	P	G10	0430	0530	1.00	2600.0m	Pulled TRT above SST, skidded rig forward to allow for recovery of umbilical. POOH TRT.
P22	P	G10	0530	0600	0.50	2600.0m	Skidded rig out to allow space for lifting of TRT above hull into moonpool.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 19 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	48.50	2.021	132.8m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	38	18 Jul 2008	19 Jul 2008	735.50	30.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 19 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue.

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General Comments

	5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jar hours = 99.5 hours.

SBM Data

Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.10sg	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	17
								Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	211.0
Rig Fuel	m3	0	13	0	269.0
POTABLE WATER	MT	112	30	0	295.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	0	0	28.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.40	97			
2	National 14 P-220	6.50	1.40	97			
3	National 14 P-220	6.50	1.40	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2590.0	30	300	176	40	370	234	50	500	293
	20		120	30		176	40		234
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	13
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	6

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Personnel On Board

Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Baker Atlas	3
Schlumberger	4
Total	105

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**0.0bbl**
Active	220.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1138.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 19 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	0.0deg	1013.0mbar	10C°	0.4m	0.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg		2608.00klb	0.5m	150.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		611.19
Potable Water	Mt		419
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		59
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		351.76
Potable Water	Mt		337
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	1112 / 1130	15 / 5	3rd Party

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Australian Drilling Associates Pty Ltd ADA

20 Jul 2008

From: B Openshaw/R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 32
Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	29.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$21,688,200
Wtr Dpth (LAT)	55.968m	Days on well	31.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Connecting up CTU on Texas deck.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Install Claxton clamp, take tension on riser with CTU and install and nipple up BOP.		

Summary of Period 0000 to 2400 Hrs

Lowered SST on to 18.75in wellhead, set down 30klbs weight, activate H4 and take 50k o/pull test. Pressure tested VX ring to 5000psi, changed out IWOCS from SST to TRT and recovered TRT. Set down TRT on deck. Lowered Texas deck, picked up H4 connector and ran same with 22in riser.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		0 Days	Held at10.35 hours.	Rig alarms activated.
Drills	1	5 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		7 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	3 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		7 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 0045 Sunday morning and 1300 on Saturday .
STOP Card	46	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 20 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0100	1.00	2600.0m	Skidded rig for final alignment and landed SST on 18.75in wellhead. Slacked of 30k lbs on to wellhead and activated H4 with 3000psi pressure. Observed H4 indicator move to fully closed position. Took 50k lbs o/pull to confirm connection. Confirmed SST orientation of 270 deg using ROV.
P22	P	P2	0100	0200	1.00	2600.0m	Pressure tested VX ring to 5000psi for 15min.
P22	P	G10	0200	0230	0.50	2600.0m	Set down 50klbs weight and unlatch TRT.
P22	P	G10	0230	0400	1.50	2600.0m	ROV disconnected IWOCS stabbing plate from SST and connected same to TRT for recovery.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0400	0430	0.50	2600.0m	ROV performed survey around SST to confirm no snags for recovery of TRT. Held umbilical away from SST at one potential snagging point.
P22	P	G10	0430	0530	1.00	2600.0m	Pulled TRT above SST, skidded rig forward to allow for recovery of umbilical. POOH TRT.
P22	P	G10	0530	0700	1.50	2600.0m	Skidded rig out to allow space for lifting of TRT above hull into moonpool.
P22	P	G1	0700	0730	0.50	2600.0m	Removed scaffold work platform.
P22	P	G1	0730	1000	2.50	2600.0m	Skidded cantilever in and rig floor transversely to align TRT with skid frame, set down on frame and disconnected DP from TRT.
P22	P	G1	1000	1200	2.00	2600.0m	Skidded sub-base in line with well centre and cantilever out to pick up Texas deck. Lowered Texas deck down.
P22	P	G10	1200	1500	3.00	2600.0m	Held PJSM, picked up H4 connector and skidded rig out to align with Texas deck slot.
P22	P	G1	1500	1530	0.50	2600.0m	Installed stairway and handrails on Texas deck.
P22	P	G1	1530	1700	1.50	2600.0m	Installed C-plate on Texas deck and landed H4 on C-plate. Rigged down H4 handling equipment and rigged up W/ford 22in equipment.
P22	P	G10	1700	1830	1.50	2600.0m	Held PJSM and ran 22in riser to Texas deck.
P22	P	G10	1830	2000	1.50	2600.0m	Made up DQ RBC connector on to top of H4 and torqued up locking dogs.
P22	P	G10	2000	2100	1.00	2600.0m	Connected 2 core umbilical jumpers on H4 connector and strapped same to riser. Function tested umbilical controls.
P22	TP (TP)	G10	2100	2200	1.00	2600.0m	Unable to remove riser protectors from riser joints (protectors damaged) Remove protectors by cutting same.
P22	P	G10	2200	2400	2.00	2600.0m	Continued running 22in riser joints while strapping umbilical to riser.

Operations For Period 0000 Hrs to 0600 Hrs on 21 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0100	1.00	2600.0m	Continued running 22in riser.
P22	P	G10	0100	0400	3.00	2600.0m	Changed out handling equipment, picked up DP stand with DQ clutch type r/tool and made up same to wellhead joint. Stroked H4 to open position. Lowered riser and manipulated positioning with tuggers and ROV to enable latching on to SST with H4 connector. Set down 10klbs weight on SST and activated H4 with 1500psi activating pressure. Observed H4 indicator showing fully locked position. Lock in activating pressure at surface. Performed 50k o/pull test on H4.
P22	P	G10	0400	0500	1.00	2600.0m	Filled riser with sea water and fluorescene dye from cementing unit. Attempted pressure test to 500psi on H4 and riser - DQ clutch type r/tool leaking. Abandon test.
P22	P	G1	0500	0600	1.00	2600.0m	Lowered CTU into position and nippled up same. Offline: Connected service hoses and wedged skid points on cantilever.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 20 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	62	18 Jul 2008	20 Jul 2008	759.50	31.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 20 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore.

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General Comments

	3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jar hours = 99.5 hours.
Operational Comments	Claxton clamp slip segment successfully retieved with ROV.
Operational Comments	Flowline connector orientation on SST is 270deg.
Operational Comments	All rams, except shear rams, tested on BOP.

SBM Data

Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.10sg	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	17
								Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	8	0	203.0
Rig Fuel	m3	0	5	0	264.0
POTABLE WATER	MT	12	27	0	280.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	58	0	0	86.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7

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Personnel On Board

Seadrill	13
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Baker Atlas	3
Schlumberger	4
Total	105

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**3057.3bbl**	**Losses**	**0.0bbl**
Active	220.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1699.3bbl	Dumped	
Slug		De-Gasser	
Reserve	1138.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 20 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	7kn	270.0deg	1001.0mbar	11C°	1.0m	270.0deg	2s
Rig Dir.	**Ris. Tension**	**VDL**	**Swell Height**	**Swell Dir.**	**Swell Period**	**Weather Comments**	
24.1deg		2631.00klb	2.1m	160.0deg	6s	Wave and swell heights are estimates.	
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	12.15hrs 13-07-08		En route to Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		602.6
Potable Water	Mt		418
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		349.3
Potable Water	Mt		332
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 33

21 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	30.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$22,338,200
Wtr Dpth(MSL)	55.968m	Days on well	32.65	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	WOW.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Observe weather in order to continue with rig operations of installing CTU, Claxton clamp and running BOP.		

Summary of Period 0000 to 2400 Hrs

Ran 22in riser, picked up DQ clutch type r/tool, made up same to wellhead joint and landed 22in riser with H4 connector on to SST. Locked H4 and took 50klbs o/pull. Attempted to test riser to 500psi - DQ r/tool leaking. Lowered CTU to Texas deck. WOW with winds 50 - 55 knots, swell 5m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.35 hours.	Rig alarms activated.
Drills		6 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		8 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		4 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		8 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting	2	1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	37	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 21 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0100	1.00	2600.0m	Continued running 22in riser.
P22	P	G10	0100	0400	3.00	2600.0m	Changed out handling equipment, picked up DP stand with DQ clutch type r/tool and made up same to wellhead joint. Stroked H4 to open position. Lowered riser and manipulated positioning with tuggers and ROV to enable latching on to SST with H4 connector. Set down 10klbs weight on SST and activated H4 with 1500psi activating pressure. Observed H4 indicator showing fully locked position. Lock in activating pressure at surface. Performed 50k o/pull test on H4.
P22	P	G10	0400	0500	1.00	2600.0m	Filled riser with sea water and fluorescene dye from cementing unit. Attempted pressure

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							test to 500psi on H4 and riser - DQ clutch type r/tool leaking. Abandon test.
P22	P	G1	0500	0600	1.00	2600.0m	Lowered CTU into position and nippled up same. Offline: Connected service hoses and wedged skid points on cantilever.
P22	TP (WOW)	G10	0600	2400	18.00	2600.0m	Waited on weather. Wind speed 50 - 55 knots through most of the day, seas extremely rough. Increased tension on riser from 20klbs o/pull to 100klbs o/pull. Rigged up kill line to BOP, pressure tested choke manifold down stream valves to 300/5000psi 10min. Pressure tested mud manifold to 300/5000psi 10min.

Operations For Period 0000 Hrs to 0600 Hrs on 22 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (WOW)	G10	0000	0600	6.00	2600.0m	WOW. Continued pressure testing of choke manifold to 300/7500psi 5/10min. and mud manifold to 300/5000psi 5/10min. Performed general rig maintenance. Weather at 05h30: Wind 28 - 33knots, swell to 3m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 21 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	86	18 Jul 2008	21 Jul 2008	783.50	32.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 21 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jar hours = 99.5 hours.
Operational Comments	Flowline connector orientation on SST is 270deg.
Operational Comments	All rams, except shear rams, tested on BOP.

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SBM Data

Cost Today AUD$ 2089

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	22%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	490mV	Oil(%):	52%	PV	32cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.10sg	CaCl mud:	30.09			LGS:	13%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	17
								Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	63
								Fann 600	95

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	0	5	0	259.0
POTABLE WATER	MT	12	31	0	261.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	0	1	87.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	13
Seadrill Services.	43
Catering	9
Halliburton	2
Baker Hughes Inteq	4
Halliburton	2
Tamboritha	6
Q Tech	1
Tasman Oil Tools	2
Cameron	2
Weatherford	4
Reach	1
Dril-Quip	1
ROV-UIS	1
Baker Atlas	3
Schlumberger	4
Total	105

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	3057.3bbl
Active	220.0bbl
Mixing	
Hole	1699.3bbl
Slug	
Reserve	1138.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 21 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	38kn	225.0deg	1018.0mbar	8C°	4.2m	225.0deg	8s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	100.00klb	2619.00klb	5.0m	225.0deg	9s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		584.3
Potable Water	Mt		416
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		334.7
Potable Water	Mt		328
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 34

22 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	31.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$22,988,200
Wtr Dpth (LAT)	55.968m	Days on well	33.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	Ongoing repairs to TDS.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Complete repairs on TDS, RIH and retrieve RTTS and lay out same. Test casing, H4 to SST, shear rams and choke & kill connections to 4000psi. Pick up 9.5in BHA and RIH for pilot hole section.		

Summary of Period 0000 to 2400 Hrs

Waited on weather (9.5hrs). Installed CTU and Claxton clamp, took tension on CTU and released DQ r/tool on riser. Prepared and nippled up BOP, tested BOP connection and H4 riser connection to SST to 500psi 10min. Installed mandrel, overshot and diverter. Nippled up choke line on BOP.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.35 hours.	Rig alarms activated.
Drills		7 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		9 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		5 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		9 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	34	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 22 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (WOW)	G10	0000	0930	9.50	2600.0m	WOW. Continued pressure testing of choke manifold to 300/7500psi 5/10min. and mud manifold to 300/5000psi 5/10min. Performed general rig maintenance. Weather at 05h30: Wind 28 - 39knots, swell to 3 - 4m.
P22	P	G10	0930	1500	5.50	2600.0m	Wind and sea state improved - held PJSM and installed CTU. Held PJSM with new crew and continued installing Claxton clamp. Took tension with CTU - 100 ton.

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Printed on 22 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G1	1500	1800	3.00	2600.0m	Released DQ r/tool from riser wellhead and laid down same. Rigged down elevators, rigged up slings and installed work platform on Texas deck. Rigged up for BOP installation.
P22	P	G13	1800	2130	3.50	2600.0m	Nippled up 18.75in BOP, installed and torqued up mandrel. Prepared overshot and diverter. Increased CTU tension to 200 ton.
P22	P	P2	2130	2200	0.50	2600.0m	Tested BOP connection and H4 connection above SST against shear rams to 500psi 10min.
P22	P	G13	2200	2300	1.00	2600.0m	Installed overshot and diverter packer.
P22	P	G13	2300	2400	1.00	2600.0m	Nippled up choke line. Offline: Attended to leak on TDS grabber, changing out saver sub on TDS.

Operations For Period 0000 Hrs to 0600 Hrs on 23 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G13	0000	0230	2.50	2600.0m	Continued nippling up choke line. Offline: Changed out saver sub on TDS, worked on changing out dolly bearing for TDS, attending to leak in gripper on TDS.
P22	TP (RE)	G13	0230	0430	2.00	2600.0m	Problems encountered while nippling up choke line - difficulty due to choke hose being on wrong side of kill hose. Choke hose fully connected at 04h30. Continued with repairs on TDS: Support shaft for grabber badly bent, requiring heating to straighten up. Working on changing out dolly bearings for TDS. Attending to leak on grabber.
P22	TP (RE)	G11	0430	0600	1.50	2600.0m	Continued with repairs on TDS: Support shaft for grabber badly bent, requiring heating to straighten up. Working on changing out dolly bearings for TDS. Attending to leak on grabber. Wishbone actuating lever for I-BOP flared open and requires heating and bending to close.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 22 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	110	18 Jul 2008	22 Jul 2008	807.50	33.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 22 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP.

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General Comments

	7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jar hours = 99.5 hours.
Operational Comments	All rams, except shear rams, tested on BOP.

SBM Data

Cost Today AUD$ 124090

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	278930mg/l	H2O:	24%	YP	43lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	400mV	Oil(%):	52%	PV	34cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.10sg	CaCl mud:	19.41			LGS:	12%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	11
								Fann 006	13
								Fann 100	36
								Fann 200	
								Fann 300	77
								Fann 600	120

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	0	6	0	253.0
POTABLE WATER	MT	9	30	0	240.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	50	0	37.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	8
Seadrill	16
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2

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Personnel On Board

Cameron	1
Reach	1
Dril-Quip	1
Baker Atlas	3
Schlumberger	5
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2882.9bbl**	**Losses**	**0.0bbl**
Active	363.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	764.9bbl	Dumped	
Slug		De-Gasser	
Reserve	1755.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 22 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	225.0deg	1028.0mbar	10C°	1.1m	225.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2583.00klb	3.1m	225.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		579.5
Potable Water	Mt		414
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		0
Bentonite	Mt		0
Base Oil	m3		116
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		320.1
Potable Water	Mt		324
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Bulks

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0957 / 1016	13 / 16	VIP visit Crew Change
2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1451 / 1505	5 / 7	VIP visit Crew Change

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DRILLING MORNING REPORT # 35

23 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	32.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$23,638,200
Wtr Dpth (LAT)	55.968m	Days on well	34.65	FIT/LOT:	/ 1.64sg		
RT-ASL (LAT)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600	POOH with 5.5in DP and 2.875in stinger at 111m.		
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op	Lay out 2.875in DP stinger. Perform 4000psi casing pressure test, make up 9.5in BHA and RIH to drill pilot hole to coring depth at approx 2820mMD.		

Summary of Period 0000 to 2400 Hrs

Nippled up choke line to BOP. Continued with repairs to TDS: Support shaft for grabber badly bent, requiring heating to straighten up. Changed out dolly bearings for TDS. Attended to leak on grabber. Changed out wash pipe. Slipped and cut line, made up RTTS r/tool to retrieve RTTS packer.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.35 hours.	Rig alarms activated.
Drills		8 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		10 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		6 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		10 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	46	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 23 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G13	0000	0430	4.50	2600.0m	Continued nippling up choke line. Offline: Changed out saver sub on TDS, worked on changing out dolly bearing for TDS, attending to leak in gripper on TDS. Support shaft for grabber badly bent, requiring heating to straighten up.
P22	TP (RE)	G11	0430	2000	15.50	2600.0m	Continued with repairs on TDS: Support shaft for grabber badly bent, requiring heating to straighten up. Changed out dolly bearings for TDS.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Attended to leak on grabber. Changed out wash pipe.
P22	P	G11	2000	2330	3.50	2600.0m	Slipped and cut 90ft of drilling line. Callibrated travelling block settings, checked crown and floor savers.
P22	P	G5	2330	2400	0.50	2600.0m	Made up RTTS r/tool to retrieve RTTS packer and cementing string.

Operations For Period 0000 Hrs to 0600 Hrs on 24 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0300	3.00	2600.0m	RIH with RTTS r/tool to 150m, broke circulation and filled well. With pump at 1 bbl/min, tagged RTTS with r/tool at 155m with 3klbs. Observed pressure build up. Screwed into RTTS with 22 turns - torque build up to 4kft-lbs. Unseated RTTS with 10klbs o/pull, POOH RTTS to surface.
P22	P	G5	0300	0400	1.00	2600.0m	Made service breaks on RTTS and Storm valve and laid down same.
P22	P	G8	0400	0600	2.00	2600.0m	Continued to POOH with cementing string from 917m to 111m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 23 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	134	18 Jul 2008	23 Jul 2008	831.50	34.646	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 23 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	All rams, except shear rams, tested on BOP.

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SBM Data

Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	128sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	32lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	400mV	Oil(%):	52%	PV	45cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.20sg	CaCl mud:	30.09			LGS:	12%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	11
								Fann 006	14
								Fann 100	41
								Fann 200	
								Fann 300	77
								Fann 600	122

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	0	11	0	242.0
POTABLE WATER	MT	8	30	0	218.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	0	0	0	37.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	14
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Cameron	1
Reach	1
Baker Atlas	3
Schlumberger	5
Total	97

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	2882.9bbl
Active	363.0bbl
Mixing	
Hole	764.9bbl
Slug	
Reserve	1755.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 23 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	2kn	130.0deg	1031.0mbar	11C°	0.1m	150.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2523.00klb	1.7m	150.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		577.9
Potable Water	Mt		412
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		116
Brine	m3		156

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		309.9
Potable Water	Mt		324
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0957 / 1016	13 / 16	VIP visit Crew Change
2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1451 / 1505	5 / 7	VIP visit Crew Change

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 36

24 Jul 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	13.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$447,000
Rig	West Triton	Days from spud	33.63	Shoe MDBRT	2590.8m	Cum Cost	AUD$24,085,200
Wtr Dpth(MSL)	55.968m	Days on well	35.33	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	41.062m	Planned TD MD	5822.000m	Current Op @ 0600			
RT-ML	97.030m	Planned TD TVDRT	2702.000m	Planned Op			

Summary of Period 0000 to 2400 Hrs

RIH with RTTS r/tool, engaged RTTS and POOH laying down same. Continued POOH with cementing string and laid out 2.875in stinger jnts. Pressure tested csg against shear rams to 3000psi. Pressure tested I-BOP to 500/5000psi and repaired swivel packing. Laid down BHA and cement stand from derrick.

END OF PORTION OF LONGTOM 16h30 on 24 July 2008.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.35 hours.	Rig alarms activated.
Drills		9 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		11 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		7 Days	Floorman had his hand struck by tong jaw.	At 01h40 on 17 July, Floorman was changing the Tong Jaw. He lifted the jaw and was pulling the locating pin out when the open tong jaw swung round and struck his left wrist. He reported to medic immediately. Medic examined man and Ice applied to back of hand. Returned to work shortly after.
Incident		11 Days	Elevator contact with Monkeyboard.	When racking back the Casing Running Tool, the stand was short. As a result, the elevators made contact with the corner of the Monkey Board, causing slight damage to support beam
PTW issued	9	1 Day		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	46	1 Day		Stop cards submitted for the day.
ToolBox Talk	5	1 Day	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

FORMATION

Name	Top
Kipper Shale	1755.00m
Admiral Formation.	2186.00m
500 Sands	2316.00m
400 Sands	2494.00m
300 Sands	2564.00m

Operations For Period 0000 Hrs to 2400 Hrs on 24 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G10	0000	0300	3.00	2600.0m	RIH with RTTS r/tool to 150m, broke circulation and filled well. With pump at 1 bbl/min, tagged RTTS with r/tool at 155m with 3klbs. Observed pressure build up. Screwed into RTTS with 22 turns - torque build up to 4kft-lbs. Unseated RTTS with 10klbs o/pull, POOH RTTS to surface.
P22	P	G5	0300	0400	1.00	2600.0m	Made service breaks on RTTS and Storm valve and laid down same.
P22	P	G8	0400	0730	3.50	2600.0m	Continued to POOH with cementing string from 917m to top of 2.875in stinger. Broke out x/over and laid out 3 jnts 2.875in DP stinger.

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Printed on 24 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	P2	0730	0900	1.50	2600.0m	Filled riser and well with water and pressure tested casing, H4 to SST, SST to 18.75in wellhead, BOP connection to riser and shear rams. Pressured up to 4000psi, pressure blead off to 3000psi and held at 3000psi.
P22	P	P2	0900	1000	1.00	2600.0m	Rigged up and pressure tested manual and actuated IBOP's to 500/5000psi. Swivel packing leaking.
P22	TP (RE)	P2	1000	1130	1.50	2600.0m	Removed, inspected and re-installed swivel packing.
P22	P	G1	1130	1400	2.50	2600.0m	Rigged down surface lines. Picked up cement stand from derrick, broke out 2x TIW valves and side entry sub and laid down 8.5in DC and stabilizers.
P22	P	G6	1400	1630	2.50	2600.0m	Picked up Anadrill BHA from derrick and laid out same. *** END OF CURRENT PORTION OF LONGTOM WELL at 16h30 on 24/07/08 ***

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 24 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	28	19 Jun 2008	20 Jun 2008	28.00	1.167	0.0m
Conductor Hole(P2)	16.5	20 Jun 2008	22 Jun 2008	44.50	1.854	132.8m
Conductor Casing(P3)	20.5	20 Jun 2008	22 Jun 2008	65.00	2.708	132.8m
Surface Hole(P4)	54	22 Jun 2008	24 Jun 2008	119.00	4.958	755.0m
Surface Casing(P5)	40	24 Jun 2008	25 Jun 2008	159.00	6.625	755.0m
BOPs/Risers(P6)	62.5	26 Jun 2008	28 Jun 2008	221.50	9.229	755.0m
Other work scope(P28)	1	28 Jun 2008	28 Jun 2008	222.50	9.271	755.0m
Intermediate Hole (1)(P7)	32.5	28 Jun 2008	29 Jun 2008	255.00	10.625	758.0m
Production Hole (1)(P11)	254	30 Jun 2008	10 Jul 2008	509.00	21.208	2600.0m
Production Casing(1)(P13)	188.5	10 Jul 2008	18 Jul 2008	697.50	29.063	2600.0m
Completion/Recompletion(P22)	150.5	18 Jul 2008	24 Jul 2008	848.00	35.333	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 24 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).

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Australian Drilling Associates Pty Ltd ADA

SBM Data

Cost Today AUD$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	128sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264070mg/l	H2O:	24%	YP	32lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	3.0cc/30min	Elec.Stab.:	400mV	Oil(%):	52%	PV	45cp
Time:	21:00	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68.4
Weight:	12.20sg	CaCl mud:	30.09			LGS:	12%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	11
								Fann 006	14
								Fann 100	41
								Fann 200	
								Fann 300	77
								Fann 600	122

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	110	15	0	337.0
POTABLE WATER	MT	8	28	0	198.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	13	0	0	50.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.40	97				2590.0	30	300	176	40	370	234	50	500	293
2	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234
3	National 14 P-220	6.50	1.40	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	8
Schlumberger	5
ACS Labs	1
Total	98

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/James Munford

Available	2882.9bbl
Active	363.0bbl
Mixing	
Hole	764.9bbl
Slug	
Reserve	1755.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255/280
Shaker 2	VSM-300	255/280
Shaker 3	VSM-300	255/280
Shaker 4	VSM-300	255/280

Comments

Marine

Weather on 24 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	2kn	130.0deg	1031.0mbar	11C°	0.1m	150.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2523.00klb	1.7m	150.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		577.9
Potable Water	Mt		412
Drill Water	Mt		300
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		116
Brine	m3		156

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		309.9
Potable Water	Mt		324
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		13
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1045 / 1059	11 / 10	SeaDrill Crew Change 3rd Party

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DRILLING MORNING REPORT # 1

24 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$203,000
Rig	West Triton	Days from spud	33.94	Shoe MDBRT	2590.8m	Cum Cost	US$203,000
Wtr Dpth(MSL)	55.968m	Days on well	0.31	FIT/LOT:	/ 1.64sg		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Washing and drilling down on on cement at 2554m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Drill out shoe and 3m of new formation, perform FIT and drill ahead 9.5in hole. to core point		

Summary of Period 0000 to 2400 Hrs

Made up 9.5in rotary steerable BHA and RIH to 153m. Displaced hole to SBM at 153m. Continued RIH from 153m to 982m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.35 hours.	Rig alarms activated.
Drills		9 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		11 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	0 Days	Roustabout received laceration	At 16.20 hrs whilst squeezing out a mop in a mop bucket on deck. The bucket slipped and the roustabout received a small laceration to his right forearm.
Incident	1	0 Days	Floorman struck by chain tong	At 03.45 hrs. The drill crew where removing a chain tong from the pipe when it swung down and struck a floorman below the right knee.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	31	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 24 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G6	1630	1830	2.00	2600.0m	**** COMMENCE Longtom-4 P at 16h30 on 24/07/08 **** Held PJSM and picked up rotary steerable 9.5in BHA to 35m. Loaded RA source.
P15	P	G8	1830	2030	2.00	2600.0m	Continue RIH with 9.5in BHA on HWDP to 153m.
P15	P	F3	2030	2100	0.50	2600.0m	Held PJSM and displaced sea water in hole to SBM at 153m.
P15	P	G8	2100	2400	3.00	2600.0m	Continued RIH with 9.5in BHA from 153m to 982m. Filled pipe every 15 stands.

Operations For Period 0000 Hrs to 0600 Hrs on 25 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0430	4.50	2600.0m	Continued RIH with 9.5in BHA from 982m to 2406m filling up every 15 stnds at first and then every 20 stnds as ported float eased requirements for filling up pipe.
P15	U	G23	0430	0500	0.50	2600.0m	Incident in derrick: Derrickman had hand squeezed by DP. Time Out For Safety: Discuss measures to protect personnel and prevent injury.
P15	P	G8	0500	0530	0.50	2600.0m	Continued RIH from 2406m to 2525m.
P15	P	D1	0530	0600	0.50	2600.0m	Wash down from 2525m and tag top of cement at 2551m. Wash and drill down cement from 2551m to 2554m.

Operations For Period Hrs to Hrs on

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Phase Data to 2400hrs, 24 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	7.5	24 Jul 2008	24 Jul 2008	7.50	0.313	2600.0m

General Comments

00:00 TO 24:00 Hrs ON 24 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 99.5hrs

SBM Data — Cost Today US$ 2500

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	125sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281320mg/l	H2O:	24%	YP	33lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	400mV	Oil(%):	52%	PV	45cp
Sample-From:	Pit 6	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	68/32
Time:	20:00	CaCl mud:	30.18			LGS:	12%	Gels 10s	13
Weight:	12.20sg	CaCl WP:				Oil On Cut:		Gels 10m	18
Temp:	20C°							Fann 003	11
								Fann 006	14
								Fann 100	42
								Fann 200	
								Fann 300	78
								Fann 600	123

Comment: RIH to 153m and displace water from hole with SBM.

Bit # 1

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	SMITH	WOB(avg)		No.	Size	Progress		Cum. Progress	0.0m
Type:	PDC	RPM(avg)		7	16/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Serial No.:	JY 2803	F.Rate				IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Bit Model	M716PXC	SPP				Total Revs		Cum Total Revs	0
Depth In	2600.0m	HSI				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth Out		TFA	1.374						

Bit Comment

BHA # 1

Weight(Wet)	33.00klb	Length	215.0m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	12.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5"

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HWDP.					
BHA Run Comment					
Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m	9.50in		JY2803	
PD Xceed 675	7.66m	6.75in		111	
ECO Scope	8.01m	9.13in		VA 86	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	28.03m	7.06in			
X/O	0.91m	7.00in		11323.1	
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in		7142	
HWDP	140.96m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	110	15	0	337.0
POTABLE WATER	MT	8	28	0	198.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	204.0
SOBM	m3	13	0	0	50.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	8
Schlumberger	5
ACS Labs	1
Total	98

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	3043.3bbl
Active	474.0bbl
Mixing	
Hole	810.3bbl
Slug	
Reserve	1759.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	89
Shaker 2	VSM-300	89
Shaker 3	VSM-300	89
Shaker 4	VSM-300	89

Comments

Marine

Weather on 24 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	8kn	70.0deg	1025.0mbar	11C°	0.1m	130.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2835.00klb	1.4m	130.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		15h00	En route to rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		571
Potable Water	Mt		450
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Brine figure to be confirned.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		199.1
Potable Water	Mt		320
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		50

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1045 / 1059	11 / 10	SeaDrill Crew Change 3rd Party

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 2

25 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2600.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2351.2m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	215.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	34.94	Shoe MDBRT	2590.8m	Cum Cost	US$853,000
Wtr Dpth(MSL)	55.968m	Days on well	1.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	POOH to cut core.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Run core barrel and cut core.		

Summary of Period 0000 to 2400 Hrs

RIH with 9.5in BHA from 982m to 2525m. Washed down and tagged cement at 2551m. Drilled cement from 2551m to shoe at 2591m and rathole to 2600m. Drilled 4m of new formation, circulated bottoms up and performed FIT to 14ppg EMW. Drilled ahead from 2604m to 2819m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.35 hours.	Rig alarms activated.
Drills		10 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		12 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	0 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		1 Day	Floorman struck by chain tong	At 03.45 hrs. The drill crew where removing a chain tong from the pipe when it swung down and struck a floorman below the right knee.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 25 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0430	4.50	2600.0m	Continued RIH with 9.5in BHA from 982m to 2406m filling up every 15 stnds at first and then every 20 stnds as ported float eased requirements for filling up pipe.
P15	U	G23	0430	0500	0.50	2600.0m	Incident in derrick: Derrickman had hand squeezed by DP. Time Out For Safety: Discussed measures to protect personnel and prevent injury.
P15	P	G8	0500	0530	0.50	2600.0m	Continued RIH from 2406m to 2525m.
P15	P	D1	0530	0800	2.50	2604.0m	Washed down from 2525m and tagged top of cement at 2551m. Washed and drilled down cement from 2551m to shoe at 2591m and rathole to 2600m. Drilled 4m of new formation to 2604m.
P15	P	F4	0800	0900	1.00	2604.0m	Circulate bottom up at 2604m pumping at 640gpm and using 60rpm.
P15	P	P1	0900	1000	1.00	2604.0m	Perform FIT to 818psi (14ppg EMW) using 11.95ppg mud. Pumped 3bbl total and 3bbl flowed back after test.
P15	P	D4	1000	1330	3.50	2641.0m	Drilled ahead 9.5in hole from 2604m to 2641m.
P15	TP (RE)	D4	1330	1400	0.50	2641.0m	Relief valved blew due to malfunction of I-BOP. Reset same.
P15	P	D4	1400	2400	10.00	2819.0m	Drilled ahead 9.5in hole from 2641m to 2819mMD (2488mTVD). Took survey on every connection. Xceed tool failed causing well angle to drop +/-1deg per stand drilled.

Operations For Period 0000 Hrs to 0600 Hrs on 26 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	D4	0000	0100	1.00	2841.0m	Drilled ahead 9.5in hole from 2819m to 2841m - coring point.
P15	P	F4	0100	0200	1.00	2841.0m	Circulated 1.5 x bottoms up at 75ogpm, 180rpm.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	D6	0200	0500	3.00	2841.0m	Flowchecked well and POOH backreaming at 60m/h ROP to recapture LWD/MWD missed data over intervals from 2800m - 2790m, 2755m - 2745m and 2725m - 2715m.
P15	P	G8	0500	0600	1.00	2841.0m	Continue POOH from 2715m to shoe at 2600m. Flowcheck well.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 25 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	31.5	24 Jul 2008	25 Jul 2008	31.50	1.313	2819.0m

General Comments

00:00 TO 24:00 Hrs ON 25 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) #3 Main Engine down - waiting on parts. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 113hrs
Operational Comments	Observed overheating on rotating head - unsure of source and/or cause of overheating.

SBM Data

Cost Today US$ 10115

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	85sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	360481mg/l	H2O:	25%	YP	36lb/100ft²
Sample-From:	Flowline	HTHP-FL:	2.0cc/30min	Elec.Stab.:	417mV	Oil(%):	53%	PV	42cp
Time:	22:20	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	68/32
Weight:	12.00sg	CaCl mud:	49.39			LGS:	9%	Gels 10s	15
Temp:	57C°	CaCl WP:				Oil On Cut:	9%	Gels 10m	18
								Fann 003	11
								Fann 006	13
								Fann 100	39
								Fann 200	
								Fann 300	78
								Fann 600	120

Comment: Initial mud weights while drilling cement 11.4ppg to 13.2ppg, due to barite sag from 10 days no circulating. Bled in 8.7ppg premix and dusted in barite to even mud weight 11.9+ppg for FIT. Added 0.7ppb Tau Mod to active to maintain rheology. Fined up screens to 280 mesh, running 3 shakers only. Centrifuge shut down at 18.00 hours due to cuttings discharge chute blockage. Offlined for 5 hours while unblocking/cleaning.

Bit # 1

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	SMITH	WOB(avg)	16.00klb	No.	Size	Progress	215.0m	Cum. Progress	215.0m
Type:	PDC	RPM(avg)	160	7	16/32nd"	On Bottom Hrs	8.4h	Cum. On Btm Hrs	8.4h
Serial No.:	JY 2803	F.Rate	750gpm			IADC Drill Hrs	13.5h	Cum IADC Drill Hrs	13.5h
Bit Model	M716PXC	SPP	3100psi			Total Revs		Cum Total Revs	0
Depth In	2600.0m	HSI				ROP(avg)	25.60 m/hr	ROP(avg)	25.60 m/hr
Depth Out		TFA	1.374						

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Bit Comment

BHA # 1

Weight(Wet)	33.00klb	Length	215.0m	Torque(max)	20000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	12.00klb	String	221.00klb	Torque(Off.Btm)	3000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	247.00klb	Torque(On.Btm)	12000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	208.00klb			D.P. Ann Velocity	0fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m	9.50in		JY2803	
PD Xceed 675	7.66m	6.75in		111	
ECO Scope	8.01m	9.13in		VA 86	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	28.03m	7.06in			
X/O	0.91m	7.00in		11323.1	
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in		7142	
HWDP	140.96m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
2621.57	53.7	182.8	2254.27	-1139.8	-1139.8	-55.7	0.6	
2651.30	53.4	183.6	2271.93	-1163.7	-1163.7	-57.1	0.7	
2681.00	52.5	184.2	2289.83	-1187.3	-1187.3	-58.7	1.0	
2711.02	51.4	184.5	2308.33	-1210.9	-1210.9	-60.5	1.1	
2740.27	50.6	184.5	2326.74	-1233.6	-1233.6	-62.3	0.8	
2770.05	50.0	184.9	2345.76	-1256.4	-1256.4	-64.1	0.7	
2798.55	47.7	183.6	2364.51	-1277.8	-1277.8	-65.7	2.6	
2842.00	47.7	183.6	2393.76	-1309.9	-1309.9	-67.8	0.0	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	203.0
Rig Fuel	m3	0	17	0	320.0
POTABLE WATER	MT	10	28	0	180.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	11	0	193.0
SOBM	m3	0	0	0	50.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	64	3100	374
2	National 14 P-220	6.50	1.44	97	64	3100	374
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2642.0	30	350	176	40	470	234	50	680	293
2642.0	30	320	176	40	450	234	50	610	293
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	8
Schlumberger	5
ACS Labs	1
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2988.7bbl**
Active	382.0bbl
Mixing	
Hole	812.7bbl
Slug	
Reserve	1794.0bbl
Kill	

Losses	**68.5bbl**
Downhole	
Surf+ Equip	48.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	20.0bbl
Evaporation	0.5bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	89
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 25 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	3kn	340.0deg	1010.0mbar	8C°	0.2m	120.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2736.00klb	1.5m	120.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	14h30		At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		556.8
Potable Water	Mt		445
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Brine figure to be confirned.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		194.9
Potable Water	Mt		320
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105

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Item	Unit	Used	Quantity
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		50

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DRILLING MORNING REPORT # 3

26 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2841.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2503.6m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	22.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	35.94	Shoe MDBRT	2590.8m	Cum Cost	US$1,503,000
Wtr Dpth(MSL)	55.968m	Days on well	2.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Cutting core at 2895m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Complete cutting core, POOH and lay down core and core barrel. Pick up 9.5in BHA to drill ahead.		

Summary of Period 0000 to 2400 Hrs

Drilled 9.5in hole from 2819m to 2841m - core point. Circulated and POOH backreaming over 3 sections to recapture missed MWD/LWD data. Continued POOH and laid down malfunctioning Schlumberger tools in BHA. Made up core barrel and RIH same to 2369m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.35 hours.	Rig alarms activated.
Drills		11 Days	Spill Drill	A containment drill was held on a failed equalisation valve between the sand trap tanks.
Dropped Object		13 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case	1	1 Day	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		2 Days	Floorman struck by chain tong	At 03.45 hrs. The drill crew where removing a chain tong from the pipe when it swung down and struck a floorman below the right knee.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	29	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 26 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	D4	0000	0100	1.00	2841.0m	Drilled ahead 9.5in hole from 2819m to 2841m - coring point.
P15	P	F4	0100	0200	1.00	2841.0m	Circulated 1.5 x bottoms up at 750gpm, 3100psi,180rpm.
P15	TP (TP)	D4	0200	0500	3.00	2841.0m	Flowchecked well and POOH backreaming at 60m/h ROP to recapture LWD/MWD missed data over intervals from 2800m - 2790m, 2755m - 2745m and 2725m - 2715m.
P15	P	G8	0500	1200	7.00	2841.0m	Continued POOH from 2715m to shoe at 2591m. Flowcheck well. Continued POOH from 2592m to 2400m, pumped 30bbl slug and continued POOH to BHA at 214m. Flowchecked well and continued POOH BHA to 33m.
P15	P	G6	1200	1330	1.50	2841.0m	Held PJSM, recovered radio active source and laid down Schlumberger steerable, MWD and LWD tools. Broke out 9.5in bit.
P15	P	G11	1330	1430	1.00	2841.0m	Serviced TDS and crown block.
P15	P	G5	1430	1830	4.00	2841.0m	Made up core barrel, 8.5in core head and inner barrel as Baker instructions, RIH to 58m and spaced out inner barrel.
P15	P	G8	1830	2400	5.50	2841.0m	RIH core barrel assy and BHA from 58m to 306m and continue RIH on DP to 2369m filling up every 600m. (Float showing signs of leaking) Performed trip drill.

Operations For Period 0000 Hrs to 0600 Hrs on 27 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0130	1.50	2841.0m	Continued RIH with core barrel from 2369m to 2812m.
P15	P	D6	0130	0200	0.50	2841.0m	Washed down using 300gpm from 2812m and tag bottom at 2841m.
P15	P	F3	0200	0230	0.50	2841.0m	Dropped ball - pressure increased from 400psi to 750psi. Took SCR's.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	E7	0230	0600	3.50	2841.0m	Cut core #1 from 2841m to 2895m making a connection for a new stand at 2869m. Core at 60 - 70rpm, 230gpm, 1100psi and 7klbs WOB. ROP 5 - 20m/hr.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 26 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	55.5	24 Jul 2008	26 Jul 2008	55.50	2.313	2841.0m

General Comments

00:00 TO 24:00 Hrs ON 26 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 114hrs

SBM Data — Cost Today US$ 4447

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	86sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	326775mg/l	H2O:	25%	YP	35lb/100ft²
		HTHP-FL:	2.0cc/30min	Elec.Stab.:	400mV	Oil(%):	53%	PV	43cp
Sample-From:	Flowline	HTHP-cake:	1/32nd"			Sand:	.25	O/W Ratio:	68/32
Time:	20:00	CaCl mud:	42.53			LGS:	9%	Gels 10s	14
Weight:	12.00sg	CaCl WP:				Oil On Cut:	9%	Gels 10m	18
Temp:								Fann 003	12
								Fann 006	13
								Fann 100	40
								Fann 200	
								Fann 300	78
								Fann 600	121

Comment: Prepare HW slug for POOH. Received approx. 289bbl of brine from Ocean Valkyrie.

Bit # 1

Wear	I	O1	D	L	B	G	O2	R
	2	4	BT	A	X	I	RO	CP

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	9.50in	IADC#		No.	Size	Progress	22.0m	Cum. Progress	237.0m
Mfr:	SMITH	WOB(avg)	16.00klb	7	16/32nd"	On Bottom Hrs	1.0h	Cum. On Btm Hrs	9.4h
Type:	PDC	RPM(avg)	160			IADC Drill Hrs	1.0h	Cum IADC Drill Hrs	14.5h
Serial No.:	JY 2803	F.Rate	750gpm			Total Revs		Cum Total Revs	0
Bit Model	M716PXC	SPP	3100psi			ROP(avg)	22.00 m/hr	ROP(avg)	25.21 m/hr
Depth In	2600.0m	HSI							
Depth Out	2841.0m	TFA	1.374						

Bit Comment

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Bit # 2

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size (''):	8.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	BHI (Hughes Christensen)	WOB(avg)		No.	Size	Progress		Cum. Progress	0.0m
Type:	ch	RPM(avg)				On Bottom Hrs		Cum. On Btm Hrs	0.0h
Serial No.:	7212164	F.Rate				IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Bit Model	BHC 406	SPP				Total Revs		Cum Total Revs	0
Depth In	2841.0m	HSI				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth Out		TFA	0.000						

Bit Comment: Coring run.

BHA # 1

Weight(Wet)	33.00klb	Length	215.0m	Torque(max)	20000ft-lbs	D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	12.00klb	String	221.00klb	Torque(Off.Btm)	3000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	247.00klb	Torque(On.Btm)	12000ft-lbs	H.W.D.P. Ann Velocity	306fpm
		Slack-Off	208.00klb			D.P. Ann Velocity	306fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m	9.50in		JY2803	
PD Xceed 675	7.66m	6.75in		111	
ECO Scope	8.01m	9.13in		VA 86	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	28.03m	7.06in			
X/O	0.91m	7.00in		11323.1	
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in		7142	
HWDP	140.96m	7.00in			

BHA # 2

Weight(Wet)	44.00klb	Length	306.3m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	30.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description: 8.5" Coring bit, 7x Coring Tubes and 8x Stabilizers, Top sub, Float Sub, Circ Sub, 6x 6.5" DC's, 6x HWDP, Jar, 12x HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Core Bit	0.43m	8.50in		7212164	
Core Barrel	68.46m	6.75in			
Drill Collar	56.06m	6.50in			
HWDP	56.36m	5.50in			
Jar	9.73m	6.50in		14161588	
HWDP	112.63m	5.50in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	5	0	198.0
Rig Fuel	m3	0	5	0	315.0
POTABLE WATER	MT	114	22	0	272.0
Cement Class G	MT	0	0	0	71.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	5	0	188.0
SOBM	m3	0	0	0	50.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97	64	3100	374	2642.0	30	350	176	40	470	234	50	680	293
2	National 14 P-220	6.50	1.44	97	64	3100	374	2642.0	30	320	176	40	450	234	50	610	293
3	National 14 P-220	6.50	1.44	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	8
Schlumberger	5
ACS Labs	1
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2988.9bbl**	**Losses**	**5.9bbl**	Equipment	Description	Mesh Size	Comments
Active	397.0bbl	Downhole	1.9bbl	Shaker 1	VSM-300	89	
Mixing		Surf+ Equip	4.0bbl	Shaker 2	VSM-300	280	
Hole	855.9bbl	Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	1736.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine

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Weather on 26 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	160.0deg	1005.0mbar	8C°	0.1m	120.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2839.00klb	1.3m	120.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		551.8
Potable Water	Mt		440
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		194.9
Potable Water	Mt		320
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		50

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DRILLING MORNING REPORT # 4

27 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2896.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2543.1m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	55.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	36.94	Shoe MDBRT	2590.8m	Cum Cost	US$2,153,000
Wtr Dpth(MSL)	55.968m	Days on well	3.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	RIH at 2637m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Ream over sections to recapture missing MWD/LWD data, ream cored section and drill ahead 9.5in hole to TD of pilot hole.		

Summary of Period 0000 to 2400 Hrs

RIH with core barrel from 2369m to 2812m. Washed down to 2841m, dropped ball, took SCR's and cut 8.5in core from 2841m to 2896m. POOH with core barrel, recovered core (99%) and laid out core and outer barrel.Made up new 9.5in BHA and RIH to 143m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills	1	0 Days	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		14 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		2 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident	1	0 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	13	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 27 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0130	1.50	2841.0m	Continued RIH with core barrel from 2369m to 2812m.
P15	P	D6	0130	0200	0.50	2841.0m	Washed down using 300gpm from 2812m and tag bottom at 2841m.
P15	P	F3	0200	0230	0.50	2841.0m	Dropped ball - pressure increased from 400psi to 750psi. Took SCR's.
P15	P	E7	0230	0630	4.00	2841.0m	Cut 8.5in core #1 from 2841m to 2896m making a connection for a new stand at 2869m. Core at 60 - 70rpm, 230gpm, 1100psi and 7klbs WOB. ROP 5 - 20m/hr. Broke core with 25klbs o/pull.
P15	P	G8	0630	1200	5.50	2896.0m	POOH core barrel from 2896m to shoe at 2591m, flowchecked, pumped slug and continue POOH to 2308m - pipe pulling wet. Dropped ball to open circulating sub and continue POOH to 651m.
P15	P	G8	1200	1430	2.50	2896.0m	Held PJSM with new crew and continued to POOH from 651m to 150m at controlled rate of 5min/stnd.
P15	P	G8	1430	1500	0.50	2896.0m	Continued POOH from 150m to 67m at controlled rate of 10min/stnd.
P15	P	E7	1500	2000	5.00	2896.0m	Held PJSM, broke out top sub, checked for gas, recovered inner barrel and laid down core, 99% recovery. Laid down outer barrel.
P15	P	G11	2000	2100	1.00	2896.0m	Rig service - removed cooling blower for TDS hydraulics due to failure of fan blades.
P15	P	G6	2100	2300	2.00	2896.0m	Picked up new 9.5in bit and BHA consisting of MWD/LWD tools and RIH to 27m.
P15	P	G8	2300	2400	1.00	2896.0m	Held PJSM, loaded RA source into tools and continued to RIH to 143m.

Operations For Period 0000 Hrs to 0600 Hrs on 28 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0030	0.50	2896.0m	Continued RIH BHA from 143m to 209m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	P2	0030	0100	0.50	2896.0m	Made up 1 stnd DP and performed shallow MWD/LWD test at 650gpm.
P15	P	G8	0100	0600	5.00	2896.0m	Installed diverter insert and continued RIH from 209m to 2637m filling string every 20stnds.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 27 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	79.5	24 Jul 2008	27 Jul 2008	79.50	3.313	2896.0m

General Comments

00:00 TO 24:00 Hrs ON 27 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 118hrs

SBM Data — Cost Today US$ 10061

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	128sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	272796mg/l	H2O:	24%	YP	20lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.0cc/30min	Elec.Stab.:	328mV	Oil(%):	54%	PV	45cp
Time:	23:00	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	69/31
Weight:	12.15sg	CaCl mud:	31.56			LGS:	9%	Gels 10s	12
Temp:		CaCl WP:				Oil On Cut:		Gels 10m	15
								Fann 003	8
								Fann 006	11
								Fann 100	34
								Fann 200	
								Fann 300	65
								Fann 600	110

Comment: Checked and replaced damaged screens. New screens used 4x280 mesh. Discarded 2x280 mesh screens. Dressed shaker #1 with 255 mesh screens for drilling next interval. Intended to run centrifuge while coring in Barite recovery mode to reduce LGS, overboard discharge line blocked after 20 minutes operation resulting in insufficient operation to reduce LGS. Added to active 0.1ppb Rheomod-L to maintain rheology and 0.2ppb LE Supermul to improve ES.

Bit # 9

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#		**Nozzles**	**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	SMITH	WOB(avg)		No.	Size	Progress		Cum. Progress	0.0m
Type:	PDC	RPM(avg)		7	16/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Serial No.:	JY2802	F.Rate				IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Bit Model	M716PXC	SPP				Total Revs		Cum Total Revs	0
Depth In	2896.0m	HSI				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth Out		TFA	1.374						

Bit Comment

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Bit # 8

Wear	I	O1	D	L	B	G	O2	R
	1	1	WT	A	X	I	NO	TD

Bitwear Comments:

Size (''):	8.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	BHI (Hughes Christensen)	WOB(avg)	7.00klb	No.	Size	Progress	55.0m	Cum. Progress	55.0m
Type:	ch	RPM(avg)	70			On Bottom Hrs	3.6h	Cum. On Btm Hrs	3.6h
Serial No.:	7212164	F.Rate	230gpm			IADC Drill Hrs	4.0h	Cum IADC Drill Hrs	4.0h
Bit Model	BHC 406	SPP	1100psi			Total Revs		Cum Total Revs	0
Depth In	2841.0m	HSI				ROP(avg)	15.28 m/hr	ROP(avg)	15.28 m/hr
Depth Out	2896.0m	TFA	0.000						

Bit Comment: Coring run.

BHA # 11

Weight(Wet)	29.00klb	Length	209.0m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	7.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description: 9.5" PDC bit, bit sub, x/o, Ecoscope, Telescope, NMHWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5"HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m			JY2802	
Bit Sub	1.22m	6.50in			
X/O	0.46m	6.50in			
ECO Scope	8.04m	6.75in		763	
Tele Scope	8.52m	6.88in		EO330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in			
HWDP	28.03m	7.06in		5120301/36/34	
X/O	0.91m	7.00in			
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in			
HWDP	140.96m	7.00in			

BHA # 10

Weight(Wet)	44.00klb	Length	306.3m	Torque(max)	10000ft-lbs	D.C. (1) Ann Velocity	211fpm
Wt Below Jar(Wet)	30.00klb	String	235.00klb	Torque(Off.Btm)	4000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	260.00klb	Torque(On.Btm)	8000ft-lbs	H.W.D.P. Ann Velocity	134fpm
		Slack-Off	208.00klb			D.P. Ann Velocity	134fpm

BHA Run Description: 8.5" Coring bit, 7x Coring Tubes and 8x Stabilizers, Top sub, Float Sub, Circ Sub, 6x 6.5" DC's, 6x HWDP, Jar, 12x HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Core Bit	0.43m	8.50in		7212164	
Core Barrel	68.46m	6.75in			
Drill Collar	56.06m	6.50in			
HWDP	56.36m	5.50in			
Jar	9.73m	6.50in		14161588	
HWDP	112.63m	5.50in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	10	0	188.0
Rig Fuel	m3	0	17	0	298.0
POTABLE WATER	MT	12	29	0	255.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Cement Class G	MT	0	3	0	68.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	2	0	186.0
SOBM	m3	0	2	0	48.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97	39	1100	230	2642.0	30	350	176	40	470	234	50	680	293
2	National 14 P-220	6.50	1.44	97				2642.0	30	320	176	40	450	234	50	610	293
3	National 14 P-220	6.50	1.44	97					20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	9
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	8
Schlumberger	5
ACS Labs	1
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2995.5bbl**	**Losses**	**0.0bbl**
Active	346.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	955.5bbl	Dumped	
Slug		De-Gasser	
Reserve	1694.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255	
Shaker 2	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 4	VSM-300	280	

Marine

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Weather on 27 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	18kn	140.0deg	1005.0mbar	8C°	1.6m	150.0deg	5s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2739.00klb	2.7m	150.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		549.3
Potable Water	Mt		435
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			En route to Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		162.1
Potable Water	Mt		211
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		0

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Australian Drilling Associates Pty Ltd ADA

28 Jul 2008

From: B Openshaw/ R Rossouw
To: R Oliver

DRILLING MORNING REPORT # 5
Longtom-4 P

Well Data

Country	Australia	MDBRT	2987.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2604.7m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	91.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	37.94	Shoe MDBRT	2590.8m	Cum Cost	US$2,803,000
Wtr Dpth(MSL)	55.968m	Days on well	4.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Rigging up to run wireline logs.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Run wireline logs.		

Summary of Period 0000 to 2400 Hrs

RIH with 9.5in BHA from 143m to 209m. Shallow tested tools and continued RIH to 2637m washing down the last 17m. Recaptured missing MWD/LWD data from 4 sections over total interval from 2640m to 2813m. Reamed the cored section and continued to drill 9.5in hole from 2896m to 2987m - final TD of Pilot hole. Circulated sample up and POOH to 2430m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		1 Day	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		15 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		3 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		1 Day	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	4	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	31	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 28 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0030	0.50	2896.0m	Continued RIH BHA from 143m to 209m.
P15	P	P2	0030	0100	0.50	2896.0m	Made up 1 stnd DP and performed shallow MWD/LWD test at 650gpm.
P15	P	G8	0100	0600	5.00	2896.0m	Installed diverter insert and continued RIH from 209m to 2620m filling string every 20stnds.
P15	P	D6	0600	0630	0.50	2896.0m	Washed down from 2620m to 2637m.
P15	TP (TP)	D4	0630	0930	3.00	2896.0m	Reamed down over the following intervals to recapture missing data from previous MWD/LWD tools. From 2640m to 2670m, from 2720m to 2735m, from 2750m to 2766m and from 2792m to 2813 using 500gpm, 120m/hr, 120rpm.
P15	P	D6	0930	1130	2.00	2896.0m	RIH to 2841m and reamed cored section from 2841m to 2896m using 150rpm, 720gpm.
P15	P	D2	1130	2100	9.50	2987.0m	Continued drilling 9.5in hole from 2896m to 2987m (2604.7m TVD) - final TD of Pilot hole. Surveyed every connection.
P15	P	F4	2100	2130	0.50	2987.0m	While circulating bottom sample to surface, reamed over 2975m to 2987m to recapture missing data from MWD/LWD tools.
P15	P	F3	2130	2200	0.50	2987.0m	Flowchecked well and pumped slug.
P15	P	G8	2200	2400	2.00	2987.0m	POOH from 2987m to shoe at 2591m, flowchecked and continued to POOH to 2430m.

Operations For Period 0000 Hrs to 0600 Hrs on 29 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0330	3.50	2987.0m	Continued to POOH from 2430m to top of BHA, flowchecked and continued POOH BHA.
P15	P	G6	0330	0530	2.00	2987.0m	Laid out Jars, unloaded RA source, broke out bit and bit sub and laid down Schlumberger MWD/LWD tools.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G1	0530	0600	0.50	2987.0m	Cleaned rig floor, held PJSM and commenced rig up for Schlumberger wireline logs.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 28 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	103.5	24 Jul 2008	28 Jul 2008	103.50	4.313	2987.0m

General Comments

00:00 TO 24:00 Hrs ON 28 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) No 5 main engine down - excessive vibrations, cause unknown. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 127hrs

SBM Data

Cost Today US$ 24126

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	78sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	264068mg/l	H2O:	24%	YP	32lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.0cc/30min	Elec.Stab.:	510mV	Oil(%):	55%	PV	44cp
Time:	21:30	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	69/31
Weight:	12.00sg	CaCl mud:	30.18			LGS:	8%	Gels 10s	15
Temp:	59C°	CaCl WP:				Oil On Cut:	10%	Gels 10m	18
								Fann 003	12
								Fann 006	14
								Fann 100	41
								Fann 200	
								Fann 300	76
								Fann 600	120

Comment: Added 1ppb LE Supermul to premix pits 1 and 2. Added 1.2ppb LE Supermul, 0.3ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties. Dusted in Barite to active to maintain mud weight 12.0ppg while drilling rat hole. Prepared HW slug for POOH. Run centrifuge in Barite recovery mode to reduce LGS.

Bit # 9

Wear	I	O1	D	L	B	G	O2	R
	1	7	WT	S	X	I	RO	TD

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	9.50in	IADC#		No.	Size	Progress	91.0m	Cum. Progress	91.0m
Mfr:	SMITH	WOB(avg)	25.00klb	7	16/32nd"	On Bottom Hrs	7.0h	Cum. On Btm Hrs	7.0h
Type:	PDC	RPM(avg)	160			IADC Drill Hrs	9.5h	Cum IADC Drill Hrs	9.5h
Serial No.:	JY2802	F.Rate	725gpm			Total Revs		Cum Total Revs	0
Bit Model	M716PXC	SPP	3000psi			ROP(avg)	13.00 m/hr	ROP(avg)	13.00 m/hr
Depth In	2896.0m	HSI							
Depth Out	2987.0m	TFA	1.374						

Bit Comment

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BHA # 11

Weight(Wet)	29.00klb	Length	209.0m	Torque(max)	14000ft-lbs	D.C. (1) Ann Velocity	398fpm
Wt Below Jar(Wet)	7.00klb	String	220.00klb	Torque(Off.Btm)	4000ft-lbs	D.C. (2) Ann Velocity	414fpm
		Pick-Up	230.00klb	Torque(On.Btm)	10000ft-lbs	H.W.D.P. Ann Velocity	296fpm
		Slack-Off	205.00klb			D.P. Ann Velocity	296fpm

BHA Run Description: 9.5" PDC bit, bit sub, x/o, Ecoscope, Telescope, NMHWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5"HWDP

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m			JY2802	
Bit Sub	1.22m	6.50in			
X/O	0.46m	6.50in			
ECO Scope	8.04m	6.75in		763	
Tele Scope	8.52m	6.88in		EO330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in			
HWDP	28.03m	7.06in		5120301/36/34	
X/O	0.91m	7.00in			
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in			
HWDP	140.96m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
2857.04	46.1	183.1	2404.03	-1320.9	-1320.9	-68.4	3.3	
2886.94	46.6	182.9	2424.67	-1342.5	-1342.5	-69.5	0.5	
2916.37	46.2	183.3	2444.97	-1363.7	-1363.7	-70.7	0.5	
2946.06	45.0	184.2	2465.74	-1384.9	-1384.9	-72.1	1.4	
2970.49	45.1	184.6	2483.00	-1402.1	-1402.1	-73.4	0.4	
2987.00	45.1	184.6	2494.65	-1413.8	-1413.8	-74.3	0.0	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	8	0	180.0
Rig Fuel	m3	0	7	0	291.0
POTABLE WATER	MT	4	26	0	233.0
Cement Class G	MT	0	5	1	64.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	186.0
SOBM	m3	0	0	0	48.0
Brine	m3	78	0	0	78.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	62	3000	363
2	National 14 P-220	6.50	1.44	97	62	3000	363
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2931.0	30	320	176	40	450	234	50	620	293
2931.0	30	320	176	40	410	234	50	600	293
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m /	200bbl class "G" at 15.8ppg, TOC at 1900m

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
		2337.57m	

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	37
Catering	8
Halliburton	2
Baker Hughes Inteq	7
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Baker Atlas	4
Schlumberger	15
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**2927.8bbl**	**Losses**	**94.3bbl**	Equipment	Description	Mesh Size	Comments
Active	409.0bbl	Downhole	18.3bbl	Shaker 1	VSM-300	255	
Mixing		Surf+ Equip	30.0bbl	Shaker 2	VSM-300	280	
Hole	814.8bbl	Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	1704.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge	30.0bbl				
		Evaporation	16.0bbl				

Marine

Weather on 28 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	160.0deg	1011.0mbar	8C°	1.4m	140.0deg	5s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2703.00klb	3.0m	140.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		544
Potable Water	Mt		430
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Brine figure subject to confirmation.

Pacific Valkyrie — At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		162.1
Potable Water	Mt		211
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		0

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Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1455 / 1515	16 / 14	Crew Change Schlumberger W/Line

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 6

29 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2987.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2604.7m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	38.94	Shoe MDBRT	2590.8m	Cum Cost	US$3,453,000
Wtr Dpth(MSL)	55.968m	Days on well	5.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Running Schlumberger log #2 SWC.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Complete SWC logging run and RIH with cementing string to plug back the pilot hole.		

Summary of Period 0000 to 2400 Hrs

POOH 9.5in bit from 2430m to surface, laying down the jar and MWD/LWD tools. Rigged up Schlumberger and ran wireline log #1 XPT/DSI.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		2 Days	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		16 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		4 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		2 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	5	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	20	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 29 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	G8	0000	0330	3.50	2987.0m	Continued to POOH from 2430m to top of BHA, flowchecked and continued POOH BHA.
P15	P	G6	0330	0530	2.00	2987.0m	Laid out Jars, unloaded RA source, broke out bit and bit sub and laid down Schlumberger MWD/LWD tools.
P15	P	G1	0530	0630	1.00	2987.0m	Cleaned rig floor, held PJSM and rigged up for Schlumberger wireline logs.
P15	P	C1	0630	0900	2.50	2987.0m	Made up Schlumberger run #1 XPT/ DSI.
P15	P	E3	0900	2200	13.00	2987.0m	Ran wireline log #1 XPT/DSI commencing with XPT from 2603m to 2967.5m taking 40 pressure tests in this interval. Tools stuck at 2986m for 20min requiring 8500lbs o/pull to free.
P15	P	E3	2200	2400	2.00	2987.0m	Commenced DSI of wireline log #1 from 2985m up the hole.

Operations For Period 0000 Hrs to 0600 Hrs on 30 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	E4	0000	0030	0.50	2987.0m	Continued logging DSI of wireline log #1 to 2050m.
P15	P	C2	0030	0200	1.50	2987.0m	POOH Schlumberger log #1 XPT/DSI to surface. Prepared for radio silence for log #2.
P15	P	C1	0200	0330	1.50	2987.0m	Laid down tools from wireline log #1. Prepared for radio silence for log #2.
P15	P	C1	0330	0430	1.00	2987.0m	Made up Schlumberger log #2 SWC. Prepared for Radio silence.
P15	P	C2	0430	0600	1.50	2987.0m	RIH with log #2 SWC.

Operations For Period Hrs to Hrs on

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Phase Data to 2400hrs, 29 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	127.5	24 Jul 2008	29 Jul 2008	127.50	5.313	2987.0m

General Comments

00:00 TO 24:00 Hrs ON 29 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).
Operational Comments	Jars Ser No. 14161588: 127hrs

SBM Data — Cost Today US$ 2975

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	130sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	255127mg/l	H2O:	24%	YP	31lb/100ft²
		HTHP-FL:	4.0cc/30min	Elec.Stab.:	491mV	Oil(%):	55%	PV	36cp
Sample-From:	Pit 6	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	70/30
Time:	22:00	CaCl mud:	28.81			LGS:	6%	Gels 10s	13
Weight:	12.20sg	CaCl WP:				Oil On Cut:		Gels 10m	16
Temp:	26C°							Fann 003	11
Comment	Added premix weighted to 12.0ppg to maintain volume.							Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	67
								Fann 600	103

Bit # 9

Wear	I	O1	D	L	B	G	O2	R
	1	7	WT	S	X	I	RO	TD

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	9.50in	IADC#		No.	Size	Progress	0.0m	Cum. Progress	91.0m
Mfr:	SMITH	WOB(avg)	25.00klb	7	16/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	7.0h
Type:	PDC	RPM(avg)	160			IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	9.5h
Serial No.:	JY2802	F.Rate	725gpm			Total Revs		Cum Total Revs	0
Bit Model	M716PXC	SPP	3000psi			ROP(avg)	N/A	ROP(avg)	13.00 m/hr
Depth In	2896.0m	HSI							
Depth Out	2987.0m	TFA	1.374						

Bit Comment

BHA # 11

Weight(Wet)	29.00klb	Length	209.0m	Torque(max)	14000ft-lbs	D.C. (1) Ann Velocity	398fpm
Wt Below Jar(Wet)	7.00klb	String	220.00klb	Torque(Off.Btm)	4000ft-lbs	D.C. (2) Ann Velocity	414fpm
		Pick-Up	230.00klb	Torque(On.Btm)	10000ft-lbs	H.W.D.P. Ann Velocity	296fpm
		Slack-Off	205.00klb			D.P. Ann Velocity	296fpm

BHA Run Description: 9.5" PDC bit, bit sub, x/o, Ecoscope, Telescope, NMHWDP, X/O, 3x 5.5" HWDP, X/O, Jar, X/O, 15x 5.5"HWDP

BHA Run Comment

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Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.25m			JY2802	
Bit Sub	1.22m	6.50in			
X/O	0.46m	6.50in			
ECO Scope	8.04m	6.75in		763	
Tele Scope	8.52m	6.88in		EO330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in			
HWDP	28.03m	7.06in		5120301/36/34	
X/O	0.91m	7.00in			
Jar	9.73m	6.25in		14161588	
X/O	1.22m	7.00in			
HWDP	140.96m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	8	0	172.0
Rig Fuel	m3	0	4	0	287.0
POTABLE WATER	MT	8	27	0	214.0
Cement Class G	MT	0	0	0	64.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	5	0	181.0
SOBM	m3	0	0	0	48.0
Brine	m3	0	0	0	78.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2931.0	30	320	176	40	450	234	50	620	293
2931.0	30	320	176	40	410	234	50	600	293
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	37
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	17
Total	99

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	2958.7bbl
Active	335.0bbl
Mixing	
Hole	981.7bbl
Slug	
Reserve	1642.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 29 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	5kn	150.0deg	1009.0mbar	9C°	0.1m	130.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2677.00klb	1.6m	130.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		538.5
Potable Water	Mt		425
Drill Water	Mt		330
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		115.3
Brine	m3		119.2

Brine figure subject to confirmation.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		162.1
Potable Water	Mt		211
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1011 / 1032	8 / 9	Crew Change

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 7

30 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2987.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2604.7m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$1,778,700
Rig	West Triton	Days from spud	39.94	Shoe MDBRT	2590.8m	Cum Cost	US$43,900,800
Wtr Dpth (MSL)	56.000m	Days on well	6.31	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.0m	Current Op @ 0600	RIH with cement stinger at 1615m.		
RT-ML	97.100m	Planned TD TVDRT	2702.0m	Planned Op	Pending status of main engines. Continue to place cement plug in pilot hole. POOH and pick up DP for new horizontal section.		

Summary of Period 0000 to 2400 Hrs

Completed logging run #1 XPT/DSI. Rigged up and ran log #2 CST/GR. GR failed once in the hole. POOH and changed out GR at surface. Continued RIH and completed log #2 CST/GR. Picked up cement stinger, made up of 2.875in tubing, and RIH on 5.5in DP to 253m. Performed rig service.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at 10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		3 Days	Spill Drill - real time.	Reaction to the overflow at the upper transverse trough.
Dropped Object		17 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		5 Days	Relief derrickman caught hand at monkey board.	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		3 Days	Environmental spill.	Overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	27	0 Days		Stop cards submitted for the day.
Time Out For Safety	1	16 Days		Crane operator held discussion with banksmen regarding dogging techniques.

Operations For Period 0000 Hrs to 2400 Hrs on 30 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	P	E4	0000	0030	0.50	2987.0m	Continued logging DSI of wireline log #1 to 2050m.
P15	P	E4	0030	0200	1.50	2987.0m	POOH Schlumberger log #1 XPT/DSI to surface. Prepared for radio silence for log #2.
P15	P	G7	0200	0330	1.50	2987.0m	Laid down tools from wireline log #1. Prepared for radio silence for log #2.
P15	P	G7	0330	0430	1.00	2987.0m	Made up Schlumberger log #2 SWC. Prepared for Radio silence.
P15	P	E4	0430	0530	1.00	2987.0m	RIH with log #2 CST/GR to 2600m. GR did not function correctly.
P15	TP (TP)	E4	0530	1200	6.50	2987.0m	Troubleshot GR on log #2 CST/GR. POOH and changed out unit module. RIH to 1600m. GR still did not work. POOH to surface, changed out GR and RIH to 2600m
P15	P	E4	1200	1800	6.00	2987.0m	Continued with log #2 CST/GR - 60 shots run: 3 recovered, 2 misfires, 3 lost and 2 empty.
P15	P	G1	1800	1930	1.50	2987.0m	Rigged down Schlumberger wireline.
P15	P	G2	1930	2230	3.00	2987.0m	Held PJSM. Rigged up and ran 2.875in cement stinger consisting of mule shoe and 16 joints of 2.875in tubing to 165m.
P15	P	G8	2230	2300	0.50	2987.0m	Rigged down tubing equipment, made up x/overs and ran 5.5in DP to 253m.
P15	P	G11	2300	2400	1.00	2987.0m	Performed rig service - TDS.

Operations For Period 0000 Hrs to 0600 Hrs on 31 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	TP (RE)	G11	0000	0030	0.50	2987.0m	Continued rig service - topped up hydraulic fluid for TDS.
P15	TP (RE)	G11	0030	0100	0.50	2987.0m	2 x Main engines dropped out - reverted to emergency generator. Troubleshot problem - reset switches and restarted engines 2 & 3 and powered up rig.

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Printed on 30 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	TP (RE)	G8	0100	0400	3.00	2987.0m	Continued to RIH from 253m to 785m at very slow rate (8 stnds/hr) to prevent engines from tripping out. Engines shut down again at 03:20hrs and were powered up again at 03:30hrs.
P15	P	G8	0400	0600	2.00	2987.0m	Continued to trip at normal speeds - Driller monitoring power consumption levels at drill floor. RIH with cement stinger from 785m to 1615m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 30 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	151.5	24 Jul 2008	30 Jul 2008	151.50	6.313	2987.0m

General Comments

00:00 TO 24:00 Hrs ON 30 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) Only main engines 2 & 3 available for power generation. Engine 5 races after starting and needs checking, engine 1 has 9 bad injectors. Fuel may be to blame - appears to be contaminated with water and is being filtered. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Cooling fan for hydraulics sytem on TDS removed due to broken fan blades. 10) No whipline available on port crane due to damaged cable. Having to use main block, with the associated inefficiencies, to move loads (slow working speeds).

SBM Data — Cost Today US$ 123048

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	132sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	255127mg/l	H2O:	24%	YP	33lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	4.0cc/30min	Elec.Stab.:	490mV	Oil(%):	55%	PV	36cp
Time:	20:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	70/30
Weight:	12.20sg	CaCl mud:	28.81			LGS:	6%	Gels 10s	13
Temp:	20C°	CaCl WP:				Oil On Cut:		Gels 10m	16
								Fann 003	12
								Fann 006	14
								Fann 100	37
								Fann 200	
								Fann 300	69
								Fann 600	105

Comment	Built additional premix using 70bbl from slops pit. Cleaned slug pit and mixed cementers tuned spacer. Received 754bbl Base Oil and 716bbl Brine from Ocean Battler.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Drill Water	MT	0	34	0	138.0
Rig Fuel	m3	0	13	0	274.0
POTABLE WATER	MT	0	29	0	185.0
Cement class \'G\'	MT	0	0	0	64.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	181.0
SOBM	m3	121	48	0	121.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Brine	m3	114	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2931.0	30	320	176	40	450	234	50	620	293
2931.0	30	320	176	40	410	234	50	600	293
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	6
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	14
Total	97

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Eugene Edwards/Tim Waldhuter

Available	**3128.2bbl**
Active	347.5bbl
Mixing	
Hole	981.7bbl
Slug	
Reserve	1799.0bbl
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255	
Shaker 1	VSM-300	255	
Shaker 2	VSM-300	280	
Shaker 2	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 4	VSM-300	280	
Shaker 4	VSM-300	280	

Marine

Weather on 30 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	7kn	5.0deg	1004.0mbar	8C°	0.2m	130.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2644.00klb	1.4m	130.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		533.1
				Potable Water	Mt		320
				Drill Water	Mt		330
				CEMENT G	Mt		0
				Barite	Mt		84
				Bentonite	Mt		0
				Base Oil	m3		0
				Brine	m3		0
Pacific Valkyrie		18h00	Departed Geelong	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		639.7
				Potable Water	Mt		441
				Drill Water	m3		718
				CEMENT G	Mt		0
				Barite	Mt		105
				Bentonite	Mt		34.8
				SOBM	m3		5
				Base Oil	m3		0
				Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1000 / 1017	9 / 11	Crew Change

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 8

31 Jul 2008 **From:** B Openshaw/ R Rossouw
To: R Oliver

Longtom-4 P

Well Data

Country	Australia	MDBRT	2987.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2604.7m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	40.94	Shoe MDBRT	2590.8m	Cum Cost	US$4,753,000
Wtr Dpth(MSL)	55.968m	Days on well	7.31	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Completed picking up 9.5in BHA.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Continue RIH picking up 5.5in DP to drill start of horizontal section of Longtom-4.		

Summary of Period 0000 to 2400 Hrs

Serviced TDS, 2x main engines dropped off line, restarted engines and continued RIH from 253m to 785m. 2x main engines dropped off line, restarted engines and continued to RIH to shoe at 2591m. Troubleshoot engines, cleaned fuel settling tank and brought 3 engines back on line. Continued to RIH to 2858m, pumped CST at 2855m and placed balanced cement plug from 2848m to 2698m. Pulled up 6 stnds and circulated bottoms up. POOH cementing assy to 165m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		4 Days	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		18 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		6 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		4 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	10	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	17	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 31 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P15	TP (RE)	G11	0000	0030	0.50	2987.0m	Continued rig service - topped up hydraulic fluid for TDS.
P15	TP (RE)	G11	0030	0100	0.50	2987.0m	2x Main engines dropped out - revert to emergency generator. Troubleshoot problem, reset switches and restarted engines 2 & 3 and powered up rig.
P15	TP (RE)	G8	0100	0400	3.00	2987.0m	Continued to RIH from 253m to 785m at very slow rate (8 stnds/hr) to prevent engines from tripping out. Engines shut down again at 03h20 and were powered up again at 03h30.
P15	P	G8	0400	0830	4.50	2987.0m	Continued to trip at normal speeds by Driller monitoringing power consumption levels at drill floor. RIH with cement stinger from 785m to shoe at 2591m. Only 2 engines on line.
P15	TP (RE)	G11	0830	1400	5.50	2987.0m	Waited at shoe while troubleshooting problems on main engines. Swapped 5 injectors on engine #2, cleaned 6 injectors on engine 3, cleaned settling tank.
P15	P	G8	1400	1430	0.50	2987.0m	Engines 1, 2 and 3 back on line. Continued to RIH from 2591m to 2858m.
P15	P	F3	1430	1800	3.50	2987.0m	Dropped foam ball, circulated one string volume, inserted CST, pulled back to 2855m and displaced CST with 185bbl and pumped a further 50bbl of SBM . Spaced stinger to 2848m, made up side entry sub and kelly cock and pressure tested lines to 1000psi. Placed balanced cement plug from 2848m to 2698m by pumping ahead 10bbl water and 15bbl tuned spacer at 13.8ppg, 52bbl class G cement at 16.5ppg and behind: 5bbl tuned spacer and 3.5bbl water. Displaced cement down with 165bbl SBM.
P15	P	G8	1800	1900	1.00	2987.0m	Rigged down cement lines and side entry sub and slowly pulled up 6 stnds to place stinger at 2681m.
P15	P	F4	1900	2000	1.00	2987.0m	Circulated bottoms up at 800gpm.
P15	P	G8	2000	2400	4.00	2987.0m	Pumped 25bbl slug and POOH from 2681m to 165m - top of stinger.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							**** Consider this to be END OF SECTION LONGTOM-4 P ****

Operations For Period 0000 Hrs to 0600 Hrs on 01 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	G2	0000	0230	2.50	2698.0m	**** Start of LONGTOM-4 H **** Laid down 2.875in cement stinger jnts. Offline: Fitted overflow pipe on flowline.
P12	P	G6	0230	0600	3.50	2698.0m	Cleaned rig floor and made up 9.5in rotary steerable BHA and RIH with bit #10 to 214m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 31 Jul 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Pilot Hole (1)(P15)	175.5	24 Jul 2008	31 Jul 2008	175.50	7.313	2987.0m

General Comments

00:00 TO 24:00 Hrs ON 31 Jul 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) I BOP sticks and does not operate smoothly. No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Cooling fan for hydraulics sytem on TDS removed due to broken fan blades. 10) No whipline available on port crane due to damaged cable. Having to use main block, with the associated inefficiencies, to move loads (slow working speeds). 11) Remote controller for Iron Roughneck not operational.

SBM Data — Cost Today US$ 13213

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	110sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	231424mg/l	H2O:	26%	YP	36lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	5.0cc/30min	Elec.Stab.:	310mV	Oil(%):	54%	PV	37cp
Time:	21:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	68/32
Weight:	12.00sg	CaCl mud:	27.44			LGS:	6%	Gels 10s	12
Temp:	36C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	10
								Fann 006	12
								Fann 100	32
								Fann 200	
								Fann 300	73
								Fann 600	110

Comment: Prepare HW slug with Barite for POOH. Received LE Supermul, Tau Mod, Baraclean and Calcium Chloride from Ocean Battler.

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	122	4	0	256.0
Rig Fuel	m3	0	7	0	267.0
POTABLE WATER	MT	100	26	0	259.0
Cement Class G	MT	0	12	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	5	0	176.0
SOBM	m3	0	0	0	121.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2931.0	30	320	176	40	450	234	50	620	293
2931.0	30	320	176	40	410	234	50	600	293
	20		120	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	37
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	6
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3081.3bbl**
Active	374.0bbl
Mixing	
Hole	856.3bbl
Slug	
Reserve	1851.0bbl
Kill	

Losses	**44.3bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Left below plug	44.3bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

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Weather on 31 Jul 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	310.0deg	998.0mbar	9C°	0.8m	130.0deg	3s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	3014.00klb	1.3m	130.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		526
Potable Water	Mt		315
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		610.4
Potable Water	Mt		436
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0957 / 1013	9 / 16	Crew Change de-mob SCH W/Line

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 1

01 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	2689.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2404.4m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	41.94	Shoe MDBRT	2590.8m	Cum Cost	US$650,000
Wtr Dpth(MSL)	55.968m	Days on well	1.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	RIH at 1689m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Continue RIH with bit #10 and commence drilling kick-off section of Longtom-4 H.		

Summary of Period 0000 to 2400 Hrs

Laid down 2.875in cement stinger joints. Picked up bit #10 and rotary steerable BHA and RIH picking up DP from 214m to 293m. Repaired burst hose on iron roughneck and continued RIH picking up DP to 1246m. Performed rig service and installed cooler fan on TDS hydraulic system. RIH with pipe from derrick to 1452m. Shut down operations due to extreme winds: 55 - 70knots.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		5 Days	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		19 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		7 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		5 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday morning and 0045 on Sunday .
STOP Card	32	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 01 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	G2	0000	0230	2.50	2698.0m	**** Start of LONGTOM-4 H **** Laid down 2.875in cement stinger jnts. Offline: Fitted overflow pipe on flowline
P12	P	G6	0230	0600	3.50	2698.0m	Cleaned rig floor and made up 9.5in rotary steerable BHA, loaded RA source and RIH with bit #10 to 214m.
P12	P	P2	0600	0630	0.50	2698.0m	Shallow tested MWD tools @ 650gpm, 1650psi.
P12	P	G2	0630	0730	1.00	2698.0m	RIH with 9.5in bit #10, picking up DP from 214m to 293m.
P12	TP (RE)	G2	0730	0830	1.00	2698.0m	Hydraulic hose burst on Iron Roughneck - changed out same.
P12	P	G2	0830	1530	7.00	2698.0m	Continued RIH with bit #10 picking up Dp, from 293m to 1246m.
P12	P	G11	1530	1630	1.00	2698.0m	Performed rig service.
P12	TP (RE)	G2	1630	1830	2.00	2698.0m	Installed oil cooler fan and motor to TDS.
P12	P	G8	1830	1930	1.00	2698.0m	Continued RIH with pipe from derrick from 1246m to 1452m.
P12	TP (WOW)	G8	1930	2400	4.50	2698.0m	Shut down operations due to extreme winds - 55 to 70knots.

Operations For Period 0000 Hrs to 0600 Hrs on 02 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP	G8	0000	0530	5.50	2698.0m	Waiting on weather. Wind speeds from 36 - 55knots during this period.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	(WOW) P	G8	0000	0530	5.50	2698.0m	Wind speed 37 - 44knots. Continue RIH with 9.5in bit #10 from 1452m to 1689m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 01 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	24	01 Aug 2008	01 Aug 2008	24.00	1.000	2698.0m

General Comments

00:00 TO 24:00 Hrs ON 01 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) I BOP sticks and does not operate smoothly. No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Cooling fan for hydraulics sytem on TDS removed due to broken fan blades. 10) No whipline available on port crane due to damaged cable. Having to use main block, with the associated inefficiencies, to move loads (slow working speeds). 11) Remote controller for Iron Roughneck not operational. 12) Automatic drill pipe elevators not working.
Operational Comments	Wind speeds (knots): 19h30: 55-70, 21h13: 47-57, 22h04: 40-57, 23h24: 44-58, 00h24: 45-55, 01h30: 43-52, 02h45: 37-45, 03h30: 45-54,

SBM Data — Cost Today US$ 2500

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	123sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	240216mg/l	H2O:	26%	YP	36lb/100ft²
		HTHP-FL:	5.0cc/30min	Elec.Stab.:	304mV	Oil(%):	54%	PV	37cp
Sample-From:	Pit 6	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	68/32
Time:	20:00	CaCl mud:	28.81			LGS:	6%	Gels 10s	12
Weight:	12.00sg	CaCl WP:				Oil On Cut:		Gels 10m	18
Temp:	24C°							Fann 003	11
								Fann 006	13
								Fann 100	34
								Fann 200	
								Fann 300	73
								Fann 600	110

Comment: Prepare chemicals and check shakers for next hole section.

Bit # 10

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	M322	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	REED	WOB(avg)		No.	Size	Progress	Cum. Progress 0.0m
Type:	PDC	RPM(avg)		6	16/32nd"	On Bottom Hrs	Cum. On Btm Hrs 0.0h
Serial No.:	218795	F.Rate				IADC Drill Hrs	Cum IADC Drill Hrs 0.0h
Bit Model	RSR616M-B3	SPP				Total Revs	Cum Total Revs 0
Depth In	2698.0m	HSI				ROP(avg) N/A	ROP(avg) 0.00 m/hr
Depth Out		TFA	1.178				

Bit Comment

BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	14.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	58	0	198.0
Rig Fuel	m3	0	3	0	264.0
POTABLE WATER	MT	0	27	0	232.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	2	0	174.0
SOBM	m3	0	0	0	121.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
	30		176	40		234	50		293
	20		120	30		176	40		234

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	37
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	6
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3086.2bbl**
Active	448.0bbl
Mixing	
Hole	772.3bbl
Slug	
Reserve	1865.9bbl
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 01 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	45kn	270.0deg	1009.0mbar	9C°	3.0m	270.0deg	7s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2851.00klb	3.9m	270.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			En route Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		510.9
Potable Water	Mt		310
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		599.6
Potable Water	Mt		431
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0

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				Item	Unit	Used	Quantity
				Brine	m3		0

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DRILLING MORNING REPORT # 2

02 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	2719.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2422.7m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	23.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	42.94	Shoe MDBRT	2590.8m	Cum Cost	US$1,300,000
Wtr Dpth(MSL)	55.968m	Days on well	2.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling ahead at 2733m as per DD requirements		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Continue drilling ahead as per DD requirements.		

Summary of Period 0000 to 2400 Hrs

Waited for weather to subside and continued RIH from 1452m to TOC at 2690m. Drilled cement from 2690m to 2696m and reamed this drilled section to prepare for kick-off. Time drilled from 2696m to 2719m to commence kick-off.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
Drills		6 Days	Spill Drill - real time	Reaction to the overflow at the upper transverse trough.
Dropped Object		20 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		8 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		6 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	10	0 Days		Permit to work issued for the day.
Safety Meeting	1	1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	23	0 Days		Stop cards submitted for the day.
ToolBox Talk	4	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 02 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP (WOW)	G8	0000	0500	5.00	2698.0m	Waiting on weather. Wind speeds from 36 - 55knots during this period.
P12	TP (WOW)	G23	0500	0530	0.50	2698.0m	Wind speed 37 - 44knots. Held Time-out for Safety and PJSM prior to continue RIH.
P12	P	G8	0530	0900	3.50	2690.0m	Continue RIH with 9.5in bit #10 from 1452m to TOC at 2690m. Tagged cement with 25klbs. Filled string every 15stnds, broke circulation at shoe.
P12	P	D1	0900	1100	2.00	2696.0m	Drilled cement from 2690m to 2696m. Reamed drilled section several times to prepare ledge for sidetrack.
P12	P	D4	1100	2400	13.00	2719.0m	Time drilled as per DD requirements from 2696m to 2719m to commence kick-off. Sample at 2719: 70% formation, 30% cement. Drilling parameters: 680gpm, 2500psi, 120rpm, WOB 5-7klbs, Trq 5-6kft-lbs.

Operations For Period 0000 Hrs to 0600 Hrs on 03 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0600	6.00	0.0m	Drill ahead 9.5in controlled drilling as per DD requirements from 2719m to 2733m. Sample at 2723m: 90% formation, 10% cement. Sample at 2727m: 95% formation, 5% cement. Increased allowable ROP in stages and confirmed sample composition at each increase to ensure kick-off not dropping back into pilot hole.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 02 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	48	01 Aug 2008	02 Aug 2008	48.00	2.000	2719.0m

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General Comments

00:00 TO 24:00 Hrs ON 02 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order - delivery mid September. 2) Number 4 main generator down. Exciter and generator sent ashore. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working.
Operational Comments	Hours on jar ser. No 1416-1515: 16hrs

SBM Data

Cost Today US$ 14451

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	92sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	255329mg/l	H2O:	24%	YP	45lb/100ft²
Sample-From:	Flowline	HTHP-FL:	4.0cc/30min	Elec.Stab.:	640mV	Oil(%):	56%	PV	30cp
Time:	21:20	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	28.15			LGS:	6%	Gels 10s	15
Temp:	59C°	CaCl WP:				Oil On Cut:		Gels 10m	21
								Fann 003	12
								Fann 006	14
								Fann 100	39
								Fann 200	
								Fann 300	75
								Fann 600	120

Comment: Added Barite to active as required to maintain mud weight 12.0ppg. Added 1.6ppb LE Supermul, 0.6ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties. Adding premix at 10.0ppg to maintain volume and mud weight. Checked shaker screens regularly and replaced damaged screens as required.

Bit # 10

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	M322	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	7000.00klb	No.	Size	Progress	23.0m	Cum. Progress	23.0m
Type:	PDC	RPM(avg)	120	6	16/32nd"	On Bottom Hrs	13.2h	Cum. On Btm Hrs	13.2h
Serial No.:	218795	F.Rate	655gpm			IADC Drill Hrs	13.0h	Cum IADC Drill Hrs	13.0h
Bit Model	RSR616M-B3	SPP	2500psi			Total Revs		Cum Total Revs	0
Depth In	2690.0m	HSI				ROP(avg)	1.74 m/hr	ROP(avg)	1.74 m/hr
Depth Out		TFA	1.178						

Bit Comment

BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	6000ft-lbs	D.C. (1) Ann Velocity	374fpm
Wt Below Jar(Wet)	14.00klb	String	212.00klb	Torque(Off.Btm)	5000ft-lbs	D.C. (2) Ann Velocity	347fpm
		Pick-Up	230.00klb	Torque(On.Btm)	5000ft-lbs	H.W.D.P. Ann Velocity	268fpm

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	Slack-Off	200.00klb		D.P. Ann Velocity	268fpm
BHA Run Description	9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.				
BHA Run Comment					

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	198.0
Rig Fuel	m3	0	24	0	240.0
POTABLE WATER	MT	0	30	0	202.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	11	0	163.0
SOBM	m3	0	0	0	121.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	56	2500	327
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97	56	2500	327

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
2690.0	30	380	176	40	500	234	50	700	293
	30		176	40		234	50		293
2690.0	20	360	120	30	490	176	40	650	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	6

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Personnel On Board

K&M	1
Total	92

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3084.8bbl**	**Losses**	**18.0bbl**
Active	406.0bbl	Downhole	
Mixing		Surf+ Equip	6.0bbl
Hole	719.8bbl	Dumped	
Slug		De-Gasser	
Reserve	1959.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Evaporation	12.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 02 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	270.0deg	1016.0mbar	10C°	2.0m	160.0deg	6s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2842.00klb	2.8m	160.0deg	9s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		499.5
Potable Water	Mt		455
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		585.7
Potable Water	Mt		426
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		0
Brine	m3		0

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 3

03 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	3006.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2573.4m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	287.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$687,300
Rig	West Triton	Days from spud	43.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$46,647,500
Wtr Dpth (MSL)	55.968m	Days on well	3.00	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Drilling ahead as per DD requirements at 3083m		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Drill ahead as per DD requirements to intersect the "50" sands.		

Summary of Period 0000 to 2400 Hrs

Drilled ahead 9.5in hole as per DD requirements from 2719m to 3006m (2573.4mTVD).

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		7 Days	Held at 10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		12 Days	Pressure test on nipple up.	
Drills		7 Days	Spill Drill - real time.	Reaction to the overflow at the upper transverse trough.
Dropped Object		21 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		9 Days	Relief derrickman caught hand at monkey board.	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		7 Days	Environmental spill.	Overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs.
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 hours Saturday and 0045 hours on Sunday.
STOP Card	24	0 Days		Stop cards submitted for the day.
Time Out For Safety	2	1 Day		

Operations For Period 0000 Hrs to 2400 Hrs on 03 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	2400	24.00	3006.0m	Drilled ahead 9.5in controlled drilling as per DD requirements from 2719m to 3006m. Sample at 2723m: 90% formation, 10% cement. Sample at 2727m: 95% formation, 5% cement. After kick-off, increased allowable ROP in stages and confirmed sample composition at each increase to ensure kick-off not dropping back into pilot hole. Drilling parameters: 150 RPM, 8-10klbs WOB, 730gpm, 2500psi, 11-12kftlbs torque. MWD tools did not provide accurate directional data after 2941m. Used Xceed to provide necessary data.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0500	5.00	3081.0m	Drilled ahead 9.5in controlled drilling as per DD requirements from 3006m to 3081m.
P12	TP (RE)	D4	0500	0530	0.50	3081.0m	Repaired hydraulic leak on TDS.
P12	P	D4	0530	0600	0.50	3081.0m	Made connection and drilled ahead 9.5in controlled drilling as per DD requirements from 3081m to 3083m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 03 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	72	01 Aug 2008	03 Aug 2008	72.00	3.000	3006.0m

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Printed on 04 Aug 2008

General Comments

00:00 TO 24:00 Hrs ON 03 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 7.2) Injector leak on engine 1 caused diesel to ingress into engine oil in the sump necessitating change out of engine oil. 7.3) Excessive blow-by observed through oil filler cap when it is removed (all 3 engines). 7.4) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 40hrs
Operational Comments	MWD tools not providing reliable directional readings after 2941m. Using Xceed to provide necessary data.

SBM Data

Cost Today AUD$ 8047

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	92sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	245966mg/l	H2O:	24%	YP	45lb/100ft²
Sample-From:	Flowline	HTHP-FL:	4.0cc/30min	Elec.Stab.:	650mV	Oil(%):	55%	PV	32cp
Time:	21:30	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	70/30
Weight:	12.00sg	CaCl mud:	27.44			LGS:	8%	Gels 10s	14
Temp:	62C°	CaCl WP:				Oil On Cut:		Gels 10m	25
								Fann 003	11
								Fann 006	13
								Fann 100	40
								Fann 200	
								Fann 300	77
								Fann 600	122

Comment: Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (4x280 mesh new screens used). Adde Barite as required to maintain mud weight 12.0ppg. Returned 435bbl slops pit (pit 4) to Valkyrie (approx 35/65 O/W ratio). Run centrifuges in Barite recovery mode to reduce LGS.

Bit # 10

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	9.50in	IADC#	M322	No.	Size	Progress	287.0m	Cum. Progress	310.0m
Mfr:	REED	WOB(avg)	8.00klb	6	16/32nd"	On Bottom Hrs	17.4h	Cum. On Btm Hrs	30.6h
Type:	PDC	RPM(avg)	150			IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	37.0h
Serial No.:	218795	F.Rate	730gpm			Total Revs		Cum Total Revs	0
Bit Model	RSR616M-B3	SPP	2800psi			ROP(avg)	16.49 m/hr	ROP(avg)	10.13 m/hr
Depth In	2690.0m	HSI							
Depth Out		TFA	1.178						

Bit Comment

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BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	14000ft-lbs	D.C. (1) Ann Velocity	417fpm
Wt Below Jar(Wet)	14.00klb	String	221.00klb	Torque(Off.Btm)	8000ft-lbs	D.C. (2) Ann Velocity	386fpm
		Pick-Up	264.00klb	Torque(On.Btm)	11000ft-lbs	H.W.D.P. Ann Velocity	298fpm
		Slack-Off	213.00klb			D.P. Ann Velocity	298fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
2911.49	62.8	188.2	2479.13	-1294.9	-1294.9	-91.2	6.0	
2941.41	65.1	188.8	2492.27	-1321.5	-1321.5	-95.2	2.4	
2957.37	66.5	189.1	2498.82	-1335.9	-1335.9	-97.5	2.7	
2987.28	68.4	190.1	2510.28	-1363.1	-1363.1	-102.1	2.1	
3016.23	69.9	189.2	2520.59	-1389.8	-1389.8	-106.6	1.8	
3046.70	71.9	185.9	2530.56	-1418.3	-1418.3	-110.4	3.6	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Drill Water	MT	0	24	0	174.0
Rig Fuel	m3	0	17	0	223.0
POTABLE WATER	MT	148	34	0	316.0
Cement class \'G\'	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	9	0	154.0
SOBM	m3	0	0	0	121.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	60	2850	350
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97	60	2850	350

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
2962.0	30	400	176	40	490	234	50	620	293
2962.0	30	380	176	40	490	234	50	620	293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m /	200bbl class "G" at 15.8ppg, TOC at 1900m

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
		2337.57m	

Personnel On Board

Company	Pax
ADA	7
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	6
K&M	1
Total	92

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2531.2bbl**	**Losses**	**136.7bbl**
Active	471.0bbl	Downhole	20.7bbl
Mixing		Surf+ Equip	96.0bbl
Hole	785.2bbl	Dumped	
Slug		De-Gasser	
Reserve	1275.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Evaporation	20.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280
Shaker 4	VSM-300	280

Comments

Returned 435 bbl from slops pit (O/W ratio approx. 35/65)to Ocean Valkyrie.

Marine

Weather on 03 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	7kn	70.0deg	1017.0mbar	12C°	0.5m	140.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2834.00klb	1.2m	140.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		497.4
Potable Water	Mt		450
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		573.2
Potable Water	Mt		283
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		79
Base Oil	m3		0
Brine	m3		0

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Printed on 04 Aug 2008

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 4

04 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	3259.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2632.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	253.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	44.94	Shoe MDBRT	2590.8m	Cum Cost	US$2,600,000
Wtr Dpth(MSL)	55.968m	Days on well	4.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling ahead as per DD requirements at 3400m		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Drill ahead as per DD requirements to intersect the "100" sands.		

Summary of Period 0000 to 2400 Hrs

Drilling ahead as per DD requirements from 3006m to 3259m (2632.9mTVD). A hydraulic hose was repaired on the TDS and 0.5hrs was spent recycling the pumps to reactivate the MWD tools.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		8 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		13 Days	Pressure test on nipple up	14 Days - 6th August 21 Days - 13th August
Drills	1	1 Day	Spill Drill	Spill drill conducted by QTEC and Tasman Oil Tools
Dropped Object		22 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		10 Days	Relief derrickman caught hand at monkey board	The relief derrickman was pulling back pipe when he lost his balance and placed his hand in such a position to have it caught between the pipe and the finger latch.
Incident		8 Days	Environmental spill	overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	33	0 Days		Stop cards submitted for the day.
ToolBox Talk	5	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0500	5.00	3081.0m	Drilled ahead 9.5in controlled drilling as per DD requirements from 3006m to 3081m.
P12	TP (RE)	D4	0500	0530	0.50	3081.0m	Repair hydraulic leak on TDS.
P12	P	D4	0530	2330	18.00	3259.0m	Drilled ahead 9.5in controlled drilling as per DD requirements from 3081m to 3259m. Drilling parameters: 150rpm, 10klbs WOB, 125stks, 730gpm, 2900psi.
P12	TP (TP)	D4	2330	2400	0.50	3259.0m	Cycle pumps and move pipe to restart MWD tools as per DD instructions.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0600	6.00	3400.0m	Drill ahead 9.5in hole as per DD requirements from 3259m to 3400m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 04 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	96	01 Aug 2008	04 Aug 2008	96.00	4.000	3259.0m

General Comments

00:00 TO 24:00 Hrs ON 04 Aug 2008

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Printed on 04 Aug 2008

General Comments

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 7.2) Excessive blow-by observed through oil filler cap when it is removed (all 3 engines). 7.3) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 53hrs
Operational Comments	MWD tools not providing reliable directional readings after 2941m. Using Xceed to provide necessary data. MWD tool requiring frequent recycling of pumps after a connection to obtain communication response from tool.

SBM Data

Cost Today US$ 14794

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	85sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	271562mg/l	H2O:	21%	YP	48lb/100ft²
		HTHP-FL:	3.0cc/30min	Elec.Stab.:	785mV	Oil(%):	56%	PV	27cp
Sample-From:	Flowline	HTHP-cake:	2/32nd"			Sand:	0.5	O/W Ratio:	72/28
Time:	21:40	CaCl mud:	27.44			LGS:	11%	Gels 10s	14
Weight:	12.10sg	CaCl WP:				Oil On Cut:	9%	Gels 10m	25
Temp:	64C°							Fann 003	11
								Fann 006	13
								Fann 100	38
								Fann 200	
								Fann 300	75
								Fann 600	123

Comment: Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (5x280 mesh new screens used). Weighted premix to 12.0ppg with Barite to allow addition without reduction in mud weight. Run centrifuges in Barite recovery mode to reduce LGS. Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results.

Bit # 10

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Size ("):	9.50in	IADC#	M322	No.	Size	Progress	253.0m	Cum. Progress	563.0m
Mfr:	REED	WOB(avg)	8.00klb	6	16/32nd"	On Bottom Hrs	13.9h	Cum. On Btm Hrs	44.5h
Type:	PDC	RPM(avg)	150			IADC Drill Hrs	23.0h	Cum IADC Drill Hrs	60.0h
Serial No.:	218795	F.Rate	730gpm			Total Revs		Cum Total Revs	0
Bit Model	RSR616M-B3	SPP	2900psi			ROP(avg)	18.20 m/hr	ROP(avg)	12.65 m/hr
Depth In	2690.0m	HSI							
Depth Out		TFA	1.178						

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Bit Comment

BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	13000ft-lbs	D.C. (1) Ann Velocity	417fpm
Wt Below Jar(Wet)	14.00klb	String	218.00klb	Torque(Off.Btm)	8000ft-lbs	D.C. (2) Ann Velocity	386fpm
		Pick-Up	270.00klb	Torque(On.Btm)	10000ft-lbs	H.W.D.P. Ann Velocity	298fpm
		Slack-Off	211.00klb			D.P. Ann Velocity	298fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
3076.34	72.8	185.3	2539.55	-1446.4	-1446.4	-113.2	1.1	
3106.22	72.9	185.5	2548.36	-1474.8	-1474.8	-115.8	0.2	
3136.04	76.0	186.2	2556.35	-1503.4	-1503.4	-118.8	3.2	
3164.24	80.1	185.2	2562.19	-1530.9	-1530.9	-121.5	4.5	
3194.93	79.5	186.0	2567.62	-1560.9	-1560.9	-124.5	1.0	
3224.35	81.5	184.3	2572.48	-1589.8	-1589.8	-127.1	2.7	
3254.13	84.4	184.1	2576.14	-1619.3	-1619.3	-129.2	2.9	
3283.78	87.2	180.5	2578.31	-1648.8	-1648.8	-130.4	4.6	
3313.51	90.4	179.5	2578.93	-1678.5	-1678.5	-130.4	3.4	
3343.47	93.1	182.4	2578.01	-1708.5	-1708.5	-130.9	4.0	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	36	0	138.0
Rig Fuel	m3	0	17	0	206.0
POTABLE WATER	MT	0	28	0	288.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	17	2	139.0
SOBM	m3	0	2	0	119.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	62	2900	363
2	National 14 P-220	6.50	1.44	97	62	2900	363
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
3228.0	30	400	176	40	450	234	50	550	293
3228.0	30	300	176	40	450	234	50	600	293
	30		176	40		234	50		293

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Reach	1
Schlumberger	6
K&M	1
Total	92

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2422.6bbl**
Active	410.0bbl
Mixing	
Hole	840.6bbl
Slug	
Reserve	1172.0bbl
Kill	

Losses	**145.0bbl**
Downhole	44.0bbl
Surf+ Equip	81.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	20.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 04 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	5kn	130.0deg	1016.0mbar	12C°	0.1m	120.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2780.00klb	0.6m	120.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			En route to rig

Item	Unit	Used	Quantity
Rig Fuel	m3		492
Potable Water	Mt		445
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		570.4
Potable Water	Mt		278
Drill Water	m3		718
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		79

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Item	Unit	Used	Quantity
Base Oil	m3		0
Brine	m3		0

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DRILLING MORNING REPORT # 5

05 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	3577.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2626.0m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	318.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$739,100
Rig	West Triton	Days from spud	45.94	Shoe MDBRT	2590.8m	Cum Cost	US$48,078,700
Wtr Dpth (MSL)	56.000m	Days on well	5.00	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.0m	Current Op @ 0600	POOH at 1100m to change out MWD and other BHA tools.		
RT-ML	97.100m	Planned TD TVDRT	2702.0m	Planned Op	Complete POOH, change out bit and BHA tools, pick up more DP and RIH to drill ahead.		

Summary of Period 0000 to 2400 Hrs

Drilled 9.5in hole as per DD requirements from 3259m to 3577m (2626mTVD). MWD tool failed a number of times during this period and had to be restarted by recyling pumps. Decison made to POOH to change BHA tools. Circulated 2x bottoms up and POOH from 3577m to 3149m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		9 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		14 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Drills	1	2 Days	Spill Drill	Spill drill conducted by QTEC and Tasman Oil Tools
Dropped Object		23 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		0 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
Incident		9 Days	Environmental spill	Overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 hours Saturday and 0045 hours on Sunday .
STOP Card	30	0 Days		Stop cards submitted for the day.

Operations For Period 0000 Hrs to 2400 Hrs on 05 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	1430	14.50	3525.0m	Drill ahead 9.5in hole as per DD requirements from 3259m to 3525m. (2627.2mTVD) Drilling parameters: 150rpm, 8klbs WOB, 125stks, 730gpm, 3200psi.
P12	TP (DH)	D4	1430	1530	1.00	3525.0m	Problems with MWD tool. Broke out TDS, racked back one stand, reciprocated pipe, connected TDS and restart MWD.
P12	P	D4	1530	1830	3.00	3573.0m	Continued drilling ahead from 3525m to 3573m.
P12	TP (DH)	D4	1830	1900	0.50	3573.0m	Problem with MWD tool. Reciprocate pipe and recycle pumps to start MWD tool.
P12	P	D4	1900	1930	0.50	3577.0m	Continued drilling from 3573m to 3577m (2626.0mTVD). Further problems with MWD tool.
P12	TP (DH)	F4	1930	2200	2.50	3577.0m	Circulate 1x bottoms up while working first stand of pipe. 180rpm, 700gpm during circulation. Rack back one stand and circulate 1x bottoms up while working second stand pipe. 180rpm, 700gpm during circulation.
P12	TP (DH)	G8	2200	2400	2.00	3577.0m	POOH from 3577m to 3149m under K&M supervision. Work tight spots, without circulation, from 3230m to 3147m for 4 stnds. Over pull 20 klbs to max 35klbs.

Operations For Period 0000 Hrs to 0600 Hrs on 06 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP (DH)	G8	0000	0230	2.50	3577.0m	Continued POOH from 3149m to 10.75in shoe at 2591m. Tight spots from 3230m to 3147m for 4 stnds and from 2751m to 2748m. Max o/pull 35klbs.
P12	TP	F3	0230	0300	0.50	3577.0m	Performed flowcheck at 10.75in shoe and pumped slug.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	(DH) TP (DH)	G8	0300	0600	3.00	3577.0m	Continued POOH from 2591m to 1100m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 05 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	120	01 Aug 2008	05 Aug 2008	120.00	5.000	3577.0m

General Comments

00:00 TO 24:00 Hrs ON 05 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Only main engines 1, 2 & 3 available for power generation. Engine 5 awaiting new injectors. Problems relating to engines may be caused by fuel contaminated with water. 7.2) Excessive blow-by observed through oil filler cap when it is removed (all 3 engines). 7.3) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 74hrs
Operational Comments	MWD tools not providing reliable directional readings after 2941m. Using Xceed to provide necessary data. MWD tool requiring frequent recycling of pumps after a connection to obtain communication response from tool.
Operational Comments	Magnetic material collected in flowline during 24hrs: 1.85kg Accumulated total: 1.85kg

SBM Data — Cost Today US$ 937

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	78sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	302419mg/l	H2O:	20%	YP	31lb/100ft²
Sample-From:	Flowline	HTHP-FL:	3.0cc/30min	Elec.Stab.:	760mV	Oil(%):	60%	PV	40cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	0.5	O/W Ratio:	75/25
Weight:	12.10sg	CaCl mud:	26.21			LGS:	5%	Gels 10s	14
Temp:	64C°	CaCl WP:				Oil On Cut:	9%	Gels 10m	25
								Fann 003	10
								Fann 006	12
								Fann 100	37
								Fann 200	
								Fann 300	71
								Fann 600	111

Comment	Checked shaker screens regularly for damage and replaced screens as necessary (4x330 mesh new screens used). Run centrifuges in Barite recovery mode to reduce LGS. Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results.

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Bit # 10

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	M322	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	11.00klb	No.	Size	Progress	318.0m	Cum. Progress	881.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	10.3h	Cum. On Btm Hrs	54.8h
Serial No.:	218795	F.Rate	750gpm			IADC Drill Hrs	18.0h	Cum IADC Drill Hrs	78.0h
Bit Model	RSR616M-B3	SPP	3300psi			Total Revs		Cum Total Revs	0
Depth In	2690.0m	HSI				ROP(avg)	30.87 m/hr	ROP(avg)	16.08 m/hr
Depth Out	3577.0m	TFA	1.178						

Bit Comment

BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	16000ft-lbs	D.C. (1) Ann Velocity	428fpm
Wt Below Jar(Wet)	14.00klb	String	217.00klb	Torque(Off.Btm)	9000ft-lbs	D.C. (2) Ann Velocity	397fpm
		Pick-Up	270.00klb	Torque(On.Btm)	13000ft-lbs	H.W.D.P. Ann Velocity	306fpm
		Slack-Off	206.00klb			D.P. Ann Velocity	306fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.00	0.0	0.0	0.00	
3373.36	94.00	181.60	2576.16	-1738.29	-1738.3	-131.9	1.21	
3402.75	93.90	178.30	2574.14	-1767.61	-1767.6	-131.9	3.36	
3431.88	91.10	178.10	2572.87	-1796.69	-1796.7	-131.0	2.89	
3461.34	91.70	178.80	2572.15	-1826.13	-1826.1	-130.2	0.94	
3492.03	91.50	180.60	2571.29	-1856.81	-1856.8	-130.0	1.77	
3521.63	91.30	178.90	2570.57	-1886.40	-1886.4	-129.9	1.73	
3551.39	91.40	180.80	2569.87	-1916.15	-1916.1	-129.8	1.92	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Drill Water	MT	100	15	0	223.0
Rig Fuel	m3	100	17	0	289.0
POTABLE WATER	MT	6	28	0	266.0
Cement class \'G\'	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	4	0	135.0
SOBM	m3	0	0	0	119.0
Brine	m3	0	0	0	192.0

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Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	65	3200	380
2	National 14 P-220	6.50	1.44	97	65	3200	380
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	30		176	40		234	50		293
3437.0	30	350	176	40	500	234	50	690	293
3437.0	30	340	176	40	500	234	50	680	293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	8
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	6
K&M	1
Cameron	1
Total	92

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2261.0bbl**
Active	429.0bbl
Mixing	
Hole	849.0bbl
Slug	
Reserve	983.0bbl
Kill	

Losses	**115.8bbl**
Downhole	18.8bbl
Surf+ Equip	82.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	15.0bbl

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	255	
Shaker 1	VSM-300	255	
Shaker 2	VSM-300	280	
Shaker 2	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 4	VSM-300	280	
Shaker 4	VSM-300	280	

Marine

Weather on 05 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	13kn	155.0deg	1012.0mbar	9C°	0.1m	80.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2905.00klb	0.8m	80.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	17h00		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		465.9
Potable Water	Mt		440

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				Item	Unit	Used	Quantity
				Drill Water	Mt		150
				CEMENT G	Mt		0
				Barite	Mt		84
				Bentonite	Mt		0
				Base Oil	m3		0
				Brine	m3		118
Pacific Valkyrie			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		456.1
				Potable Water	Mt		273
				Drill Water	m3		618
				CEMENT G	Mt		0
				Barite	Mt		105
				Bentonite	Mt		34.8
				SOBM	m3		79
				Base Oil	m3		0
				Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1050 / 1109	13 / 13	Crew Change

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DRILLING MORNING REPORT # 6

06 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	3577.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2626.0m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$747,000
Rig	West Triton	Days from spud	46.94	Shoe MDBRT	2590.8m	Cum Cost	US$48,825,700
Wtr Dpth (MSL)	56.000m	Days on well	6.00	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.0m	Current Op @ 0600	Washing and reaming while RIH at 3228m.		
RT-ML	97.100m	Planned TD TVDRT	2702.0m	Planned Op	Continue RIH and drill ahead 9.5in hole from 3577m.		

Summary of Period 0000 to 2400 Hrs

POOH, due to MWD failure, with bit #10 from 3149m to 214m, flowchecking at shoe. Laid out all BHA tools, changed bit and BHA tools and RIH to 2577m shallow testing tools at 273m. Commenced changing out saver sub on TDS.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		10 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		15 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Drills	1	3 Days	Spill Drill	Spill drill conducted by QTEC and Tasman Oil Tools
Dropped Object		24 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		10 Days	Environmental spill	Overflow at upper transverse trough due to blocked flow line. Approximately 65 ltrs .
MTC		1 Day	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
PTW issued	5	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 hours Saturday and 0045 hours on Sunday .
STOP Card	22	0 Days		Stop cards submitted for the day.

Operations For Period 0000 Hrs to 2400 Hrs on 06 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP (DH)	G8	0000	0230	2.50	3577.0m	Continued to POOH from 3149m to 10.75in, shoe at 2590m. Tight spots from 3230m to 3147m for 4 stnds and from 2751m to 2748m. Max o/pull 35klbs.
P12	TP (DH)	F3	0230	0300	0.50	3577.0m	Performed flowcheck at 10.75in shoe and pumped slug.
P12	TP (DH)	G8	0300	0700	4.00	3577.0m	Continued to POOH from 2591m to 214m. Flowchecked at BHA.
P12	TP (DH)	G8	0700	1300	6.00	3577.0m	Continued to POOH and lay down all BHA tools. Removed RA source from tools. Picked up new 9.5in bit and new MWD, LWD and rotary steerable tools. Loaded RA source in BHA and RIH with bit #11 to 273m.
P12	TP (DH)	P2	1300	1330	0.50	3577.0m	Made up TDS and shallow tested BHA tools.
P12	P	G11	1330	1600	2.50	3577.0m	Held JSA and slipped and cut of 80ft drill line.
P12	P	G11	1600	1700	1.00	3577.0m	Serviced TDS.
P12	TP (DH)	G8	1700	2200	5.00	3577.0m	Continued RIH with 9.5in bit #11 from 273m to 2577m filling every 15 stnds.
P12	TP (DH)	G11	2200	2400	2.00	3577.0m	Held JSA and commenced changing out saver sub and grabber dies on TDS.

Operations For Period 0000 Hrs to 0600 Hrs on 07 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP	G11	0000	0100	1.00	3577.0m	Continued with changing out saver sub and grabber dies on TDS.

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Printed on 06 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	(RE) TP (DH)	G8	0100	0230	1.50	3577.0m	Continued RIH from 2577m to 3129m. Hole tight.
P12	TP (DH)	F1	0230	0600	3.50	3577.0m	Worked pipe through tight spots including washing and reaming from 3129m to 3228m. Max 40klbs over sliding weight to RIH without rotation.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 06 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	144	01 Aug 2008	06 Aug 2008	144.00	6.000	3577.0m

General Comments

00:00 TO 24:00 Hrs ON 06 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Engines 2,3 and 5 currently on line and engine 1 is having injectors replaced. 7.2) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 74hrs
Operational Comments	Magnetic material collected in flowline during 24hrs: 0.0kg Accumulated total: 1.85kg

SBM Data — Cost Today US$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	110sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	291877mg/l	H2O:	20%	YP	31lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	5.0cc/30min	Elec.Stab.:	750mV	Oil(%):	60%	PV	43cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	0.5	O/W Ratio:	75/25
Weight:	12.10sg	CaCl mud:	27.81			LGS:	4%	Gels 10s	14
Temp:	30C°	CaCl WP:				Oil On Cut:	9%	Gels 10m	23
								Fann 003	11
								Fann 006	13
								Fann 100	38
								Fann 200	
								Fann 300	74
								Fann 600	117

Comment: Checked shaker screens regularly for damage and replaced screens as necessary (4x330 mesh new screens used). Run centrifuges in Barite recovery mode to reduce LGS. Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results.

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Bit # 10

Wear	I	O1	D	L	B	G	O2	R
	2	6	BT	S	X	I	JD	DTF

Bitwear Comments:

Size ("):	9.50in	IADC#	M322	**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	11.00klb	No.	Size	Progress	0.0m	Cum. Progress	881.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	54.8h
Serial No.:	218795	F.Rate	750gpm			IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	78.0h
Bit Model	RSR616M-B3	SPP	3300psi			Total Revs		Cum Total Revs	0
Depth In	2690.0m	HSI				ROP(avg)	N/A	ROP(avg)	16.08 m/hr
Depth Out	3577.0m	TFA	1.178						

Bit Comment

Bit # 11

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)		No.	Size	Progress		Cum. Progress	0.0m
Type:	PDC	RPM(avg)				On Bottom Hrs		Cum. On Btm Hrs	0.0h
Serial No.:	216535	F.Rate				IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Bit Model	RSX616M-A4	SPP				Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth Out		TFA	0.000						

Bit Comment

BHA # 12

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	16000ft-lbs	D.C. (1) Ann Velocity	428fpm
Wt Below Jar(Wet)	14.00klb	String	217.00klb	Torque(Off.Btm)	9000ft-lbs	D.C. (2) Ann Velocity	397fpm
		Pick-Up	270.00klb	Torque(On.Btm)	13000ft-lbs	H.W.D.P. Ann Velocity	306fpm
		Slack-Off	206.00klb			D.P. Ann Velocity	306fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		218795	
PD Xceed 675	7.66m	6.75in		241	
ECO Scope	8.05m	9.13in		963	
Tele Scope	8.52m	6.88in		EO 330	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.49m	7.00in		11560.3	
HWDP	56.23m	7.06in			
X/O	1.22m	7.00in		SSD7142	
Jar	9.62m	6.25in		1416-1515	
X/O	0.91m	7.00in		508A67	
HWDP	112.76m	7.00in			

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)		D.C. (1) Ann Velocity	0fpm
Wt Below Jar(Wet)	14.00klb	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	0fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

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Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Drill Water	MT	0	18	0	205.0
Rig Fuel	m3	0	13	0	276.0
POTABLE WATER	MT	12	29	0	249.0
Cement class \'G\'	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	135.0
SOBM	m3	0	0	0	119.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97					30		176	40		234	50		293
2	National 14 P-220	6.50	1.44	97				3437.0	30	350	176	40	500	234	50	690	293
3	National 14 P-220	6.50	1.44	97				3437.0	30	340	176	40	500	234	50	680	293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	8
Seadrill	14
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	6
K&M	1
Cameron	1
Total	94

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	2322.7bbl
Active	478.0bbl
Mixing	
Hole	977.7bbl
Slug	
Reserve	867.0bbl
Kill	

Losses	29.8bbl
Downhole	29.8bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 06 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	9kn	60.0deg	1009.0mbar	9C°	0.3m	80.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2926.00klb	1.3m	80.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	17h00		At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		456.7
Potable Water	Mt		435
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		00:25	En route to Geelong

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		456.1
Potable Water	Mt		273
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		79
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1433 / 1445	2 / 0	Urgent freight - injectors Seadrill management

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 7

07 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	3791.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2626.8m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	214.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	47.94	Shoe MDBRT	2590.8m	Cum Cost	US$4,550,000
Wtr Dpth(MSL)	55.968m	Days on well	7.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling ahead as per DD requirements at 3915m		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Drill ahead as per DD requirements.		

Summary of Period 0000 to 2400 Hrs

Changed out saver sub on TDS and continued RIH from 2577m to 3129m - hole tight. Worked tight spots and washed and reamed from 3129m to 3289m. Continued RIH from 3289m to 3555m. Washed and reamed to 3577m and drilled ahead as per DD from 3577m to 3791m (2626.8mTVD).

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		11 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		16 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Drills	1	4 Days	Spill Drill	Spill drill conducted by QTEC and Tasman Oil Tools
Dropped Object		25 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
First Aid Case		2 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
Incident		0 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
PTW issued	7	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	19	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	TP (RE)	G11	0000	0100	1.00	3577.0m	Continued with changing out saver sub and grabber dies on TDS.
P12	TP (DH)	G8	0100	0230	1.50	3577.0m	Continued RIH from 2577m to 3129m. Hole tight.
P12	TP (DH)	F1	0230	0700	4.50	3577.0m	Worked pipe through tight spots including washing and reaming from 3129m to 3289m. Max 40klbs over sliding weight to RIH without rotation.
P12	TP (DH)	G8	0700	0800	1.00	3577.0m	Continued RIH from 3289m to 3555m.
P12	TP (DH)	F1	0800	0830	0.50	3577.0m	Washed and reamed from 3555m to 3577m and established drilling parameters.
P12	P	D4	0830	2400	15.50	3791.0m	Continued controlled drilling as per DD and geology requirements from 3577m to 3791m (2626.8mTVD). Drilling parameters: 150rpm, 5-12klbs WOB, 600-720gpm, 2400-3100psi, 10-14kft-lbs torq, 25-30m/hr max ROP. Intersected "100" sand at 3635m.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0600	6.00	3915.0m	Continued controlled drilling as per DD and geology requirements from 3791m to 3915m.

Operations For Period Hrs to Hrs on

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Phase Data to 2400hrs, 07 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	168	01 Aug 2008	07 Aug 2008	168.00	7.000	3791.0m

General Comments

00:00 TO 24:00 Hrs ON 07 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Engines 1,2,3 and 5 currently operational. 7.2) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 89hrs
Operational Comments	Intersected "100" sands at 3635m.
Operational Comments	Magnetic material collected in flowline during 24hrs: 1.6kg Accumulated total: 3.45kg

SBM Data

Cost Today US$ 18079

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	272222mg/l	H2O:	22%
Sample-From:	Flowline	HTHP-FL:	5.0cc/30min	Elec.Stab.:	600mV	Oil(%):	58%
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25
Weight:	12.10sg	CaCl mud:	28.15			LGS:	5%
Temp:	57C°	CaCl WP:				Oil On Cut:	10%

Viscosity	81sec/qt
YP	32lb/100ft²
PV	42cp
O/W Ratio:	72.5/27.5
Gels 10s	14
Gels 10m	25
Fann 003	10
Fann 006	13
Fann 100	39
Fann 200	
Fann 300	74
Fann 600	116

Comment: Run centrifuges in Barite recovery mode to reduce LGS. Seepage losses of up to 10bbl/hr in Admiral 100 sand, added 3ppb sized Calcium Carbonate to active to minimize losses with good results.

Bit # 11

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	REED	WOB(avg)	7.00klb	No.	Size	Progress	214.0m	Cum. Progress	214.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	9.8h	Cum. On Btm Hrs	9.8h
Serial No.:	216535	F.Rate	708gpm			IADC Drill Hrs	15.5h	Cum IADC Drill Hrs	15.5h
Bit Model	RSX616M-A4	SPP	3050psi			Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	21.84 m/hr	ROP(avg)	21.84 m/hr
Depth Out		TFA	1.178						
Bit Comment									

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	14000ft-lbs	D.C. (1) Ann Velocity	404fpm
Wt Below Jar(Wet)	14.00klb	String	218.00klb	Torque(Off.Btm)	9000ft-lbs	D.C. (2) Ann Velocity	375fpm
		Pick-Up	226.00klb	Torque(On.Btm)	12000ft-lbs	H.W.D.P. Ann Velocity	289fpm
		Slack-Off	210.00klb			D.P. Ann Velocity	289fpm
BHA Run Description		9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.					
BHA Run Comment							

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
3564.74	91.4	180.9	2569.54	-1929.5	-1929.5	-130.0	0.2	
3594.59	91.5	181.0	2568.79	-1959.3	-1959.3	-130.5	0.1	
3624.29	91.5	182.6	2568.01	-1989.0	-1989.0	-131.5	1.6	
3653.86	91.7	184.3	2567.18	-2018.5	-2018.5	-133.2	1.7	
3684.08	90.3	183.8	2566.66	-2048.6	-2048.6	-135.4	1.5	
3711.90	89.7	185.0	2566.66	-2076.4	-2076.4	-137.5	1.4	
3740.99	88.5	184.9	2567.11	-2105.4	-2105.4	-140.0	1.2	
3770.39	85.5	184.6	2568.65	-2134.6	-2134.6	-142.5	3.1	
3799.79	83.8	184.6	2571.39	-2163.8	-2163.8	-144.8	1.7	
3829.12	82.9	183.9	2574.79	-2192.8	-2192.8	-147.0	1.2	
3859.22	84.0	183.2	2578.22	-2222.7	-2222.7	-148.8	1.3	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	6	0	199.0
Rig Fuel	m3	0	13	0	263.0
POTABLE WATER	MT	91	27	0	313.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	135.0
SOBM	m3	0	0	0	119.0
Brine	m3	0	0	0	192.0

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Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	60	3100	350
2	National 14 P-220	6.50	1.44	97	60	3100	350
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
3584.0	20	200	117	30	240	176	40	400	234
3584.0	20	190	117	30	240	176	40	400	234
3437.0	30	340	176	40	500	234	50	680	293

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	10
Seadrill	12
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	6
K&M	1
Cameron	2
Reach	1
Baker Atlas	4
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2405.5bbl**
Active	377.0bbl
Mixing	
Hole	958.5bbl
Slug	
Reserve	1070.0bbl
Kill	

Losses	**163.0bbl**
Downhole	55.0bbl
Surf+ Equip	88.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	20.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 07 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	6kn	140.0deg	1009.0mbar	9C°	0.3m	120.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	3005.00klb	1.6m	120.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		451.3
				Potable Water	Mt		355
				Drill Water	Mt		150
				CEMENT G	Mt		0
				Barite	Mt		84
				Bentonite	Mt		0
				Base Oil	m3		0
				Brine	m3		118

Pacific Valkyrie			At Geelong	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		422
				Potable Water	Mt		448
				Drill Water	m3		618
				CEMENT G	Mt		0
				Barite	Mt		105
				Bentonite	Mt		34.8
				SOBM	m3		74
				Base Oil	m3		0
				Brine	m3		119

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1012 / 1144	14 / 8	Crew Change Due to fog aircraft shutdown on rig

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 8

08 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4220.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2675.0m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	429.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	48.94	Shoe MDBRT	2590.8m	Cum Cost	US$5,200,000
Wtr Dpth(MSL)	55.968m	Days on well	8.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Drilling ahead 9.5in hole as per DD and geology requirements at 4352m (2675m TVD).		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Drill ahead to proposed final TD of 4520m.		

Summary of Period 0000 to 2400 Hrs

Drilled ahead 9.5in hole as per DD and geology requirements from 3791m to 4220m (2675m TVD).

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		12 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		17 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Drills	1	5 Days	Spill Drill	Spill drill conducted by QTEC and Tasman Oil Tools
Dropped Object		26 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		1 Day	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		3 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		7 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	28	0 Days		Stop cards submitted for the day.
ToolBox Talk	14	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 08 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	2400	24.00	4220.0m	Continued controlled drilling as per DD and geology requirements from 3791m to 4220m (2675m TVD). Drilling parameters: 10k WOB, 150rpm, 760gpm, 3600psi, 10-15kft-lbs torque.

Operations For Period 0000 Hrs to 0600 Hrs on 09 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0600	6.00	4352.0m	Continued controlled drilling as per DD and geology requirements from 4220m to 4352m (2671m TVD).

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 08 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	192	01 Aug 2008	08 Aug 2008	192.00	8.000	4220.0m

General Comments

00:00 TO 24:00 Hrs ON 08 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.

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General Comments

Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7.1) Engines 1,2,3 and 5 currently operational. 7.2) Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 113hrs
Operational Comments	Magnetic material collected in flowline during 24hrs: 2.32kg Accumulated total: 5.77kg

SBM Data

Cost Today US$ 15864

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	75sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	301346mg/l	H2O:	20%	YP	41lb/100ft²
Sample-From:	Flowline	HTHP-FL:	4.5cc/30min	Elec.Stab.:	450mV	Oil(%):	58%	PV	40cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	74.4/25.6
Weight:	12.00sg	CaCl mud:	29.12			LGS:	9%	Gels 10s	18
Temp:	66C°	CaCl WP:				Oil On Cut:	11%	Gels 10m	29
								Fann 003	12
								Fann 006	15
								Fann 100	44
								Fann 200	
								Fann 300	81
								Fann 600	121

Comment: Run centrifuges in Barite recovery mode to reduce LGS. Seepage losses of up to 10bbl/hr in Admiral 100 sand, added 3ppb sized Calcium Carbonate to active to minimize losses with good results.

Bit # 11

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#		**Nozzles**		**Drilled over last 24 hrs**		**Calculated over Bit Run**	
Mfr:	REED	WOB(avg)	12.00klb	No.	Size	Progress	429.0m	Cum. Progress	643.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	16.6h	Cum. On Btm Hrs	26.4h
Serial No.:	216535	F.Rate	760gpm			IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	39.5h
Bit Model	RSX616M-A4	SPP	3600psi			Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	25.84 m/hr	ROP(avg)	24.36 m/hr
Depth Out		TFA	1.178						

Bit Comment

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	15000ft-lbs	D.C. (1) Ann Velocity	434fpm
Wt Below Jar(Wet)	14.00klb	String	222.00klb	Torque(Off.Btm)	10000ft-lbs	D.C. (2) Ann Velocity	402fpm
		Pick-Up	295.00klb	Torque(On.Btm)	14000ft-lbs	H.W.D.P. Ann Velocity	310fpm
		Slack-Off	196.00klb			D.P. Ann Velocity	310fpm

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BHA Run Description	9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.
BHA Run Comment	

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
			0.00	0.0	0.0	0.0	0.0	
3888.65	86.1	183.1	2580.76	-2252.0	-2252.0	-150.4	2.1	
3918.67	88.7	185.5	2582.12	-2281.9	-2281.9	-152.7	3.5	
3948.20	89.6	186.3	2582.56	-2311.2	-2311.2	-155.7	1.2	
3977.71	87.0	185.6	2583.44	-2340.6	-2340.6	-158.8	2.7	
4006.54	83.8	184.1	2585.75	-2369.2	-2369.2	-161.2	3.7	
4035.61	82.1	183.2	2589.32	-2398.0	-2398.0	-163.0	2.0	
4065.35	82.2	183.8	2593.38	-2427.4	-2427.4	-164.8	0.6	
4094.84	79.9	183.5	2597.97	-2456.5	-2456.5	-166.7	2.4	
4124.38	77.6	183.6	2603.73	-2485.4	-2485.4	-168.5	2.3	
4153.91	78.9	185.0	2609.74	-2514.2	-2514.2	-170.6	1.9	
4183.07	81.4	187.3	2614.73	-2542.8	-2542.8	-173.7	3.5	
4212.97	85.2	190.6	2618.22	-2572.1	-2572.1	-178.3	5.0	
4242.27	89.9	193.9	2619.47	-2600.7	-2600.7	-184.6	5.9	
4270.99	92.7	195.7	2618.82	-2628.4	-2628.4	-191.9	3.5	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	3	0	196.0
Rig Fuel	m3	0	19	0	244.0
POTABLE WATER	MT	14	32	0	295.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	25	0	110.0
SOBM	m3	0	0	0	119.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	66	3600	386
2	National 14 P-220	6.50	1.44	97	66	3600	386
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4190.0	20	350	117	30	490	176	40	650	234
4190.0	20	350	117	30	490	176	40	630	234
3437.0	30	340	176	40	500	234	50	680	293

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	10
Seadrill	12
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	7
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	6
K&M	1
Cameron	2
Reach	1
Baker Atlas	4
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2225.0bbl**	**Losses**	**222.2bbl**	Equipment	Description	Mesh Size	Comments
Active	386.0bbl	Downhole	47.2bbl	Shaker 1	VSM-300	255	
Mixing		Surf+ Equip	155.0bbl	Shaker 2	VSM-300	280	
Hole	1053.0bbl	Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	786.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					
		Evaporation	20.0bbl				

Marine

Weather on 08 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	2kn	250.0deg	1020.0mbar	10C°	0.9m	120.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2914.00klb	1.5m	120.0deg	8s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		21h30	En route Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		446.2
Potable Water	Mt		350
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	22.30		At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		395.3
Potable Water	Mt		443
Drill Water	m3		618
CEMENT G	Mt		0

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Item	Unit	Used	Quantity
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		74
Base Oil	m3		0
Brine	m3		119

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Printed on 08 Aug 2008

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 9

09 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4582.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2688.3m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	362.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	49.94	Shoe MDBRT	2590.8m	Cum Cost	US$5,850,000
Wtr Dpth(MSL)	55.968m	Days on well	9.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Circulating to clean hole after well was TD'd at 4648m (2695.9m TVD). Current bit depth 4590m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Circulate hole clean and POOH in stages to prepare well for running of 7in liner.		

Summary of Period 0000 to 2400 Hrs

Drilled ahead 9.5in hole as per DD and geology requirements from 4220m to 4558m. Repaired leaking wash pipe. Decisiion from Nexus to continue drilling requiring picking up of extra DP. POOH 5 stnds, RIH picking up 10jnts HT55 and 2jnts XT57 DP - first jnt requiring reaming to enable RIH. Drilled ahead from 4558m to 4582m (2688.3m TVD).

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		13 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		18 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Dropped Object		27 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		2 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		4 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting		0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	25	0 Days		Stop cards submitted for the day.
ToolBox Talk	11	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 09 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	1800	18.00	4558.0m	Continued controlled drilling as per DD requirements from 4220m to 4558m. Drilling parameters: 150rpm, 17-25klbs WOB, 760gpm, 3900psi, 13-19kft-lbs torque.
P12	TP (RE)	G11	1800	1830	0.50	4558.0m	Wash pipe leaked on TDS - retighten.
P12	P	G2	1830	2000	1.50	4558.0m	Decison from Nexus to drill further requiring pick up of extra DP. POOH 5 stnds from 4558m to 4411m and rack back.
P12	TP (WB)	G2	2000	2130	1.50	4558.0m	Picked up first jnt of HT55 DP and attempted to RIH - unable to RIH with 40klbs down. Laid down the HT55 jnt, picked up a stnd of DP, made up TDS and reamed past 4412m to end of stnd. Racked back stnd of DP.
P12	P	G2	2130	2230	1.00	4558.0m	Continued to pick up 10jnts of HT55 DP and 2 jnts of XT57 DP and x/overs making up a total of 4 stnds.
P12	P	D4	2230	2400	1.50	4582.0m	Continued drilling 9.5in hole as per DD requirements from 4558m to 4582m.

Operations For Period 0000 Hrs to 0600 Hrs on 10 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0230	2.50	4648.0m	Continued drilling 9.5in hole as per DD requirements from 4582m to 4648m. (2695.9m TVD). Final depth of well as confirmed by Nexus.
P12	P	F4	0230	0600	3.50	4648.0m	Circulated hole clean at 760gpm, 150rpm racking back one stand of DP every hour (1x

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							bottoms up). Bit depth currently 4590m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 09 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	216	01 Aug 2008	09 Aug 2008	216.00	9.000	4582.0m

General Comments

00:00 TO 24:00 Hrs ON 09 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open,
Operational Comments	Hours on jar ser. No 1416-1515: 132hrs
Operational Comments	Magnetic material collected in flowline during 24hrs: 1.9kg Accumulated total: 7.67kg

SBM Data

Cost Today US$ 5462

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	19%	Viscosity	75sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	291174mg/l	H2O:	21%	YP	33lb/100ft²
Sample-From:	Flowline	HTHP-FL:	5.0cc/30min	Elec.Stab.:	430mV	Oil(%):	58%	PV	60cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	73.4/26.6
Weight:	12.10sg	CaCl mud:	29.12			LGS:	7%	Gels 10s	15
Temp:	66C°	CaCl WP:				Oil On Cut:	10%	Gels 10m	24
								Fann 003	12
								Fann 006	15
								Fann 100	48
								Fann 200	
								Fann 300	93
								Fann 600	153

Comment: Run centrifuges in Barite recovery mode to reduce LGS.

Bit # 11

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	Nozzles	Drilled over last 24 hrs	Calculated over Bit Run

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Mfr:	REED	WOB(avg)	20.00klb	No.	Size	Progress	362.0m	Cum. Progress	1005.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	12.6h	Cum. On Btm Hrs	39.0h
Serial No.:	216535	F.Rate	760gpm			IADC Drill Hrs	19.5h	Cum IADC Drill Hrs	59.0h
Bit Model	RSX616M-A4	SPP	3900psi			Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	28.73 m/hr	ROP(avg)	25.77 m/hr
Depth Out		TFA	1.178						
Bit Comment									

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	19000ft-lbs	D.C. (1) Ann Velocity	434fpm
Wt Below Jar(Wet)	14.00klb	String	215.00klb	Torque(Off.Btm)	10000ft-lbs	D.C. (2) Ann Velocity	402fpm
		Pick-Up	330.00klb	Torque(On.Btm)	16000ft-lbs	H.W.D.P. Ann Velocity	310fpm
		Slack-Off	181.00klb			D.P. Ann Velocity	310fpm
BHA Run Description		9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.					
BHA Run Comment							

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
			0.00	0.0	0.0	0.0	0.0	
4301.34	92.0	195.8	2617.58	-2657.6	-2657.6	-200.1	0.7	
4331.00	93.0	195.6	2616.28	-2686.2	-2686.2	-208.1	1.0	
4360.69	91.0	195.4	2615.25	-2714.7	-2714.7	-216.1	2.0	
4390.61	87.7	193.3	2615.59	-2743.7	-2743.7	-223.5	3.9	
4419.25	84.6	189.9	2617.51	-2771.7	-2771.7	-229.2	4.8	
4448.12	85.6	190.3	2619.97	-2800.0	-2800.0	-234.3	1.1	
4478.07	84.9	191.5	2622.45	-2829.3	-2829.3	-239.9	1.4	
4507.60	84.6	193.0	2625.16	-2858.1	-2858.1	-246.2	1.5	
4538.99	84.6	192.7	2628.11	-2888.5	-2888.5	-253.1	0.3	
4568.77	85.0	189.4	2630.81	-2917.6	-2917.6	-258.8	3.3	
4598.48	84.8	186.0	2633.45	-2947.0	-2947.0	-262.8	3.4	
4627.92	82.1	185.8	2636.81	-2976.1	-2976.1	-265.8	2.8	
4643.88	80.2	185.5	2639.27	-2991.7	-2991.7	-267.3	3.6	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	13	0	183.0
Rig Fuel	m3	0	12	0	232.0
POTABLE WATER	MT	89	27	0	357.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	110.0
SOBM	m3	0	117	0	2.0
Brine	m3	0	0	0	192.0

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Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	66	3900	386
2	National 14 P-220	6.50	1.44	97	66	3900	386
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	8
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	5
K&M	1
Reach	1
Baker Atlas	4
Weatherford	4
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2023.4bbl**
Active	384.0bbl
Mixing	
Hole	1136.4bbl
Slug	
Reserve	503.0bbl
Kill	

Losses	**226.6bbl**
Downhole	63.6bbl
Surf+ Equip	143.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	20.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 09 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	270.0deg	1015.0mbar	9C°	0.7m	160.0deg	3s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2789.00klb	1.2m	160.0deg	9s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler		21h30	At Geelong	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		417.3
				Potable Water	Mt		455
				Drill Water	Mt		150
				CEMENT G	Mt		42
				Barite	Mt		84
				Bentonite	Mt		0
				Base Oil	m3		0
				Brine	m3		118
Pacific Valkyrie			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		382.9
				Potable Water	Mt		363
				Drill Water	m3		618
				CEMENT G	Mt		0
				Barite	Mt		105
				Bentonite	Mt		34.8
				SOBM	m3		118
				Base Oil	m3		0
				Brine	m3		119

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1403 / 1421	7 / 9	3rd Party

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 10

10 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	66.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	50.94	Shoe MDBRT	2590.8m	Cum Cost	US$6,500,000
Wtr Dpth(MSL)	55.968m	Days on well	10.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	POOH at 3168m backreaming every stand.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Continue POOH and rig up to run 7" liner.		

Summary of Period 0000 to 2400 Hrs

Drilled 9.5in hole as per DD requirements from 4582m to 4648m (2695.9m TVD) - final TD of hole. Circulated 5x bottoms up and backreamed all stands from 4648m to 3823m. A leaking washpipe was changed out during this trip period.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		0 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		19 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Dropped Object		28 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		3 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		5 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	11	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 10 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D4	0000	0230	2.50	4648.0m	Continued drilling 9.5in hole as per DD requirements from 4582m to 4648m. (2695.9m TVD). Final depth of well as confirmed by Nexus.
P12	P	F4	0230	1000	7.50	4648.0m	Circulated hole clean at 760gpm, 150rpm racking back one stand of DP every hour after circulating 1x bottoms up. Repeated above for 5 stands to 4472m.
P12	P	D6	1000	1300	3.00	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 4472m to 4354m.
P12	TP (RE)	G11	1300	1700	4.00	4648.0m	Wash pipe leaking. Changed wash pipe - still leaking. Removed new wash pipe, redressed old wash pipe and install same.
P12	P	D6	1700	2400	7.00	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 4354m to 3823m. Tight spot at 3810m - worked same and continued.

Operations For Period 0000 Hrs to 0600 Hrs on 11 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D6	0000	0300	3.00	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 3823m to 3469m.
P12	TP (RE)	F2	0300	0330	0.50	4648.0m	Leaking valve between pit 3 and pit 6 caused base oil to dilute mud system and reduce the MW. Circulate while weighting up system.
P12	P	D6	0330	0600	2.50	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 3469m to 3168m.

Operations For Period Hrs to Hrs on

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Phase Data to 2400hrs, 10 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	240	01 Aug 2008	10 Aug 2008	240.00	10.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 10 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 13) Pan & tilt action not operating on derrick camera.
Operational Comments	Hours on jar ser. No 1416-1515: 147hrs
Operational Comments	Magnetic material collected in flowline during 24hrs: 1.54kg Accumulated total: 9.21kg

SBM Data

Cost Today US$ 0

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	80sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281320mg/l	H2O:	20%	YP	37lb/100ft²
Sample-From:	Flowline	HTHP-FL:	3.8cc/30min	Elec.Stab.:	400mV	Oil(%):	57%	PV	80cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	74/26
Weight:	12.10sg	CaCl mud:	27.44			LGS:	11%	Gels 10s	15
Temp:	33C°	CaCl WP:				Oil On Cut:	11%	Gels 10m	25
								Fann 003	11
								Fann 006	14
								Fann 100	53
								Fann 200	
								Fann 300	93
								Fann 600	149

Comment: Run centrifuges in Barite recovery mode to reduce LGS.

Bit # 11

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

Size ("):	9.50in	IADC#	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	REED	WOB(avg)	18.00klb	No.	Size	Progress	66.0m	Cum. Progress	1071.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	2.1h	Cum. On Btm Hrs	41.1h
Serial No.:	216535	F.Rate	760gpm			IADC Drill Hrs	3.0h	Cum IADC Drill Hrs	62.0h
Bit Model	RSX616M-A4	SPP	4000psi			Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	31.43 m/hr	ROP(avg)	26.06 m/hr
Depth Out	4648.0m	TFA	1.178						
Bit Comment									

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	19000ft-lbs	D.C. (1) Ann Velocity	434fpm
Wt Below Jar(Wet)	14.00klb	String	211.00klb	Torque(Off.Btm)	10000ft-lbs	D.C. (2) Ann Velocity	402fpm
		Pick-Up	280.00klb	Torque(On.Btm)	16000ft-lbs	H.W.D.P. Ann Velocity	310fpm
		Slack-Off	178.00klb			D.P. Ann Velocity	310fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	183.0
Rig Fuel	m3	0	23	0	209.0
POTABLE WATER	MT	12	29	0	340.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	110.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	192.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	66	4000	386
2	National 14 P-220	6.50	1.44	97	66	4000	386
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

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Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	8
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	5
K&M	1
Reach	1
Baker Atlas	4
Weatherford	4
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**1968.6bbl**
Active	368.0bbl
Mixing	
Hole	1202.6bbl
Slug	
Reserve	398.0bbl
Kill	

Losses	**104.7bbl**
Downhole	28.7bbl
Surf+ Equip	69.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	7.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 10 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	230.0deg	1013.0mbar	9C°	1.3m	160.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2755.00klb	1.7m	160.0deg	9s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		16.00	Departed Geelong for rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		416
Potable Water	Mt		450
Drill Water	Mt		150
CEMENT G	Mt		82
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		375.1
Potable Water	Mt		358
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		74
Base Oil	m3		118
Brine	m3		119

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 11

11 Aug 2008 **From:** B Openshaw/R Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	51.94	Shoe MDBRT	2590.8m	Cum Cost	US$7,150,000
Wtr Dpth(MSL)	55.968m	Days on well	11.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Running 7in liner at 206m.		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Continue running 7in liner and cement same.		

Summary of Period 0000 to 2400 Hrs

Continued POOH from 3823m to 2607m (just below 10.75in shoe), backreaming every stand using 760gpm, 150rpm. Circulated while weighting up mud (0.75hrs) due to leak at mud pits during this trip period. Circulated 2x bottoms up at shoe. Continued POOH laying down jar and all Schlumberger BHA items. Rigged up for 7in liner, making up setting sleeve and cementing head.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		20 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Dropped Object		29 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		4 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		6 Days	Mud technician cut hand on glass retort.	While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	26	1 Day		Stop cards submitted for the day.
ToolBox Talk	11	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 11 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P12	P	D6	0000	0300	3.00	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 3823m to 3469m.
P12	TP (RE)	F2	0300	0330	0.50	4648.0m	Leaking valve between pit 3 and pit 6 caused base oil to dilute mud system and reduce the MW. Circulate while weighting up system.
P12	P	D6	0330	1000	6.50	4648.0m	Continued POOH backreaming every stand at 150rpm and 760gpm from 3469m to 2607m. Circulated for 15min weighting up mud system during this period.
P12	P	F4	1000	1100	1.00	4648.0m	Circulated 2x bottoms up.
P12	P	G8	1100	1700	6.00	4648.0m	Performed flow check and continued POOH from 2607m to 214.8m. Pumped slug at 2163m.
P12	P	G6	1700	2030	3.50	4648.0m	Continued POOH laying out jar and all Schlumberger BHA tools including RA source.
P19	P	G1	2030	2400	3.50	4648.0m	Cleaned rig floor, rigged up Weatherford equipment, made up liner setting sleeve and laid down same. Laid out 1 single on stnd 1 and made up same on top of cementing head placing pup DP below cement head.

Operations For Period 0000 Hrs to 0600 Hrs on 12 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G1	0000	0100	1.00	4648.0m	Continued rigging up cement head checking on presence of dart and dart retaining flapper. Rack back same in derrick.
P19	P	G1	0100	0230	1.50	4648.0m	Changed out bails to long 500T bails and continued rigging up to run liner.
P19	P	G9	0230	0600	3.50	4648.0m	Held JSA and ran 7in liner to 206m filling every 5 jnts. Checked correct operation of

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							float and shoe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 11 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	3.5	11 Aug 2008	11 Aug 2008	264.00	11.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 11 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.
Operational Comments	Hours on jar ser. No 1416-1515: 147hrs
Operational Comments	Magnetic material collected in flowline during 24hrs: 3.0kg Accumulated total:12.21kg

SBM Data — Cost Today US$ 29457

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	80sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281320mg/l	H2O:	20%	YP	33lb/100ft²
Sample-From:	Flowline	HTHP-FL:	3.8cc/30min	Elec.Stab.:	400mV	Oil(%):	57%	PV	60cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	74/26
Weight:	12.10sg	CaCl mud:	27.44			LGS:	11%	Gels 10s	15
Temp:	25C°	CaCl WP:				Oil On Cut:	11%	Gels 10m	24
								Fann 003	12
								Fann 006	15
								Fann 100	48
								Fann 200	
								Fann 300	93
								Fann 600	153

Comment

Bit # 11

Wear	I	O1	D	L	B	G	O2	R
	1	1	WT	N	X	I	NO	TD

Bitwear Comments:

Size ("):	9.50in	IADC#	**Nozzles**	**Drilled over last 24 hrs**	**Calculated over Bit Run**

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Mfr:	REED	WOB(avg)	18.00klb	No.	Size	Progress	0.0m	Cum. Progress	1071.0m
Type:	PDC	RPM(avg)	150	6	16/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	41.1h
Serial No.:	216535	F.Rate	760gpm			IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	62.0h
Bit Model	RSX616M-A4	SPP	4000psi			Total Revs		Cum Total Revs	0
Depth In	3577.0m	HSI				ROP(avg)	N/A	ROP(avg)	26.06 m/hr
Depth Out	4648.0m	TFA	1.178						

Bit Comment

BHA # 13

Weight(Wet)	30.00klb	Length	215.0m	Torque(max)	19000ft-lbs	D.C. (1) Ann Velocity	434fpm
Wt Below Jar(Wet)	14.00klb	String	211.00klb	Torque(Off.Btm)	10000ft-lbs	D.C. (2) Ann Velocity	402fpm
		Pick-Up	280.00klb	Torque(On.Btm)	16000ft-lbs	H.W.D.P. Ann Velocity	310fpm
		Slack-Off	178.00klb			D.P. Ann Velocity	310fpm

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
PDC Bit	0.22m	9.50in		216535	
PD Xceed 675	7.66m	6.75in		267	
ECO Scope	8.05m	9.13in		805	
Tele Scope	8.52m	6.88in		FU22	
NM HWDP	9.19m	6.75in		SBD 3170	
X/O	0.91m	7.00in		508A67	
HWDP	56.23m	7.06in			
X/O	0.42m	7.00in		115612	
Jar	9.62m	6.25in		1416-1515	
X/O	1.22m	7.00in		SSD7142	
HWDP	112.76m	7.00in			

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	183.0
Rig Fuel	m3	75	15	0	269.0
POTABLE WATER	MT	12	30	0	322.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	29	0	81.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	192.0
BLENDED CEMENT	MT	81	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

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Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	8
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	2
Schlumberger	5
K&M	1
Reach	1
Baker Atlas	4
Weatherford	4
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**2198.5bbl**	**Losses**	**3.0bbl**
Active	283.0bbl	Downhole	3.0bbl
Mixing		Surf+ Equip	0.0bbl
Hole	1459.5bbl	Dumped	
Slug		De-Gasser	
Reserve	456.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Evaporation	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 11 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	16kn	270.0deg	1009.0mbar	7C°	1.3m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2793.00klb	1.6m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		393.9
Potable Water	Mt		445
Drill Water	Mt		150
CEMENT G	Mt		
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		288.9
Potable Water	Mt		353
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		74
Base Oil	m3		118
Brine	m3		119

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DRILLING MORNING REPORT # 12

12 Aug 2008 **From:** B Openshaw/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	US$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	US$650,000
Rig	West Triton	Days from spud	52.94	Shoe MDBRT	2590.8m	Cum Cost	US$7,868,800
Wtr Dpth(MSL)	55.968m	Days on well	12.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.1m	Planned TD MD	5822.0m	Current Op @ 0600	Running 7 inch liner depth at 06.00 = 2700m		
RT-ML	97.1m	Planned TD TVDRT	2702.0m	Planned Op	Run and set 7 inch liner and cement same. POOH with landing string.		

Summary of Period 0000 to 2400 Hrs

Rigged up and run 7 inch liner.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		21 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Dropped Object		30 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		5 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		0 Days	Casing hand strained ankle.	Casing hand strained ankle when he stepped onto iron roughneck track while crossing over track. R.I.C.E and pain relief given by medic. Man returned to work.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	18	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G1	0000	0100	1.00	4648.0m	Continued rigging up cement head checking on presence of dart and dart retaining flapper. Rack back same in derrick.
P19	P	G1	0100	0230	1.50	4648.0m	Changed out bails to long 500T bails and continued rigging up to run liner.
P19	P	G9	0230	2400	21.50	4648.0m	Held JSA and ran 7 inch liner to 2050m filling liner every 5 jnts. Checked correct operation of float and shoe.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G9	0000	0030	0.50	4648.0m	Held JSA and ran 7 inch liner to 2074m filling liner every 5 jnts.
P19	P	F7	0030	0230	2.00	4648.0m	Changed out bails and handling equipment.
P19	P	G9	0230	0300	0.50	4648.0m	Made up 7 inch liner setting tool and RIH to 2083m.
P19	P	F4	0300	0330	0.50	4648.0m	Circulated 7 inch liner volume at 2083m with GPM 520, PSI 1000.
P19	P	G9	0330	0600	2.50	4648.0m	RIH with 7 inch liner on 5.5 inch drill pipe filling pipe every 5 stands. Depth at 06.00 = 2700m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 12 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	27.5	11 Aug 2008	12 Aug 2008	288.00	12.000	4648.0m

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SBM Data

Cost Today US$ 1039

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	21%	Viscosity	110sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	281320mg/l	H2O:	20%	YP	35lb/100ft²
Sample-From:	Pit 5	HTHP-FL:	4.0cc/30min	Elec.Stab.:	400mV	Oil(%):	57%	PV	59cp
Time:	21:40	HTHP-cake:	2/32nd"			Sand:	.25	O/W Ratio:	74/26
Weight:	12.10sg	CaCl mud:	27.44			LGS:	11%	Gels 10s	15
Temp:	25C°	CaCl WP:				Oil On Cut:	11%	Gels 10m	24
								Fann 003	12
								Fann 006	15
								Fann 100	52
								Fann 200	
								Fann 300	94
								Fann 600	153

Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	57	0	126.0
Rig Fuel	m3	0	9	0	260.0
POTABLE WATER	MT	12	30	0	304.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	81.0
SOBM	m3	0	0	0	2.0
Brine	m3	21	15	0	198.0
BLENDED CEMENT	MT	0	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	5
Seadrill	12
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	3
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
K&M	1
Reach	1
Baker Atlas	6
Weatherford	6
Expro Group	1
Baker Hughes	1

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Personnel On Board

Total	97

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

Available	**1809.5bbl**
Active	343.0bbl
Mixing	
Hole	1392.5bbl
Slug	
Reserve	74.0bbl
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Evaporation	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 12 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	35kn	250.0deg	1009.0mbar	7C°	2.0m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2793.00klb	2.2m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		390.7
Potable Water	Mt		440
Drill Water	Mt		150
CEMENT G	Mt		
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		118

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		272.762
Potable Water	Mt		348
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		143
Base Oil	m3		118
Brine	m3		97

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 13

13 Aug 2008 **From:** B Openshaw/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	53.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$9,418,200
Wtr Dpth(MSL)	55.968m	Days on well	13.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH with 7 inch liner running tool. Depth at 06.00 800m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	RIH with 7 inch RTTS and confirm that cirulation is possible to asses situation.		

Summary of Period 0000 to 2400 Hrs

Ran 7 inch liner to 4648 meters. Attempted to cement casing observed pressure increase to 2500 psi after 4 bbls cement pumped. Trouble shoot cause. Circulated out spacers, observed spacers at surface after 5000 strokes pumped indicating circulation from top of liner. Racked back cement stand and POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		22 Days	Pressure test on nipple up	14 Days - 5th August 21 Days - 12th August
Dropped Object		31 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		6 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case	1	0 Days	Strained lower back from slip.	Medic strained her when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	8	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	16	0 Days		Stop cards submitted for the day.
ToolBox Talk	9	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 13 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G9	0000	0030	0.50	4648.0m	Held JSA and ran 7 inch liner to 2074m, filling liner every 5 jnts.
P19	P	G1	0030	0230	2.00	4648.0m	Changed out bails and handling equipment.
P19	P	G9	0230	0300	0.50	4648.0m	Made up 7 inch liner setting tool and RIH to 2083m.
P19	P	F4	0300	0330	0.50	4648.0m	Circulated 7 inch liner volume at 2083m with GPM 520, PSI 1000.
P19	P	G9	0330	1330	10.00	4648.0m	RIH with 7 inch liner on 5.5 inch drill pipe to 4648m taggged bottom with 10k down. Filled pipe every 5 stands. Work through dogleg at 3165m - 3224m with 30k down weight under running weight.
P19	P	G9	1330	1530	2.00	4648.0m	Racked back stand and made up cement stand. Set down 30k and pumped at 83gpm, 600psi. Picked up string to 4647m. Dropped ball, pumped at 226gpm, 1000 psi. Observed pressure increase to 2700 psi. Held pressure 3 minutes to confirm ball set. Picked up 1 meter to confirm relaese of running tool.
P19	P	G9	1530	1630	1.00	4648.0m	Sheared out ball set with 4000psi. Set dowm 10k and rotated string at 20 rpm, 16-17k ft/lbs torque. Circulated at 230gpm, 500psi, while preparing for cement job.
P19	P	G9	1630	1730	1.00	4648.0m	Held JSA and rigged up cement lines.
P19	P	G9	1730	1830	1.00	4648.0m	Pumped with rig pumps 60 bbls Accolade base oil, followed by 60 bbls Tuned spacer and chased with 10 bbls brine. With Haliburton Pumped 8 bbls drill water, tested lines to 3000psi. Pumped 2 bbls drill water.
P19	TU (DH)	G9	1830	1930	1.00	4648.0m	Commenced to mix and pump cement at 15.00 ppg. Observed pressure increased to 2500 psi after 4 bbls pumped, stopped pumping. Bleed of pressure and open cement lines to confirm flow path. Dumped cement from mix tub and clean unit.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Assesed situation and dissussed options with town.
P19	TU (DH)	G9	1930	2030	1.00	4648.0m	With cement unit commenced pumping drill water at 4 bbls/min observed pressure increased to 3100psi and then gradually dropping to 2000psi observed returns in flow line. Increased pump rate to 5 bbls/mins at 3500psi. Stopped pumping observed 450 psi pressure differential.
P19	TU (DH)	G9	2030	2300	2.50	4648.0m	Lined up to rig pumps and commenced circulating at 200gpm, 700 psi. Staged up pumping rate to 12.5 bbls/mins 2500psi. Intial torque 10-15k ftl/lbs, torqued dropped down to 3-5k ft/lbs. while circulating pressure was fluctuating up to 3000psi down to 1750psi. Observed spacer returns at surface after 695 bbls pumped, indicating returns from top of 7 inch liner. Continued to circulated till mud in balance.
P19	TU (DH)	G9	2300	2330	0.50	4648.0m	Stopped pumping, move string down 0.90 meter and set down 10k on to liner and attempted to rotate string at 35k ft/lbs torque while circulating at 12.5 bbls/mins 2600psi, no rotation in string observed.
P19	TU (DH)	G9	2330	2400	0.50	4648.0m	Rigged down cement lines and racked back cement stand.

Operations For Period 0000 Hrs to 0600 Hrs on 14 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TU (DH)	G9	0000	0030	0.50	4648.0m	POOH to 2412m.
P19	TU (DH)	G9	0030	0200	1.50	4648.0m	Picked up and laid out cement head. Dart still in cement head.
P19	TU (DH)	G9	0200	0600	4.00	4648.0m	POOH with 7 inch liner running tool. Depth at 06.00 800m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 13 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	51.5	11 Aug 2008	13 Aug 2008	312.00	13.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 13 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.
Operational Comments	Hours on jar ser. No 1416-1515: 147hrs

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Australian Drilling Associates Pty Ltd ADA

SBM Data

Cost Today AUD$ 43336

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	123sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	291509mg/l	H2O:	20%	YP	38lb/100ft²
Sample-From:	Pit 5	HTHP-FL:	4.0cc/30min	Elec.Stab.:	410mV	Oil(%):	58%	PV	52cp
Time:	20:00	HTHP-cake:	2/32nd"			Sand:	0.2	O/W Ratio:	74/26
Weight:	12.20sg	CaCl mud:	28.15			LGS:	8%	Gels 10s	15
Temp:	25C°	CaCl WP:				Oil On Cut:	12%	Gels 10m	22
								Fann 003	11
								Fann 006	14
								Fann 100	45
								Fann 200	
								Fann 300	90
								Fann 600	142

Comment: Clean mud pits #4, #7 and #8. Prepare 393bbl 11.0ppg brine with 1.5% Radiagreen EME and 1 gal/bbl Liqui-vis EP in pit #8. Prepared 383bbl 11.0ppg Brine with 5% Baraklean NS in pit #4. Prepared 70bbl brine with 1.8ppb N-vis in slug pit. Circulate Base Oil and tuned spacers out of hole and direct spacer returns to slops pit (pit #2). Transferred slug pit to pit #8 to allow preparation of HW slug for POOH.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	105	21	0	210.0
Rig Fuel	m3	0	10	0	250.0
POTABLE WATER	MT	12	31	0	285.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	16	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	82	106	0	174.0
BLENDED CEMENT	MT	0	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	5
Seadrill	12
Seadrill Services.	39
Catering	9
Halliburton	2
Baker Hughes Inteq	3
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
K&M	1
Reach	1
Baker Atlas	6
Weatherford	4

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Personnel On Board

Expro Group	2
Baker Hughes	1
Scottech	2
Total	98

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**1936.8bbl**	**Losses**	**0.0bbl**
Active	271.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1322.8bbl	Dumped	
Slug		De-Gasser	
Reserve	343.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Evaporation	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 13 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	45kn	245.0deg	1021.0mbar	7C°	4.0m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2793.00klb	5.0m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		384.6
Potable Water	Mt		330
Drill Water	Mt		150
CEMENT G	Mt		
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		28

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		288.9
Potable Water	Mt		353
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		74
Base Oil	m3		118
Brine	m3		119

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1053 / 1108	15 / 14	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 14

14 Aug 2008 **From:** S De Freitas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	10.750in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	54.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$10,068,200
Wtr Dpth (MSL)	55.968m	Days on well	14.00	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Un-setting RTTS to POOH.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	POOH with RTTS. RIH with TCP gun and perforate liner.		

Summary of Period 0000 to 2400 Hrs

POOH with 7 inch casing running tool. Laid out cement head, dart still in cement head. Tested Bop's rams to 250/5,000 psi, Annular 250/3,500 psi, all positive tests. Picked up and made up 7 inch RTTS and picked up 20 joints 3.50 inch drill pipe.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test	1	0 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		32 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		7 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case	1	1 Day	Strained lower back from slip.	Medic strained her back when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	18	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TU (DH)	G9	0000	0030	0.50	4648.0m	POOH to 2412m.
P19	TU (DH)	G9	0030	0200	1.50	4648.0m	Picked up and laid out cement head. Dart still in cement head.
P19	TU (DH)	G9	0200	0830	6.50	4648.0m	POOH with 7 inch liner running tool.
P19	TU (DH)	G9	0830	0930	1.00	4648.0m	Broke and laid out running tool. Top two swab cups damaged, both bottom swab cups in good condition, cement wiper plug intact and in good condition.
P19	P	G11	0930	1030	1.00	4648.0m	Cleared rig floor of excess equipment and serviced rig.
P19	P	G13	1030	1100	0.50	4648.0m	Removed diverter insert packer.
P19	P	G13	1100	1200	1.00	4648.0m	Functioned shear rams and auto chokes. RIH with two stands HWDP. Confirmed corect weight set test tool to be used with Cameron in town.
P19	P	G13	1200	1530	3.50	4648.0m	Picked up and made up Bop test assembly with crossovers. RIH, test tool unable to pass through diverter packer adapter ring. Racked back test assembly. Removed diveter packer adapter ring. RIH with test assembly. Spaced out and landed out on wear bushing with 25k down.
P19	P	G13	1530	1730	2.00	4648.0m	Pressure test Bop's with cement unit, Annular 250/3.500 psi 5/10 mins, Pipe Rams and HCR'S valves 250/5000 psi 5/10 mins. All postive tests.
P19	P	G13	1730	1900	1.50	4648.0m	POOH with test assembly and laid out same.
P19	P	G13	1900	1930	0.50	4648.0m	Cleared rig floor of equipment.
P19	P	G5	1930	2330	4.00	4648.0m	Picked up and made up 7 inch RTTS assembly and RIH picking up 20 joints of 3.50 inch drill pipe.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G8	2330	2400	0.50	4648.0m	Changed out elevators and moved 5.50 inch heavy weight drill pipe to forward side of derrick.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G8	0000	0530	5.50	4648.0m	RIH with 7 inch RTTS on 5.50 inch drill pipe. No resistance entering TOL at 2569m. Continued to RIH and set RTTS at 2735m with 4 right-hand turns and 20K weight down.
P19	P	G8	0530	0600	0.50	4648.0m	Attempted to circulate liner using mud pumps - gradually increased pressure to 5000 psi - no circulation or returns.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 14 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	75.5	11 Aug 2008	14 Aug 2008	336.00	14.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 14 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.
Operational Comments	Hours on jar ser. No 1416-1515: 147hrs

SBM Data — Cost Today AUD$ 2500

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	125sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	291509mg/l	H2O:	20%	YP	38lb/100ft²
Sample-From:	Pit 5	HTHP-FL:	4.0cc/30min	Elec.Stab.:	410mV	Oil(%):	58%	PV	52cp
Time:	21:30	HTHP-cake:	2/32nd"			Sand:	.2	O/W Ratio:	74/26
Weight:	12.20sg	CaCl mud:	28.15			LGS:	8%	Gels 10s	15
Temp:	22C°	CaCl WP:				Oil On Cut:	12%	Gels 10m	22
								Fann 003	11
								Fann 006	14
								Fann 100	45
								Fann 200	
								Fann 300	90
								Fann 600	142

Comment: Cleaned pit #7. Transferred dead volume from pit #6 and slug pit to active tank with wilden pump for volume. Slops pit (pit #2) O/W ratio 25/75.

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	34	0	176.0
Rig Fuel	m3	0	9	0	241.0
POTABLE WATER	MT	12	27	0	270.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	174.0
BLENDED CEMENT	MT	0	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97				4558.0	20	400	117	30	550	176	40	720	234
2	National 14 P-220	6.50	1.44	97				4558.0	20	400	117	30	550	176	40	700	234
3	National 14 P-220	6.50	1.44	97				4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m

Personnel On Board

Company	Pax
ADA	4
Seadrill	13
Seadrill Services.	36
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
K&M	1
Reach	1
Baker Atlas	6
Weatherford	4
Expro Group	2
Baker Hughes	1
Scottech	2
Weatherford	1
Total	94

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	1692.1bbl
Active	262.0bbl
Mixing	
Hole	1390.5bbl
Slug	
Reserve	39.6bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 14 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	37kn	245.0deg	1015.0mbar	7C°	4.0m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2686.00klb	5.0m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		379.1
Potable Water	Mt		325
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		28

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		22.00	On route to location

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		638.122
Potable Water	Mt		345
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		143
Base Oil	m3		118
Brine	m3		121

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1020 / 1039	12 / 16	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 15

15 Aug 2008 **From:** S De Freitas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2337.6m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	55.94	Shoe MDBRT	2590.8m	Cum Cost	AUD$10,698,900
Wtr Dpth(MSL)	55.968m	Days on well	15.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with TCP		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Perforate 7 inch liner and cement same.		

Summary of Period 0000 to 2400 Hrs

RIH and set 7 inch RTTS at 2735m. Attempted to circulate 7 inch liner, pressure increased to 5,000 psi, no returns observed. Unset RTTS and POOH. Laid out RTTS. Made up TCP assembly and RIH picking 3.50 inch drill pipe.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		1 Day	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		33 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		8 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		2 Days	Strained lower back from slip.	Medic strained her back when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	5	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	20	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0530	5.50	4648.0m	RIH with 7 inch RTTS on 5.50 inch drill pipe. No resistance entering TOL at 2569m. Continued to RIH and set RTTS at 2735m with 4 right-hand turns and 20K weight down.
P19	TP (DH)	G8	0530	0600	0.50	4648.0m	Attempted to circulate liner using mud pumps - gradually increased pressure to 5000 psi - no circulation or returns.
P19	TP (DH)	G8	0600	0630	0.50	4648.0m	Attempted to unset RTTS - required 25k overpull - slack of to netural weight to relax packer elements. Confirm RTTS unset with 4m downwards movement.
P19	TP (DH)	G8	0630	1030	4.00	4648.0m	POOH with RTTS to 1721m.
P19	TP (DH)	F4	1030	1100	0.50	4648.0m	Observed back flow in string at 1721m, circulated and conditioned mud.
P19	TP (DH)	G8	1100	1600	5.00	4648.0m	Continued to POOH with RTTS and laid out RTTS.
P19	TP (DH)	G8	1600	1630	0.50	4648.0m	Cleaned rig floor
P19	TP (DH)	G8	1630	1800	1.50	4648.0m	Changed out bails and elevators. Prepared TCP firing head and laid out 3.50 drill pipe and prepare same.
P19	TP (DH)	G8	1800	2400	6.00	4648.0m	Held JSA, picked up and made up TCP assembly and RIH picking up 3.50 inch drill pipe to 498m.

Operations For Period 0000 Hrs to 0600 Hrs on 16 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0600	6.00	4648.0m	RIH with TCP assembly picking up 3.50 inch drill pipe. At 15 joints per hour.

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Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 15 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	99.5	11 Aug 2008	15 Aug 2008	360.00	15.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 15 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates. 6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP. 7 Number 4 main generator down. Exciter and generator sent ashore. 8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 10) Remote controller for Iron Roughneck not operational. 11) Automatic drill pipe elevators not working. 12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 13) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	Tested kill and choke manifold while POOH with RTTS to 250/5,000 psi 5/10 minutes. All postive tests.

SBM Data — Cost Today AUD$ 3640

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%	Viscosity	125sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	291289mg/l	H2O:	20%	YP	38lb/100ft²
Sample-From:	Pit 5	HTHP-FL:	4.0cc/30min	Elec.Stab.:	412mV	Oil(%):	58%	PV	52cp
Time:	14:30	HTHP-cake:	2/32nd"			Sand:	0.2	O/W Ratio:	74/26
Weight:	12.20sg	CaCl mud:	28.81			LGS:	8%	Gels 10s	15
Temp:	22C°	CaCl WP:				Oil On Cut:		Gels 10m	22
								Fann 003	11
								Fann 006	14
								Fann 100	45
								Fann 200	
								Fann 300	90
								Fann 600	142

Comment: Transfer dead volume from pit #6 to active and clean pit #6. Transfer SBM from slug pit to pit #5 and clean slug pit. Transfer 382bbl 11.3ppg Brine from bulk storage to pit #7 and 378bbl 11.3ppg brine to pit #6 to allow unloading of Brine from Valkyrie to bulk Brine tank.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	176.0
Rig Fuel	m3	0	11	0	230.0
POTABLE WATER	MT	12	27	0	255.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Brine	m3	0	0	0	174.0
BLENDED CEMENT	MT	0	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97				4558.0	20	400	117	30	550	176	40	720	234
2	National 14 P-220	6.50	1.44	97				4558.0	20	400	117	30	550	176	40	700	234
3	National 14 P-220	6.50	1.44	97				4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	

Personnel On Board

Company	Pax
ADA	4
Seadrill	13
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Total	86

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

				Equipment	Description	Mesh Size	Comments
Available	**1695.7bbl**	**Losses**	**0.0bbl**	Shaker 1	VSM-300	280	
Active	272.0bbl	Downhole		Shaker 2	VSM-300	280	
Mixing		Surf+ Equip	0.0bbl	Shaker 3	VSM-300	280	
Hole	1385.4bbl	Dumped		Shaker 4	VSM-300	280	
Slug		De-Gasser					
Reserve	38.3bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine

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Weather on 15 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	245.0deg	1012.0mbar	7C°	4.0m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2714.00klb	5.0m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler		21.30	On route to Geelong.	

Item	Unit	Used	Quantity
Rig Fuel	m3		371.3
Potable Water	Mt		320
Drill Water	Mt		150
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		28

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie		22.00	On route to location	

Item	Unit	Used	Quantity
Rig Fuel	m3		607.32
Potable Water	Mt		335
Drill Water	m3		618
CEMENT G	Mt		0
Barite	Mt		105
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		118
Brine	m3		121

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1348 / 1403	0 / 8	Freight

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DRILLING MORNING REPORT # 16

16 Aug 2008 **From:** S De Freitas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	56.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$11,348,900
Wtr Dpth (MSL)	55.968m	Days on well	16.00	FIT/LOT:	1.68sg /		
RT-ASL (MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Cementing 7 inch liner.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	POOH, lay out RTTS and TCP. Rig up Schlumberger wireline and perforate 7 inch liner.		

Summary of Period 0000 to 2400 Hrs

RIH with TCP/RTTS assembly to 4560M bottom of TCP gun and set RTTS. Perforated 7 inch liner at 4560 - 4558m. Established circulation with Haliburton. Lined to rig pumps and circulated and conditioned mud.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		2 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		34 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		9 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		3 Days	Strained lower back from slip.	Medic strained her when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	25	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 16 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0930	9.50	4648.0m	RIH with 3 3/8" TCP assembly picking up 3.50 inch drill pipe to 1592.71m. Picked up and made up 7 inch RTTS to string. Continued RIH picking up 3.50" drill pipe to 2003.90m.
P19	TP (DH)	G8	0930	1000	0.50	4648.0m	Changed out bails and elevators.
P19	TP (DH)	G8	1000	1100	1.00	4648.0m	RIH with one stand 5.50 inch drill pipe. Made up cement stand and racked back same.
P19	TP (DH)	G8	1100	1130	0.50	4648.0m	RIH with 5.50 inch drill pipe to 2241m.
P19	TP (DH)	F4	1130	1200	0.50	4648.0m	Observed back flow in string at 2241m. Made up TDS and circulated to balance mud.
P19	TP (DH)	G8	1200	1930	7.50	4648.0m	Continued RIH with TCP/RTTS assembly to 4545m. No resistance observed entering TOL with TCP gun or RTTS.
P19	TP (DH)	F4	1930	2000	0.50	4648.0m	Broke circulation at 1.40 bbls min/400 psi, good returns. Picked up and made up cement stand.
P19	TP (DH)	F7	2000	2030	0.50	4648.0m	Placed bottom of TCP at 4560m. Set RTTS at 2966.30m with 5 turns to the right and confirmed set with 25k down.
P19	TP (DH)	F4	2030	2130	1.00	4648.0m	Held JSA, rigged up cement lines. Haliburton tested cement line to 3,000 psi 5 mins. Applied 2,500 psi down string to activate TCP, bleed of preesure to 400psi. Observed TCP fired with 200 psi pressure decrease in string. Interval perforated 4560m - 4558m. With 3.375 inch Predator Perfform HMX 6 SPF.
P19	TP	F4	2130	2200	0.50	4648.0m	Halliburton established circulation - pumped 1.1 bbls mud and pressure held at 850 psi.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(DH)						Increased pressure to 1500 psi and obtained returns. Pumped 20 bbl/s mud while increasing pump rate up to 3.6 BPM and 1450 psi and observed returns to trip tank of 20 bbls.
P19	TP (DH)	F4	2200	2400	2.00	4648.0m	Lined up to rig pumps and continued circulation, increased pump rate to 5 bbls/min at 1500 psi. Good returns, no losses. Observed after 200 bbls pumped that mud weight out was 11.5 ppg. Mud weight out after 400 bbls pumped down to 10.9 ppg. Circulated and conditioned mud dusting barite to balance weight.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	F4	0000	0100	1.00	4648.0m	Circulated and conditioned mud to even weight in and out at 12.10ppg.
P19	TP (DH)	F4	0100	0130	0.50	4648.0m	Unset RTTS. Circulated at 6.6 bbls/min at 2400 psi 15 mins.
P19	TP (DH)	G8	0130	0330	2.00	4648.0m	POOH 6m, observed swabbing. Reset RTTS and opened circulation valve, unset RTTS. Continued POOH to 2590m RTTS depth. No further swabbing observed.
P19	TP (DH)	F3	0330	0400	0.50	4648.0m	Made up cement stand and set RTTS at 2590m with 5 turns to the right and confirmed set with 25k down.
P19	TP (DH)	F3	0400	0600	2.00	4648.0m	Held JSA, rigged up cement lines. Halliburton tested lines to 3,000 psi. Pumped 30 bbls fresh water spacer, followed by 60 bbls 13.5 ppg Tuned Spacer and 10 bbls fresh water at 8 BPM. Mixed and pumped 138 bbls cement slurry at 15.0 ppg. Commenced displacement with 10 bbls fresh water and SBM.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 16 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	123.5	11 Aug 2008	16 Aug 2008	384.00	16.000	4648.0m

SBM Data

Cost Today AUD$ 17221

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	20%
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	262548mg/l	H2O:	22%
Sample-From:	Flowline	HTHP-FL:	4.0cc/30min	Elec.Stab.:	305mV	Oil(%):	56%
Time:	23:59	HTHP-cake:	2/32nd"			Sand:	0.2
Weight:	12.30sg	CaCl mud:	27.44			LGS:	8%
Temp:	30C°	CaCl WP:				Oil On Cut:	

Viscosity	134sec/qt
YP	35lb/100ft²
PV	55cp
O/W Ratio:	72/28
Gels 10s	14
Gels 10m	25
Fann 003	11
Fann 006	13
Fann 100	40
Fann 200	
Fann 300	90
Fann 600	145

Comment: Prepare 60bbl tuned spacer in slug pit weighted to 13.5ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg to 11.8ppg. Added Barite to active to maintain mud weight and circulate until mud weight consistent. Received approx. 692bbl 11.3ppg Brine from Valkyrie.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	6	0	170.0
Rig Fuel	m3	0	9	0	221.0
POTABLE WATER	MT	12	24	0	243.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	10	0	55.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	111	0	63.0
BLENDED CEMENT	MT	0	0	0	81.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234

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Pumps

Pump Data - Last 24 Hrs

								Slow Pump Data									
2	National 14 P-220	6.50	1.44	97				4558.0	20	400	117	30	550	176	40	700	234
3	National 14 P-220	6.50	1.44	97				4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	

Personnel On Board

Company	Pax
ADA	4
Seadrill	13
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Schlumberger	3
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	**1728.6bbl**
Active	365.0bbl
Mixing	
Hole	1323.9bbl
Slug	
Reserve	39.7bbl
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 16 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	25kn	245.0deg	1014.0mbar	9C°	3.0m	230.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2523.00klb	4.0m	230.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	**Arrived (Date/Time)**	**Departed (Date/Time)**	**Status**
Pacific Battler		23.30	On route to location. ETA location 19.30 17-08-08.

Bulks

Item	**Unit**	**Used**	**Quantity**
Rig Fuel	m3		340
Potable Water	Mt		450

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				Item	Unit	Used	Quantity
				Drill Water	Mt		190
				CEMENT G	Mt		0
				Barite	Mt		84
				Bentonite	Mt		0
				Base Oil	m3		0
				Brine	m3		100
Pacific Valkyrie	22.00		On location	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		607.32
				Potable Water	Mt		335
				Drill Water	m3		618
				CEMENT G	Mt		0
				Barite	Mt		105
				Bentonite	Mt		34.8
				SOBM	m3		5
				Base Oil	m3		118
				Brine	m3		121

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1412 / 1428	5 / 1	Freight

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 17

17 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	57.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$11,998,900
Wtr Dpth(MSL)	55.968m	Days on well	17.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Pick up and make up 7 inch ESSV.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Preforated 7 inch liner at 2675m. POOH and rig down wire line. RIH with ESZV and set same at 2669m. Cement 7 inch liner. POOH.		

Summary of Period 0000 to 2400 Hrs

Circulated and conditioned mud weight in and out until mud weight at 12.1 ppg. Unset RTTS POOH to 2590 (RTTS depth) Set RTTS. Mixed and pumped 137 bbls"HBT" grade cement slurry at 15,00 ppg and displaced same. Unset RTTS circulated bottoms up (No cement returns). POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		3 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		35 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		10 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Incident	1	0 Days	Sling failure when stretched.	A 0.50 ton rated sling failed that was connected to a Rig Floor winch and used to locate the low-torque valve and hose assembly at the Side entry sub on the Drill String. The Driller lowered the Drill string to maintain required weight on the RTTS, and this resulted in the sling stretching until it parted.
Medical Treatment Case		4 Days	Strained lower back from slip.	Medic strained her when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	5	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	38	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 17 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	F4	0000	0100	1.00	4648.0m	Circulated and conditioned mud until even weight in and out at 12.10ppg.
P19	TP (DH)	F4	0100	0130	0.50	4648.0m	Unset 7 inch RTTS. Circulated at 6.6 bbls/min at 2400 psi 15 mins.
P19	TP (DH)	G8	0130	0330	2.00	4648.0m	POOH 6m, observed swabbing. Reset 7 inch RTTS and opened circulation valve, unset RTTS. Continued POOH to 2590m 7 inch RTTS depth. No further swabbing observed.
P19	TP (DH)	F3	0330	0400	0.50	4648.0m	Made up cement stand and set 7 inch RTTS at 2590m with 5 turns to the right and confirmed set with 25k down.
P19	TP (DH)	F3	0400	0600	2.00	4648.0m	Held JSA, rigged up cement lines. Halliburton tested lines to 3,000 psi. Pumped 30 bbls fresh water spacer, followed by 60 bbls 13.5 ppg Tuned Spacer and 10 bbls fresh water at 8 BPM. Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg. Commenced displacement with 10 bbls fresh water and SBM. Theoretical top of cement in 7 inch liner at 4520m Theoretical top of cement in 7 inch liner/ 9.50 inch hole at 3550m
P19	TP (DH)	F3	0600	0700	1.00	4648.0m	Checked back flow. OK. Rigged down cement hose and unset 7 inch RTTS.
P19	TP	F4	0700	0900	2.00	4648.0m	Broke circulation. Racked back cement stand. Continued circulaing bottoms up. No

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(DH)						cement returns observed at shakers.
P19	TP (DH)	G8	0900	1430	5.50	4648.0m	POOH with TCP/ 7 inch RTTS assembly to 2005m
P19	TP (DH)	G8	1430	1500	0.50	4648.0m	Move cement stand to drill collar fingers and RIH 4 stands of rental HT55 drill pipe.
P19	TP (DH)	G8	1500	1700	2.00	4648.0m	POOH and laid out 12 joints HT55 drill pipe.
P19	TP (DH)	G8	1700	1730	0.50	4648.0m	Moved 5 stands heavy weight drill pipe to front of finger board to be able to rack back all 3.50 inch drill pipe.
P19	TP (DH)	G8	1730	1830	1.00	4648.0m	Changed out elevators to 3.50 inch. POOH from 2005m - 1592m.
P19	TP (DH)	G15	1830	2000	1.50	4648.0m	Serviced broke and laid out 7 inch RTTS.
P19	TP (DH)	G8	2000	2400	4.00	4648.0m	Pumped slug and continued POOH to TCP gun assembly.

Operations For Period 0000 Hrs to 0600 Hrs on 18 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0100	1.00	4648.0m	Laid out TCP gun assembly.
P19	TP (DH)	F7	0100	0130	0.50	4648.0m	Laid out excess drilling equipment, cleaned rig floor of SBM.
P19	TP (DH)	C2	0130	0600	4.50	4648.0m	Held JSA and rigged up Schlumberger wireline. Made up GR/CCL/HSD gun, RIH at 02.45 hrs. Correlate for depth of bottom shot at 2675m. Fired gun at 04.07hrs slight surface indication of gun firing. POOH. Laid out guns. All shots fired. Rigged down Schlumberger wireline. Bottom of perforations at 2675m, Top of perforations at 2673.5m. Gun details: 1.5m long 4.50 inch OD, 12 shots per foot of Powerjet Omega Pure charges.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 17 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	147.5	11 Aug 2008	17 Aug 2008	408.00	17.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 17 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational.

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General Comments

10) Automatic drill pipe elevators not working.

11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.

12) Auto slips not being used as profile of slips not compatible with master bushing.

SBM Data

Cost Today AUD$ 11832

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	18%	Viscosity	135sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	231487mg/l	H2O:	24%	YP	34lb/100ft²
Sample-From:	Pit #5	HTHP-FL:	5.0cc/30min	Elec.Stab.:	250mV	Oil(%):	56%	PV	58cp
Time:	17:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	68/32
Weight:	12.10sg	CaCl mud:	27.18			LGS:	6%	Gels 10s	10
Temp:	30C°	CaCl WP:				Oil On Cut:		Gels 10m	19
								Fann 003	8
								Fann 006	11
								Fann 100	40
								Fann 200	
								Fann 300	92
								Fann 600	150

Comment: Continue to add Barite to active system while circulating to ensure mud weight 12.2ppg out and 12.3ppg in. Prepare 30bbl pumpable 13.0ppg slug for cement job. Clean pit #3. Added LE Supermul to active pit to maintain ES. Recieved 35MT Barite from Valkyrie. Backloaded 705bbl slops (slops pit and SAPP waste) to Valkyrie and backloaded 2x Bulk bags of KCl tech grade.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	156	46	0	280.0
Rig Fuel	m3	0	13	0	208.0
POTABLE WATER	MT	168	29	0	382.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	30	30	0	55.0
SOBM	m3	0	0	0	2.0
Brine	m3	102	0	0	165.0
BLENDED CEMENT	MT	0	28	0	53.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7 inch liner at 4520m

Personnel On Board

Company	Pax
ADA	4
Seadrill	13
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3

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Personnel On Board

Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Schlumberger	3
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	**1724.2bbl**	**Losses**	**31.0bbl**	Equipment	Description	Mesh Size
Active	563.0bbl	Downhole		Shaker 1	VSM-300	280
Mixing		Surf+ Equip	0.0bbl	Shaker 2	VSM-300	280
Hole	1117.2bbl	Dumped		Shaker 3	VSM-300	280
Slug		De-Gasser		Shaker 4	VSM-300	280
Reserve	44.0bbl	De-Sander				
Kill		De-Silter				
		Centrifuge				
		Left Behind Casing	31.0bbl			

Comments

Marine

Weather on 17 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	17kn	245.0deg	1025.0mbar	7C°	3.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2910.00klb	3.5m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	18.00		At location

Item	Unit	Used	Quantity
Rig Fuel	m3		307.5
Potable Water	Mt		445
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		100

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		22.00	On route to Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		583.283
Potable Water	Mt		293
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		5
Base Oil	m3		118
Brine	m3		121

Back load 101m3 OBM slops to Battler.

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 18

18 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	58.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$12,648,900
Wtr Dpth(MSL)	55.968m	Days on well	18.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH with cement retainer running tool.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	RIH with 9.50 inch clean out assembly to top of liner at 2569.5m. Circulate bottoms up. POOH. Make up 7 inch liner clean out assembly and RIH.		

Summary of Period 0000 to 2400 Hrs

Laid out TCP gun assembly. Rigged up Schlumberger and RIH with GR/CCL/HSD gun, perforated 7.00 inch liner at 2675.0m to 2673.5m. POOH laid out tool string and rigged down Schlumberger. Made up and RIH and set cement retainer at 2669m. Conducted cement job #2 throught cement retainer. Pumped and displaced 30bbls "HTB" slurry at 15.00 ppg. Unset from cement retainer and circulated bottoms up, slight cement returns in mud. POOH laying out 5.50 inch drill pipe to 1938m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		4 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		36 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident		11 Days	Environmental spill	Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard.
Medical Treatment Case		5 Days	Strained lower back from slip.	Medic strained her when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW.
PTW issued	11	0 Days		Permit to work issued for the day.
Recordable Case		1 Day	Sling failure when stretched.	A sling failed that was connected to a Rig Floor winch and used to locate the low-torque valve and hose assembly at the Side entry sub on the Drill String. The Driller lowered the Drill string to maintain required weight on the RTTS, and this resulted in the sling stretching until it parted.
Safety Meeting		2 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	23	0 Days		Stop cards submitted for the day.
ToolBox Talk	7	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 18 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0100	1.00	4648.0m	Laid out TCP gun assembly.
P19	TP (DH)	G11	0100	0130	0.50	4648.0m	Laid out excess drilling equipment and cleaned rig floor of SBM.
P19	TP (DH)	C2	0130	0600	4.50	4648.0m	Held JSA and rigged up Schlumberger wireline. Made up GR/CCL/HSD gun and RIH at 02:45 hrs. Correlated for depth of bottom shot at 2675m. Fired gun at 04:07 hrs: slight surface indication of gun firing observed. POOH and laid out guns: all shots fired. Rigged down Schlumberger wireline. Bottom of perforations at 2675m. Top of perforations at 2673.5m. Gun details: 1.5m long 4.50 inch OD, 12 shots per foot of Powerjet Omega Pure charges.
P19	TP (DH)	G8	0600	0700	1.00	4648.0m	Picked up and made up 7 inch cement retainer and RIH on 3.50 drill pipe to 149m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0700	0730	0.50	4648.0m	Changed out elevators to 5.50 inch.
P19	TP (DH)	G8	0730	1330	6.00	4648.0m	RIH with cement retainer on 5.50 inch drillpipe to 2649m.
P19	TP (DH)	G8	1330	1400	0.50	4648.0m	Picked up and made up cement stand.
P19	TP (DH)	F4	1400	1430	0.50	4648.0m	Broke circulation with 300 gpm, 1000 psi. Worked retainer up and down within 2 m of intended setting depth.
P19	TP (DH)	G8	1430	1530	1.00	4648.0m	Set cement retainer at 2669m with 40 Turns RH, stage up to 37K o/pull to shear tension sleeve, picked up 2 m 25 Turns RH to release stinger. Picked up 2m to confirm clear. Sting back into retainer and set down 35k. Rigged up cement hose. Established circulation up outside of liner with 500gpm, 1700psi.
P19	TP (DH)	F3	1530	1700	1.50	4648.0m	Pumped 5 bbls fresh water with cement unit, tested lines to 3000psi. Pump 30 bbls fresh water, followed by 60 bbls 13.5 ppg tuned spacer followed by 10 bbls fresh water. Mixed and pumped 30 bbls 15.0 ppg HTB slurry. Displaced with 10 bbls fresh water & 168 bbls SBM. Theoretical top of cement in 7 inch liner/10.750 inch casing at 2569m Theoretical bottom of cement in 7 inch liner/9.50inch hole at 2675m
P19	TP (DH)	F4	1700	1830	1.50	4648.0m	Picked up 2m out of cement retainer and circulated bottoms up at 600 gpm, 2300 psi. Observed slight cement contamination in returns on bottoms up (diverted spacers to slops pit).
P19	TP (DH)	G8	1830	1930	1.00	4648.0m	Rigged down cement line and racked back cement stand. Pumped slug. POOH to 2540m.
P19	TP (DH)	G8	1930	2000	0.50	4648.0m	Changed out bails to lay out 5.50 inch drill pipe.
P19	TP (DH)	G8	2000	2400	4.00	4648.0m	While WOC, POOH, laying out 5.50 inch drill pipe to 1938m.

Operations For Period 0000 Hrs to 0600 Hrs on 19 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0030	0.50	4648.0m	While WOC, continued POOH laying out 5.50 inch drill pipe to 1860m.
P19	TP (DH)	P4	0030	0130	1.00	4648.0m	Lined up to Haliburton, pumped 4 bbls SBM mud. Pressure tested lines to 1,000psi, Closed annular and tested top of 7 inch liner lap at 2569.50m with 500 psi, held for 10 minutes. Good test. Pumped 6.90 bbls SBM, 6.70 bbls SBM returned after bleeding of pressure.
P19	TP (DH)	G8	0130	0200	0.50	4648.0m	Changed out bails for tripping operations.
P19	TP (DH)	G8	0200	0600	4.00	4648.0m	POOH with cement retainer running tool.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 18 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	171.5	11 Aug 2008	18 Aug 2008	432.00	18.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 18 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate

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General Comments

6) Number 4 main generator down. Exciter and generator sent ashore.

7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).

8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi.

9) Remote controller for Iron Roughneck not operational.

10) Automatic drill pipe elevators not working.

11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.

12) Auto slips not being used as profile of slips not compatible with master bushing.

SBM Data

Cost Today AUD$ 8970

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%	Viscosity	163sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	220854mg/l	H2O:	29%	YP	23lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	6.0cc/30min	Elec.Stab.:	175mV	Oil(%):	53%	PV	63cp
Time:	23:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	65/35
Weight:	11.90sg	CaCl mud:	28.81			LGS:	3%	Gels 10s	10
Temp:	30C°	CaCl WP:				Oil On Cut:		Gels 10m	18
								Fann 003	7
								Fann 006	10
								Fann 100	36
								Fann 200	
								Fann 300	86
								Fann 600	149

Comment: Clean slug pit in preparation for mixing tuned spacer. Prepare 13.5ppg slug in slug pit. Increase in water percentage due to contamination from water/spacers used in previous cement jobs. Cementing through the perforations int he top of the 7" liner, 274bbl of Accolade mud was contaminated with the cement spacer train and was disposed to slops pit. Accolade volume transferred to slops pit was contaminated with 35bbl water, 60bbl tuned spacer, 10bbl water, 5-10bbl cement and a further 10bbl water from cement job.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	38	0	242.0
Rig Fuel	m3	0	10	0	198.0
POTABLE WATER	MT	12	31	0	363.0
Cement Class G	MT	0	10	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	55.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	165.0
BLENDED CEMENT	MT	0	0	0	53.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7 inch liner at 4520m

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Personnel On Board

Company	Pax
ADA	4
Seadrill	12
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Schlumberger	3
Schlumberger DD	1
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	**1456.5bbl**	**Losses**	**0.0bbl**
Active	161.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1034.5bbl	Dumped	
Slug		De-Gasser	
Reserve	261.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 18 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	24kn	245.0deg	10240.0mbar	7C°	2.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2840.00klb	3.0m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	18.00		At location

Item	Unit	Used	Quantity
Rig Fuel	m3		299.6
Potable Water	Mt		440
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		84
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		100

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		22.00	At Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		557.534
Potable Water	Mt		285
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		106
Base Oil	m3		118
Brine	m3		0

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Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0954 / 1007	3 / 3	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 19

19 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	59.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$13,298,900
Wtr Dpth(MSL)	55.968m	Days on well	19.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with BHA and 3.50 inch drill pipe.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	RIH and drill out cement retainer at 2669m. Continue RIH to TOC at +/- 4520m. Displace well to brine. POOH.		

Summary of Period 0000 to 2400 Hrs

While WOC POOH laying out 5.50 inch drill pipe to 1860m. Tested Top of 7 inch liner lap at 2569.5m to 500 psi. Good test. POOH and laid out cement retainer running tool. Made up and RIH with 9 1/2' bit to 1m above TOL at 2569.5, no obstuctions when RIH. Circulated bottoms up. POOH, laid out 78 joints 5.50 inch drill pipe.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		5 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Dropped Object		37 Days	Broken bolt on Link Tilt bracket.	When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm X 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm.
Incident	1	0 Days	Caught fingers between single joint elevators and drill pipe.	Roustabout caught fingers between single joint elevators and drill pipe while removing the pick up elevators from the drill pipe laying on catwalk. The air winch operator on the rig floor picked up on air winch while man was removing pick up elevators from drill pipe. man went to medic for check up and then returned to work.
Medical Treatment Case	1	0 Days	Twisted ankle.	IP was descending stairs from Derrick when he stepped on to a boot wash tray and twisted his ankle. Went to medic where R.I.C.E was applied. IP will be sent to town for medical reveiw.
PTW issued	13	0 Days		Permit to work issued for the day.
Recordable Case		2 Days	Sling failure when stretched.	A sling failed that was connected to a Rig Floor winch and used to locate the low-torque valve and hose assembly at the Side entry sub on the Drill String. The Driller lowered the Drill string to maintain required weight on the RTTS, and this resulted in the sling stretching until it parted.
Safety Meeting		3 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	23	0 Days		Stop cards submitted for the day.
Time Out For Safety	1	0 Days	TOFS	Held TOFS on drill floor with drill and deck crews at 22.30 hrs to highlight the hazards associated with repetitive tasks and remind personnel to keep focused on the job
ToolBox Talk	7	1 Day	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 19 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0030	0.50	4648.0m	While WOC: continued to POOH laying out 5.5in drill pipe to 1860m.
P19	TP (DH)	P1	0030	0130	1.00	4648.0m	Lined up to Halliburton cement unit and pumped 4 bbls of SBM mud. Pressure tested lines to 1,000psi. Closed annular and tested top of 7in liner lap at 2569.50m with 500 psi and held for 10 minutes: good test. Pumped 6.90 bbls of SBM: 6.70 bbls SBM returned after bleeding off of pressure.
P19	TP (DH)	G1	0130	0200	0.50	4648.0m	Changed out bails for tripping operations.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0200	0630	4.50	4648.0m	POOH with cement retainer running tool and laid out cement retainer running tool.
P19	TP (DH)	G8	0630	0700	0.50	4648.0m	Cleared excess equipment from rig floor and cleaned same from SBM.
P19	TP (DH)	G8	0700	0730	0.50	4648.0m	Picked up and made up 9 1/2" clean out BHA and RIH to 58m.
P19	TP (DH)	G8	0730	1400	6.50	4648.0m	RIH with 5.50 inch drill pipe and BHA to 1m above top of 7 inch liner at 2568m. No drag observed while RIH nor at top of liner.
P19	TP (DH)	F4	1400	1530	1.50	4648.0m	Circulated bottoms up.
P19	TP (DH)	F3	1530	1630	1.00	4648.0m	Pumped 30 bbls slug and displaced same with 10 bbls SBM.
P19	TP (DH)	G8	1630	1930	3.00	4648.0m	POOH with 5.50 inch drilll pipe to 1059m.
P19	TP (DH)	G8	1930	2400	4.50	4648.0m	Continued POOH laying out 5.50 inch drill pipe to 294m. Laid out 78 joints 5.50 inch drill pipe. (Held TOFS on drill floor with drill and deck crews at 22.30 hrs to highlight the hazards associated with repetitive tasks and remind personnel to keep focused on the job)

Operations For Period 0000 Hrs to 0600 Hrs on 20 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0130	1.50	4648.0m	POOH to BHA laying out 5.50 inch drill pipe. Total joints laid out 102.
P19	TP (DH)	G8	0130	0200	0.50	4648.0m	Racked back BHA and broke of bit.
P19	TP (DH)	G8	0200	0330	1.50	4648.0m	Picked up and made up 6 inch Smith bit XR + PS and motor and 2 x 4 3/4 inch MNDC.
P19	TP (DH)	G8	0330	0600	2.50	4648.0m	RIH with BHA and 3.50 inch drill pipe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 19 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	195.5	11 Aug 2008	19 Aug 2008	456.00	19.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 19 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working.

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General Comments

	11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Bulleyes on SST 1/2 degree Starboard Aft. Spud can survey on Port leg only no change observed. ROV recovery winch failed when recovering ROV.
Operational Comments	Expro Well Testing: Both flare booms fitted.

SBM Data

Cost Today AUD$ 8763

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%	Viscosity	159sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	226952mg/l	H2O:	28%	YP	23lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	6.0cc/30min	Elec.Stab.:	180mV	Oil(%):	54%	PV	66cp
Time:	19:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	66/34
Weight:	12.10sg	CaCl mud:	28.81			LGS:	1%	Gels 10s	10
Temp:	30C°	CaCl WP:				Oil On Cut:		Gels 10m	22
								Fann 003	7
								Fann 006	10
								Fann 100	38
								Fann 200	
								Fann 300	89
								Fann 600	155

Comment: Back-loaded 465bbl of 11.6ppg contaminated "slops" SBM mud with cement spacer and water from the slops pit to Battler to be offloaded for conditioning. Back-loaded 8 drums OMC-42 to Battler. Added 50bbl base oil and 10bbl slops to active and treated with LE Supermul and Tau Mod to maintain properties and weighted to 12.0ppg with Barite. Transferred volume from soilds control tanks to active. Rec'd 160x Liqui-vis and 9x Oxygon as per mainifest WT-0079 OUT.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	70	37	0	275.0
Rig Fuel	m3	97	10	0	285.0
POTABLE WATER	MT	12	33	0	342.0
Cement Class G	MT	0	0	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	38	20	0	73.0
SOBM	m3	0	0	0	2.0
Brine	m3	29	0	0	194.0
BLENDED CEMENT	MT	0	10	0	43.0

Pumps

Pump Data - Last 24 Hrs | **Slow Pump Data**

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234
2	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234
3	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7 inch liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7 inch liner/10.750 inch casing at 2569m Theoretical bottom of cement in 7 inch liner/9.50inch hole at 2675m

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Personnel On Board

Company	Pax
ADA	4
Seadrill	12
Seadrill Services.	36
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Schlumberger DD	1
Total	87

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	**1530.5bbl**	**Losses**	**0.0bbl**
Active	413.3bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1117.2bbl	Dumped	
Slug		De-Gasser	
Reserve		De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	255
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 19 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	245.0deg	1021.0mbar	9C°	1.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2924.00klb	1.0m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	18.00		At location

Item	Unit	Used	Quantity
Rig Fuel	m3		189.7
Potable Water	Mt		365
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
Base Oil	m3		0
Brine	m3		75

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		18.00	On route to location.

Item	Unit	Used	Quantity
Rig Fuel	m3		551.72
Potable Water	Mt		455
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		106
Base Oil	m3		118
Brine	m3		114.2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment

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Helicopter Movement				
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1001 / 1018	9 / 12	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 20

20 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	60.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$13,948,900
Wtr Dpth(MSL)	55.968m	Days on well	20.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH with 6 inch bit.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	POOH with 6 inch bit. RIH and drill out remaining cement retainer, continue RIH to +/- 4520m. Displace well to brine.		

Summary of Period 0000 to 2400 Hrs

POOH, broke out bit and racked back BHA. Made up 6 inch Smith bit XR+ PS and RIH to 2535m. Slipped and cut drilling line. Continued RIH to 2641m Tagged TOC with 10k down. Drill out cement to 2668m. Drilled out cement retainer from 2668m - 2668.5m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		6 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Incident		1 Day	Caught fingers between single joint elevators and drill pipe.	Roustabout caught fingers between single joint elevators and drill pipe while removing the pick up elevators from the drill pipe laying on catwalk. The air winch operator on the rig floor picked up on air winch while man was removing pick up elevators from drill pipe. man went to medic for check up and then returned to work.
Medical Treatment Case		1 Day	Twisted ankle.	IP was descending stairs from Derrick when he stepped on to a boot wash tray and twisted his ankle. Went to medic where R.I.C.E was applied. IP will be sent to town for medical reveiw.
PTW issued	9	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	18	0 Days		Stop cards submitted for the day.
ToolBox Talk	6	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 20 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	G8	0000	0130	1.50	4648.0m	POOH to BHA laying out 5.5in drill pipe. Total of 102 joints laid out.
P19	TP (DH)	G6	0130	0200	0.50	4648.0m	Racked back BHA and broke off bit.
P19	TP (DH)	G2	0200	0330	1.50	4648.0m	Picked up and made up 6in Smith bit XR + PS and motor and 2 x 4.75in MNDC.
P19	TP (DH)	G8	0330	0800	4.50	4648.0m	RIH with BHA and 3.5in drill pipe to 2034m.
P19	TP (DH)	G8	0800	0900	1.00	4648.0m	Changed out elevators to 5.50 inch and RIH with 5.50 inch drill pipe to 2535m.
P19	TP (DH)	F7	0900	0930	0.50	4648.0m	Cleared rig floor and clean same from SBM.
P19	TP (DH)	G11	0930	1300	3.50	4648.0m	Slipped and cut drilling line. Calibrated travelling block.
P19	TP (DH)	G8	1300	1400	1.00	4648.0m	RIH tagged TOC at 2641m with 10k down.
P19	TP (DH)	D1	1400	1600	2.00	4648.0m	Drilled cement from 2641m - 2668m. With 300gpm, 3400psi, 50rpm, 3k WOB,
P19	TP (DH)	G11	1600	2400	8.00	4648.0m	Drilled cement retainer from 2668m - 2668.5m using various parrameters: 150-300gpm, 2200 - 3800 psi, 15 - 50 rpm, 3- 5k WOB.

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Australian Drilling Associates Pty Ltd ADA

Operations For Period 0000 Hrs to 0600 Hrs on 21 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	D1	0000	0330	3.50	4648.0m	Drilled cement retaiiner from 2668.5m - 2668.6m using various parrameters: 150 gpm, 2200 psi, 15 rpm, 3- 5k WOB. No significant progress from 01.00 - 03.30 hrs. Total drillled of cement retainer18 inches, estimated 12 inches of cement retainer to be drilled.
P19	TP (DH)	G8	0330	0600	2.50	4648.0m	POOH to inspect 6 inch bit.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 20 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	219.5	11 Aug 2008	20 Aug 2008	480.00	20.000	4648.0m

SBM Data — Cost Today AUD$ 10859

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	226952mg/l	H2O:	28%
Sample-From:	Flowline	HTHP-FL:	6.0cc/30min	Elec.Stab.:	218mV	Oil(%):	54%
Time:	20:30	HTHP-cake:	2/32nd"			Sand:	
Weight:	12.00sg	CaCl mud:	28.81			LGS:	2%
Temp:	33C°	CaCl WP:				Oil On Cut:	

Viscosity	120sec/qt
YP	23lb/100ft²
PV	60cp
O/W Ratio:	66/34
Gels 10s	10
Gels 10m	22
Fann 003	7
Fann 006	10
Fann 100	37
Fann 200	
Fann 300	83
Fann 600	143

Comment: Backloaded onto Battler, 125bbl of slops (waste mud) into port tank #1 and 200bbl of 12.0ppg good Accolade SBM into stbd tank #1. Topped up 11.3ppg Brine volume in pits #3 and #7 and cut back with water to have 450bbl in pit #7 and 475bbl in pit #3. Added 1 drum Radiagreen EME into pit #8 to maintain 1.5% v/v concentration. Also added 50bbl of 11.0ppg brine and 110 gal of Baraklean into pit #4 to increase volume required for displacement. Added LE Supermul, Tau Mod and Calcium Chloride to active while drilling cement retainer to maintain properties. Backloaded surplus SBM chemicals to Valkyrie.

Bit # 12

Wear	I	O1	D	L	B	G	O2	R

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	6.00in	IADC#	115	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Smith Bits	WOB(avg)	3.00klb	3	20/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Type:	mt	RPM(avg)	40			IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Serial No.:	PG 1753	F.Rate	200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+ PS	SPP	2000psi			ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	4648.0m	HSI							
Depth Out		TFA	0.920						

Bit Comment

BHA # 16

Weight(Wet)	Length	Torque(max)	D.C. (1) Ann Velocity 365fpm
Wt Below Jar(Wet)	String	Torque(Off.Btm)	D.C. (2) Ann Velocity 0fpm
	Pick-Up	Torque(On.Btm)	H.W.D.P. Ann Velocity 0fpm
	Slack-Off		D.P. Ann Velocity 206fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.19m			PG1753	
Motor	7.12m	4.75in	2.00in	63	
NMDC	18.92m	4.75in	2.25in		
3 1/2" DP	2006.59m	4.75in	2.63in		
X/O	1.22m	4.75in	2.25in	SSD7159	

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	275.0
Rig Fuel	m3	0	1	0	284.0
POTABLE WATER	MT	12	31	0	323.0
Cement Class G	MT	0	0	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	73.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	34	0	160.0
BLENDED CEMENT	MT	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97			
2	National 14 P-220	6.50	1.44	97			
3	National 14 P-220	6.50	1.44	97			

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
4558.0	20	400	117	30	550	176	40	720	234
4558.0	20	400	117	30	550	176	40	700	234
4558.0	20	380	117	30	525	176	40	700	234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	36
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	1
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	6
Expro Group	2
Scottech	2
Schlumberger DD	1
Total	88

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	1330.7bbl
Active	203.5bbl
Mixing	
Hole	1055.1bbl
Slug	
Reserve	72.1bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 20 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	270.0deg	1018.0mbar	12C°	1.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2821.00klb	1.0m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		17.00	On route to Geelong ETA 14.00 21-08-08

Item	Unit	Used	Quantity
Rig Fuel	m3		182.4
Potable Water	Mt		360
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		32
Brine	m3		75

SBM onboard.
SBM Dirty = 75m3
SBM Slops = 20m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	13.00, 20-08-08		On Location

Item	Unit	Used	Quantity
Rig Fuel	m3		535.676
Potable Water	Mt		455
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		106
Base Oil	m3		118
Brine	m3		114.2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1001 / 1018	9 / 12	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 21

21 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.6m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	61.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$14,598,900
Wtr Dpth(MSL)	55.968m	Days on well	21.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with clean out assembly.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	RIH to +/-4520m. Displace well to brine. POOH laying out 3.50in drill pipe. RIH with RTTS and test well head seals to 4,500psi.		

Summary of Period 0000 to 2400 Hrs

Driiled cement retainer from 2668.0m - 2668.6m
No progress from 01.00 - 03.30 hrs. POOH, changed bit, laid out motor. RIH tagged cement retainer at 2668.6m. Drilled out cement retainer and chased same down from 2668.8m to 2680 with 2 - 10k down. Circulated bottoms up and POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		7 Days	Pressure tested Bop's.	14 Days - 18th August 21 Days - 04th Sept
Incident		2 Days	Caught fingers between single joint elevators and drill pipe.	Roustabout caught fingers between single joint elevators and drill pipe while removing the pick up elevators from the drill pipe laying on catwalk. The air winch operator on the rig floor picked up on air winch while man was removing pick up elevators from drill pipe. man went to medic for check up and then returned to work.
Medical Treatment Case		2 Days	Twisted ankle.	IP was descending stairs from Derrick when he stepped on to a boot wash tray and twisted his ankle. Went to medic where R.I.C.E was applied. IP will be sent to town for medical reveiw.
PTW issued	13	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings with crews.	Weekly safety meeting held at 1300 Saturday and 0045 on Sunday .
STOP Card	29	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Held Tool box talk with crews for related tasks.	Held Pretour safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 21 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (DH)	D1	0000	0330	3.50	4648.0m	Drilled cement retainer from 2668.5m - 2668.6m using various parrameters: 150 gpm, 2200 psi, 15 rpm, 3- 5k WOB. No significant progress from 01:00hrs - 03:30hrs. 18in of cement retainer drilled, estimated 12in left to be drilled.
P19	TP (DH)	G8	0330	1000	6.50	4648.0m	Pumped 20 bbls slug and POOH to surface. Broke of bit and inspected bit: 1,1,NO,A,E,I,NO,PR
P19	TP (DH)	G11	1000	1030	0.50	4648.0m	Serviced Top Drive and rig
P19	TP (DH)	G8	1030	1900	8.50	4648.0m	Laid out 4.75in motor and made up bit # 13 6in Smith GR+ and RIH to 2668.6m Broke circulation at 2559m with 300gpm, 600psi. Tagged top of cement retainer at 2668.6m with 10k down.
P19	TP (DH)	D1	1900	2000	1.00	4648.0m	Drilled out cement retainer from 2668.6m - 2668.8m. Drilled with 330gpm, 40rpm, 3k torque, 5-7 WOB Chased cement retainer down from 2668.8m - 2680m with 2-10k down.
P19	TP (DH)	G8	2000	2100	1.00	4648.0m	Circulated bottoms up at 600gpm, 3000psi.
P19	TP (DH)	G8	2100	2400	3.00	4648.0m	Pumped 30 bbls slug and POOH from 2680m - 1242m.

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Operations For Period 0000 Hrs to 0600 Hrs on 22 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (WB)	G8	0000	0200	2.00	4648.0m	POOH to 3.50in drill pipe, changed elevators to 3.50in. Picked up and inspected 1st stand 3.50in drill pipe, no visible distortion.
P19	TP (WB)	G8	0200	0500	3.00	4648.0m	RIH with 3.50in drill pipe to 2036m..
P19	TP (WB)	G8	0500	0600	1.00	4648.0m	Changed elevators to 5.50in and continued RIH to 2600m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 21 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	243.5	11 Aug 2008	21 Aug 2008	504.00	21.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 21 Aug 2008

Operational Comments	Adjustments to rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Awaiting parts to repair deployment/Recovery winch
Operational Comments	Expro Well Testing: Installed ignition and ESD systems.

SBM Data — Cost Today AUD$ 7017

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%	Viscosity	122sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	226952mg/l	H2O:	28%	YP	29lb/100ft²
Sample-From:	Flowline	HTHP-FL:	6.0cc/30min	Elec.Stab.:	236mV	Oil(%):	54%	PV	57cp
Time:	19:30	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	66/34
Weight:	11.90sg	CaCl mud:	28.81			LGS:	3%	Gels 10s	10
Temp:	33C°	CaCl WP:				Oil On Cut:		Gels 10m	22
								Fann 003	8
								Fann 006	11
								Fann 100	39
								Fann 200	
								Fann 300	86
								Fann 600	143

Comment: Prepare HW slug for POOH. Added Rheomod-L to active when circulating to minimize Barite slump when Accolade mud backloaded on boats. Prepare further HW slug for POOH.

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Bit # 13

Wear	I	O1	D	L	B	G	O2	R
							NO	

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	6.00in	IADC#	115	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Smith Bits	WOB(avg)	3.00klb	3	20/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Type:	mt	RPM(avg)	40			IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Serial No.:	PG 2034	F.Rate	200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+	SPP	2000psi			ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	4648.0m	HSI							
Depth Out	4648.0m	TFA	0.920						

Bit Comment

Bit # 12

Wear	I	O1	D	L	B	G	O2	R
	1	1	NO	A	E	I	NO	PR

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	6.00in	IADC#	115	No.	Size	Progress	0.6m	Cum. Progress	0.6m
Mfr:	Smith Bits	WOB(avg)	3.00klb	3	20/32nd"	On Bottom Hrs	14.0h	Cum. On Btm Hrs	14.0h
Type:	mt	RPM(avg)	40			IADC Drill Hrs	14.0h	Cum IADC Drill Hrs	14.0h
Serial No.:	PG 1753	F.Rate	200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+ PS	SPP	2000psi			ROP(avg)	0.04 m/hr	ROP(avg)	0.04 m/hr
Depth In	4648.0m	HSI							
Depth Out	4648.0m	TFA	0.920						

Bit Comment: Drilled 0.60m of 7 in cement retainer.

BHA # 16

Weight(Wet)	5.00klb	Length	2026.9m	Torque(max)	2000ft-lbs	D.C. (1) Ann Velocity	365fpm
Wt Below Jar(Wet)		String	185.00klb	Torque(Off.Btm)	1200ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	190.00klb	Torque(On.Btm)	1300ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	180.00klb			D.P. Ann Velocity	206fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.19m			PG1753	
NMDC	18.92m	4.75in	2.25in		
3 1/2	2006.59m	4.75in	2.63in		
X/O	1.22m	4.75in	2.25in	SSD7159	

BHA # 17

Weight(Wet)	4.00klb	Length	117.3m	Torque(max)		D.C. (1) Ann Velocity	365fpm
Wt Below Jar(Wet)		String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0fpm
		Slack-Off				D.P. Ann Velocity	206fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.19m			PG1753	
NMDC	18.92m	4.75in	2.25in		
3 1/2	96.94m	4.75in	2.63in		
X/O	1.22m	4.75in	2.25in	SSD7159	

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Printed on 21 Aug 2008

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	275.0
Rig Fuel	m3	0	18	0	266.0
POTABLE WATER	MT	12	33	0	302.0
Cement Class G	MT	0	0	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	73.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	160.0
BLENDED CEMENT	MT	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

Slow Pump Data

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	National 14 P-220	6.50	1.44	97	50	2000	280		20		117	30		176	40		234
2	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234
3	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	7
Expro Group	2
Scottech	2
Schlumberger DD	1
Schlumberger (Wireline)	3
Total	95

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	1324.1bbl
Active	188.0bbl
Mixing	
Hole	1064.1bbl
Slug	
Reserve	72.0bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 21 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	225.0deg	1019.0mbar	8C°	1.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	28836.00klb	1.5m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		17.00	On route to Geelong ETA 14.00 21-08-08

Item	Unit	Used	Quantity
Rig Fuel	m3		605.6
Potable Water	Mt		355
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		32
Brine	m3		75

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 20m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	13.00, 20-08-08		On Location

Item	Unit	Used	Quantity
Rig Fuel	m3		532.19
Potable Water	Mt		440
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		106
Base Oil	m3		118
Brine	m3		114.2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0956 / 1011	11 / 4	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 22

22 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	62.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$15,248,900
Wtr Dpth(MSL)	55.968m	Days on well	22.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH with 5.50in drill pipe.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	POOH with 5 1/2" drill pipe , layout all 3.5in drill pipe. Run RTTS and test well head seals to 4,000 psi.		

Summary of Period 0000 to 2400 Hrs

POOH to 3.50in drill pipe, inspected stand no vissible damage. RIH to HUD at 2777.64m. Worked through at 2777.64m. continued to work and pushed cement retainer down from 2777.64m to 2805m. Worked and rotated down from 2805m - 2919m with 2-10k down. Continued RIH to HUD at 4490m with constant 2-10k down. Circulated bottoms up. Commenced displacement program to 11.3ppg brine.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		8 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Incident		3 Days	Pinched finger.	When removing p/up elevators on c/walk
Medical Treatment Case		3 Days	Twisted ankle.	Stepped on footbath after decending ladder
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	62	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	TP (WB)	G8	0000	0200	2.00	4648.0m	POOH to 3.5in drill pipe and changed out to 3.5in elevators. Picked up and inspected first stand of 3.5in drill pipe, no visible distortion observed.
P19	TP (WB)	G8	0200	0500	3.00	4648.0m	RIH with 3.5in drill pipe to 2036m.
P19	TP (WB)	G8	0500	0630	1.50	4648.0m	Changed out to 5.5in elevators and continued RIH to 2680m. Oberseved drag increased to 4 - 5k down from 2680m - 2777.64m
P19	TP (WB)	G8	0630	0830	2.00	4648.0m	Made up top drive and work through hold up at 2777.64m. With 40spm, 150 - 230 gpm, 1000 - 2000psi, 40-60rpm, 5-10k WOB Observed WOB decreased to 4k.
P19	TP (WB)	G8	0830	1300	4.50	4648.0m	Continued rotating and working down cement retainer from 2777.64m - 2805 m with continuous 5- 10k down, 25spm, 150gpm, 1000psi, 60rpm.
P19	TP (WB)	F4	1300	1430	1.50	4648.0m	RIH and rotated down when necessary from 2805m - 2919m. RIH with up to 20k drag and rotated with 60rpm, WOB 9K.
P19	TP (WB)	G8	1430	2030	6.00	4648.0m	Continued RIH from 2919m - 4490m with continuous 5 - 10k drag down. Held up with 25k down at 4490m.
P19	TP (WB)	F4	2030	2300	2.50	4648.0m	Circulated bottoms up with 230gpm, 4400psi - heavy solids returned on bottoms up. While circulating bottoms held Pre Job Meeting for displacing well to brine.
P19	P	F4	2300	2400	1.00	4648.0m	Conmenced displacement program to brine, pumped 75 bbls hi/vis followed by Baraklean. Flushed all 3 mud pumps lines in pump room with Baraklean.

Operations For Period 0000 Hrs to 0600 Hrs on 23 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	F4	0000	0300	3.00	4648.0m	Continued with displacement program pumping the following fluids. Pumped 250 bbls BARAKLEAN Pumped 800 bbls 11 ppg CaCl2 Brine Pumped 325 bbls Radigreen (1.5% v/v) & LIQUI-VIS EP (1 gal/bbl) Brine Pumped 175 bbls 11.3 ppg CaCl2 Brine. Clean brine at surface at end of displacement.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							(Pumping was stopped when Baraklean back at surface to flush the choke and kill manifold. Pumped 10 bbls Baraklean through Kill, Choke lines and 10 bbls through choke manifold and displaced with 30 bbls 11.30ppg brine. Pumped out skimmer tank to slops pit.)
P19	P	F4	0300	0400	1.00	4648.0m	Cleaned out flow line to gumbo box to enable use of trip tank pump on closed circulating system while POOH/RIH.
P19	P	G8	0400	0600	2.00	4648.0m	POOH with 5.50in drill pipe.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 22 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	267.5	11 Aug 2008	22 Aug 2008	528.00	22.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 22 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Received parts to repair deployment / recovery winch. Commenced repair.
Operational Comments	Expro Well Testing: Installed ignition and ESD systems. Checking tools.

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SBM Data

Cost Today AUD$ 8081

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%	Viscosity	128sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	226952mg/l	H2O:	28%	YP	27lb/100ft²
Sample-From:	Pit 6	HTHP-FL:	6.0cc/30min	Elec.Stab.:	230mV	Oil(%):	54%	PV	58cp
Time:	19:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	66/34
Weight:	12.00sg	CaCl mud:	28.81			LGS:	2%	Gels 10s	10
Temp:	30C°	CaCl WP:				Oil On Cut:		Gels 10m	22
								Fann 003	8
								Fann 006	11
								Fann 100	40
								Fann 200	
								Fann 300	85
								Fann 600	143

Comment: Backloaded 2 drums Rheomod L and 12 sx of Tau Mod to Vessel Valkyrie. Added Tau Mod to active to prevent Barite slump when backloading mud to the boat. Added 70bbl of 11.3ppg brine, 7 bbl of drill water and Baraklean into pit #4 to increase the volume required to clean the lines. Displacement of well to brine on following daily report.

Bit # 13

Wear	I	O1	D	L	B	G	O2	R
							NO	

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	6.00in	IADC#	115	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Smith Bits	WOB(avg)	3.00klb	3	20/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Type:	mt	RPM(avg)	40			IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Serial No.:	PG 2034	F.Rate	200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+	SPP	2000psi			ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	4648.0m	HSI							
Depth Out	4648.0m	TFA	0.920						

Bit Comment

BHA # 17

Weight(Wet)	4.00klb	Length	2037.7m	Torque(max)	3000ft-lbs	D.C. (1) Ann Velocity	365fpm
Wt Below Jar(Wet)		String	219.00klb	Torque(Off.Btm)	1000ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	251.00klb	Torque(On.Btm)	2000ft-lbs	H.W.D.P. Ann Velocity	0fpm
		Slack-Off	187.00klb			D.P. Ann Velocity	206fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.19m			PG1753	
NMDC	18.92m	4.75in	2.25in		
3 1/2	2016.17m	4.75in	2.63in		
X/O	1.22m	4.75in	2.25in	SSD7159	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	275.0
Rig Fuel	m3	0	4	0	262.0
POTABLE WATER	MT	12	34	0	280.0
Cement Class G	MT	0	0	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	8	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	15	0	145.0
BLENDED CEMENT	MT	0	0	0	43.0

Pumps

Pump Data - Last 24 Hrs

No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)
1	National 14 P-220	6.50	1.44	97	50	2000	280

Slow Pump Data

Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
	20		117	30		176	40		234

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Pumps

Pump Data - Last 24 Hrs								Slow Pump Data								
2	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234
3	National 14 P-220	6.50	1.44	97					20		117	30		176	40		234

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	9
Expro Group	4
Scottech	2
Schlumberger (Wireline)	3
Well Dynamics	4
Total	103

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	1324.8bbl
Active	291.0bbl
Mixing	
Hole	960.9bbl
Slug	
Reserve	72.9bbl
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 22 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	180.0deg	1024.0mbar	10C°	2.0m	180.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2812.00klb	3.0m	180.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed	Status	Bulks

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(Date/Time)							
Pacific Battler		Geelong at 22.00	On route to location. ETA location at 15.30 23-08-08	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		597.426
				Potable Water	Mt		451
				Drill Water	Mt		190
				CEMENT G	Mt		0
				Barite	Mt		42
				Bentonite	Mt		0
				SOBM	m3		32
				Brine	m3		75
SBM onboard. SBM Dirty = 63m3 SBM Slops = 20m3							
Pacific Valkyrie	13.00, 20-08-08		On Location	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		528.421
				Potable Water	Mt		435
				Drill Water	m3		448
				CEMENT G	Mt		0
				Barite	Mt		70
				Bentonite	Mt		34.8
				SOBM	m3		106
				Base Oil	m3		118
				Brine	m3		114.2

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1040 / 1101	10 / 2	

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DRILLING MORNING REPORT # 23

23 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	63.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$15,898,900
Wtr Dpth(MSL)	55.968m	Days on well	23.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Rigging up to run TCP guns.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Continue to run TCP gun assembly.		

Summary of Period 0000 to 2400 Hrs

Displaced well to11.30ppg brine. POOH to 2037m. Continued POOH to 20.33m laying out 209 joints 3.50in drill pipe. Broke out bit and laid out BHA. Made up 10 3/4in RTTS and RIH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated. Fire and Abandon drill conducted.
BOP Test		9 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Incident	1	0 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM. A Spill Notification was forwarded to ADA Drilling Superintendent and relevant Nexus personnel as soon as the events were known, in accordance with reportable spills procedure # 4.3.1 of the SBM Management Plan.
Medical Treatment Case		4 Days	Twisted ankle.	
PTW issued	16	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	42	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 23 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	F4	0000	0300	3.00	4648.0m	Continued with displacement program pumping the following fluids. Pumped 250 bbls BARAKLEAN Pumped 800 bbls 11 ppg CaCl2 Brine Pumped 325 bbls Radigreen (1.5% v/v) & LIQUI-VIS EP (1 gal/bbl) Brine Pumped 175 bbls 11.3 ppg CaCl2 Brine. Clean brine at surface at end of displacement. (Pumping was stopped when Baraklean back at surface to flush the choke and kill manifold. Pumped 10 bbls Baraklean through Kill, Choke lines and 10 bbls through choke manifold and displaced with 30 bbls 11.30ppg brine. Pumped out skimmer tank to slops pit.)
P19	P	F4	0300	0400	1.00	4648.0m	Cleaned out flow line to gumbo box to enable use of trip tank pump on closed circulating system while POOH/RIH.
P19	P	G8	0400	0930	5.50	4648.0m	POOH with 5.50in drill pipe to 3.50 drill pipe at 2037m.
P19	P	G2	0930	2100	11.50	4648.0m	Changed handling equipment to 5.50in drill pipe. held safety meeting with crew discussing working with brine. POOH laying out 3.30in drill pipe to 20.33m. Total laid out 209 joints.
P19	P	G6	2100	2130	0.50	4648.0m	Broke out bit and laid out BHA. Bit details: 1,1,NO,A,E,I,NO,TD.
P19	P	G8	2130	2400	2.50	4648.0m	Made up 10 3/4in RTTS, RIH to 200m.

Operations For Period 0000 Hrs to 0600 Hrs on 24 Aug 2008

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P19	P	G8	0000	0030	0.50	4648.0m	RIH and set 10 3/4in RTTS at 210m.
P19	P	P1	0030	0100	0.50	4648.0m	With Halliburton tested lines 200/4000 psi 5/10 mins, tested well head seals to 250/4000 psi 5/10. Good test.
P19	P	G2	0100	0530	4.50	4648.0m	Unset RTTS and POOH laying out 5.50in heavy weight drill pipe and 6in drill collars and RTTS.
P19	P	G10	0530	0600	0.50	4648.0m	Rigged up to run TCP guns. Held JSA and run TCP guns.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 23 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 23 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Completed repairs to recovery winch. Dived and inspect SST.
Operational Comments	Expro Well Testing: Installed ignition and ESD systems. Checking tools.

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SBM Data

Cost Today AUD$ 2500

Mud Type:	ACCOLADE	HTHP-Temp:	120C°	Ex.Lime:		Solids(%vol):	16%	Viscosity	184sec/qt
Oil Type:	ACCOLADE BASE	HTHP:	500psi	Salinity:	223033mg/l	H2O:	30%	YP	28lb/100ft²
Sample-From:	Pit 5	HTHP-FL:	6.0cc/30min	Elec.Stab.:	283mV	Oil(%):	52%	PV	66cp
Time:	17:00	HTHP-cake:	2/32nd"			Sand:		O/W Ratio:	64/36
Weight:	12.30sg	CaCl mud:	30.18			LGS:	0%	Gels 10s	12
Temp:	30C°	CaCl WP:				Oil On Cut:		Gels 10m	26
								Fann 003	8
								Fann 006	11
								Fann 100	40
								Fann 200	
								Fann 300	94
								Fann 600	160

Comment

Displace well to brine. Pumped 75bbl 11.0ppg Radiagreen Hi-vis, 250bbl 11.0ppg Baraklean Brine, 800bbl 11.0ppg brine, 325bbl 11.0ppg Radiagreen Hi-vis brine and displaced string with 175bbl 11.3ppg brine. All mud pumps flushed while pumping Baraklean brine. Flushed all surface lines when Baraklean brine returned to surface. 289bbl of dirty brine was diverted to slops pit. 50bbl water/SBM was dumped to slops pit from rig floor scalper tank. Whine brine returns clean at shakers, 475bbl clean brine returns dumped overboard. Backloaded onto the Vessel Valkyrie, 809bbl of 12.0ppg good Accolade mud. Received 750bbl 11.3ppg brine from Valkyrie. Environmental Incident: When backloading SBM to the Ocean Valkyrie the transfer hose to the boat split, discharging 21bbl of SBM to the ocean.

Bit # 13

Wear	I	O1	D	L	B	G	O2	R
	1	1	NO	A	E	I	NO	TD

Bitwear Comments:

				Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Size ("):	6.00in	IADC#	115	No.	Size	Progress		Cum. Progress	0.0m
Mfr:	Smith Bits	WOB(avg)	3.00klb	3	20/32nd"	On Bottom Hrs		Cum. On Btm Hrs	0.0h
Type:	mt	RPM(avg)	40			IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Serial No.:	PG 2034	F.Rate	200gpm			Total Revs		Cum Total Revs	0
Bit Model	XR+	SPP	2000psi			ROP(avg)	N/A	ROP(avg)	0.00 m/hr
Depth In	4648.0m	HSI							
Depth Out	4648.0m	TFA	0.920						

Bit Comment

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	29	0	246.0
Rig Fuel	m3	0	16	0	246.0
POTABLE WATER	MT	12	43	0	249.0
Cement Class G	MT	0	0	0	42.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	15	0	130.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	38

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Personnel On Board

Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	9
Expro Group	4
Scottech	2
Schlumberger (Wireline)	3
Well Dynamics	4
Total	103

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	**1445.2bbl**	**Losses**	**0.0bbl**
Active	62.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1117.2bbl	Dumped	
Slug		De-Gasser	
Reserve	266.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 23 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	225.0deg	1027.0mbar	10C°	2.0m	225.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2486.00klb	2.5m	225.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	15.30		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		579.934
Potable Water	Mt		447
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		32
Brine	m3		75

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 20m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		01.00	On Route to Geelong. ETA berth 23.30hrs 23-08-08

Item	Unit	Used	Quantity
Rig Fuel	m3		521.8
Potable Water	Mt		435
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		246
Base Oil	m3		118
Brine	m3		2

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Printed on 23 Aug 2008

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 24

24 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	64.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$16,548,900
Wtr Dpth(MSL)	55.968m	Days on well	24.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with TCP gun assembly on 5.50in drill pipe. Depth at 06.00hrs = 2670m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	RIH to setting depth. Correlate depth with Schlumberger. Fire guns, monitor well. POOH with TCP gun assembly.		

Summary of Period 0000 to 2400 Hrs

RIH and set RTTS at 210m. Tested well head seal to 200/4000psi 5/10 mins. Good test. POOH laying out 5.50in heavy weight drill pipe and 6in drill collars. Rigged up and run TCP gun assembly as per program to 1900m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		10 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Incident		1 Day	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM. A Spill Notification was forwarded to ADA Drilling Superintendent and relevant Nexus personnel as soon as the events were known, in accordance with reportable spills procedure # 4.3.1 of the SBM Management Plan.
Medical Treatment Case		5 Days	Twisted ankle.	
PTW issued	18	0 Days		Permit to work issued for the day.
Safety Meeting	2	1 Day	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	30	0 Days		Stop cards submitted for the day.
ToolBox Talk	9	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 24 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0030	0.50	4648.0m	RIH and set 10 3/4in RTTS at 210m.
P22	P	P1	0030	0100	0.50	4648.0m	With Halliburton tested lines 200/4000 psi 5/10 mins, tested well head seals to 250/4000 psi 5/10. Good test.
P22	P	G2	0100	0530	4.50	4648.0m	Unset RTTS and POOH laying out 5.50in heavy weight drill pipe and 6in drill collars and RTTS.
P22	P	G10	0530	0630	1.00	4648.0m	Rigged up to run TCP guns.
P22	P	G23	0630	0700	0.50	4648.0m	Held JSA with crews for running TCP gun assembly.
P22	TP (TP)	G2	0700	0730	0.50	4648.0m	Attempted to repair hydraulic safety clamp. Set up rig's manual safety clamp to fit 3 1/8in TCP guns.
P22	P	G2	0730	2400	16.50	4648.0m	Picked up and made up downhole gauges. Picked up and made up 3 1/8in and 4 1/2in TCP gun assembly and RIH to 1900m.

Operations For Period 0000 Hrs to 0600 Hrs on 25 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G2	0000	0100	1.00	4648.0m	Continued RIH with TCP gun assembly to gun #226 at 1900m, laid gun #226 out as it was damaged replaced with gun# 233.
P22	P	G2	0100	0200	1.00	4648.0m	Continued RIH from 1900m to 1925m and installed firing head. Changed out handling

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							equipment to 3.50in drill pipe. Picked up stand 3.50in drillpipe and made up cross overs, pup joints and stand 3.50in and RIH to 1961m
P22	P	G8	0200	0230	0.50	4648.0m	Changed out elevators to 5.50in and made up cross over and RIH with 5.50in drill pipe to 2020m.
P22	P	G8	0230	0330	1.00	4648.0m	Picked up cement stand broke out TIW valve and SEC and made these up to 5.0m pup joint and laid out same.
P22	P	G8	0330	0600	2.50	4648.0m	RIH with TCP gun assembly on 5.50in drill pipe. No obstruction or resistance observed when entering top of 7in liner at 2569.56m Depth at 06.00 hrs = 2670m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 24 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	24	24 Aug 2008	24 Aug 2008	576.00	24.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 24 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Installing tooling attachment to ROV. Maintenance of equipment.
Operational Comments	Expro Well Testing: Rigging up equipment.

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Australian Drilling Associates Pty Ltd ADA

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	288973mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	20:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	7
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Clean flowline, shakers and shaker troughs. Backloaded onto the vessel Battler 470bbl of good 1.0ppg ACCOLADE SBM into Stbd tank #2 and Stbd tank #1, also bakloaded into port tank #1 230bbl Slops (waste mud). Cleaning mixing lines and mud pits. Brine volume dumped due to dead volume in pits when re-cleaning after initial displacement.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	39	0	207.0
Rig Fuel	m3	0	12	0	234.0
POTABLE WATER	MT	12	37	0	224.0
Cement Class G	MT	0	0	10	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	130.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	13
Seadrill Services.	38
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Q Tech	1
Tasman Oil Tools	4
Reach	1
Baker Atlas	9
Expro Group	4
Scottech	2
Schlumberger (Wireline)	3
Well Dynamics	4
Total	103

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	1147.1bbl
Active Mixing	
Hole	1030.1bbl
Slug	
Reserve	117.0bbl
Kill	

Losses	254.1bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	254.1bbl
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Brine dumped due to dead volume when re-cleaning mud pits after initial displacement.

Marine

Weather on 24 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	5kn	315.0deg	1032.0mbar	10C°	1.0m	270.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2391.00klb	1.5m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	15.30		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		571.804
Potable Water	Mt		443
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		75

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		01.30	On route to Geelong ETA 23.30 hrs 24-08-08

Item	Unit	Used	Quantity
Rig Fuel	m3		523.2
Potable Water	Mt		430
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		127
Base Oil	m3		118
Brine	m3		114.2

SBM Slops: 106m3.

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DRILLING MORNING REPORT # 25

25 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	65.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$17,198,900
Wtr Dpth(MSL)	55.968m	Days on well	25.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH and laying out TCP guns. Average losses at 06.00hrs 3 bbls/hr.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Lay out TCP guns. Run well bore cleaning program. POOH laying out 5.50in drill pipe.		

Summary of Period 0000 to 2400 Hrs

Run TCP guns to 1925m. RIH with 5.50 in drillpipe to 4414m. Rigged up Schlumberger and ran correlation log. POOH rigged down Schlumberger. Picked and position bottom shot of TCP guns at 4408m. Fired TCP guns, observed firing with 44bbls loss to well. Closed annular and circulated bottoms up via fully opened choke, no gas returns. Flow checked 15 mins, losses at 3bbls/hr. Rigged down SES assembly and POOH with 5.50in drill pipe.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		11 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Medical Treatment Case		6 Days	Twisted ankle.	
PTW issued	29	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	54	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 25 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	G2	0000	0100	1.00	4648.0m	Continued RIH with TCP gun assembly to gun #226 at 1900m, laid gun #226 out as concerns about booster protruding too high. Replaced with gun# 233.
P22	P	G2	0100	0200	1.00	4648.0m	Continued RIH from 1900m to 1925m and installed firing head. Changed out handling equipment to 3.50in drill pipe. Picked up stand 3.50in drillpipe and made up cross overs, pup joints and stand 3.50in and RIH to 1961m
P22	P	G8	0200	0230	0.50	4648.0m	Changed out elevators to 5.50in and made up cross over and RIH with 5.50in drill pipe to 2020m.
P22	P	G8	0230	0330	1.00	4648.0m	Picked up cement stand broke out TIW valve and SEC and made these up to 5.0m pup joint and laid out same.
P22	P	G8	0330	1030	7.00	4648.0m	RIH with TCP gun assembly on 5.50in drill pipe to 4414m. No obstruction or resistance observed when entering top of 7in liner at 2569.56m
P22	P	C1	1030	1100	0.50	4648.0m	Rigged up Schlumberger wireline.
P22	P	E4	1100	1400	3.00	4648.0m	Held JSA, made up GR/CCL and RIH with GR/CCL at 11.30hrs and run correlation log. POOH, Laid out CCL/GR.
P22	P	E4	1400	1430	0.50	4648.0m	Rigged down Schlumberger wireline.
P22	P	C5	1430	1530	1.00	4648.0m	Made up SEC assembly to 5.50in drill pipe and rigged up cement line. Picked up and postioned bottom shot of TCP guns at 4408m.
P22	P	C5	1530	1600	0.50	4648.0m	Pressure tested lines to 500/5000 ps 5/10 mins with Halliburton.
P22	P	C5	1600	1730	1.50	4648.0m	Dropped 1 7/16in ball, waited 15 min. Pressured up on string to 2750psi held pressure 1 min. Continued to pressure up to 4200psi observed shear out of pressure diverter sub with pressure drop. Observed TCP guns firing with well taking 44bbls brine and 30k increase in string weight. Loss rate at 18bbls/hr. Depths of perforations: 4406m - 4243m, 4191.4m - 4085m, 3944m - 3639.8m, 3152.4m - 3132m, 2862m - 2828m, 2761m - 2683m, 2516m - 2494m.
P22	P	E4	1730	1800	0.50	4648.0m	Rigged down cement line.
P22	P	F4	1800	2030	2.50	4648.0m	Closed annular and circulated bottoms up via fully opened choke. No gas returns upon bottoms up. Average dymanic loss rate 20bbls/hr. Circulated at 300gpm, 400psi.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G14	2030	2100	0.50	4648.0m	Opened annular and conducted 15 min flow check on trip tank. Loss rate at 3 bbls/hr. Broke out SES assembly from 5.50 drill pipe.
P22	P	G8	2100	2400	3.00	4648.0m	POOH with 5.50in drill pipe from 4408m - 3115m.

Operations For Period 0000 Hrs to 0600 Hrs on 26 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0200	2.00	4648.0m	Continued POOH with 5.50in drill pipe to 1991m
P22	P	G8	0200	0300	1.00	4648.0m	Held JSA with all crews. Continued to POOH, laying out TCP assembly subs and racked back stand 3.50in drill pipe to firing head.
P22	P	G2	0300	0600	3.00	4648.0m	POOH laying out 4 1/4in TCP gun assembly.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 25 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	48	24 Aug 2008	25 Aug 2008	600.00	25.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 25 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.
Operational Comments	ROV operations: Installing tooling attachment to ROV. Maintenance of equipment.
Operational Comments	Expro Well Testing: Rigging up equipment, 39% of lines installed and rigged up.

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WBM Data

Cost Today AUD$ 18085

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	289470mg/l	Solids(%vol):	
Sample-From:	Pit #6	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	20:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	7.5
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Function test brine filtration system with seawater. Continue to clean mud pits. Filtered 900bbl brine and cut back with water to 11.0ppg. Received 774bbl 11.3ppg brine from Battler into rig main stoarge tank. Mixed 260bbl of filtered brine HEC pill in pit #7. Volume of unfiltered 11.3ppg brine in main rig tank 762bbl. Volume of 11.0ppg filtered brine 484bbl pit #3. Volume of 11.0ppg unfiltered brine in pit #6 223bbl. 69bbl of 11.0ppg brine in slug pit for LCM pill.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	54	0	153.0
Rig Fuel	m3	0	11	0	223.0
POTABLE WATER	MT	12	37	0	199.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	64	140	67	121.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Tasman Oil Tools	2
Reach	1
Baker Atlas	7
Expro Group	10
Scottech	2
Schlumberger (Wireline)	3
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	1
Cameron	1
Nexus Energy Pty. Ltd.	1

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Personnel On Board

Total	109

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	2045.6bbl
Active	275.0bbl
Mixing	
Hole	977.3bbl
Slug	
Reserve	793.3bbl
Kill	

Losses	310.1bbl
Downhole	26.0bbl
Surf+ Equip	134.1bbl
Dumped	150.0bbl
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 25 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	5kn	205.0deg	1025.0mbar	10C°	1.0m	270.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2276.00klb	1.0m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	15.30		On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		566.247
Potable Water	Mt		439
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		123

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Adjustment to brine figures incorrect figures reported by vessel.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie		01.30	Along side at Geelong.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		496.818
Potable Water	Mt		420
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		127
Base Oil	m3		118
Brine	m3		114.2

SBM Slops: 106m3.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1013 / 1025	14 / 8	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 26

26 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$702,700
Rig	West Triton	Days from spud	66.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$17,901,600
Wtr Dpth(MSL)	55.968m	Days on well	26.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with clean out assermbly to 2480m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Complete clean out and displacement program to 11.00ppg filtered brine. POOH laying out 5.50" drill pipe.		

Summary of Period 0000 to 2400 Hrs

POOH laying out TCP guns. All guns fired. Picked up and made up and RIH with 10.750in clean out assembly.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		12 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		3 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM. A Spill Notification was forwarded to ADA Drilling Superintendent and relevant Nexus personnel as soon as the events were known, in accordance with reportable spills procedure # 4.3.1 of the SBM Management Plan.
Medical Treatment Case	1	0 Days	Painter received small laceration to left index finger.	Description of Incident The IP was injured as the third party supervisor was trying to remove an end cap from a 6 m section of perforating gun. The IP had done this task for approximately 6 hours without incident. The IP was holding a wrench on the section approximately 2 m from the end to stop it from turning while the third party supervisor used another wrench to break off the end cap. As the force was applied on the wrench used by the supervisor one end of the gun section slid off the small supporting cross beams and dropped approximately 2-3 inches landing on the IPS hand using the 2nd wrench.
PTW issued	21	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	36	0 Days		Stop cards submitted for the day.
ToolBox Talk	9	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip drill	Held trip drill with crew while POOH. Reaction time 58 seconds.

Operations For Period 0000 Hrs to 2400 Hrs on 26 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0200	2.00	4648.0m	Continued POOH with 5.50in drill pipe to 1991m
P22	P	G8	0200	0300	1.00	4648.0m	Held JSA with all crews. Continued to POOH, laying out TCP assembly subs and racked back stand 3.50in drill pipe to firing head.
P22	P	G2	0300	2030	17.50	4648.0m	POOH laying out TCP gun assembly. All guns fired.
P22	P	G2	2030	2100	0.50	4648.0m	Rigged down TCP gun handling equipment.
P22	P	F7	2100	2130	0.50	4648.0m	Clean and cleared rig floor of all excess equipment, while cranes move TCP gun baskets to main deck and pick up and spot tools on catwalk for clean out assembly run. In conjunction with operating BOP functions.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G2	2130	2230	1.00	4648.0m	Held JSA and picked up and made up 10.750in clean out assembly BHA. Comprising of 9.50in Hughes bit type MX-09, 10.750in casing scraper and 10.750in Well Patroller.
P22	P	G8	2230	2400	1.50	4648.0m	RIH with 10.750in clean up assembly BHA on 5.50in drill pipe to 481m.

Operations For Period 0000 Hrs to 0600 Hrs on 27 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0330	3.50	4648.0m	Continued to RIH with 10.750in clean up assembly BHA on 5.50in drill pipe to 2167m
P22	P	G8	0330	0430	1.00	4648.0m	Picked up and made up ball catcher and x-overs to 5.50in drill pipe.
P22	P	G8	0430	0600	1.50	4648.0m	RIH to 2233m. Worked cleanout assembly across HF-1 packer setting depth at 2242m, from 2233m - 2262m with 60rpm, 850gpm at 1200psi. Continued to RIH to 2480m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 26 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	72	24 Aug 2008	26 Aug 2008	624.00	26.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 26 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Installing tooling attachment to ROV. Maintenance of equipment.
Operational Comments	Expro Well Testing: Rigging up equipment, 54% of lines installed and equipment rigged up.

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WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	288973mg/l	Solids(%vol):	
Sample-From:	Pit #6	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:10	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	7
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Filtered 450bbl of 11.3ppg brine into pit #4 and cut back with water to 11.0ppg to 495bbl total. Transferred filtered brine from pit #3 to pit #8 and added 57bbl filtered 11.3ppg brine and cut back with water to 11.0ppg to 485bbl total. Filtered remaining 197bbl of 11.3ppg brine from rig storage tank into pit #3 and cut back with water to 11.0ppg to 302bbl total volume. Transferred slops volume from pit #1 to pit #2. Flushed pit #1 with seawater and Baraklean.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	33	0	120.0
Rig Fuel	m3	0	12	0	211.0
POTABLE WATER	MT	12	37	0	174.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	111	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	9
Seadrill	13
Seadrill Services.	34
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Tasman Oil Tools	2
Reach	1
Baker Atlas	7
Expro Group	10
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	1
Cameron	2
Scottech	2
Total	110

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	2772.2bbl
Active	265.0bbl
Mixing	
Hole	1117.2bbl
Slug	
Reserve	1390.0bbl
Kill	

Losses	53.4bbl
Downhole	28.4bbl
Surf+ Equip	25.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 26 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	225.0deg	1025.0mbar	10C°	2.0m	270.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2274.00klb	3.0m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	15.30		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		557.851
Potable Water	Mt		436
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		0

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Adjustment to brine figures incorrect figures reported by vessel.

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			On route to locatin.ETA 13.00 27-08-08

Item	Unit	Used	Quantity
Rig Fuel	m3		486.721
Potable Water	Mt		415
Drill Water	m3		448
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		114.2

SBM Slops: 0m3.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0948 / 1005	14 / 13	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 27

27 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	67.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$18,551,600
Wtr Dpth(MSL)	55.968m	Days on well	27.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH laying out 5.50in drill pipe. Depth at 06.00 = 650m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Complete laying out of 5.50in drill pipe. RIH jet BOP'S and pull bore protector. Rig up and run completion.		

Summary of Period 0000 to 2400 Hrs

RIH with clean out assembly, worked scraper at 2234m - 2263m. Worked riser brushes through BOP's and riser. Displaced well to filtered inhibited brine at 11.00ppg. POOH laying out 5.50in drill pipe.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		3 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		13 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		4 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM.
Medical Treatment Case	1	0 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb. It should be noted that the IP was not wearing gloves at the time of the incident.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	47	0 Days		Stop cards submitted for the day.
ToolBox Talk	12	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 27 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0330	3.50	4648.0m	Continued to RIH with 10.750in clean up assembly BHA on 5.50in drill pipe to 2167m
P22	P	G8	0330	0430	1.00	4648.0m	Picked up and made up ball catcher and x-overs to 5.50in drill pipe.
P22	P	G8	0430	0600	1.50	4648.0m	RIH to 2233m. Worked cleanout assembly across HF-1 packer setting depth at 2242m, from 2233m - 2262m with 60rpm, 850gpm at 1200psi. Continued to RIH to 2480m.
P22	P	G8	0600	0700	1.00	4648.0m	Picked up and made up riser brush assembly.
P22	P	G20	0700	0800	1.00	4648.0m	RIH to with riser brush assembly through BOP's worked same across BOP's twice at 630gpm, 700psi.
P22	P	G20	0800	0900	1.00	4648.0m	Worked riser brush assembly throught 22in HP riser and scraped AHC packer setting depth at 2526m to 2564m, with 60rpm, 930gpm, 1200psi.
P22	P	F3	0900	1000	1.00	4648.0m	Pumped 75 bbls Baraklean, 75 bbls Mud Flush and 75 bbls Hi Vis HEC pills.
P22	P	G8	1000	1130	1.50	4648.0m	Displaced well with 850 bbls 11.00 ppg filtered brine at 420gpm, 500psi. While working and rotaing the string.
P22	P	G8	1130	1330	2.00	4648.0m	Flow checked on trip tank 15mins static losses at 1.70bbls/min. POOH from 2564m -2440m. Laid out 22in HP riser brush assembly.
P22	P	G8	1330	1730	4.00	4648.0m	Held JSA, changed out elevators and POOH, laying out 5.50in drill pipe to 2273m.
P22	P	G8	1730	1830	1.00	4648.0m	Displaced well with 215 bbls inhibited 11.00 ppg filtered bine at 550gpm, 500psi.
P22	P	G8	1830	2100	2.50	4648.0m	POOH, laying out 5.50in drill pipe from 2273m - 2020m. Laid out CCV ball catcher and

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Printed on 27 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							x-overs at 2147m.
P22	P	F3	2100	2200	1.00	4648.0m	Removed zip bails. Pumped and displaced a futher 415bbls inhibited 11.00 ppg filtered bine at 950gpm, 1000psi.
P22	P	G8	2200	2230	0.50	4648.0m	POOH and racked back 5 stands 5.50in drill pipe in derrick.
P22	P	G8	2230	2400	1.50	4648.0m	Rigged up zip bails and POOH laying out 5.50in drill pipe from 1872m - 1656m.

Operations For Period 0000 Hrs to 0600 Hrs on 28 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0600	6.00	4648.0m	POOH laying out 5.50in drill pipe. Depth at 06.00hrs = 650m. Note: Drill pipe "U" Tubing at 1073m: Pumped 30bbls unfiltered brine at 11.30ppg down string to stop "U" Tubing.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 27 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	96	24 Aug 2008	27 Aug 2008	648.00	27.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 27 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Installing tooling attachment to ROV. Maintenance of equipment.
Operational Comments	Expro Well Testing: Rigging up equipment 65% of lines installed and equipment rigged up.

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WBM Data

Cost Today AUD$ 10935

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	294159mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	22:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.05sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Prepared 70bbl of 11.0ppg brine using sacks in slug pit for extra unfiltered brine volume and used to mix 75bbl Baraklean brine pill for displacement. Added 46bbl of 11.0ppg filtered brine to active pit #6 to allow sufficient volume for circulating. Initial displacement: Pumped 75bbl Baraklean pill. Prepared 75bbl 3% Flo-clean pill in slug pit and pumped. Pumped 75bbl HEC pill from pit #7, then displaced with 917bb of filtered 11.0ppg brine. Prepared 239bbl inhibited brine in pit #8. Attempt to filter conatminated brine, unable to filter. Dumped unfiltered contaminated brine from displacement of well to filtered brine and then to inhibited brine. Displacement to inhibited brine: Pumped 222bbl of inhibited 11.0ppg brine. Prepared further 447bbl of inhibited 11.0ppg brine and pumped 415bbl. Take returns of filtered brine from second displacement to pit #5 and #3. Filter further 160bbl brine from pit #3 to pit #4.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	265	40	0	345.0
Rig Fuel	m3	0	10	0	201.0
POTABLE WATER	MT	162	40	0	296.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	119	94	0	35.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Tasman Oil Tools	2
Reach	1
Expro Group	12
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	3
Cameron	3
Scottech	2
Total	107

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

Available	2571.3bbl
Active	680.0bbl
Mixing	
Hole	1044.3bbl
Slug	
Reserve	847.0bbl
Kill	

Losses	871.8bbl
Downhole	52.0bbl
Surf+ Equip	30.0bbl
Dumped	789.8bbl
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 27 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	225.0deg	1028.0mbar	10C°	2.0m	270.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2677.00klb	2.0m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		14.35	On route to Geelong. ETA Geelong 08.00 28-08-08

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		531.128
Potable Water	Mt		433
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		0

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	14.00		On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		466.431
Potable Water	Mt		255
Drill Water	m3		282
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		114.2

SBM Slops: 0m3.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0959 / 1013	7 / 10	

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 28

28 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	68.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$19,201,600
Wtr Dpth(MSL)	55.968m	Days on well	28.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Running 5 inch completion string. Depth at 06.00 hrs = 125m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Continue to run 5in/7in completion string as per Completion program.		

Summary of Period 0000 to 2400 Hrs

Completed POOH and laying out 5.50in drill pipe. Made up jetting and bore retrieving assembly, RIH jetted SST, engaged and pull bore protector. Jetted bore protector seating area and displaced riser to 11.00ppg filtered inhibited brine. POOH and laid out jetting/retrieving assembly. Rigged up and run 5in completion string as per completion program.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		14 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		5 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM.
Medical Treatment Case		1 Day	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb. It should be noted that the IP was not wearing gloves at the time of the incident.
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	43	0 Days		Stop cards submitted for the day.
ToolBox Talk	11	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 28 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	G8	0000	0930	9.50	4648.0m	POOH laying out 5.50in drill pipe to 38.68m.. Note: Drill pipe "U" Tubing at 1073m: Pumped 30bbls unfiltered brine at 11.30ppg down string to stop "U" Tubing.
P22	P	G8	0930	1000	0.50	4648.0m	Rigged down zip bails and 5.50in elevators and rigged up 5.50in elevators on drilling bails and racked back one stand 5.50in drill pipe in derrick.
P22	P	G2	1000	1100	1.00	4648.0m	Laid out BHA, x/o, well patroller, 10.750in scraper, bit sub and bit. Note: Small pieces of rubber observed in well patroller from riser brush assembly.
P22	P	G6	1100	1200	1.00	4648.0m	Made up BHA, well patroller, ball catcher, circulation valve and bore protector retrieving tool.
P22	P	G8	1200	1300	1.00	4648.0m	RIH with BHA to 92.38m.
P22	P	G16	1300	1400	1.00	4648.0m	Dropped ball, positioned CCV above SST and jetted same with 550gpm, 100psi with 29bbls filtered and inhibited brine at 11.00ppg.
P22	P	G16	1400	1430	0.50	4648.0m	RIH and set 16k down on bore protecter retrieving tool to engage bore protector at 92.38m. Pulled out bore protector. Note: No overpull observed when pulling bore protector.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Positioned CCV at well head and jetted well head area with passes at 550gpm, 100psi, with 71bbls filtered and inhibited brine at 11.00ppg.
P22	P	G8	1430	1700	2.50	4648.0m	POOH and laid out well patroller, ball catcher, circulation valve and bore protecter retrieving tool and bore protector. Note: No wear obsevered on bore protector. Note: No debris or junk observed in well patroller.
P22	P	G24	1700	1730	0.50	4648.0m	Cleared rig floor of excess equipment.
P22	P	G1	1730	1800	0.50	4648.0m	Rigged down bails and 5.50in elevators and rigged up 15ft bails and 5in elevators.
P22	P	G1	1800	2000	2.00	4648.0m	Rigged up completion string running equipment.
P22	P	C4	2000	2330	3.50	4648.0m	Held JSA and run 5in completion string as per program. Picking up and making up mule shoe, sliding sleeve, 10.750in AHC packer, and assemblies 1A to 5A.
P22	P	C4	2330	2400	0.50	4648.0m	Unable to achieve correct torque on blast joint #3 to #2. Laid out blast joint #3 and picked up and attempted to make up back up blast joint.

Operations For Period 0000 Hrs to 0600 Hrs on 29 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C4	0000	0500	5.00	4648.0m	Continued to pick up and attempting to make up blast joints to required torque. A total of 6 joints failed to meet torque requirements. This operation involved the laying out of two blast joints and picking up two replacement joints each time. Two to three attempts were made to make up blast joints to required torque before changing them out.(Lost approximately 3.5 hours during this operation.)
P22	P	C4	0500	0600	1.00	4648.0m	Pick up and made up and RIH with 5in tubing completion string.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 28 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	120	24 Aug 2008	28 Aug 2008	672.00	28.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 28 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations:

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General Comments

	Dived and functioned CTV valve when pulling bore protector. Maintenance of equipment.
Operational Comments	Expro Well Testing: Rigging up equipment 80% of lines installed and equipment rigged up.
Operational Comments	Average hole losses while running completion 1 - 2bbls/hr.

WBM Data

Cost Today AUD$ 10471

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	292547mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	20:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	10
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

Prepared further 166bbl of inhibited brine in pit #8. Filled slug pit with 56bbl of unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	21	0	324.0
Rig Fuel	m3	100	8	0	293.0
POTABLE WATER	MT	12	15	0	293.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	25	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	10
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Tasman Oil Tools	2
Reach	1
Expro Group	12
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2

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Personnel On Board

Rigcool	2
Weatherford	4
Cameron	3
Scottech	2
Total	109

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2620.2bbl**
Active	206.0bbl
Mixing	
Hole	1117.2bbl
Slug	
Reserve	1297.0bbl
Kill	

Losses	**124.0bbl**
Downhole	48.0bbl
Surf+ Equip	25.0bbl
Dumped	51.0bbl
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 28 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	45.0deg	1028.0mbar	12C°	1.0m	270.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2634.00klb	1.0m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		523.925
Potable Water	Mt		360
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		96

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		358.69
Potable Water	Mt		250
Drill Water	m3		166
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		67
Base Oil	m3		0
Brine	m3		0

SBM Slops: 57m3.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1003 / 1018	10 / 8	

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DRILLING MORNING REPORT # 29

29 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	69.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$19,832,000
Wtr Dpth(MSL)	55.968m	Days on well	29.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Continue picking up and made up 7in tubing completion string and RIH. Depth at 06.00hrs 1550m		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Run completion to TR-SSSV, install and test same. RIH with remaining completion string to tubing hanger depth. Install and test tubing hanger. Land out tubing hanger in SST. Lock and test tubing hanger.		

Summary of Period 0000 to 2400 Hrs

Picked up and made up blast joints. Laid out total of 6 blast joints due to required torque not being met. Continued run 5in completion string to 317m.
Picked up and made up ICV, gauge carrier and packer. Installed and pressure tested control lines.
Continue picking up and made up 7in tubing completion string and RIH to 812m

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		15 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		6 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM.
First Aid Case		2 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb. It should be noted that the IP was not wearing gloves at the time of the incident.
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		6 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	45	0 Days		Stop cards submitted for the day.
ToolBox Talk	12	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 29 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (TP)	C4	0000	0330	3.50	4648.0m	Continued to pick up and attempting to make up blast joints to the required torque. A total of 6 joints failed to meet torque requirements. This operation involved the laying out of two blast joints and picking up two replacement joints each time. Two to three attempts were made to make up blast joints to required torque before changing them out.
P22	P	C4	0330	0800	4.50	4648.0m	Continued picking up and made up 5in tubing completion string and RIH to 317.72m. Changed out joints #17 for #20.
P22	P	C4	0800	0900	1.00	4648.0m	Incorrect fill of tubing, tubing not taking correct amount of fluid, suspected leak in tubing. Rigged up water bushing and pressure tested string to 500psi 5 mins. Good test.
P22	P	C4	0900	0930	0.50	4648.0m	Picked up and made up assembly #7, internal control valve, HUC, gauge carrier, 10.750 packer and landing nipple.
P22	P	C4	0930	1700	7.50	4648.0m	Made up control lines to ICV and pressure tested control lines to 5,000psi for 15mins. Good test. Made up control line to gauge carrier and tested gauge carrier control line to 5,000psis for 15mins. Terminated control lines and connected Well Dynamics control line and tested same to 10,000psi, 15mins. Good test. Function tested ICV and tested

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							lines 5,000psi 15mins. Good test.
P22	P	C4	1700	1800	1.00	4648.0m	Continued picking up and made up 5in tubing completion string and RIH to 351m. Changed over handling equipment to 7in.
P22	P	C4	1800	2400	6.00	4648.0m	Continue picking up and made up 7in tubing completion string and RIH to 812m

Operations For Period 0000 Hrs to 0600 Hrs on 30 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C4	0000	0600	6.00	4648.0m	Continued picking up and made up 7in tubing completion string and RIH to 1550m

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 29 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	144	24 Aug 2008	29 Aug 2008	696.00	29.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 29 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations:. Repairs to hydraulis control system resovoir for manipulator arms ongoing.
Operational Comments	Expro Well Testing: Rigging up equipment 79.3% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 25% of all equipment rigged up.
Operational Comments	Average hole losses while running completion 1 - 2bbls/hr.

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WBM Data

Cost Today AUD$ 7122

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	292547mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	10
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Fill trip tank as required with inhibited brine from pit #8.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	8	0	316.0
Rig Fuel	m3	0	16	0	277.0
POTABLE WATER	MT	12	30	0	275.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	10
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	3
Tasman Oil Tools	2
Reach	1
Expro Group	12
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Scottech	2
Total	109

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	2581.6bbl
Active	160.0bbl
Mixing	
Hole	1087.6bbl
Slug	
Reserve	1334.0bbl
Kill	

Losses	38.6bbl
Downhole	38.6bbl
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 29 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	70.0deg	1021.0mbar	12C°	1.0m	270.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2504.00klb	1.0m	270.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler	18.30		On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		501.809
Potable Water	Mt		357
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		96

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		352.855
Potable Water	Mt		245
Drill Water	m3		166
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		67
Base Oil	m3		0
Brine	m3		0

SBM Slops: 57m3.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0955 / 1516	9 / 9	VIP visit Helicopter shutdown during visit

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 30

30 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	70.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$20,482,000
Wtr Dpth(MSL)	55.968m	Days on well	30.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Locking and pressure testing tubing hanger in SST.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Rig up flow head and lines. Perform slick line work. Displace tubing string to diesel. Set downhole completion packers. Pressure test tubing and annulus. Prepare to open and flow well.		

Summary of Period 0000 to 2400 Hrs

Run completion string as per program; installing down hole tools in string and tested same as per program.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		16 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		7 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		3 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	21	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	61	0 Days		Stop cards submitted for the day.
ToolBox Talk	13	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 30 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C4	0000	1330	13.50	4648.0m	Continued picking up and made up 7in tubing completion string and RIH to 2416m
P22	P	C4	1330	1600	2.50	4648.0m	Picked up and made up assembly 9A SSSV and terminated contol lines and tested same to 4,000psi.
P22	P	C4	1600	1700	1.00	4648.0m	Continued picking up and made up 7in tubing completion string and RIH to 2479m.
P22	P	C4	1700	2030	3.50	4648.0m	Picked up and made up tubing hanger. Terminated SSSV and ICV control lines through tubing hanger and pressure tested control lines to 4,000psi. Performed pre submergence checks.
P22	P	C4	2030	2200	1.50	4648.0m	Baker Hughes installed and tested Production Quest electricial line connection through tubing hanger to 4,000psi.
P22	P	C4	2200	2300	1.00	4648.0m	Haliburton Completions pressure tested SSSV control line to 4,000psi.
P22	P	C4	2300	2330	0.50	4648.0m	Well Dynamics presure tested open and closed ICV control lines to 4000 psi. Leave ICV in open position.
P22	P	C4	2330	2400	0.50	4648.0m	Installed split bushing into rotary table and landed out tubing hanger at rotary table.

Operations For Period 0000 Hrs to 0600 Hrs on 31 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C4	0000	0130	1.50	4648.0m	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger. Performed pre submergence checks. Recorded string weight 207k up, 180k down.
P22	P	C4	0130	0330	2.00	4648.0m	Removed split bushings and RIH with completion string on 7in landing string.
P22	P	C4	0330	0600	2.50	4648.0m	Confirmed SST valves configured for landing tubing hanger. Pick up weight 216k, slack off weight 180k. Landed out tubing hanger in SST, observed string rotated 90 degrees to the left as helix engaged when landing out tubing hanger. Set down 108k. Pressure

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							tested tubing hanger against annular to 500/4000psi, 5/10 mins. Good test. Locked tubing hanger in SST.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 30 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	168	24 Aug 2008	30 Aug 2008	720.00	30.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 30 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations:. Completed repairs to hydraulis control system resovoir for manipulator arms. Test dived ROV. Second dive: Operated SST valves, TCT valve to open position, opened /closed S1V1, opened /closed S1V2,
Operational Comments	Expro Well Testing: Rigging up equipment 90% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 60% of all equipment rigged up.
Operational Comments	Average hole losses while running completion 1 - 2bbls/hr.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	292547mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:30	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	10
				PF:		PHPA:	

Viscosity		Fann 003	
PV		Fann 006	
YP		Fann 100	
Gels 10s		Fann 200	
Gels 10m		Fann 300	
		Fann 600	

Comment	Continue to fill trip tank from pit #8 if required. Returns from casing displacement to pit #8. Clean mud pits #1 and #2. Backloaded 3 drums Radiagreen EME and SBM mud samples on Ocean Valkyrie.

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	16	0	300.0
Rig Fuel	m3	115	13	0	379.0
POTABLE WATER	MT	12	30	0	257.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	11
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	6
Reach	1
Expro Group	13
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2533.7bbl**	**Losses**	**48.0bbl**
Active	202.0bbl	Downhole	48.0bbl
Mixing		Surf+ Equip	0.0bbl
Hole	1034.7bbl	Dumped	
Slug		De-Gasser	
Reserve	1297.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 30 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	17kn	50.0deg	1008.0mbar	12C°	1.0m	60.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2688.00klb	1.0m	60.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		375.402
Potable Water	Mt		353
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42

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				Item	Unit	Used	Quantity
				Bentonite	Mt		0
				SOBM	m3		110
				Brine	m3		96
SBM onboard. SBM Dirty = 63m3 SBM Slops = 56m3							
Pacific Valkyrie			At Geelong.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		328.194
				Potable Water	Mt		240
				Drill Water	m3		166
				CEMENT G	Mt		0
				Barite	Mt		70
				Bentonite	Mt		34.8
				SOBM	m3		67
				Base Oil	m3		0
				Brine	m3		0
SBM Slops: 57m3.							

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1345 / 1351	7 / 6	Well Testing Crew

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DRILLING MORNING REPORT # 31

31 Aug 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	71.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$21,132,000
Wtr Dpth(MSL)	55.968m	Days on well	31.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with slick line to retreive XX plug from X nipple.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Displace tubing to 258bbls diesel. Set bottom hole packers, test tubing and annulus. Test well as per program.		

Summary of Period 0000 to 2400 Hrs

Continued to run completion string. Landed out tubing hanger in SST confirmed landed out and locked in with 100k overpull. Pressure tested cavities between tubing hanger seals to 5,000psi. rigged up flow head and all associated lines and presssure tested same. Pressure test lines to Expro manifold Rigged up Expro slick line. Pulled TH isolation sleeve. Installed 4.70in bore protector with slick line, RIH and set 4.562in xx plug in x nipple at 2242m. POOH laid out running tool.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		0 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		17 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		8 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		4 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	19	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	66	0 Days		Stop cards submitted for the day.
ToolBox Talk	13	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 31 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C4	0000	0130	1.50	4648.0m	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger. Performed pre submergence checks. Recorded string weight 207k up, 180k down.
P22	P	C4	0130	0330	2.00	4648.0m	Removed split bushings and RIH with completion string on 7in landing string.
P22	P	C4	0330	0600	2.50	4648.0m	Confirmed SST valves configured for landing tubing hanger. Pick up weight 216k, slack off weight 180k. Landed out tubing hanger in SST, observed string rotated 90 degrees to the left as helix engaged when landing out tubing hanger. Set down 108k. Pressure tested tubing hanger against annular to 500/4000psi, 5/10 mins. Good test. Locked tubing hanger in SST. Comfirmed tubing hanger locked in with 100k overpull.
P22	P	C4	0600	1200	6.00	4648.0m	Pressure tested tubing hanger cavities between upper and middle seal to 5,000psi 10 mins via CSM line. Good test. Pressure tested tubing hanger cavities between middle seal and lower seal to 5,000psi 10 mins via TCT line. Good test. Open and pressure tested SIV1, SIV2, SSD1, SSDC to 5,000psi 10 mins each in sqeuence. All good tests. While preforming the above picked up flow head, made up x-overs to flow head with Weatherford and made up flow head to landing string.
P22	P	C13	1200	1600	4.00	4648.0m	Held JSA, hooked up coflex hoses, chicksan and all associated control lines to flow head and tested same. Removed sheaves for running control from derrick and tested cooling water from mud pumps to flare booms.
P22	P	C13	1600	1830	2.50	4648.0m	Pressure tested surface tree and well test package to 5,500 psi with Halliburton. Good tests. Preformed test burn to starbord flare boom with Expro.
P22	P	C13	1830	1930	1.00	4648.0m	Held JSA, rigged up Expro slick line , RIH and retreived TH isolation sleeve.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C13	1930	2000	0.50	4648.0m	RIH with 7" GS running tool with 4.70in bore protection and installed same in TH. POOH and laid out running tool. Meanwhile closed XOV and ROV closed CSM.
P22	P	C13	2000	2200	2.00	4648.0m	Opened ICV with 3,000psi and bleed of pressure to 0psi. Installed tree cap, flushed all surface lines with 11.00ppg filtered and inhibited brine with Halliburton from flow head to Expro choke. Lined up and broke circulation down string and confirmed returns to trip tank. Removed surface tree cap.
P22	P	C13	2200	2400	2.00	4648.0m	RIH with 4.50in running tool and 4.562in XX plug to X nipple at 2242m, installed plug in X nipple and POOH, laid out running tool.

Operations For Period 0000 Hrs to 0600 Hrs on 01 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C13	0000	0330	3.50	4648.0m	Installed pressure test cap on flow head. Pressure tested down tubing to XX plug to 500/5500psi 5/10 mins. Good test. Bleed of pressure to 5,000psi. Closed SSSV and bleed of pressure above SSSV to 1,000psi for inflow test. Equalized pressure arcoss SSSV, opened SSSV and bled of tubing pressure to 0psi. Good inflow test. While performing the above: Expro pressure tested chemical injection lines to flow head and SST to 500/5,500psi 5/10 mins. Good tests.
P22	P	C13	0330	0600	2.50	4648.0m	Rigged down slick line. Rigged up slick line lubricator and made up new rope socket to slick line.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 31 Aug 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	192	24 Aug 2008	31 Aug 2008	744.00	31.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 31 Aug 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: ROV operating SST valves as required for well test operations.

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General Comments

Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 95% of all equipment rigged up.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	292547mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	22:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	10
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Continue to clean pit #2. Fill trip tank from pit #8 if required.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	300.0
Rig Fuel	m3	0	15	0	364.0
POTABLE WATER	MT	12	28	0	241.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	11
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	3
Tamboritha	6
Reach	1
Expro Group	13
Well Dynamics	4
BHI	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Total	110

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

				Equipment	Description	Mesh Size	Comments
Available	**2479.7bbl**	**Losses**	**54.0bbl**	Shaker 1	VSM-300	280	
Active	145.0bbl	Downhole	37.0bbl	Shaker 2	VSM-300	280	
Mixing		Surf+ Equip	17.0bbl	Shaker 3	VSM-300	280	
Hole	1034.7bbl	Dumped		Shaker 4	VSM-300	280	
Slug		De-Gasser					
Reserve	1300.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine

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Weather on 31 Aug 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	25kn	50.0deg	1015.0mbar	12C°	1.0m	265.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2688.00klb	2.0m	60.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Item	Unit	Used	Quantity
Rig Fuel	m3		369.616
Potable Water	Mt		350
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		96

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At Geelong.

Item	Unit	Used	Quantity
Rig Fuel	m3		610.442
Potable Water	Mt		253
Drill Water	m3		166
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		67
Base Oil	m3		0
Brine	m3		0

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DRILLING MORNING REPORT # 32

01 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	72.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$21,782,000
Wtr Dpth(MSL)	55.968m	Days on well	32.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Attempting to test HC-1 packer.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Set production packers and test same. Open and flow well.		

Summary of Period 0000 to 2400 Hrs

Tested tubing to 500/5,500psi 5/10 mins. Good test. Rigged up slickline lubricator and Bop's and RIH and retreived XX plug at X nipple at 2242m. Attempted to set and test production packers - no success.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		8 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		18 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		9 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		5 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	23	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	37	0 Days		Stop cards submitted for the day.
ToolBox Talk	13	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 01 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C13	0000	0330	3.50	4648.0m	Installed pressure test cap on flow head. Pressure tested down tubing to XX plug to 500/5500psi 5/10 mins. Good test. Bleed of pressure to 5,000psi. Closed SSSV and bleed of pressure above SSSV to 1,000psi for inflow test. Equalized pressure arcoss SSSV, opened SSSV and bled of tubing pressure to 0psi. Good inflow test. While performing the above: Expro pressure tested chemical injection lines to flow head and SST to 500/5,500psi 5/10 mins. Good tests.
P22	P	C13	0330	0830	5.00	4648.0m	Rigged down slick line. Rigged up slick line lubricator, Bop's and made up new rope socket to slick line. Pressure tested lubricator to 5,000psi. Good test.
P22	P	C13	0830	1100	2.50	4648.0m	RIH with 4.50in GS pulling tool and attempted to retrieve XX plug in X nipple at 2242m. POOH - no plug recovered. Redressed pulling tool.
P22	P	C13	1100	1230	1.50	4648.0m	RIH with 4.50in GS pulling tool and engaged XX plug in X nipple at 2242m. POOH worked throught SSSV continued POOH and laid out running tool and plug.
P22	P	C13	1230	1430	2.00	4648.0m	Made up protection sleeve and running tool, installed lubricator, RIH and set protection sleeve in SST, POOH and removed lubricator and Bop's from flow head and installed tree cap.
P22	P	C13	1430	1700	2.50	4648.0m	Heled JSA, tested surface lines to 5,500 psi, checked valve status and displaced tubing with 258 bbls diesel at 2.50 bbls min. 258bbls brine returned during displacement. (Held pre flow safety meeting with all crews while displacing.)
P22	P	C13	1700	1800	1.00	4648.0m	Lined up and pressured down string against FBIV to 5,500psi to set the HF1 and AHC packers held pressure 15mins. Bled of pressure to 1900psi.
P22	TP (DH)	C13	1800	1930	1.50	4648.0m	Opened ICV. Closed annular and pressure tested down choke line with rig pumps against HC-1 packer. Pumped 11.80 bbls while increasing pressure to 2500 psi, while pumping both the tubing string and annulus pressure increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure decreasing at same rate.
P22	TP (DH)	C13	1930	2130	2.00	4648.0m	Bled of annulus pressure to 0psi. Lined up and pressured down string against FBIV to 5,500psi in attempt to set the HFI and AHC packers again - pressure held for15 mins

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							then dropped 100psi over 45mins. Increased pressure to 5,500 psi and hold pressure for 30 mins, no pressure lost. Bled of pressure to 1800psi.
P22	TP (DH)	C13	2130	2230	1.00	4648.0m	Opened ICV. Closed annular and pressure tested down choke line with rig pumps against HC-1 packer. Pumped 6.60bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure decreased at same rate.
P22	TP (DH)	C13	2230	2400	1.50	4648.0m	While communicating with town bled of annulus pressure to 0psi. Lined up and pressured down tubing string against FBIV to 5,500psi and held pressure.

Operations For Period 0000 Hrs to 0600 Hrs on 02 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0300	3.00	4648.0m	Held 5,500psi on tubing string while calculating maxium applied surface pressures allowed to assist in setting packer and waiting for techincial information from Cameron support in Singapore on maxium permitted pressure for SST and components.
P22	TP (DH)	C13	0300	0500	2.00	4648.0m	Held JSA. Closed FMV. Bled off all pressure via Expro manifold. Locked open NRV on flowhead. Flushed lines with Halliburton to Expro with 7 bbls Drill Water. Closed FWV and tested lines and flow head to 6,000psi 10 mins. Good Test. Bled of pressure to 5400psi. Opened FMV and increased tubing pressure from 5400 psi to 6000 psi. Held pressure for 1 hour. Bled off (to Cement Unit) to 5500 psi. Closed FKV and opened FWV and bled off pressure via Expro Choke to 1400 psi.
P22	TP (DH)	C13	0500	0600	1.00	4648.0m	Opened ICV. Closed annular and pressure tested down choke line with rig pumps against HC-1 packer. Pumped 6.60bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure drecreasing at same rate.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 01 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	216	24 Aug 2008	01 Sep 2008	768.00	32.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 01 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing.

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General Comments

	13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: ROV operating SST valves as required for well test operations.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	292547mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	19:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.10sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	10
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Fill trip tank as required from pit #8 with inhibited brine. Displace completion string to diesel, brine returns to pit #5.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	300.0
Rig Fuel	m3	0	54	0	310.0
POTABLE WATER	MT	12	30	0	223.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	11
Seadrill	12
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Expro Group	14
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	1
Cameron	2
Total	102

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2694.2bbl**	**Losses**	**55.5bbl**	Equipment	Description	Mesh Size	Comments
Active	114.0bbl	Downhole	40.5bbl	Shaker 1	VSM-300	280	
Mixing		Surf+ Equip	15.0bbl	Shaker 2	VSM-300	280	
Hole	1042.2bbl	Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	1538.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

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Marine

Weather on 01 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	50.0deg	1023.0mbar	1500C°	1.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2688.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			On location.	

Item	Unit	Used	Quantity
Rig Fuel	m3		360.995
Potable Water	Mt		342
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		96

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			At Geelong.	

Item	Unit	Used	Quantity
Rig Fuel	m3		610.442
Potable Water	Mt		253
Drill Water	m3		166
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		67
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1100 / 1116	9 / 17	Crew Change Well Test Crew

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 33

02 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	73.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$22,432,000
Wtr Dpth(MSL)	55.968m	Days on well	33.00	FIT/LOT:	1.68sg /		
RT-ASL(MSL)	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Using Halliburton pumping down string to cycle FBIV to locked open position.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Prepare to pull completion string. Run Schlumberger wire line and chemicial cut packer.		

Summary of Period 0000 to 2400 Hrs

Attempting to test HC-1 packer, no success. Established injection rate and pumped 280 bbls brine at 11.00ppg down tubing string injecting diesel into formation. Attempted to set and test HC-1 packer with 11.00 brine in tubing no success. Formulated forward plan. Installed protection sleeve into SST with slickline.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		2 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		19 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		10 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		6 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	20	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	34	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 02 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0300	3.00	4648.0m	Held 5500 psi on tubing string while calculating maximum applied surface pressures allowed to assist in setting packer and waiting for technical information from Cameron support in Singapore on maximum permitted pressure for SST and components.
P22	TP (DH)	C13	0300	0500	2.00	4648.0m	Held JSA. Closed FMV. Bled off all pressure via Expro manifold. Locked open NRV on flowhead. Flushed lines with Halliburton to Expro with 7 bbls Drill Water. Closed FWV and tested lines and flow head to 6000 psi for 10 mins - good Test. Bled off pressure to 5400 psi. Opened FMV and increased tubing pressure from 5400 psi to 6000 psi. Held pressure for 1 hour. Bled off (to Cement Unit) to 5500 psi. Closed FKV, opened FWV and bled off pressure via Expro Choke to 1400 psi.
P22	TP (DH)	C13	0500	0600	1.00	4648.0m	Opened ICV. Closed annular and pressure tested down choke line with rig pumps against HF-1 packer. Pumped 6.60 bbls and increased pressure to 1500 psi - while pumping both the tubing string and annulus pressures increased at the same rate - stopped pumping. Closed PMV and bled off 500 psi annulus pressure to confirm SST XOV holding - both annulus and tubing pressure drecreased at same rate.
P22	TP (DH)	C13	0600	0700	1.00	4648.0m	Attempted to reverse circulate diesel from tubing: Pumped 10 bbls total with mud pumps down annulus pressuring up to 4950 psi allowing tubing pressure to increase from 1380 psi to 1800 psi and then attempted to bleed off tubing pressure via Expro choke to establish circulation. Bled off 1 Bbl from tubing - restricted circulation path. Bled off 500 psi at cement unit - SITP = 1285 psi, SICP = 4595 psi.
P22	TP (DH)	C13	0700	0930	2.50	4648.0m	Observed pressures: Tubing pressure building slowly and annulus pressure decreasing slowly. Discussed options with town.
P22	TP (DH)	C13	0930	1130	2.00	4648.0m	Established injection rate by pumping brine down tubing string with cement unit while holding 2700-3200 psi on annulus above packer: 0.5 BPM = 3800 psi, 0.75 BPM = 3950 psi, 1 BPM = 4050 psi, 1.25 BPM = 4120 psi, 1.5 BPM = 4050 psi, 2 BPM = 4030 psi, 5 BPM = 4100 psi. Continued pumping / injecting total of 280 bbls brine (final injection pressure / rate = 5 BPM @ 2700 psi). Bleed off annulus pressure via rig choke and tubing pressure via Expro choke.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	1130	1300	1.50	4648.0m	Closed ICV. Confirmed presures on down-hole gauges = DHPT = 6136 psi, DHPA = 6688 psi. Using cement unit, pressured down tubing string using brine to 6000 psi in an attempt to set HF-1 packer with maximum differential. Hold 6000 psi pressure for one hour. Bleed off tubing string pressure.
P22	TP (DH)	C13	1300	1330	0.50	4648.0m	Attempted to pressure test HF-1 packer: Pressured down annulus using rig pump staging up to 500 psi. Observed tubing pressure increased to 230 psi. Stop pumping - tubing pressure settled out at 480 psi, annulus pressure settled out at 275 psi. Bleed off pressures. No test on packer.
P22	TP (DH)	C13	1330	1830	5.00	4648.0m	Discussed options and developed forward plan with town.
P22	TP (DH)	C13	1830	2230	4.00	4648.0m	Held JSA, Expro prepared tools and re-terminated rope sock. Rigged up slickline and lubricator. Reviewed packer sleeve shifting tool clerances through tubing string.
P22	TP (DH)	C13	2230	2400	1.50	4648.0m	RIH with slickline and set protection sleeve at SST well head, POOH, confirmed that sleeve set in SST. Racked back lubricator in derrick.

Operations For Period 0000 Hrs to 0600 Hrs on 03 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	Installed test cap on flow head. Lined up and commenced pressuring up string to cycle FBIV to locked open position. Stopped pumping after receiving confirmation from technical support that HF-1 shifting tool will travel through all completion components.
P22	TP (TP)	C13	0100	0530	4.50	4648.0m	Rigged up lubricator and RIH with HF-1 shifting tool and and release packer at 2244m, postive indication of packer released with 300lbs overpull, repeat 3 times, no overpull observed on last 2 times through packer. POOH. Checked shifting tools, shear pins sheared indicating that packer is released. Laid out tool string and racked back lubricator in derrick. Installed test cap onto flow head.
P22	TP (TP)	C13	0530	0600	0.50	4648.0m	Closed ICV, pumped down tubing to 3500 psi at steady rate (0.5 BPM) with Halliburton and hold for two minutes , bleed of pressure, wait 2 minutes and repeted process untill FBIV shifted into locked open position.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 02 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	240	24 Aug 2008	02 Sep 2008	792.00	33.000	4648.0m

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282004mg/l	Solids(%vol):	
Sample-From:	Pit #5	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	19:30	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.05sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Transfer inhibited brine from pit #8 to cement unit for pressure testing as required. Rec'd approx. 660bbl of 11.3ppg brine from Ocean Battler. Bullheaded diesel from tubing to formation at 5bpm with 223bbl of inhibited brine from pit #8 and pit #5.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	24	0	276.0
Rig Fuel	m3	0	9	0	301.0
POTABLE WATER	MT	12	28	0	207.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

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Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	7
Seadrill	12
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Expro Group	14
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	2
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**3131.2bbl**
Active	45.0bbl
Mixing	
Hole	1042.2bbl
Slug	
Reserve	2044.0bbl
Kill	

Losses	**223.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Diesel	223.0bbl
Bullheaded to Formation	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 02 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	22kn	220.0deg	1035.0mbar	10C°	1.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2523.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			On location.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		358.214
Potable Water	Mt		340
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42

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				Item	Unit	Used	Quantity
				Bentonite	Mt		0
				SOBM	m3		110
				Brine	m3		0
SBM onboard. SBM Dirty = 63m3 SBM Slops = 56m3							
Pacific Valkyrie			Onroute to location.	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		607.542
				Potable Water	Mt		448
				Drill Water	m3		487
				CEMENT G	Mt		0
				Barite	Mt		70
				Bentonite	Mt		34.8
				SOBM	m3		0
				Base Oil	m3		0
				Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BJW	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1533 / 1545	3 / 4	Well Test Crew

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 34

03 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	74.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$23,082,000
Wtr Dpth (MSL)	55.968m	Days on well	34.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Rigging down Expro test bails.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Run Schlumberger and chemicial cut packer. Back out and pull landing string. Make up tubing hanger releasing tool, RIH release tubing hanger and POOH with completion string.		

Summary of Period 0000 to 2400 Hrs

RIH with shifting tool and released packer at 2244m. POOH and rigged down slickline. Cycled FBIV to locked opened position. Observed pressure at Expro choke while flow checking well. Reversed circulated 280 bbls of brine, flow checked well. Well static. Made up and RIH and set XX plug at X nipple at 2552m. POOH with slickline.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		4 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		20 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		11 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		7 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	45	0 Days		Stop cards submitted for the day.
ToolBox Talk	13	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 03 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	Installed test cap on flow head. Lined up and commenced pressuring up string to cycle FBIV into the locked open position. Stopped pumping after receiving confirmation from technical support that HF-1 shifting tool will travel through all completion components.
P22	TP (DH)	C13	0100	0530	4.50	4648.0m	Rigged up lubricator, RIH with HF-1 shifting tool and and released packer at 2244m - positive indication that packer released with 300 klbs overpull. Repeated 3 times - no overpull observed on the last 2 times through packer. POOH and checked shifting tools - shear pins sheared indicating that packer was released. Laid out tool string and racked back lubricator in derrick. Installed test cap onto flow head.
P22	TP (TP)	C13	0530	0700	1.50	4648.0m	Cycled FBIV to locked open position, pumping down tubing with cement unit pressured up to 3500 psi, hold two minutes, bleed off to zero psi, waited two minutes. Repeated sequence 6 times - observed pressure drop and increased volume pumped on sixth cycle. Repeated cycle and confirmed valve locked open.
P22	TP (DH)	G14	0700	0900	2.00	4648.0m	Shut down and flow checked well - Tubing pressure = 296 psi, Annulus losing at 0.6 bbls/hr. Monitored pressures - tubing pressure rising at approx 1 psi / minute.
P22	TP (DH)	P3	0900	1300	4.00	4648.0m	Shut in tubing pressure = 460 psi, Annulus losing 0.6 bbls/hr. Closed annular. Opened ICV. Commenced reverse circulating, pumping down annulus with filtered 11.0 ppg brine, through ICV and up tubing to Expro choke. Pumping at 1.3 BPM and 1600-1800 psi annulus pressure holding 550-130 psi back pressure at Expro choke. Diesel returns to surface after pumping 5 bbls Diverted to flare after pumping 15 bbls Dry gas to surface after pumping 60 bbls 20% Diesel, 80% Brine after pumping 96 bbls Diesel percentage decreased to trace after pumping 217 bbls. During circulation loosing approx 20% of pumped volume.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Pumped total of 280 bbls - clean brine returns.
P22	TP (DH)	P3	1300	1400	1.00	4648.0m	Shut down and checked pressures - Annulus = 230 psi, Tubing = 40 psi - checked returns - gas still evident. Continued reverse circulating, pumping at 2 BPM and 2350 - 2700 psi holding 130-150 psi back pressure at Expro choke. Pumped additional 63 bbls (343 Total pumped) with clean brine returns. Shut down and checked pressures Annulus = 249 psi, Tubing = 0 psi. Bleed off annulus - no flow (pressure due to restriction when circulating past packer)
P22	TP (DH)	G14	1400	1500	1.00	4648.0m	Flow checked well OK.
P22	TP (DH)	C13	1500	2030	5.50	4648.0m	Confirmed plan and sorted equipment to place second barrier in tubing. Rigged down Coflex hose and chemical injection line from flow-head. Rigged up slick line, prepared pump in assembly for Schlumberger.
P22	TP (DH)	C13	2030	2400	3.50	4648.0m	Made up 3.813in XX plug with 2.313in pump out plug. RIH and set same in X nipple at 2552m MDRT. POOH.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	POOH with running tool, confirmed XX plug set in X nipple at 2552m. Instaled test cap on flow head.
P22	TP (DH)	C13	0100	0200	1.00	4648.0m	Lined up to Halliburton and pumped 21 bbls brine to fill string and pressure tested XX plug at 2552m to 750 psi 5 mins. Good test.
P22	TP (DH)	C13	0200	0400	2.00	4648.0m	Rigged down and laid out slick line Bop's, lubricator.
P22	TP (DH)	C13	0400	0600	2.00	4648.0m	Rigged down flow head from landing string and laid out same. Rigged down Expro completion bails.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 03 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	264	24 Aug 2008	03 Sep 2008	816.00	34.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 03 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.

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General Comments

	12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: ROV carried out post sea bed cuttings survey: 75% completed.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

WBM Data — Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282574mg/l	Solids(%vol):	
Sample-From:	Pit #5	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	23:59	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.00sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity		Fann 003	
PV		Fann 006	
YP		Fann 100	
Gels 10s		Fann 200	
Gels 10m		Fann 300	
		Fann 600	

Comment: Transfer inhibited brine from pit #5 to cement unit for pressure testing as required. Circulated well with 11.0ppg brine to kill well. 333bbl brine dumped.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	5	0	271.0
Rig Fuel	m3	0	10	0	291.0
POTABLE WATER	MT	12	28	0	191.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	32
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	6
Expro Group	13
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Schlumberger (Wireline)	5
Total	104

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Printed on 03 Sep 2008

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	2798.2bbl
Active	111.0bbl
Mixing	
Hole	1042.2bbl
Slug	
Reserve	1645.0bbl
Kill	

Losses	333.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	333.0bbl
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 03 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	25kn	310.0deg	1033.0mbar	1500C°	1.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2505.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		00.00	Onroute to Geelong.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		351.378
Potable Water	Mt		339
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		0

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	20.00		

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		584.597
Potable Water	Mt		443
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

On location.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BJW	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1037 / 1056	18 / 15	Crew Change SCH W/Line

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DRILLING MORNING REPORT # 35

04 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	75.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$23,772,100
Wtr Dpth (MSL)	55.968m	Days on well	35.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Racking back one stand drill pipe to pick up HF-1 packer clear of heavy wall casing and 5 1/2" tubing clear of liner, in an effort to create a clear circulating path.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Circulate hole clean and POOH with completion string.		

Summary of Period 0000 to 2400 Hrs

POOH with running tool for XX plug. Pressure tested XX plug to 750psi. Rigged down slick line and rigged down and laid out Schlumberger flow head. Rigged up Schlumberger wire line and RIH with chemical cutter and cut AHC packer at 2527m. POOH, rigged down Schlumberger. Backed out 7" landing string and POOH and laid out same. Made up and RIH with THRET to tubing hanger.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		5 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		21 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		12 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		8 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	25	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	POOH with running tool, confirmed XX plug set in X nipple at 2552m. Installed test cap on flow head.
P22	TP (DH)	C13	0100	0200	1.00	4648.0m	Lined up to Halliburton and pumped 21 bbls brine to fill string and pressure tested XX plug at 2552m to 750 psi 5 mins. Good test.
P22	TP (DH)	C13	0200	0400	2.00	4648.0m	Rigged down and laid out slick line BOP and lubricator.
P22	TP (DH)	C13	0400	0600	2.00	4648.0m	Rigged down flow head from landing string and laid out same. Rigged down Expro completion bails.
P22	TP (DH)	C13	0600	0630	0.50	4648.0m	Rigged up 350tn long bails and 3.50in elevators.
P22	TP (DH)	C13	0630	0830	2.00	4648.0m	Rigged up Schlumberger wireline pump in assembly and rigged up cement hose to pump in assembly.
P22	TP (DH)	C13	0830	0930	1.00	4648.0m	Pressure tested lines with cement unit against TIW valve and pack off to 1500 psi. Pressure tested against XX plug to 750 psi. All good tests.
P22	TP (DH)	C13	0930	1300	3.50	4648.0m	Backed off quick connection on pump in assembly and laid down assembly onto rig floor to install chemical cutter. Rigged up T bar and sheaves for Schlumberger wireline. Made up chemical cutter tool and installed in tubing.
P22	TP (DH)	C13	1300	1730	4.50	4648.0m	Installed pump in assembly and RIH with chemical cutter. Stopped at 2000 m with tool and closed ICV. Continued RIH with chemical cutter and hung up at ICV. Attempted to work tool string past same - no success. Pulled back 100 m and opened ICV. RIH with tool string - successfully passed ICV. Correlated and landed out tool string on R-nipple @ 2532 m.

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Printed on 04 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Fired chemical cutter to cut AHC packer at 16.15hr. Flow checked tubing and annulus 10 minutes - OK. POOH.
P22	TP (DH)	C13	1730	1930	2.00	4648.0m	Tools at surface, confirmed chemical cutter fired - noted damage to severing head. Laid out tool string, and rigged down Schlumberger.
P22	TP (DH)	C13	1930	2100	1.50	4648.0m	Made up 6ft pup joint to landing string. Released MTHRT with 7 RH turns of landing string - observed shear pins sheared after 6 turns with 6,000 ft/lbs over original torque. Confirmed with Cameron that ICV closed, AAV and AMV open.
P22	TP (DH)	C13	2100	2230	1.50	4648.0m	Held JSA and POOH and laid out landing string and MTHRT.
P22	TP (DH)	C13	2230	2400	1.50	4648.0m	Picked up and made up THRET to 5.50in drill pipe and RIH to top of tubing hanger at 91.59m.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	Made up THRET into tubing hanger, unlocked tubing hanger with 4 LH turns and observed increase in torque comfirming that tubing hanger unlocked. Closed annular. Pumped down completion string with 5 bbls brine to 1400psi and observed Pump Open Plug sheared open at 1400 psi. Opened ICV and confirmed with Cameron that TRSSSV closed, CSM, PMV, XOV, AMV and AAV opened. Picked up 2m, intial pickup weight 220k, after 1m pick up weight dropped down to 208k. Obseved no pressure increase on annulus or tubing.
P22	TP (DH)	C13	0100	0130	0.50	4648.0m	Cameron closed AMV, AAV, PMV and XOV with HPU. Lined up to circulate down string with returns back via choke manifold. Pumped at 2.5 bbls min, string took 8 bbls to fill. Pressure increasing to 1800psi after pumping 51 bbls pumped - getting partial returns. Stopped pumps observe drill pipe pressure fall to 0 psi. Annulus pressure = 0 psi. Recommenced pumping down string at 1.2bbls min pressure increasing to 1500 psi - getting partial returns. Estimated loss = 20 bbls. Stopped pumps and closed choke.
P22	TP (DH)	P3	0130	0230	1.00	4648.0m	Observed pressure increased on choke manifold to 200psi, drill pipe pressure 0 psi. Worked string up and down over 4m interval 4 times with 240k pickup, 178k down. Attempted to circulate string while working string up and down. Pressure fluctuating in drill pipe and annulus. Stop pumps - SICP = 200 psi SIDP = 100 psi.
P22	TP (DH)	P3	0230	0400	1.50	4648.0m	Attempted to bleed of casing pressure, bled of 6 bbls to trip tank, closed in choke and observed SICP immediately built back to 200psi. SIDP = 0 psi. Pumped 3 bbls down string - drill pipe pressure increasing but SICP remained at 200 psi - no circulation. Pumped 10 bbls total. Worked string up and down over 2m interval - pressures fluctuating.
P22	TP (DH)	P3	0400	0600	2.00	4648.0m	Stopped working string and observed pressures: SICP and SIDP both stabalized at 300 psi after 30 minutes. Bled of 4.50 bbls from string (SSSV flapper closed) and observed drill string - no flow on drill pipe for 1 hour - SICP remaining steady at 300 psi.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 04 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	288	24 Aug 2008	04 Sep 2008	840.00	35.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 04 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads.

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General Comments

	3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Removed Electrical Penetrator from SST.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282574mg/l	Solids(%vol):	
Sample-From:	Pit #5	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	23:59	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.00sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Transfer inhibited brine from pit #5 to cement unit for pressure testing as required. Circulated well with 11.0ppg brine to kill well. 333bbl brine dumped.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	9	0	262.0
Rig Fuel	m3	0	10	0	281.0
POTABLE WATER	MT	12	27	0	176.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HTB" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HTB" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

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Personnel On Board

Company	Pax
ADA	7
Seadrill	11
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Expro Group	12
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Schlumberger (Wireline)	5
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2798.2bbl**	**Losses**	**333.0bbl**
Active	111.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1042.2bbl	Dumped	333.0bbl
Slug		De-Gasser	
Reserve	1645.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 04 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	70.0deg	1033.0mbar	13C°	1.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2452.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		00.00	Onroute to Geelong.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		338.921
Potable Water	Mt		335
Drill Water	Mt		190
CEMENT G	Mt		0
Barite	Mt		42
Bentonite	Mt		0
SOBM	m3		110
Brine	m3		0

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie	20.00		

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		577.445
Potable Water	Mt		438
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

On location.

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Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BJW	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1008 / 1022	10 / 13	Crew Change
BJW	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1443 / 1450	1 / 1	Nexus

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 36

05 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	76.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$24,422,100
Wtr Dpth (MSL)	55.968m	Days on well	36.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	POOH and laying out 7in tubing. Depth at 06.00hrs = 1740m. Average looses since POOH 4 bbls/hr.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	POOH and laying out completion string.		

Summary of Period 0000 to 2400 Hrs

Made up THRET into tubing hanger, sheared out Pump open sub with 1,400psi. Closed annular and attempted to circulate well via choke, observed pressure increasing to SIDP 300psi, SICP 300psi. bled of pressure in drill pipe to 0 psi, observed for 1 hour no flow static. POOH 1 stand. Established circulation around packers. Flow checked - losses at 9 bbls/hr. Pumped 120bbls Hec pill and displaced with 230 bbls brine. Flow checked - losses decreased to 6bbls/hr. POOH with completion string to tubing hanger. Observed flow in tubing in rotary table, pumped 30 bbls 11,00 ppg brine down string, flow checked static. Continued POOH with completion string.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		6 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		22 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		13 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		9 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	19	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	34	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	1 Day	Safety Meeting.	Held Pretour and pre job safety meetings with crews.
Trip / Kick Drill	1	0 Days	Trip Drill	Held trip drill with crew while POOH with completion string. Good safe and fast reaction time by crew.

Operations For Period 0000 Hrs to 2400 Hrs on 05 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C13	0000	0100	1.00	4648.0m	Made up THRET into tubing hanger, unlocked tubing hanger with 4 LH turns and observed increase in torque confirming that the tubing hanger unlocked. Closed annular. Pumped down completion string with 5 bbls brine to 1400psi and observed Pump Open Plug sheared open at 1400 psi. Opened ICV and confirmed with Cameron that TRSSSV closed, CSM, PMV, XOV, AMV and AAV opened. Picked up 2m, intial pickup weight 220 klbs, after 1m pick up, weight dropped down to 208 klbs. Obseved no pressure increase on annulus or tubing.
P22	TP (DH)	C13	0100	0130	0.50	4648.0m	Cameron closed AMV, AAV, PMV and XOV with HPU. Lined up to circulate down string with returns back via choke manifold. Pumped at 2.5 bbls/min. String took 8 bbls to fill. Pressure increasing to 1800psi after pumping 51 bbls - got partial returns. Stopped pumps and observed drill pipe pressure fall to 0 psi. Annulus pressure = 0 psi. Recommenced pumping down string at 1.2 bbls/min, pressure increased to 1500 psi - getting partial returns. Estimated loss = 20 bbls. Stopped pumps and closed choke.
P22	TP (DH)	P3	0130	0230	1.00	4648.0m	Observed pressure increase on choke manifold to 200psi, drill pipe pressure 0 psi. Worked string up and down over 4m interval 4 times with 240klbs pickup, 178klbs down weight. Attempted to circulate string while working string up and down. Pressure fluctuated in drill pipe and annulus. Stop pumps - SICP = 200 psi SIDP = 100 psi.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	P3	0230	0400	1.50	4648.0m	Attempted to bleed of casing pressure, bled off 6 bbls to trip tank, closed in choke and observed SICP immediately build back up to 200psi. SIDP = 0 psi. Pumped 3 bbls down string - drill pipe pressure increased but SICP remained at 200 psi - no circulation. Pumped 10 bbls total. Worked string up and down over a 2m interval - pressures fluctuated.
P22	TP (DH)	P3	0400	0600	2.00	4648.0m	Stopped working string and observed pressures: SICP and SIDP both stabalized at 300 psi after 30 minutes. Bled of 4.5 bbls from string (SSSV flapper closed) and observed drill string - no flow on drill pipe for 1 hour - SICP remained steady at 300 psi.
P22	TP (DH)	P3	0600	0900	3.00	4648.0m	Held PJSM. Broke off one stand of drill pipe and installed TIW. Racked back stand. Removed TIW and made up TDS (gas evident in string). Continued to pick up string 23 m total stripping through annular - while pumping at 1.3 BPM and 300 psi. Casing pressure remained constant at 300 psi.
P22	TP (DH)	P3	0900	1030	1.50	4648.0m	Opened choke and took sample of returns from annulus - 10.4 ppg with slight diesel contamination. Worked string in an attempt to establish circulation path and pulled back 42 m to place bottom packer at 2487 m - above top 400 Sand perforations at 2494 m. Observed pressure drop on annulus to 150 psi. Opened choke and pressure bled down to zero with no further flow. Attempted to circulate but not getting any returns. Opened annular and checked fluid level in annulus -took 22 bbls to fill hole. Commenced pumping and working string with annular open and established returns.
P22	TP (DH)	F4	1030	1130	1.00	4648.0m	Continued circulating at 5.5 BPM and 300 psi. Diesel contamination in brine and weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Circulated 100 bbls and observed rapid pressure increase.
P22	TP (DH)	F4	1130	1230	1.00	4648.0m	Work string up and down and cleared circulation route around packers.
P22	TP (DH)	F4	1230	1530	3.00	4648.0m	Continued circulating at 3.5 BPM & 300 psi. Slight diesel contamination in returns and brine weight 10.2 - 10.6 ppg. Diverted returns to separate pit. Pit volumes holding steady for first 710 bbls then observed losses while pumping last 60 bbls of circulation.
P22	TP (DH)	G14	1530	1630	1.00	4648.0m	Flow checked well: down-hole losses 9 bbls / hour. (Pulled and racked back one stand drill pipe)
P22	TP (DH)	F3	1630	1800	1.50	4648.0m	Pumped 120 bbls HEC pill and displaced with 230 bbls brine. (Lost 80 bbls)
P22	TP (DH)	G14	1800	1830	0.50	4648.0m	Flow checked well. Losses at 6 bbls / hour.
P22	TP (DH)	G8	1830	2000	1.50	4648.0m	POOH with tubing hanger to surface. Serviced THRET, cut control lines and laid out THRET and tubing hanger.
P22	TP (DH)	G8	2000	2030	0.50	4648.0m	POOH with completion string from 2478m - 2466m. Observed backflow from string increasing, installed TIW valve and closed same.
P22	TP (DH)	G8	2030	2130	1.00	4648.0m	Lined and pumped 30 bbls 11.00ppg brine down string and chased with 10 bbls 10.8 ppg brine. Flow checked. No backflow observed from string.
P22	TP (DH)	G8	2130	2400	2.50	4648.0m	POOH with completion string to 2378m. Laid out TRSSV at 2428m.

Operations For Period 0000 Hrs to 0600 Hrs on 06 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	G8	0000	0600	6.00	4648.0m	POOH with completion string and laid out same. Depth at 06.00 hrs = 1740m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 05 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	312	24 Aug 2008	05 Sep 2008	864.00	36.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 05 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns

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General Comments

	1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operated the following SST valves: S1V1, S1V2, SSDC, SSD1, CSM, VXT and TCT to closed positon. Completed Sea bed cuttings survey 100%.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282365mg/l	Solids(%vol):	
Sample-From:	Pit #6	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:27	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	11.00sg	HTHP-cake:		MBT:		Sand:	
Temp:	31C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Lost 280 bbls down hole and are continuing to loose and a approx 6 blls per hour. Mixed 35 Sx of Cacl into pit #2 for extra volume, 54 bbls approx. Pupmed HEC pill.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	8	0	254.0
Rig Fuel	m3	0	7	0	274.0
POTABLE WATER	MT	12	32	0	156.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	7
Seadrill	11
Seadrill Services.	35
Catering	9

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Personnel On Board

Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Expro Group	12
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Schlumberger (Wireline)	5
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

Available	**2939.0bbl**	**Losses**	**280.0bbl**
Active	332.0bbl	Downhole	280.0bbl
Mixing		Surf+ Equip	0.0bbl
Hole	1296.0bbl	Dumped	
Slug	50.0bbl	De-Gasser	
Reserve	1261.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 05 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	5kn	70.0deg	1015.0mbar	12C°	1.0m	165.0deg	1s
Rig Dir.	**Ris. Tension**	**VDL**	**Swell Height**	**Swell Dir.**	**Swell Period**	**Weather Comments**	
24.1deg	440.00klb	2452.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.	
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Geelong.

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		627.375
Potable Water	Mt		331
Drill Water	Mt		190
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		575.513
Potable Water	Mt		433
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

On location.

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DRILLING MORNING REPORT # 37

06 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	77.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$25,072,100
Wtr Dpth (MSL)	55.968m	Days on well	37.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with 9.50in gauge ring/junk basket.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Test Bop's 300/4000 psi 5/5 mins, POOH with test assembly and layout heavy weight drill pipe. Run 9.50in gauge ring and junk basket on Schlumberger wireline. Retreive Bore protector. Run completion string.		

Summary of Period 0000 to 2400 Hrs

POOH and laid out completion string. RIH and set Bore protecter in SST. RIH picking up 12 joints heavy weight drill pipe- made up Bop test plug and continued RIH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		7 Days	Held at10.30 hours.	Rig alarms activated. gas leak at well test area, all crews mustered at alternative muster stations.
BOP Test		23 Days	Pressure tested Bop's.	14 Days - 28 Aug 21 days 4 Sept
Environmental Incident		14 Days	SBM spill to ocean when back-loading to Supply Boat.	Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, spill was 21bbls.
First Aid Case		10 Days	Third Party received small laceration to top of right thumb.	The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.
PTW issued	11	0 Days		Permit to work issued for the day.
Safety Meeting	2	0 Days	Weekly Safety Meetings.	Weekly safety meeting held on Sundays .
STOP Card	39	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 06 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	G8	0000	2000	20.00	4648.0m	POOH with completion string and laid out same. Average joints laid out per hour was 10 joints.
P22	TP (DH)	G13	2000	2200	2.00	4648.0m	Made up Bore protector running tool and bore protector, RIH and set same in SST. POOH and racked back running tool in derrick.
P22	TP (DH)	G13	2200	2400	2.00	4648.0m	RIH picking up 12 joints heavy weight drill pipe - picked up and made up Bop test tool to heavy weight drill pipe and continue RIH.

Operations For Period 0000 Hrs to 0600 Hrs on 07 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	G13	0000	0130	1.50	4648.0m	RIH with Bop test plug set same in SST at 92.72m with 25k down. Flushed lines with Halliburton with 11.00 ppg brine and tested lines to 4000psi. Attempted to test Bops, fluid observed coming out of drill pipe. Picked up and set 25k down on test plug. Attempted to test Bops, fluid observed coming out of drill pipe. Picked up, made up Top drive to test string and set 35k down on test plug - observed test assembly traveled down 6 inches from previous mark.
P22	TP (DH)	G13	0130	0300	1.50	4648.0m	Tested Bop's- Annular, Upper pipe rams, Lower pipe rams and HCR's to 300psi/4000psi 5/5 mins. All good tests.
P22	TP (DH)	G13	0300	0430	1.50	4648.0m	POOH with test assembly, laid out heavy weight drill pipe.
P22	TP (DH)	G13	0430	0600	1.50	4648.0m	Rigged up Schlumberger wire line and RIH with 9.50in gauge ring/junk basket.

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Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 06 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	336	24 Aug 2008	06 Sep 2008	888.00	37.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 06 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Closed SSV control valves on SST. Opened Bore Protector cavity seal monitor. Maintenance of equipment and unit.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.
Operational Comments	Pressure tested Kill and Choke manifold valves to 300/5000 psi.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282574mg/l	Solids(%vol):	
Sample-From:	Pit #6	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:00	HTHP-FL:		Hard/Ca:		Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity		Fann 003	
PV		Fann 006	
YP		Fann 100	
Gels 10s		Fann 200	
Gels 10m		Fann 300	
		Fann 600	

Comment: No treatments today. Transfered brine from pit 7 to pits 1, 2, 5.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	14	0	240.0
Rig Fuel	m3	0	11	0	263.0

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Printed on 06 Sep 2008

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
POTABLE WATER	MT	12	31	0	137.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Expro Group	12
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Schlumberger (Wireline)	3
Scottech	2
Baker Completions	2
Haliburton Completion Tools - Australasia	1
Total	105

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Georgiou

Available	**2798.2bbl**	**Losses**	**333.0bbl**	Equipment	Description	Mesh Size	Comments
Active	111.0bbl	Downhole		Shaker 1	VSM-300	280	
Mixing		Surf+ Equip	0.0bbl	Shaker 2	VSM-300	280	
Hole	1042.2bbl	Dumped	333.0bbl	Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	1645.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine

Weather on 06 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	12kn	24.0deg	1015.0mbar	12C°	1.0m	165.0deg	1s
Rig Dir.	**Ris. Tension**	**VDL**	**Swell Height**	**Swell Dir.**	**Swell Period**	**Weather Comments**	
24.1deg	440.00klb	2486.00klb	1.5m	165.0deg	6s	Wave and swell heights are estimates.	
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler		10.40	On route to location. ETA location 06.00 7-09-08

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		613.312
Potable Water	Mt		328
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42

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				Item	Unit	Used	Quantity
				Bentonite	Mt		42
				SOBM	m3		110
				Brine	m3		95

				Item	Unit	Used	Quantity
Pacific Valkyrie				Rig Fuel	m3		573.553
				Potable Water	Mt		428
				Drill Water	m3		487
				CEMENT G	Mt		0
				Barite	Mt		70
				Bentonite	Mt		34.8
				SOBM	m3		0
				Base Oil	m3		0
				Brine	m3		0

On location.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
bwj	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1134 / 1145	9 / 5	Well Test Crew

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DRILLING MORNING REPORT # 38

07 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	78.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$25,722,100
Wtr Dpth (MSL)	55.968m	Days on well	38.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Running 5.50/7.00in completion string. Depth at 06.00hrs = 1690m.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Run 5.50/7.00in completion string. Land out in PBR, space out completion string.		

Summary of Period 0000 to 2400 Hrs

Tested Bop's 300/4000psi. Rigged up Schlumberger and RIH with 9.50 inch gauge ring and junk basket to 2482m POOH and rigged down Schlumbeger. Retreived Bore Protector. Rigged up and run completion string.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held at10.30 hours.	Rig alarms activated. Fire in Galley, all crews mustered at startions, abondon rig was sounded. All crews proceded to life boats. Good response by all crews.
BOP Test	1	0 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		15 Days	SBM spill	When back-loading Supply Boat.
First Aid Case		11 Days	Small laceration	Third Party - top of right thumb.
PTW issued	12	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly Safety Meetings.	Weekly safety meeting held on Saturdays .
STOP Card	37	0 Days		Stop cards submitted for the day.
ToolBox Talk	9	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	G13	0000	0130	1.50	4648.0m	RIH with BOP test plug set same in SST at 92.72m with 25k down. Flushed lines with Halliburton with 11.00 ppg brine and tested lines to 4000psi. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up and set 25k down on test plug. Attempted to test BOP, fluid observed coming out of drill pipe. Picked up, made up Top Drive to test string and set 35k down on test plug - observed test assembly traveled down 6 inches from previous mark.
P22	TP (DH)	G13	0130	0300	1.50	4648.0m	Pressure tested BOP Annular Rams and HCR's to 300psi/4000psi 5/5 mins. All good tests.
P22	TP (DH)	G13	0300	0500	2.00	4648.0m	POOH with test assembly, laid out heavy weight drill pipe.
P22	TP (DH)	E4	0500	1030	5.50	4648.0m	Rigged up Schlumberger wire line and RIH with 9.50in gauge ring/junk basket to 2482m. POOH - laid out tools and rigged down Schlumberger wireline.
P22	TP (DH)	G13	1030	1130	1.00	4648.0m	RIH with Bore Protector pulling tool and engaged same on Bore Protector with 9k down. Pulled Bore Protector with 11k overpull. POOH - laid out Bore Protector and running tool.
P22	TP (DH)	F7	1130	1200	0.50	4648.0m	Cleared rig floor of equipment.
P22	TP (DH)	G11	1200	1230	0.50	4648.0m	Serviced Top Drive.
P22	TP (DH)	C4	1230	1330	1.00	4648.0m	Rigged up to run completion. Made up well contol assemblies with water bushings for 5.50 in and 7.00in tubing.
P22	TP (DH)	C4	1330	1830	5.00	4648.0m	Held JSA. Run 5.50in completion string and assemblies as per tally to 359m. Checked AHC packer assembly and installed 7 shear pins.
P22	TP (DH)	C4	1830	1930	1.00	4648.0m	Changed out elevators. Picked up and made up assembly LT4-8B and LT3-9B and installed control lines and tested Gauge to Gauge mandrel to 5,500 psi.
P22	TP	C4	1930	2400	4.50	4648.0m	Continued RIH with 7.00in completion string to 965m.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(DH)						

Operations For Period 0000 Hrs to 0600 Hrs on 08 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C4	0000	0600	6.00	4648.0m	Continue RIH with 5.50/7.00in completion string from 965m to 1690m

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 07 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	360	24 Aug 2008	07 Sep 2008	912.00	38.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 07 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Closed Bore Protector cavity seal monitor. Maintenance of equipment and unit.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.
Operational Comments	Pressure tested stand pipe manifold valves and TIW valess to 300/5000 psi.

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WBM Data

Cost Today AUD$ 2500

Mud Type:	Chloride Brine	API FL:		Cl:	282100mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:00	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	27sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Recieved 660 bbls of CaCl2 completion Brine@ 10.9 ppg from the Pacific Battler. Filtered 660 bbls of 10.9 completion brine to 16 NTU average. 387 bbls of completion brine in pit # 7 and 249 bbls in pit #8. 24 bbls of completion brine used to prime lines.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	0	0	240.0
Rig Fuel	m3	0	10	0	253.0
POTABLE WATER	MT	112	23	0	226.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
SOBM	m3	0	0	0	2.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	35
Catering	9
Halliburton	2
Baker Hughes Inteq	2
Halliburton	2
Tamboritha	3
Expro Group	12
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Schlumberger (Wireline)	3
Scottech	2
Baker Completions	2
Haliburton Completion Tools - Australasia	1
Total	105

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Georgiou

Available	**2522.2bbl**	**Losses**	**199.8bbl**
Active Mixing		Downhole Surf+ Equip	0.0bbl
Hole	1024.2bbl	Dumped	
Slug		De-Gasser	
Reserve	1498.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Losses down hole	199.8bbl

Equipment	Description	Mesh Size	Comments
Shaker 1	VSM-300	280	
Shaker 2	VSM-300	280	
Shaker 3	VSM-300	280	
Shaker 4	VSM-300	280	

Marine

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Weather on 07 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	220.0deg	1020.0mbar	9C°	2.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2507.00klb	2.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler	08.30 07-09-08			

Item	Unit	Used	Quantity
Rig Fuel	m3		593.997
Potable Water	Mt		225
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Pacific Valkyrie

Item	Unit	Used	Quantity
Rig Fuel	m3		570.653
Potable Water	Mt		423
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

On location.

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Printed on 07 Sep 2008

Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 39

08 Sep 2008 **From:** S De Frietas/S Schmidt.
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	79.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$26,372,100
Wtr Dpth (MSL)	55.968m	Days on well	39.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	RIH with 5.50/7.00in completion string on landing string.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Land out tubing hanger in SST and lock tubing hanger into SST. Perform tubing hanger tests. Rig up flow head and lines and test same. Perform slick line work as required. Displace well to filtered brine and string to deisel. Set packer. Prepare to flow well.		

Summary of Period 0000 to 2400 Hrs

Run 5.50/7.00in completion string. Tag PBR and confirmed sting in with 180 psi. POOH and space out completion string and installed TRSSSV, picked up and made up tubing hanger.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill		1 Day	Held at10.30 hours.	Rig alarms activated. Fire in Galley, all crews mustered at startions, abondon rig was sounded. All crews proceded to life boats. Good responce by all crews.
BOP Test	1	1 Day	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		16 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		12 Days	Third Party received small laceration to top of right thumb.	
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly Safety Meetings.	Weekly safety meeting held on Saturdays .
STOP Card	39	0 Days		Stop cards submitted for the day.
ToolBox Talk	10	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 08 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C4	0000	1500	15.00	4648.0m	Continue RIH with 5.50/7.00in completion string from 965m to 2570 m
P22	TP (DH)	C4	1500	1600	1.00	4648.0m	Broke circulation and circulated at 1.4 bbls/min at 25psi - observed returns in trip tank - shut down pumps Sting into PBR at 2574.76m with 10k down - confirmed seals holding with 180 psi on tubing string - no returns to trip tank - shut down pumps.
P22	TP (DH)	C4	1600	1800	2.00	4648.0m	POOH to installed TRSSSV at 242.5m MDRT.
P22	TP (DH)	C4	1800	2130	3.50	4648.0m	Picked up and install TRSSV at 242.5 MDRT - installled control line and tested same to 4,000psi. Observed leaks in test system while testing TRSSSV - changed out 2 needle valves.
P22	TP (DH)	C4	2130	2400	2.50	4648.0m	Continued RIH with 7.00in tubing to 2475m.

Operations For Period 0000 Hrs to 0600 Hrs on 09 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C4	0000	0500	5.00	4648.0m	Picked up and made up tubing hanger. Terminated TRSSSV control lines through tubing hanger and pressure tested control lines to 4,000psi. Baker Hughes installed and tested Production Quest electricial line connection through

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							tubing hanger to 7,500psi. Performed pre submergence checks.
P22	TP (DH)	C4	0500	0530	0.50	4648.0m	Installed split bushing into rotary table and landed out tubing hanger at rotary table.
P22	TP (DH)	C4	0530	0600	0.50	4648.0m	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger. Performed pre submergence checks.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 08 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	384	24 Aug 2008	08 Sep 2008	936.00	39.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 08 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Closed Bore Protector cavity seal monitor. Maintenance of equipment and unit.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

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WBM Data

Cost Today

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #8	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	2240	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	22C°			PM:		pH:	9.5
				PF:		PHPA:	
Comment		No treatments today.					

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	3	0	237.0
Rig Fuel	m3	0	4	0	249.0
POTABLE WATER	MT	12	30	0	208.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	11
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	14
Well Dynamics	2
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Scottech	2
Baker Completions	2
Haliburton Completion Tools - Australasia	1
Total	106

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

				Equipment	Description	Mesh Size	Comments
Available	**2522.2bbl**	**Losses**	**26.0bbl**				
Active Mixing		Downhole		Shaker 1	VSM-300	280	
		Surf+ Equip	0.0bbl	Shaker 2	VSM-300	280	
Hole	1024.2bbl	Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve	1498.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge for Halliburton Cementer	26.0bbl				

Marine

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Weather on 08 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	30kn	220.0deg	1020.0mbar	9C°	2.0m	165.0deg	1s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2386.00klb	2.5m	165.0deg	6s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler		07.30 on 08-09-08	On route to Geelong.	

Item	Unit	Used	Quantity
Rig Fuel	m3		575.876
Potable Water	Mt		222
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Pacific Valkyrie

Item	Unit	Used	Quantity
Rig Fuel	m3		564.958
Potable Water	Mt		418
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

On location.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BYV	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1051 / 1107	9 / 8	Crew Change Well Test Crew

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DRILLING MORNING REPORT # 40

09 Sep 2008 **From:** S De Frietas/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	80.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$27,022,100
Wtr Dpth (MSL)	55.968m	Days on well	40.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Lubricating 10.9 ppg brine into tubing.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Pull RQ lock from SSSV. Open Sliding Sleeve. Displace annulus to inhibited filtered brine. Pressure test tubing. Displace tubing to diesel. Close sliding sleeve. Set production packer.		

Summary of Period 0000 to 2400 Hrs

Made up and ran tubing hanger and landing string. Landed and locked tubing hanger and pressure tested SST valves. Made up surface lines to flowhead and pressure tested surafce equipment and tieback seal. Observed pressure build-up on tubing. Rigged up slickline equipment and lubricator and retrieved isolation.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
BOP Test	1	2 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		17 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		13 Days	Third Party received small laceration to top of right thumb.	
PTW issued	14	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly Safety Meetings.	Weekly safety meeting held on Saturdays .
STOP Card	46	0 Days		Stop cards submitted for the day.
ToolBox Talk	12	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 09 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C4	0000	0430	4.50	4648.0m	Picked up and made up tubing hanger. Terminated TRSSSV control lines through tubing hanger and pressure tested control lines to 4,000psi. Baker Hughes installed and tested Production Quest electricial line connection through tubing hanger to 7,500psi. Performed pre submergence checks.
P22	TP (DH)	C4	0430	0500	0.50	4648.0m	Installed split bushing into rotary table and landed out tubing hanger at rotary table.
P22	TP (DH)	C4	0500	0630	1.50	4648.0m	Laid out THHTT, picked up and made up mechanicial tubing hanger running tool to tubing hanger. Performed pre submergence checks.
P22	TP (DH)	C4	0630	0800	1.50	4648.0m	Ran landing string & completion from 2477m to 2570.8m. ROV opened CSM & TST rotary valves including PMV, XOV, AAV and AMV. Landed tubing hanger with 30k lbs down - landed off tubing string weight and held landing string weight. Closed off AAV and AMV.
P22	TP (DH)	C4	0800	1000	2.00	4648.0m	Locked and tested tubing hanger to 500psi/5min, 4000psi/10min. with landing string at neutral weight. Rotated tubing hanger 3.8 turns cw to lock hanger. Rotated 3.8 turns ccw and performed o/pull of 130klbs.
P22	TP (DH)	P2	1000	1400	4.00	4648.0m	Pressure tested SST valves. Rigged up 30ft Expro bales, held PJSM and made up flowhead.
P22	TP (DH)	G1	1400	1600	2.00	4648.0m	Made up co-flex hose and chicksan lines to flowhead, hooked up Schlumberger control hoses to flowhead.
P22	TP (DH)	P2	1600	1800	2.00	4648.0m	Held PJSM, flushed surface lines and tested flowhead master valve against Expro choke valve to 500/5500psi for 10min. Tested down annulus against annular/tie-back seal to 300psi.
P22	TP (DH)	P3	1800	1930	1.50	4648.0m	Pressure observed on tubing: 120psi and increasing by 1psi/min. Pressure caused by gas influx due to dropping brine level inside tubing. Rigging up slickline equipment.
P22	TP (DH)	G1	1930	2300	3.50	4648.0m	Held PJSM & rigged up slickline lubricator and BOP's. Made up tool string, installed lubricator and tested same to 4000psi.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	2300	2400	1.00	4648.0m	Equalised pressure between flowhead and tubing (334psi), RIH and retrieved isolation sleeve. Observed pressure drop on tubing from 334psi to 80psi when sleeve was pulled - pressure vented into annulus. Close annular and observed pressures: SITHP = 80 psi, SICP = 0 psi.

Operations For Period 0000 Hrs to 0600 Hrs on 10 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0130	1.50	4648.0m	POOH with hanger protection sleeve. Closed master valve on flowhead. Laid out protection sleeve. Made up short wireline protection sleeve.
P22	TP (DH)	C3	0100	0230	1.50	4648.0m	Pressure tested lubricator to 4000 psi / 5 mins. RIH and set short wireline protection sleeve. POOH with running tool. Closed master valve on flowhead. Laid out running tool. SITHP = 309 psi.
P22	TP (DH)	C3	0230	0400	1.50	4648.0m	Made up 4.5" GS pulling tool. Pressure tested lubricator to 4000 psi / 5 mins. RIH and pulled 4.562" RQ lock from SSSV and POOH. Closed master valve on flowhead. Did not recover RQ lock from SSSV.
P22	TP (DH)	C3	0400	0530	1.50	4648.0m	Made up lubricator and pressure tested to 4000 psi / 5 minutes. Opened master valve - SITHP = 630 psi. Bled back SITHP from 630 psi to 200 psi. Commenced RIH with GS pulling tool on slickline to top of SSSV.
P22	TP (DH)	C3	0530	0600	0.50	4648.0m	Stop running slickline. SITHP = 260 psi. Lined up to lubricate 10.9 ppg brine into tubing. Commenced pumping 10.9 ppg brine into tubing at 0.2 BPM with 350 psi THP.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 09 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	408	24 Aug 2008	09 Sep 2008	960.00	40.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 09 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working.

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General Comments

	11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	ROV operations: Closed Bore Protector cavity seal monitor. Maintenance of equipment and unit.
Operational Comments	Expro Well Testing: Rigging up equipment 100% of lines installed and equipment rigged up. Rig Cool: Rigging up equipment 100% of all equipment rigged up.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	21:45	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: No treatments today.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	7	0	230.0
Rig Fuel	m3	0	10	0	239.0
POTABLE WATER	MT	12	30	0	190.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	8
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	14
Schlumberger (Testing)	2
Rigcool	2
Weatherford	4
Cameron	3
Baker Completions	2
Haliburton Completion Tools - Australasia	1
Nopsa	2
Total	105

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Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	2822.2bbl
Active	333.0bbl
Mixing	
Hole	1024.2bbl
Slug	
Reserve	1465.0bbl
Kill	

Losses	7.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	
Halliburton Cementers	7.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 09 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	20kn	245.0deg	1016.0mbar	10C°	1.0m	160.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2349.00klb	2.3m	160.0deg	10s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			En route to rig

Item	Unit	Used	Quantity
Rig Fuel	m3		562.7
Potable Water	Mt		312
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			

Item	Unit	Used	Quantity
Rig Fuel	m3		556.7
Potable Water	Mt		413
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

At rig

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0955 / 1010	9 / 10	Crew Change NOPSA

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 41

10 Sep 2008 **From:** S De Frietas/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	81.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$27,672,100
Wtr Dpth (MSL)	55.968m	Days on well	41.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Pumping 205bbl diesel down tubing string.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Complete pumping of diesel, close sliding sleeve, run 4.313" plug and set packer. Retrieve 4.313" plug. Test packer and prepare for flowing well.		

Summary of Period 0000 to 2400 Hrs

Continued with slickline operations. Set wireline protection sleeve. Retrieved RQ lock from SSSV - mis-run. Lubricated 6bbl brine into tubing to counter increasing tubing pressure. Retrieved RQ lock from SSSV and lubricated another 6bbl brine into tubing, bleeding off gas after every lubrication process. Opened sliding sleeve with slickline shifting tool and bled off tubing pressure in stages while keeping annulus full. Circulated 300bbl inhibited brine into tubing. Set 4.562" XX plug at 2450m and pressure tested lubricator and tubing string to 5500psi and performed inflow test on SSSV. RIH to retrieve 4.562" XX plug.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		1 Day	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good response by all crews.
BOP Test	1	3 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		18 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		14 Days	Third Party received small laceration to top of right thumb.	
PTW issued	24	0 Days		Permit to work issued for the day.
Safety Meeting		4 Days	Weekly Safety Meetings.	Weekly safety meeting held on Saturdays .
STOP Card	37	0 Days		Stop cards submitted for the day.
ToolBox Talk	22	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 10 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0130	1.50	4648.0m	POOH with hanger protection sleeve. Closed master valve on flowhead. Laid out protection sleeve. Made up short wireline protection sleeve.
P22	TP (DH)	C3	0130	0230	1.00	4648.0m	Pressure tested lubricator to 4000 psi / 5 mins. RIH and set short wireline protection sleeve. POOH with running tool. Closed master valve on flowhead. Laid out running tool. SITHP = 309 psi.
P22	TP (DH)	C3	0230	0400	1.50	4648.0m	Made up 4.5" GS pulling tool. Pressure tested lubricator to 4000 psi / 5 mins. RIH and pulled 4.562" RQ lock from SSSV and POOH. Closed master valve on flowhead. Did not recover RQ lock from SSSV. SITHP = 407psi
P22	TP (DH)	C3	0400	0600	2.00	4648.0m	Made up lubricator and pressure tested to 4000 psi / 5 minutes. Opened master valve - SITHP = 630 psi. Bled back SITHP from 630 psi to 200 psi. Commenced RIH with GS pulling tool on slickline to top of SSSV. Stop running slickline. SITHP = 260 psi.
P22	TP	F3	0600	0630	0.50	4648.0m	Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2 BPM.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(DH)						THP increased from 350 psi to 407 psi.
P22	TP (DH)	C3	0630	0700	0.50	4648.0m	Latched and recovered RQ Lock from SSSV & POOH to surface.
P22	TP (DH)	F3	0700	0730	0.50	4648.0m	THP = 416 psi. Bled off at Expro choke to 350 psi. Dry gas returns. Lubricated 6 bbls 10.9 ppg brine into tubing with cement unit at 0.2BPM. THP increased from 390 psi to 440 psi.
P22	TP (DH)	C3	0730	0830	1.00	4648.0m	Closed master valve on flow-head and SSSV. Bled off lubricator and removed tool string with RQ Lock. Made up sliding sleeve shifting tool string. Pressure tested lubricator. Opened master valve and SSSV. SITHP = 440 psi.
P22	TP (DH)	C3	0830	0900	0.50	4648.0m	Commenced RIH with sliding sleeve shifting tool to sliding sleeve at 2475 m. (While RIH with slick line bled off THP via Expro choke to 350 psi - 80% gas returns).
P22	TP (DH)	C3	0900	0930	0.50	4648.0m	THP = 376 psi. SICP = 0 psi. Opened sliding sleeve with slick line. Observed gradual rise in THP from 376 psi to 397 psi, then leveled off at 394 psi. Confirmed sliding sleeve opened with 6 passes through sleeve with tool.
P22	TP (DH)	C3	0930	1030	1.00	4648.0m	POOH with shifting tool on slick line. Pulled tool string into lubricator and closed flow head swab valve.
P22	TP (DH)	F3	1030	1200	1.50	4648.0m	Attempted to reverse circulate pumping 10.9 ppg brine down annulus and hold 450 psi back pressure with Expro choke on tubing. Pumped 26 bbls at 2 BPM - THP increased from 397 psi to 403 psi. Suspected losses down-hole. Opened drilling choke and confirmed no flow on annulus. Opened Annular - took 43 bbls to fill riser. Observed TT circulating across top of well - down-hole losses 2.5 bbls / hour.
P22	TP (DH)	P3	1200	1330	1.50	4648.0m	Commenced bleeding off THP at Expro Choke in stages and monitored tubing filling from annulus via sliding sleeve. THP fell in stages after each bleed off. Reduced THP from 425 psi to 0 psi and filled tubing string with 31 bbls brine via sliding sleeve from annulus. Dry gas returns to Expro Choke throughout bleed off. Flow checked: no flow on tubing at open Expro choke (no brine either), annulus holding steady.
P22	TP (DH)	F3	1330	1400	0.50	4648.0m	Closed annular. Lined up and reverse circulated brine down annulus and up tubing via the sliding sleeve. Pumped 5 bbls and got brine returns back to Expro choke. Shut down. Opened annular. Flow checked well - ok.
P22	TP (DH)	F3	1400	1630	2.50	4648.0m	Lined up and circulated 300 bbls 10.9 ppg filtered inhibited brine (with 1% by volume RCW 24/100 Corrosion Inhibitor - double concentration) down tubing string with cement unit at 3 BPM and 75 psi and taking returns back to mud pits.
P22	TP (DH)	C3	1630	2130	5.00	4648.0m	Removed lubricator and laid out sliding sleeve tool. Made up 4.562" XX plug and tool string. Installed lubricator and pressure tested to 4000 psi. RIH and set plug at 2450m, POOH. Closed FMV & FSV, broke off lubricator & changed out toolstring to 4.562" retrieval tool. Installed lubricator & pressure tested same to 5500psi.
P22	TP (DH)	P1	2130	2300	1.50	4648.0m	Lined up tubing string and tested same against XX plug @ 2450m to 500psi/5min and 5500psi/10min OK. Closed SSSV & bled of pressure above SSSV to 1000psi to perform inflow test for 15min OK. Equalised pressure and opened SSSV.
P22	TP (DH)	C3	2300	2400	1.00	4648.0m	Opened FSV. RIH with 4.562" plug retrieval tool to latch on to XX plug @ 2450m.

Operations For Period 0000 Hrs to 0600 Hrs on 11 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0100	1.00	4648.0m	Continued RIH with 4.562" plug retrieval tool, attempted to latch onto plug and POOH to surface - no success.
P22	TP (DH)	C3	0100	0230	1.50	4648.0m	Broke off lubricator and laid down 4.562" GR tool. Made up GS tool, installed lubricator and pressure tested same to 4000psi OK.
P22	TP (DH)	C3	0230	0400	1.50	4648.0m	RIH with GS toolstring, latch on to plug at 2450m and POOH to surface.
P22	TP (DH)	C3	0400	0530	1.50	4648.0m	Broke off lubricator, laid down 4.562" XX plug and changed out to shifting tool string. Installed lubricator & pressure tested same to 4000psi.
P22	TP (DH)	F3	0530	0600	0.50	4648.0m	Held PJSM and commenced pumping 205bbl diesel down tubing string.

Operations For Period Hrs to Hrs on

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Phase Data to 2400hrs, 10 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	432	24 Aug 2008	10 Sep 2008	984.00	41.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 10 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	19:30	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Inhibited Filtered brine with CRW24100 (double concentration).

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	14	0	216.0
Rig Fuel	m3	0	15	0	224.0
POTABLE WATER	MT	12	39	0	163.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

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Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	36
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	16
Schlumberger (Testing)	2
Rigcool	2
Weatherford	2
Cameron	3
Total	103

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**2734.2bbl**	**Losses**	**365.7bbl**
Active	345.0bbl	Downhole	319.0bbl
Mixing		Surf+ Equip	3.0bbl
Hole	1024.2bbl	Dumped	
Slug	66.0bbl	De-Gasser	
Reserve	1299.0bbl	De-Sander	
Kill		De-Silter	
		Centrifuge	
		Halliburton Cementers	43.7bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 10 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	10kn	45.0deg	1019.0mbar	9C°	0.3m	140.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2296.00klb	2.5m	140.0deg	10s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		542
Potable Water	Mt		309
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			En route to Geelong

Item	Unit	Used	Quantity
Rig Fuel	m3		547.8
Potable Water	Mt		408
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment

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Printed on 10 Sep 2008

Helicopter Movement				
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	0955 / 1010	9 / 10	Crew Change NOPSA

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 42

11 Sep 2008 **From:** B. Openshaw/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	82.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$28,322,100
Wtr Dpth (MSL)	55.968m	Days on well	42.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Recovered 4.313" RX plug.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Continue with preparations to flow well.		

Summary of Period 0000 to 2400 Hrs

One misrun to retrieve 4.562" plug - ran GS tool and recovered plug. Pumped 205bbl diesel into tubing string, ran shifting tool and closed sliding sleeve. RIH with 4.313" plug and set same at 2457m. Presured up tubing to 5500psi to set packer. Tested annulus side of packer to 3800psi. Made 2 unsuccessful attempts at recovering 4.313" plug - found plug at 2473m. Slipped and cut slick line, redressed GS tool, made up GS tool without prong to verify depth of plug.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		2 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	4 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		19 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		15 Days	Third Party received small laceration to top of right thumb.	
PTW issued	17	0 Days		Permit to work issued for the day.
Safety Meeting		5 Days	Weekly Safety Meetings.	Weekly safety meeting held on Saturdays .
STOP Card	44	0 Days		Stop cards submitted for the day.
ToolBox Talk	14	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 11 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0100	1.00	4648.0m	Continued RIH with 4.562" plug retrieval tool, attempted to latch onto plug and POOH to surface - no success.
P22	TP (DH)	C3	0100	0230	1.50	4648.0m	Broke off lubricator and laid down 4.562" GR tool. Made up GS tool, installed lubricator and pressure tested same to 4000psi OK.
P22	TP (DH)	C3	0230	0400	1.50	4648.0m	RIH with GS toolstring, latch on to plug at 2450m and POOH to surface.
P22	TP (DH)	C3	0400	0530	1.50	4648.0m	Broke off lubricator, laid down 4.562" XX plug and changed out to shifting tool string. Installed lubricator & pressure tested same to 4000psi.
P22	TP (DH)	F3	0530	0800	2.50	4648.0m	Held PJSM and pumped 205bbl diesel down tubing string followed by 3bbl water to flush surface lines. Final SITHP = 1040psi.
P22	TP (DH)	C3	0800	1000	2.00	4648.0m	RIH with shifting tool on slickline to 2476m and shift sliding sleeve into closed position. Observed 30psi jump on SITHP to 1070psi. POOH with shifting tool.
P22	TP (DH)	C3	1000	1300	3.00	4648.0m	Prepared 4.313" RX plug, loaded same into lubricator and tested lubricator to 3000psi OK. RIH RX plug to R Nipple at 2457m, latched plug and released R/tool. POOH, broke lubricator, made up GS pulling tool, re-installed lubricator and tested same to 300psi OK.
P22	TP (DH)	C3	1300	1430	1.50	4648.0m	Pressured up tubing from cement unit in stages up to 5500psi to set packer. Held 5500psi for 30min OK and then bled off pressure to 850psi (last stabilised SITHP before pressuring up tubing to set packer).
P22	P	C3	1430	1530	1.00	4648.0m	Closed annular, rigged up with cement unit and pumped down kill line in stages to 3800psi and held pressure for 30min OK. Bled off annular pressure to 0psi.
P22	P	C3	1530	1700	1.50	4648.0m	RIH to 4.313" RX plug. Found plug to be at 2473m instead of 2457m. Latched onto plug, equalised pressure and attempted to retrieve same - unsuccessful. POOH same. Rigged down lubricator and recovered pulling tool.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	1700	2030	3.50	4648.0m	Made up GS pulling tool, tested lubricator to 4000psi, RIH and latched on to plug. Jarred on plug and sheared off pins on tool. POOH GS tool.
P22	TP (DH)	G11	2030	2300	2.50	4648.0m	Cut off 20m of slick line, serviced and re-dressed GS tool, set jarring capacity to 800lbs
P22	TP (DH)	C3	2300	2400	1.00	4648.0m	Made up GS tool with prong removed, loaded in lubricator, tested lubricator to 4000psi.

Operations For Period 0000 Hrs to 0600 Hrs on 12 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0230	2.50	4648.0m	Completed pressure test on lubricator to 4000psi, RIH with GS tool with inner prong removed and tag top of 4.313" plug at 2473m. Observed tool passing through 4.313" nipple at 2457m. POOH tool and removed same from lubricator.
P22	TP (DH)	C3	0230	0600	3.50	4648.0m	Loaded GS tool and jar, with upgraded capacity of 800lbs, into lubricator, tested lubricator to 4000psi and RIH tool on slick line. Latched on to plug and jar on same. Plug appeared to come free and good indication of additional weight on slick line. Worked plug and tool through 4.313" nipple at 2457m. POOH to surface - 4.313" RX plug recovered.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 11 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	456	24 Aug 2008	11 Sep 2008	1,008.00	42.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 11 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.

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Australian Drilling Associates Pty Ltd ADA

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	19:30	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: No treatments today. Retort results for pits 1,2 and 5 were less than 1% Diesel.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	12	0	204.0
Rig Fuel	m3	0	42	0	182.0
POTABLE WATER	MT	12	31	0	144.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	16
Schlumberger (Testing)	2
Rigcool	2
Weatherford	2
Cameron	3
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**13938.2bbl**	**Losses**	**0.0bbl**
Active	357.0bbl	Downhole	
Mixing		Surf+ Equip	0.0bbl
Hole	1024.2bbl	Dumped	
Slug	66.0bbl	De-Gasser	
Reserve	12491.0bbl	De-Sander	
Kill		De-Silter Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 11 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	16kn	350.0deg	1003.3mbar	14C°	0.3m	140.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2250.00klb	1.5m	140.0deg	10s	Wave and swell heights are estimates.

Comments

'Copyright IDS 2007', 20071227, ADA_AU_drllg

Printed on 11 Sep 2008

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

Pacific Battler — At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		531.9
Potable Water	Mt		305
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Pacific Valkyrie — En route to rig

Item	Unit	Used	Quantity
Rig Fuel	m3		521.7
Potable Water	Mt		403
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1411 / 1425	1 / 3	NOPSA
BWJ	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1000 / 1018	10 / 10	Crew Change

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Australian Drilling Associates Pty Ltd ADA

12 Sep 2008

From: B. Openshaw/R. Rossouw
To: R Oliver

DRILLING MORNING REPORT # 43
Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	83.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$28,972,100
Wtr Dpth (MSL)	55.968m	Days on well	43.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Flowing/flaring well.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Continue flowing/flaring well.		

Summary of Period 0000 to 2400 Hrs

RIH GS tool with inner prong removed to check depth of RX plug. Tagged plug at 2473m (at x/over below 4.313" nipple), POOH. Loaded full GS tool and jar with upgraded capacity on jar, RIH, latched on to plug and jarred same free. POOH and recovered 4.313" RX plug. Retrieved protection sleeve with slick line. Installed Otis pressure test cap and tested same to 4000psi OK. Performed ESD test and opened well to flow.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		3 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	5 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		20 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		16 Days	Third Party received small laceration to top of right thumb.	
PTW issued	15	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Pre-flow Safety	Pre-flow safety meeting prior to flowing and flaring well.
STOP Card	45	0 Days		Stop cards submitted for the day.
ToolBox Talk	12	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	TP (DH)	C3	0000	0230	2.50	4648.0m	Completed pressure test on lubricator to 4000psi, RIH with GS tool with inner prong removed and tag top of 4.313" plug at 2473m. Observed tool passing through 4.313" nipple at 2457m. POOH tool and removed same from lubricator.
P22	TP (DH)	C3	0230	0600	3.50	4648.0m	Loaded GS tool and jar, with upgraded capacity of 800lbs, into lubricator, tested lubricator to 4000psi and RIH tool on slick line. Latched on to plug and jar on same. Plug appeared to come free and good indication of additional weight on slick line. Worked plug and tool through 4.313" nipple at 2457m. POOH to surface - 4.313" RX plug recovered.
P22	P	C3	0600	0730	1.50	4648.0m	Made up GS tool, tested lubricator to 4000psi, RIH and retrieved wireline protection sleeve. Retrived protection sleeve from lubricator, laid down tools and lubricator.
P22	P	G1	0730	0830	1.00	4648.0m	Installed Otis pressure test cap and pressure tested same to 4000psi/5min. Performed ESD function test OK. Confirmed all valves correctly lined up and completed pre-flow checklist. (Pre-flow meeting held on 11/09)
P22	P	C8	0830	2400	15.50	4648.0m	Commenced flowing/flaring well taking first of diesel cushion into surge tank. Continued flowing/flaring well. Maintained annulus pressure between 200 - 400psi.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C8	0000	0600	6.00	4648.0m	Continued to flow/flare well.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 12 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m

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Printed on 12 Sep 2008

Phase Data to 2400hrs, 12 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	480	24 Aug 2008	12 Sep 2008	1,032.00	43.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 12 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	100%
Time:	22:00	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: Charged for 2 x bulk containers of BARA KLEAN NL plus used for pit, tank and rig cleaning. Transfered brine from pits # 1, 2 and % into pit # 3 and contaminated brine into pit #1 for flaring.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	38	0	166.0
Rig Fuel	m3	0	22	0	160.0
POTABLE WATER	MT	14	27	0	131.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax

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Personnel On Board

ADA	9
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	16
Schlumberger (Testing)	2
Rigcool	2
Weatherford	2
Cameron	3
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**1918.0bbl**	**Losses**	**4.0bbl**
Active Mixing		Downhole	
Hole Slug	66.0bbl	Surf+ Equip	4.0bbl
Reserve	1852.0bbl	Dumped	
Kill		De-Gasser	
		De-Sander	
		De-Silter	
		Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 12 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	19kn	285.0deg	997.0mbar	20C°	0.2m	140.0deg	2s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2276.00klb	0.9m	140.0deg	10s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		527.3
Potable Water	Mt		301
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		502.7
Potable Water	Mt		399
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 44

13 Sep 2008 **From:** B. Openshaw/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	84.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$29,622,100
Wtr Dpth (MSL)	55.968m	Days on well	44.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Preparing to test the Tubing Hanger plug from below.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Complete testing of Tubing Hanger plug, rig down lubricator and flowhead and retrieve landing string. Install Tree cap & plug.		

Summary of Period 0000 to 2400 Hrs

Continued to flow/flare well to shut in at 19h50. Shut in well for 1 hr - final SITHP 3561psi. Closed SSSV, bled off tubing pressure to 200psi for 1hr inflow test - OK. Bled off last 200psi on tubing and pumped 20bbl glycol into tubing.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		4 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	6 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		21 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		17 Days	Third Party received small laceration to top of right thumb.	
PTW issued	10	0 Days		Permit to work issued for the day.
Safety Meeting		0 Days	Weekly safety meeting	Weekly safety meeting
STOP Card	35	0 Days		Stop cards submitted for the day.
ToolBox Talk	8	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 13 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P22	P	C8	0000	2000	20.00	4648.0m	Continued to flow/flare well. Bled off annular pressure and shut well in at 19.50hrs
P22	P	C13	2000	2100	1.00	4648.0m	Maintained well shut in for 1 hr. Final SITHP 3561psi.
P21	P	P1	2100	2230	1.50	4648.0m	Closed SSSV and bled off tubing pressure to 200psi for inflow test. Monitored pressure for 1 hr. Final SITHP 205psi.
P21	P	C8	2230	2330	1.00	4648.0m	Lined up stbd side flare boom and bled of last 200psi on tubing to flare boom.
P21	P	F3	2330	2400	0.50	4648.0m	Lined up and pumped 20bbl glycol down tubing string to fill "void" between SSSV and SST.

Operations For Period 0000 Hrs to 0600 Hrs on 14 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	F3	0000	0030	0.50	4648.0m	Rigged up and pumped approx 87bbl diesel contaminated brine to separator for flaring.
P21	P	G1	0030	0130	1.00	4648.0m	Held PJSM and rigged up to run slickline operations and loaded 5.25" Tubing Hanger plug and r/tool into lubricator.
P21	P	F3	0130	0200	0.50	4648.0m	Flushed surface testing lines with drill water via flare boom.
P21	P	P1	0200	0300	1.00	4648.0m	Tested lubricator to 4000psi OK.
P21	P	C3	0300	0530	2.50	4648.0m	RIH with 5.25" Tubing Hanger plug to 93.3m. Filled landing string and slowly pressured up on plug to 3000psi to set plug. Pressure tested plug to 4000psi OK (2 attempts).
P21	P	C3	0530	0600	0.50	4648.0m	POOH R/tool and prepare to remove same from lubricator.

Operations For Period Hrs to Hrs on

'Copyright IDS 2007', 20071227, ADA_AU_drllg

Phase Data to 2400hrs, 13 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	501	24 Aug 2008	13 Sep 2008	1,053.00	43.875	4648.0m
Suspend and Abandon(P21)	3	13 Sep 2008	13 Sep 2008	1,056.00	44.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 13 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.
Operational Comments	Total of 450bbl brine diluted with sea water and dumped.

WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	86%
Time:	19:30	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: No treatments. Cont to fill Pit# 1 with 150 bbls of brine and topping up with 270 bbls of sea water and dumping. Cont to do this until all brine is disposed of. Dumped at controlled rates and Pause between dumping. Total 450bbl brine diluted and dumped.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	6	0	160.0
Rig Fuel	m3	0	30	0	130.0
POTABLE WATER	MT	14	33	0	112.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	16
Schlumberger (Testing)	2
Rigcool	2
Weatherford	2
Cameron	3
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**13978.8bbl**
Active Mixing	
Hole	1124.8bbl
Slug	2.0bbl
Reserve	12852.0bbl
Kill	

Losses	**1200.0bbl**
Downhole Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter Centrifuge	
Dumping of Diluted brine	1200.0bbl

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments

Marine

Weather on 13 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	35kn	353.0deg	995.9mbar	17C°	1.1m	80.0deg	4s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2220.00klb	1.3m	80.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		526.1
Potable Water	Mt		297
Drill Water	Mt		267
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Bulks

Item	Unit	Used	Quantity
Rig Fuel	m3		501.7
Potable Water	Mt		393
Drill Water	m3		487
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0

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				Item	Unit	Used	Quantity
				Brine	m3		0

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 45

14 Sep 2008 **From:** B. Openshaw/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	85.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$30,272,100
Wtr Dpth (MSL)	55.968m	Days on well	45.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Resetting MTHRT for Internal Tree Cap.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Run Internal Tree Cap on 7" tubing and test same. POOH landing string and lay down same. Lay down DP in derrick. Recover umbilical deployment frame. Nipple down BOP.		

Summary of Period 0000 to 2400 Hrs

Pumped 87bbl diesel contaminated brine to separator. Ran 5.25" Tubing Hanger plug and pressured up to 3000psi to set same. Pressure tested top of plug to 4000psi OK and had to make 3 attempts at infloiw test of plug before being successful. Rigged down slickline, surface lines, and laid out flowhead & extended bails. Made up 2x TIW valves with side entry sub and LT valve to top of landing string and unlatched MTHRT with 6 turns to right.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		5 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	7 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		22 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		18 Days	Third Party received small laceration to top of right thumb.	
PTW issued	16	0 Days		Permit to work issued for the day.
Safety Meeting		1 Day	Weekly safety meeting	Weekly safety meeting
STOP Card	54	0 Days		Stop cards submitted for the day.
ToolBox Talk	14	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	F3	0000	0030	0.50	4648.0m	Rigged up and pumped approx 87bbl diesel contaminated brine to separator for flaring.
P21	P	G1	0030	0130	1.00	4648.0m	Held PJSM and rigged up to run slickline operations and loaded 5.25" Tubing Hanger plug and r/tool into lubricator.
P21	P	F3	0130	0200	0.50	4648.0m	Flushed surface testing lines with drill water via flare boom.
P21	P	P1	0200	0300	1.00	4648.0m	Tested lubricator to 4000psi OK.
P21	P	C3	0300	0530	2.50	4648.0m	RIH with 5.25" Tubing Hanger plug to 93.3m. Filled landing string and slowly pressured up on plug to 3000psi to set plug. Pressure tested plug to 4000psi OK (2 attempts).
P21	P	C3	0530	0600	0.50	4648.0m	POOH R/tool and remove same from lubricator.
P21	TP (DH)	P1	0600	1500	9.00	4648.0m	Tested Tubing Hanger plug from below using 1500psi between plug and SSSV - pressure increased to 3400psi where pressure stabilised. Suspected SSSV leaking. Assess the situation & discuss with shore support. Opened annulus valve, pressured up above SSSV to 3400psi and then bleed off. Operated SSSV and attempted to repeat inflow test on SSSV without success (2 attempts).
P21	TP (DH)	P1	1500	1630	1.50	4648.0m	Pressured above SSSV to 3400ps via the annulus. Bullheaded 2bbls fluid through the SSSV flapper into the well. Bled off pressure pressure using the rig choke to 370psi (Xtree) and obtained successful inflow test on SSSV - pressure increased by 70psi over a 62minute period.
P21	P	G1	1630	1830	2.00	4648.0m	Held JSA and rigged down slickline equipment, flushed manifold and rigged down surface lines.
P21	P	G1	1830	2230	4.00	4648.0m	Held JSA, rigged down flowhead and laid out same. Laid out extended bails and rigged up 350ton bails. Made up 2x TIW valves with side entry sub and LT valve and made up

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							same to landing string.
P21	P	C3	2230	2400	1.50	4648.0m	Held landing string weight and with annluar in low pressure closed position, rotated string with 6 1/4 turns (13kft-lb torque) and unlatched MTHRT. Lifted string 300mm and allowed u-tube pressures to equalise.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	F3	0000	0100	1.00	4648.0m	Lined up and pumped 150bbl drill water through landing string.
P21	P	G2	0100	0300	2.00	4648.0m	Laid out TIW valves and side entry sub, POOH and laid out 7" landing joints and MTHRT.
P21	P	G8	0300	0400	1.00	4648.0m	Changed out elevators, made up 10" soft bullnose and RIH on 5.5" DP to 92m.
P21	P	F3	0400	0430	0.50	4648.0m	Closed annular and reverse circulated 50bbl drill water using cement unit pumping at 5bbl/min.
P21	P	G8	0430	0500	0.50	4648.0m	POOH and laid out jetting bullnose.
P21	P	G1	0500	0600	1.00	4648.0m	Picked up MTHRT and reset tool for Internal Tree Cap.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 14 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	501	24 Aug 2008	13 Sep 2008	1,053.00	43.875	4648.0m
Suspend and Abandon(P21)	27	13 Sep 2008	14 Sep 2008	1,080.00	45.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 14 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System. 14) Choke manifold pressure gauges require callibrating. 15) Large pressure discrepancy on operating pressure for annular between rig floor and unit.

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WBM Data

Cost Today AUD$ 2500

Mud Type:	Calcium Chloride Brine	API FL:		Cl:	282200mg/l	Solids(%vol):	
Sample-From:	Pit #7	Filter-Cake:		K+C*1000:		H2O:	86%
Time:	02:20	HTHP-FL:		Hard/Ca:	130000mg/l	Oil(%):	
Weight:	10.90sg	HTHP-cake:		MBT:		Sand:	
Temp:	20C°			PM:		pH:	9.5
				PF:		PHPA:	

Viscosity	26sec/qt
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment: No treatments. Continued to dilute 1/3 brine to 2/3 Sea Water and dumped Whilst dumping Continued to add Sea Water to further dilute. Also used the same process to dump the Sand and trip tanks. No testing from here pits are empty.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	100	3	0	257.0
Rig Fuel	m3	75	3	0	202.0
POTABLE WATER	MT	114	24	0	202.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Personnel On Board

Company	Pax
ADA	9
Seadrill	12
Seadrill Services.	34
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	16
Schlumberger (Testing)	2
Rigcool	2
Weatherford	2
Cameron	3
Total	101

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**0.0bbl**	**Losses**	**0.0bbl**	Equipment	Description	Mesh Size	Comments
Active		Downhole		Shaker 1	VSM-300	280	Well Complete.
Mixing		Surf+ Equip	0.0bbl	Shaker 2	VSM-300	280	
Hole		Dumped		Shaker 3	VSM-300	280	
Slug		De-Gasser		Shaker 4	VSM-300	280	
Reserve		De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine

Weather on 14 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	23kn	27.0deg	1000.7mbar	12C°	0.6m	70.0deg	3s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2469.00klb	1.4m	70.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks

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Pacific Battler			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		440.8
				Potable Water	Mt		193
				Drill Water	Mt		167
				CEMENT G	Mt		42
				Barite	Mt		42
				Bentonite	Mt		42
				SOBM	m3		110
				Brine	m3		0
Pacific Valkyrie			At rig	**Item**	**Unit**	**Used**	**Quantity**
				Rig Fuel	m3		489.1
				Potable Water	Mt		388
				Drill Water	m3		487
				CEMENT G	Mt		0
				Barite	Mt		70
				Bentonite	Mt		34.8
				SOBM	m3		0
				Base Oil	m3		0
				Brine	m3		0

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 46

15 Sep 2008 **From:** B. Openshaw/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	86.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$30,891,700
Wtr Dpth (MSL)	55.968m	Days on well	46.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	WOW to lay down overshot and nipple down BOP.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Nipple down BOP, perform ROV work and prepare rig for move.		

Summary of Period 0000 to 2400 Hrs

Pumped 150bbl drill water through landing string, POOH and laid out landing string. RIH with 10" soft bullnose on 5.5" DP and reverse circulated drill water at 92m, POOH. Ran ITC on MTHRT, pressured to 3000psi to assist setting of ITC but could not rotate pipe. POOH MTHRT and inspected tool and ITC. Ran 10" soft bullnose and jetted 600bbl DW at 92m, POOH. Ran MTHRT/ITC, pressured to 2000psi to assist setting, locked ITC in place. Pressure tested cavity below ITC, unlatched MTHRT and POOH laying down landing string jnts. Laid out 5.5" and 3.5" DP.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		6 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	8 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		23 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		19 Days	Third Party received small laceration to top of right thumb.	
PTW issued	16	0 Days		Permit to work issued for the day.
Safety Meeting		2 Days	Weekly safety meeting	Weekly safety meeting
STOP Card	26	0 Days		Stop cards submitted for the day.
ToolBox Talk	15	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	F3	0000	0100	1.00	4648.0m	Lined up and pumped 150bbl drill water through landing string.
P21	P	G2	0100	0300	2.00	4648.0m	Laid out TIW valves and side entry sub, POOH and laid out 7" landing joints and MTHRT.
P21	P	G8	0300	0400	1.00	4648.0m	Changed out elevators, made up 10" soft bullnose and RIH on 5.5" DP to 92m.
P21	P	F3	0400	0430	0.50	4648.0m	Closed annular and reverse circulated 50bbl drill water using cement unit pumping at 5bbl/min.
P21	P	G8	0430	0500	0.50	4648.0m	POOH and laid out jetting bullnose.
P21	P	G1	0500	0630	1.50	4648.0m	Picked up MTHRT and reset tool for Internal Tree Cap.
P21	TP (DH)	C3	0630	0930	3.00	4648.0m	M/U ITC onto MTHRT. RIH on 7" tubing to 1m above tubing hanger. Spotted 30 litres of Transaqua HT2 into top cavity of SST. Land ITC in tubing hanger. Closed annular preventer and pressured up to 3000psi to assist landing of ITC. Attempted to lock ITC in place, however only able to achieve 1 turn of running string (3.5 to 4.5 turns required).
P21	TP (DH)	C3	0930	1300	3.50	4648.0m	Picked up ITC 1m above tubing hanger and then repeated attempt to land & latch ITC without succes. POOH and inspect ITC / running tool. ITC appeared to have been in fully landed position, however junk seal was missing from the running tool and there was (mud?) solids type debris on ITC & running tool. Removed wireline guide from bottom of ITC. Prepared ITC & redressed MTHRT for re-running.
P21	TP (DH)	F3	1300	1400	1.00	4648.0m	RIH with 10" soft bullnose on 5.5" drill pipe to 92m. Jetted tubing hanger with seawater. Pumped total of 600bbls at 1500gpm. POOH and laid out jetting bullnose.

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Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	C3	1400	1900	5.00	4648.0m	M/U ITC onto MTHRT. RIH on 7" tubing to 1m above tubing hanger. Spotted 30 litres of Transaqua HT2 into top cavity of SST. Land ITC in tubing hanger. Closed annular preventer and pressured up to 2000psi to assist landing of ITC. Locked ITC in place with 4-12 turns of running string. Backed out 3-1/2 turns & confirmed ITC locked in place with 60klbs overpull. Pressure test cavity between ITC & TH plug to 500 / 4000psi (5 mins each test) via TCT line.
P21	P	G1	1900	2030	1.50	4648.0m	Rotated landing string with 6 turns to unlatch MTHRT - shearing torque 13kft-lbs. POOH landing string and laid down same including MTHRT. Offline: Re-tested cavity between ITC and TH plug via TCT line to 4000psi/5min OK.
P21	P	G1	2030	2100	0.50	4648.0m	Cleared rig floor and laid down tools including Weatherford.
P21	P	G1	2100	2400	3.00	4648.0m	Cleared catwalk of 7" landing string jnts. Broke out and laid out 2 x TIW valves and side entry sub used for circulating 7" landing string. Laid out 6 stnds 5.5" DP from derrick and 1 stnd 3.5"DP.

Operations For Period 0000 Hrs to 0600 Hrs on 16 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G13	0000	0230	2.50	4648.0m	Rigged up 20T slings and pulled diverter. Difficulty pulling diverter required removal of slings and use of bails to unlodge diverter from housing.
P21	TP (WOW)	G13	0230	0600	3.50	4648.0m	WOW. Wind 50knts gusting to 60knts. Unable to continue working on BOP, standby boat unable to provide Fast Rescue Craft cover. Rigged down drill floor hoses and flowline.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 15 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	501	24 Aug 2008	13 Sep 2008	1,053.00	43.875	4648.0m
Suspend and Abandon(P21)	51	13 Sep 2008	15 Sep 2008	1,104.00	46.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 15 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.

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General Comments

12) Auto slips not being used as profile of slips not compatible with master bushing.

13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System.

14) Choke manifold pressure gauges require callibrating.

15) Large pressure discrepancy on operating pressure for annular between rig floor and unit.

WBM Data

Cost Today AUD$ 2500

Mud Type:	API FL:	Cl:	Solids(%vol):	
Sample-From:	Filter-Cake:	K+C*1000:	H2O:	86%
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	
Weight:	HTHP-cake:	MBT:	Sand:	
Temp:		PM:	pH:	
		PF:	PHPA:	

Viscosity	
PV	
YP	
Gels 10s	
Gels 10m	
Fann 003	
Fann 006	
Fann 100	
Fann 200	
Fann 300	
Fann 600	

Comment

No treatments. Back Loaded 72 pails of LIQUI_VIS, and 48 Sx of N-VIS.

Received 26 SX of BARAZAN D PLU, 40 SX Guar Gum and 40 Sx of Soda Ash. I will charge these chemicals off when we reach Bazzard -1. Continued to clean Pits 1 through to 8 and both sand and slug pits.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	0	117	0	140.0
Rig Fuel	m3	0	5	0	197.0
POTABLE WATER	MT	14	28	0	188.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HTB" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HTB" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	5
Seadrill	12
Seadrill Services.	39
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	7
Schlumberger (Testing)	1
Weatherford	2
Cameron	3
National OilWell	2
Blohm and Voss	1

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Personnel On Board

Dril-Quip	1
Schlumberger (Wireline)	3
Total	97

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	0.0bbl
Active	
Mixing	
Hole	
Slug	
Reserve	
Kill	

Losses	0.0bbl
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Silter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments: Well Complete.

Marine

Weather on 15 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	50kn	250.0deg	997.1mbar	9C°	3.0m	240.0deg	7s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	1865.00klb	3.3m	240.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Battler			At Eden.

Item	Unit	Used	Quantity
Rig Fuel	m3		423.9
Potable Water	Mt		190
Drill Water	Mt		167
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status
Pacific Valkyrie			At rig

Item	Unit	Used	Quantity
Rig Fuel	m3		475.3
Potable Water	Mt		323
Drill Water	m3		277
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1245 / 1308	14 / 18	De-mob of Well Test Crew

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Australian Drilling Associates Pty Ltd ADA

DRILLING MORNING REPORT # 47

16 Sep 2008 **From:** B. Openshaw/R. Rossouw
To: R Oliver

Longtom-4 H

Well Data

Country	Australia	MDBRT	4648.0m	Cur. Hole Size	9.500in	AFE Cost	AUD$81,987,600
Field	Longtom	TVDBRT	2695.9m	Last Casing OD	7.000in	AFE No.	LSRDV01/6
Drill Co.	Seadrill	Progress	0.0m	Shoe TVDBRT	2590.8m	Daily Cost	AUD$650,000
Rig	West Triton	Days from spud	87.94	Shoe MDBRT	4647.0m	Cum Cost	AUD$31,541,700
Wtr Dpth (MSL)	55.968m	Days on well	47.00	FIT/LOT:	1.68sg /		
RT-MSL	41.100m	Planned TD MD	5822.000m	Current Op @ 0600	Retrieving and laying down 22" riser.		
RT-ML	97.068m	Planned TD TVDRT	2702.000m	Planned Op	Continue retrieving and laying out riser, prepare rig for rig move.		

Summary of Period 0000 to 2400 Hrs

Pulled diverter then WOW 11hrs. Laid out O/shot and mandril, nippled down BOP and racked back same on stump. Removed and set back BOP work platform. Made up DQ R/tool to top of tension jnt on riser, slacked off tension on CTU and removed Claxton clamp.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandonment		7 Days	Held at 11.00 hours.	Rig alarms activated. Smoke from compressor room, all crews mustered at life boat stations while source of smoke was investigated. Smoke generated from foam deluge pump. Good responce by all crews.
BOP Test	1	9 Days	Pressure tested Bop's.	14 Days - 21 Sept 08 21 Days - 28 Sept 08
Environmental Incident		24 Days	SBM spill to ocean when back-loading to Supply Boat.	
First Aid Case		20 Days	Third Party received small laceration to top of right thumb.	
PTW issued	16	0 Days		Permit to work issued for the day.
Safety Meeting		3 Days	Weekly safety meeting	Weekly safety meeting
STOP Card	15	0 Days		Stop cards submitted for the day.
ToolBox Talk	14	0 Days	Safety Meeting.	Held Pretour and pre job safety meetings with crews.

Operations For Period 0000 Hrs to 2400 Hrs on 16 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G13	0000	0230	2.50	4648.0m	Rigged up 20T slings and pulled diverter. Difficulty pulling diverter required removal of slings and use of bails to unlodge diverter from housing.
P21	TP (WOW)	G13	0230	1330	11.00	4648.0m	WOW. Wind 50knts gusting to 60knts. Unable to continue working on BOP, standby boat unable to provide Fast Rescue Craft cover. While WOW, rigged down drill floor hoses and flowline, worked on equipment in pit room & shakers, broke down saver sub and both I-BOP's.
P21	P	G13	1330	1630	3.00	4648.0m	Wind speed reduced to 35 - 42 iknts. Rigged up handling slings and laid out o/shot and mandril.
P21	P	G13	1630	1900	2.50	4648.0m	Nippled down BOP and choke line and racked back BOP on stump.
P21	P	G1	1900	2030	1.50	4648.0m	Held JSA, picked up BOP work platform and set back same on deck.
P21	P	G1	2030	2230	2.00	4648.0m	Picked up handling equipment, made up DQ R/tool on 1 stand of DP, screwed into top tension jnt of riser, picked up riser weight and released tension on CTU.
P21	P	G1	2230	2400	1.50	4648.0m	Held JSA and commenced removal of Claxton clamp. ROV work over last 24hrs: Tooled up FLOT and Class 4 Torque Tool and tested/calibrated same. Dived and removed IWOC plate and fitted same to running line. Removed electrical umbilical. Removed hydro connector and released running line.

Operations For Period 0000 Hrs to 0600 Hrs on 17 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G1	0000	0130	1.50	4648.0m	Continued to break out Claxton clamp, split clamp and lifted segments from Texas deck to main deck.

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Printed on 16 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G1	0130	0330	2.00	4648.0m	Split and removed CTU and placed same in parked position on port side of cantilever.
P21	P	G1	0330	0400	0.50	4648.0m	Jumped ROV, pressured up to 1500psi and observed indicator showing unlatched position of H4 connector. Pull H4 and riser free from SST.
P21	P	G9	0400	0500	1.00	4648.0m	Racked back stnd DP with DQ R/tool and commenced laying down 22" riser jnts.
P21	TP (RE)	G9	0500	0600	1.00	4648.0m	Unable to rotate elevators/bails during laying down operations. Troubleshoot problem.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 16 Sep 2008

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Production Hole (2)(P12)	260.5	01 Aug 2008	11 Aug 2008	260.50	10.854	4648.0m
Liner (1)(P19)	291.5	11 Aug 2008	23 Aug 2008	552.00	23.000	4648.0m
Completion/Recompletion(P22)	501	24 Aug 2008	13 Sep 2008	1,053.00	43.875	4648.0m
Suspend and Abandon(P21)	75	13 Sep 2008	16 Sep 2008	1,128.00	47.000	4648.0m

General Comments

00:00 TO 24:00 Hrs ON 16 Sep 2008

Operational Comments	Rotary table elevation based on Fugro calculations; RT above LAT = 41.062m. RT above MSL/AHD 40.362m.
Operational Comments	West Triton Rig Equipment Concerns 1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order? 2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads. 3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order. 4) Link tilt clamps slipping on bails - need to rectify this issue. 5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plate 6) Number 4 main generator down. Exciter and generator sent ashore. 7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line). 8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi. 9) Remote controller for Iron Roughneck not operational. 10) Automatic drill pipe elevators not working. 11) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open. 12) Auto slips not being used as profile of slips not compatible with master bushing. 13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System. 14) Choke manifold pressure gauges require callibrating. 15) Large pressure discrepancy on operating pressure for annular between rig floor and unit.

WBM Data — Cost Today AUD$ 2500

Mud Type:	API FL:	Cl:	Solids(%vol):	Viscosity	
Sample-From:	Filter-Cake:	K+C*1000:	H2O: 86%	PV	
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:		PM:	pH:	Gels 10m	
		PF:	PHPA:	Fann 003	
				Fann 006	
				Fann 100	
				Fann 200	
				Fann 300	
				Fann 600	
Comment	No treatments. 3 Sx of Salt used at end of testing the well. Started Bazzard-1, inventory and Planning.				

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Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
DRILL WATER	MT	200	0	0	340.0
Rig Fuel	m3	0	3	1	195.0
POTABLE WATER	MT	74	24	0	238.0
Cement Class G	MT	0	0	0	52.0
Bentonite	MT	0	0	0	45.0
Barite	MT	0	0	0	65.0
Brine	m3	0	0	0	10.0
BLENDED CEMENT	MT	0	0	0	43.0

Casing

OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	128.80m / 128.80m	168bbl class G at 15.9ppg, 200% excess.
16 "	/	750.03m / 750.03m	Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg
10 3/4"	/ 1.68sg	2590.78m / 2337.57m	200bbl class "G" at 15.8ppg, TOC at 1900m
7 "	/	4647.00m / 2699.37m	Mixed and pumped 138 bbls "HTB" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7in liner at 4520m Second cement job "HTB" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m Theoretical bottom of cement in 7in liner/9.5in hole at 2675m

Personnel On Board

Company	Pax
ADA	6
Seadrill	12
Seadrill Services.	44
Catering	9
Halliburton - Sperry	2
Baker Hughes Inteq	2
Halliburton - Sperry	2
Tamboritha	6
Expro Group	2
Weatherford	2
Cameron	2
National OilWell	2
Blohm and Voss	1
Dril-Quip	1
Schlumberger (Wireline)	3
Fugro Survey	2
OPC	2
Total	100

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Kostas Geogiou

Available	**0.0bbl**
Active	
Mixing	
Hole	
Slug	
Reserve	
Kill	

Losses	**0.0bbl**
Downhole	
Surf+ Equip	0.0bbl
Dumped	
De-Gasser	
De-Sander	
De-Slijter	
Centrifuge	

Equipment	Description	Mesh Size
Shaker 1	VSM-300	280
Shaker 2	VSM-300	280
Shaker 3	VSM-300	280
Shaker 4	VSM-300	280

Comments: Well Complete.

Marine

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Weather on 16 Sep 2008

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	18kn	240.0deg	1017.0mbar	8C°	1.3m	240.0deg	5s

Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments
24.1deg	440.00klb	2105.00klb	2.0m	240.0deg	7s	Wave and swell heights are estimates.

Comments

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Battler			At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		412.2
Potable Water	Mt		51
Drill Water	Mt		167
CEMENT G	Mt		42
Barite	Mt		42
Bentonite	Mt		42
SOBM	m3		110
Brine	m3		0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
Pacific Valkyrie			At rig	

Item	Unit	Used	Quantity
Rig Fuel	m3		463.9
Potable Water	Mt		318
Drill Water	m3		277
CEMENT G	Mt		0
Barite	Mt		70
Bentonite	Mt		34.8
SOBM	m3		0
Base Oil	m3		0
Brine	m3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	1245 / 1308	14 / 18	De-mob of Well Test Crew

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APPENDIX 3: WELL LOCATION SURVEY

REPORT FOR THE
LONGTOM-4 SITE SURVEY

FUGRO SURVEY JOB NO. P0635-6

Client : Australian Drilling Associates
Suite 2, Level 9
470 Collins Street
Melbourne, 3000
Victoria

Date of Survey : 12 April 2007

0	Final		MJW	28 May 2007
Rev	Description	Checked	Approved	Date

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APPENDIX B : SOIL SAMPLE LOGS

DRAWINGS

SCALE 1:5,000

FUGRO DRAWING NO.	DESCRIPTION
P0635-6_001	COMPOSITE DRAWING: BATHYMETRY, SHADED RELIEF BATHYMETRIC IMAGE, SEABED FEATURES, SIDE SCAN SONAR MOSAIC
P0635-6_002	COMPOSITE DRAWING: ISOPACH TO BASE OF UNIT A, ISOPACH TO BASE OF UNIT B, ISOPACH TO BASE OF UNIT C, GEOLOGICAL PROFILES

EXECUTIVE SUMMARY

Fugro was contracted by Australian Drilling Associates on behalf of Nexus Energy Ltd to provide geophysical survey and coring services for a site survey at the proposed Longtom-4 drilling location. The offshore work was carried out on 12 April 2007.

Scope of Work

The purpose of the survey was to acquire bathymetric and geophysical data as well as soil sampling within a 1km x 1km area to assess the seabed and sub-seabed conditions for the installation of a jack-up rig at the proposed drilling location (616860mE, 5781445mN).

The survey concluded efficiently and the project objectives were achieved. Weather conditions and sea state were good.

Bathymetry

Water depth within the site ranges from 55.7m to 56.5m below LAT. The site is essentially flat with little to no topographic variation across the site. The seafloor gradient is less than 1° throughout the site. A very low ridge runs through the SW of the site extending SW from the proposed location. The ridge is 400m long, 20m wide and only 0.1m high.

The water depth at the proposed drilling location is 55.9m below LAT.

Seabed Features

The seabed throughout the site comprises fine to coarse sand, with no seabed obstructions or debris mapped within the survey area. The gentle ridge extending SW of the proposed location represents an uncemented sediment accumulation rather than an outcrop of harder material.

Two anchor scars are mapped in the NW of the site. The scars are between 4m and 5m in width and range from 0.2m in depth in the east to less than 0.1m in the west. The scars continue west of the survey boundary.

Shallow Geology

The shallow stratigraphy is interpreted as well bedded sequences of unconsolidated sands, variably consolidated sands and variably cemented calcarenite. Four main units are delineated from the profiler records:

- *Unit A: Fine to coarse unconsolidated sand.*
- *Unit B: Fine to coarse unconsolidated sand overlying variably cemented calcarenite.*
- *Unit C: Variably cemented calcarenite.*
- *Unit D: Variably cemented to well cemented calcarenite.*

A palaeochannel that underlies Unit A and has eroded Unit B curves through the NW and NE quadrants of the site. The channel reaches 300m in width and extends to 10m below the seabed.

A high amplitude horizon is mapped within Unit B that is interpreted as a well cemented calcarenite horizon. The proposed drilling location intersects the western edge of this horizon 10m below the seabed.

If further information regarding the structural characteristics of the shallow geological sequence are required, a geotechnical drilling campaign is advised.

1.0 INTRODUCTION

1.1 Project Description

Fugro Survey Pty Ltd (Fugro) were contracted by Australian Drilling Associates (ADA) on behalf of Nexus Energy Ltd (Nexus) to provide geophysical survey services for the proposed Longtom-4 drilling location, within the Gippsland Basin, offshore Victoria.

A general location diagram of the area is shown as Figure 1-1.

The site survey was designed to gather seabed and sub-seabed information prior to the installation of a jack-up rig. The specified site survey area measures 1km x 1km with the proposed drilling location positioned in the southeast of the site (616860mE, 5781445mN).

Bathymetry was acquired with a multibeam echo sounder and single beam echo sounder. Seabed lithology and characteristics were determined from side scan sonar and shallow geological structure was investigated using a boomer sub-bottom profiler. Seabed samples were collected via grab sampling to correlate with the geophysical data. The survey was carried out on 12 April 2007.

Fugro chartered the survey vessel *MV Southern Supporter,* owned and operated by P&O Maritime Services Pty Ltd (P&O), as the platform for the operation.

The survey and report have been conducted in accordance with the Service Contract (Contract No. K-10-08-07) between Fugro and ADA and is covered by the Service Warranty as presented in Appendix A.

The Service Warranty outlines the limitations of this report, in terms of a range of considerations including, but not limited to, its purpose, scope, the data on which it is based, its use by third parties, possible future changes in design procedures and possible changes in site conditions with time. It should be noted that the Service Warranty does not in any way supersede the terms and condition of the contract between Fugro and ADA.

1.2 Scope of Work

The purposes of the data collection were:

- To accurately measure the water depth and to map the seabed topography.
- To determine the nature and composition of the seabed sediments.
- To identify any seabed obstructions or features within the survey area.
- To map the shallow geology and identify any potential hazards for jack-up rig installation.
- To obtain sediment samples for ground truthing of the geophysical data.

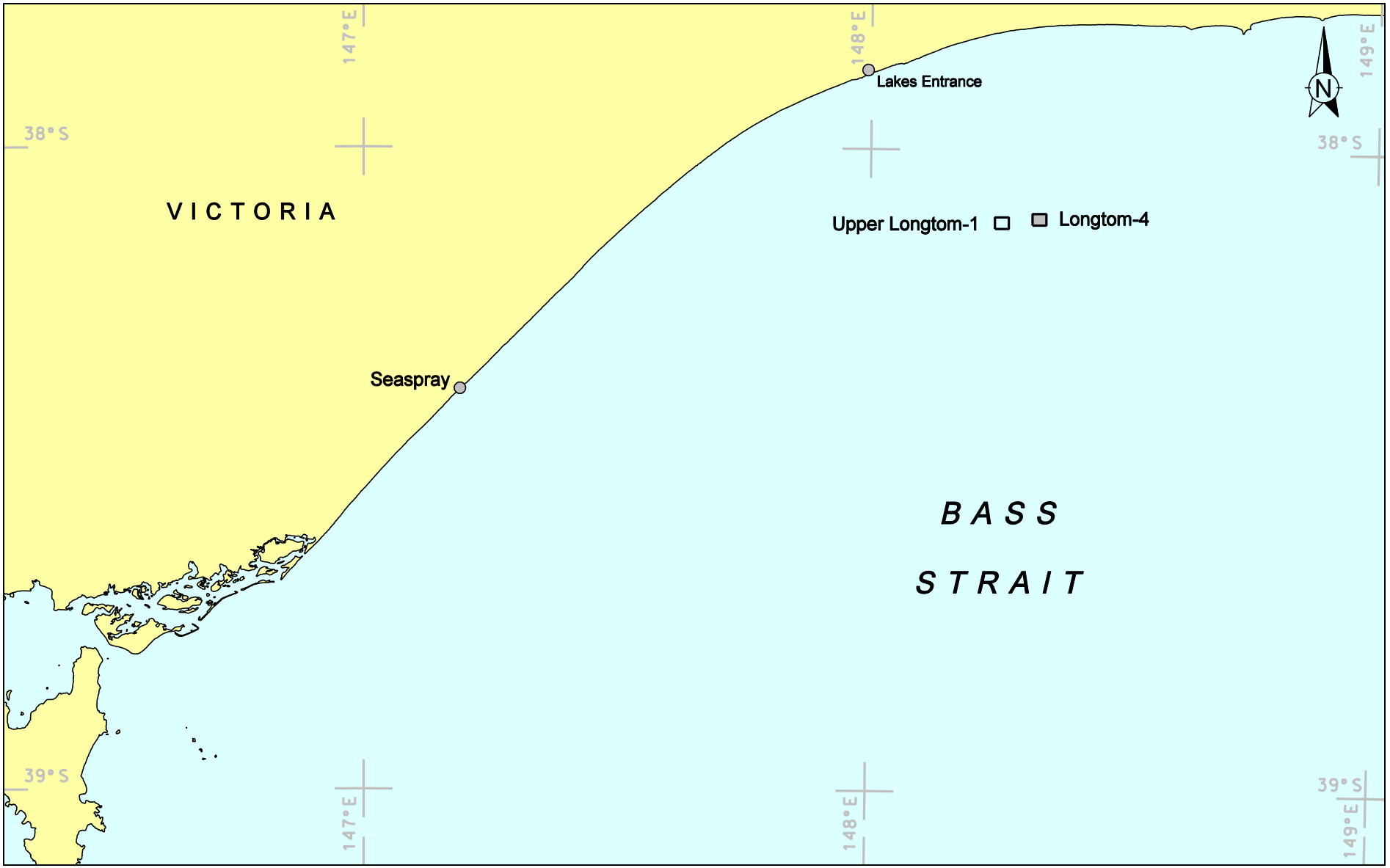


FIGURE 1-1 : GENERAL LOCATION DIAGRAM

The 1km x 1km survey area encompassing the proposed Longtom-4 drilling location was bounded by the coordinates in Table 1-1.

GDA94, MGA94, Zone 55, CM 147°E		
Point	**Easting (m)**	**Northing (m)**
Proposed Drilling Location	616860	5781445
NW	616000	5782173
NE	617000	5782173
SE	617000	5781173
SW	616000	5781173

TABLE 1-1 : COORDINATES – LONGTOM-4 SITE SURVEY LIMITS

Eleven primary survey lines were orientated east-west spaced at 100m intervals. Three cross lines were orientated perpendicular to the main lines. Line Longtom_08 was aligned to pass through the proposed drilling location. Figure 1-2 illustrates the survey line arrangement.

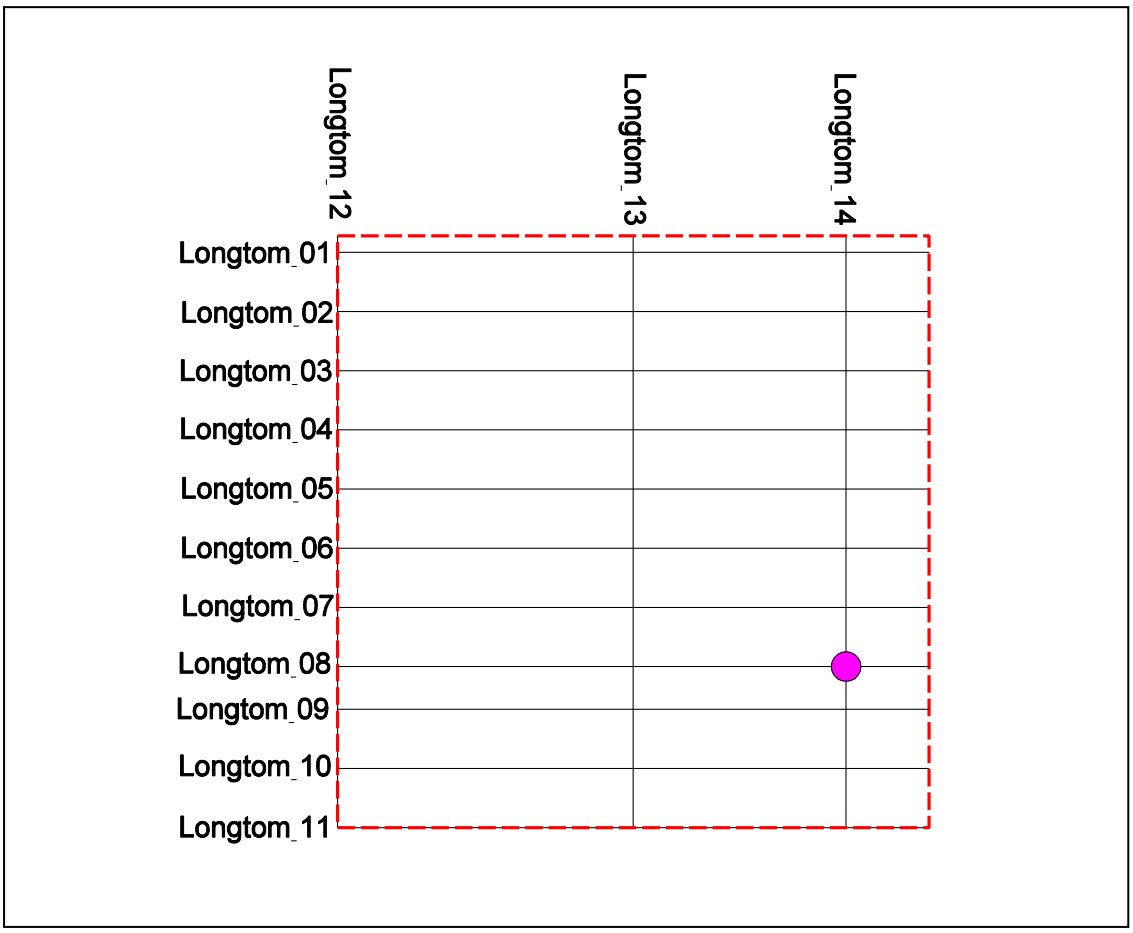


FIGURE 1-2 : SURVEY LINE LAYOUT

1.3 Reporting Structure

There are two site survey reports for ADA and Nexus as well as an Operations Report. This report deals with the Longtom-4 site survey. The additional reports are P0635-5 (Upper Longtom-1 Site Survey) and P0635-12 (Operations Report).

2.0 DATA REDUCTION

After completion of the offshore geophysical data acquisition, all electronic and hard copy records were returned to Fugro's Perth office for processing and final reporting.

The processing, interpretation and charting procedures used are briefly outlined in Section 2.1 to Section 2.5.

2.1 Navigation and Positioning

The MRDGPS systems provided reliable and accurate positioning throughout the project. The surface navigation data were of good quality and only minimal data editing was required. An automated trace routine was used to remove the few erroneous position spikes that were evident. No smoothing of position data was required.

2.2 Multibeam Echo Sounder

The multibeam echo sounder data were processed in Starfix.Proc using an automated trace routine and manual editing to remove erroneous spikes from the data. Processed pitch, roll and heave were also applied to the soundings in Starfix.Proc.

The processed depth data was reduced to LAT using predicted tides supplied by MetOcean Engineers.

The reduced depth soundings were colour coded at 1m intervals before being plotted on the bathymetry drawings. Shaded relief bathymetric images were also generated and are plotted on the drawings.

2.3 Side Scan Sonar Data

The side scan sonar data was used to check for the presence of debris and to map the seabed features within the survey area. The side scan sonar records show areas of seabed characterised by different sonar reflectivity, indicating variations in the composition and relief of sediments, outcrops or other features on the seabed. Typically, hard rocky seabed produces dark records (high reflectivity), soft fine grained sediments produce light, featureless records (low reflectivity) and a sandy seabed produces intermediate tones (low to moderate reflectivity). Objects such as outcrops, pipelines, etc. standing proud of the seabed typically show strong reflectivity with associated areas of acoustic 'shadow' behind the object, the shadow being indicative of the height of the object. Seabed with variable surface relief due to specific seabed features or variation in seabed geology (such as rock or reef outcrops, pitted seabed, coarse or gravelly sediments, etc.) will produce variably textured sonar records, ranging from mottled very dark and light printing, to lightly textured records.

The side scan data was recorded digitally as well as in paper hard copy. The electronic data had processed positions applied from UBSL tracking, or via a cable counter T-Count position. The data is interpreted and compiled into the seabed features panel of the composite drawing.

2.4 Sub-bottom Profiling Data

Sub-bottom profiler records represent time sections on which the vertical axis shows the two-way travel time (in milliseconds) from the source to the various reflecting surfaces and back to the receiving hydrophone. An assumed seismic velocity through the shallow sediments of 1,600ms was used. This converts 10ms of two-way travel time to 8m vertical metres.

A recording sweep of 100ms was used during the survey to assist in geological interpretation of deeper underlying units. The boomer system was set to run on 200J firing three times per second. This system was used throughout the survey. Starfix.Interp is Fugro's software that digitally reads SEG-Y format data (electronic boomer records) and allows the data to be viewed at various scales. This software also allows swell filters and frequency filters to be post applied to the recorded data. Prominent reflectors are digitally mapped and transferred to Microstation as XYZ points and converted into interpreted geological profiles on the composite drawing. The maps and profiles show the thickness of the upper units of unconsolidated sediments.

2.5 Drawing Presentation

The results for the site survey are presented in the form of two A0 composite drawings showing bathymetry, seabed features and sub-seabed profiles across the proposed drilling location at a horizontal scale of 1:5,000 and a vertical scale of 1:200.

In addition to the hard copies, the drawings are also provided in PDF and DGN formats.

3.0 SURVEY RESULTS

3.1 Introduction

The hydrographic and geophysical techniques used within the Longtom-4 site comprised single beam echo sounding, multibeam echo sounding, side scan sonar and boomer sub-bottom profiling. Fourteen survey lines were run. Seabed samples were recovered from two locations - the proposed drilling location and a second location within the site boundaries.

3.2 Bathymetry

Refer to Drawing No. P0635-6_001 Panel 1 and 2

The quality of the sounding data was very good – an effective swath width of up to 142m was obtained, giving sufficient overlap of data with the 100m line spacing. All bathymetry was reduced to LAT, using predicted tides supplied from MetOcean Engineers. A velocity profile was recorded at the beginning of the survey and applied during the processing.

The bathymetry is presented in two forms based on a 3m x 3m gridded data set: as sounding depths (Drawing No. P0635-6_001 Panel 1) and as a shaded relief bathymetric image (Drawing No. P0635-6_001 Panel 2).

The seabed within the site is flat and predominately featureless with water depths ranging from 55.7m to 56.5m below LAT.

In the SE of the site a ridge, 0.1m in height, 20m wide and 400m in length. This feature runs SW and continues south of the survey boundary. Figure 3-1 illustrates this feature and the surrounding topographic relief near the proposed drilling location.

The water depth at the proposed Longtom-4 drilling location is 55.9m below LAT.

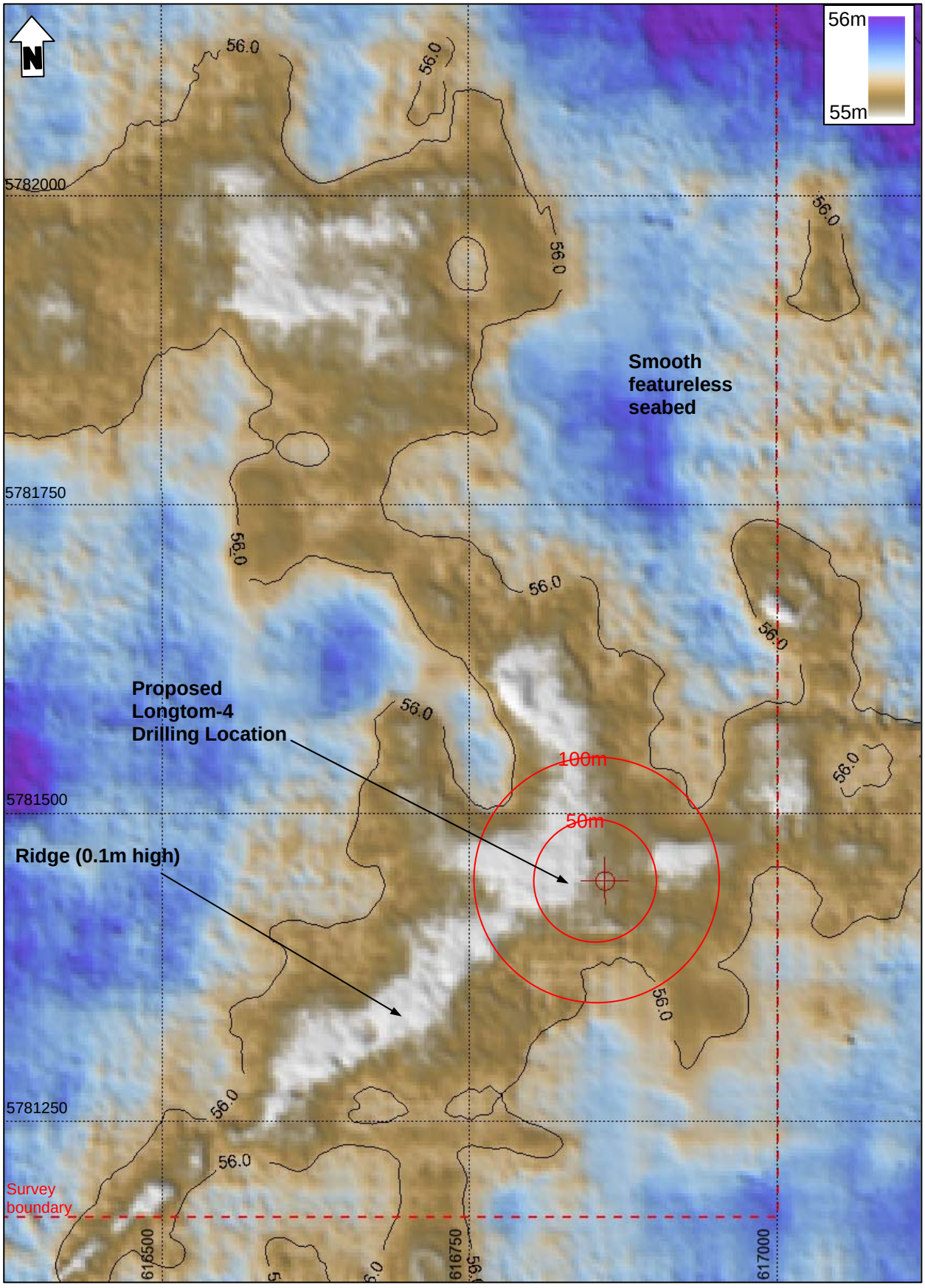


FIGURE 3-1 : SHADED BATHYMETRIC IMAGE CENTRED ON THE PROPOSED LONGTOM-4 DRILLING LOCATION

3.3 Seabed Features

Refer to Drawing No. P0635-6_001 Panel 3 and Panel 4

The side scan sonar was operated at 100kHz on a range of 125m per channel. The record quality is good.

The side scan records display low acoustic reflectivity across the entire site and together with soil sampling confirm the seabed consists of fine to coarse grained unconsolidated sand.

Based on the sonar reflectivity, the low ridge mapped SW of the proposed location consists of fine to coarse sand, consistent with the surrounding seabed.

Two anchor scars are mapped in the NW of the site. The eastern limits of these scars are 0.2m in depth. The scars continue west of past the survey boundary. These are likely to be related to previous drilling west of the Longtom-4 survey area.

No debris was identified within the surveyed area.

Figure 3-2 illustrates the featureless sandy seabed at the proposed drilling location.

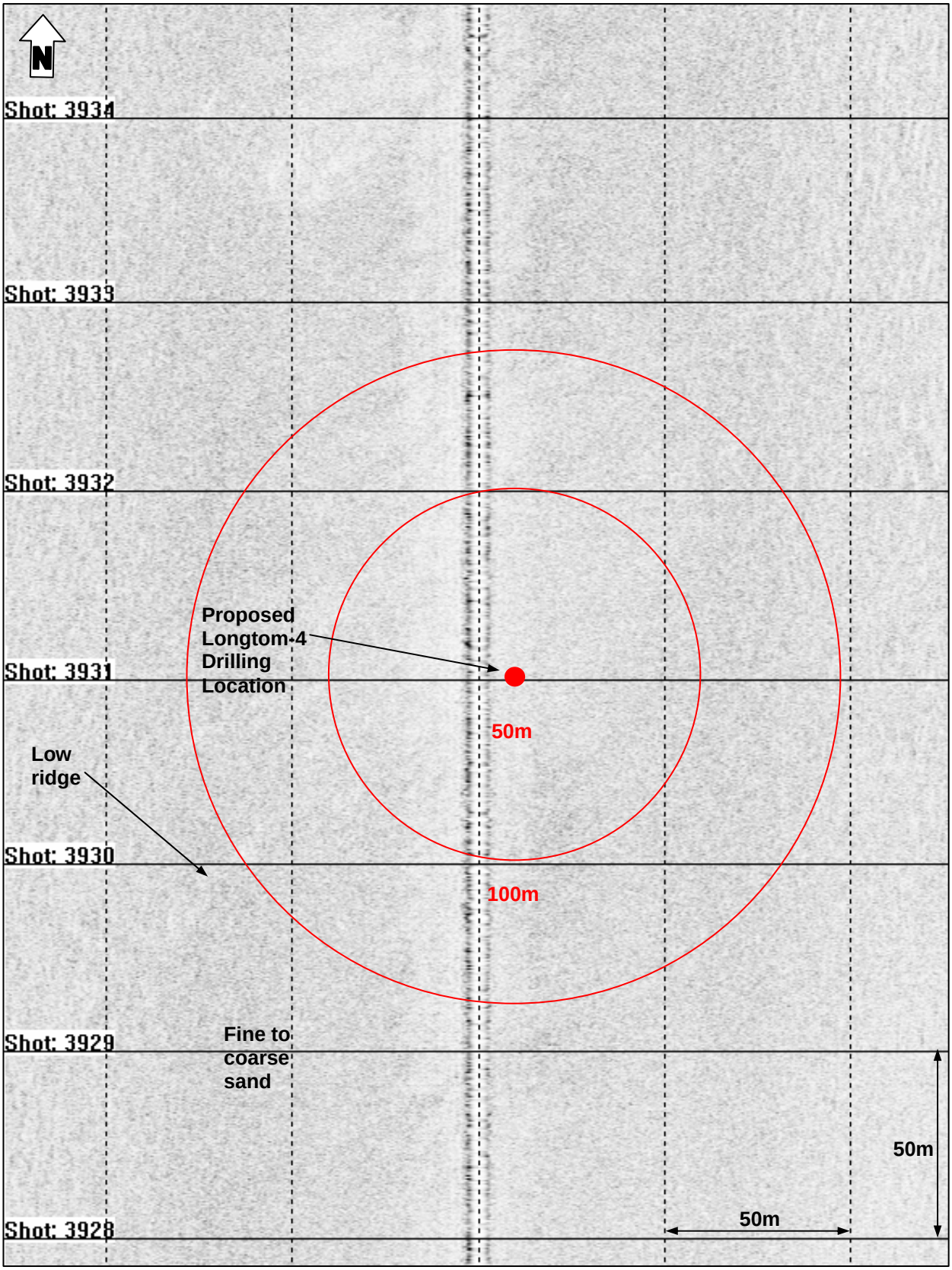


FIGURE 3-2 : SIDE SCAN SONAR RECORD, LINE LONGTOM_14 S-N, ILLUSTRATING THE SEAFLOOR AT THE PROPOSED LONGTOM-4 DRILLING LOCATION

3.4 Shallow Geology

Refer to Drawing No. P0635-6_002 Panel 1, Panel 2 and Panel 3

The boomer profiler was operated at 200J and fired three times a second. Data quality was good with penetration to 35m below the seabed. For onsite processing, the data was filtered at 400Hz to 1,800Hz with a 100ms sweep.

An assumed average propagation velocity of 1,600 m/s was applied to convert the two way travel time into depth below seabed.

The geological sequence is interpreted to consist of unconsolidated sand grading into variably cemented to well cemented calcarenite. Four units were identified within the survey area, delineated as Units A to D.

Unit A - This is the surficial unit present throughout the site and characterised by weak internal sub-parallel reflectors. Unit A is interpreted as fine to coarse unconsolidated sand. At the proposed drilling location, the base of Unit A lies 4.8m below the seabed.

Unit B - This unit is characterised by multiple moderate to high amplitude reflectors. A chaotic acoustic layer interpreted as an unconsolidated coarse sand and gravel bed, approximately 2m thick defines the top of the unit. Underlying this bed are irregular discontinuous high amplitude reflectors interpreted as well cemented layers of calcarenite within a variably cemented calcarenite unit. The base of unit B is 14.8m below the seabed at the proposed drilling location.

A high amplitude horizon mapped within the eastern limits of the site is presented as a grey section on the isopach drawings. The proposed drilling location insects the western boundary of this presumably well-cemented horizon 10m below the seabed. This layer is approximately 2m thick and the degree of cementation cannot be accurately determined from the records.

In the NW of the site (and within the NE corner) unit B is eroded by a paleochannel in-filled by gravels and coarse sands grading to finer sediments. The base of the channel reaches 10m below the seabed. The edge of the channel lies 725m NE and 715m north of the proposed drilling location.

Unit C - Unit C is a thin sequence comprising moderate amplitude sub-parallel to undulating reflectors interpreted as a bedded sequence of variably cemented calcarenite. The base of Unit C is 19m below the seabed at the proposed drilling location.

Unit D - Unit D encompasses the remainder of the seismic records. This unit is characterised by weak parallel south dipping reflectors interpreted as beds of variably cemented to well cemented calcarenite. Unit D continues past the limits of the seismic penetration and the thickness cannot be determined.

There is no evidence of shallow gas within the surveyed area.

Figure 3-3 and Figure 3-4 illustrate the shallow seismic data underlying the proposed drilling location.

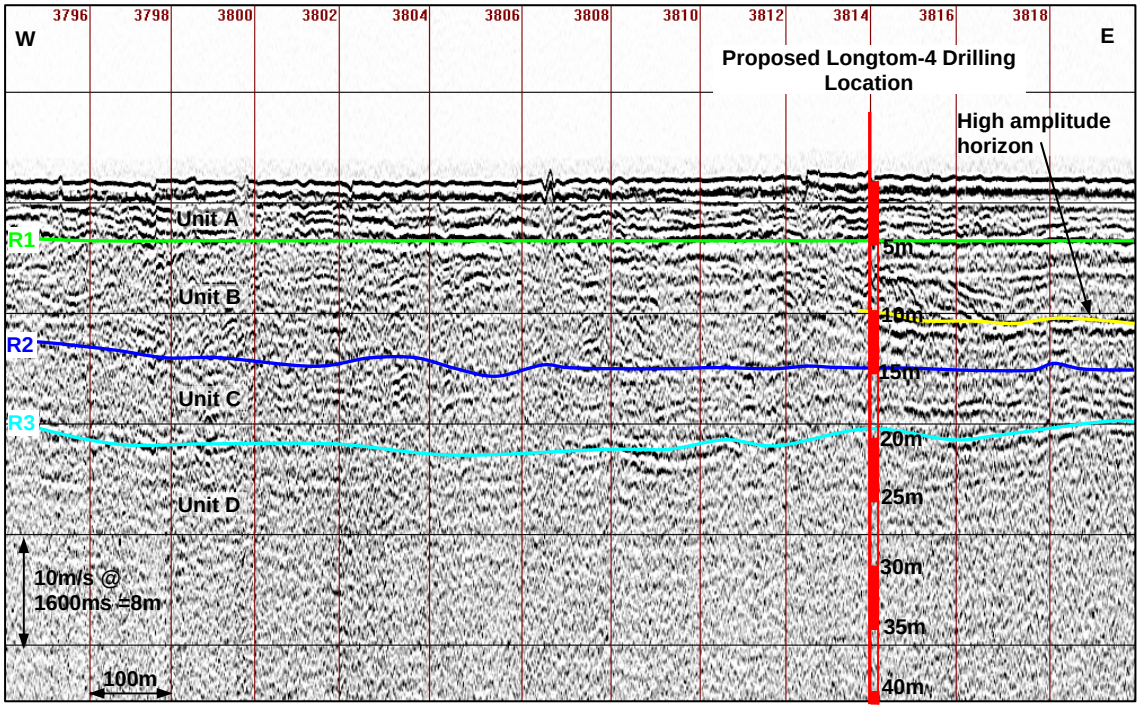


FIGURE 3-3 : BOOMER PROFILER DATA, LINE LONGTOM_08 W-E, PASSING THROUGH THE PROPOSED LONGTOM-4 DRILLING LOCATION

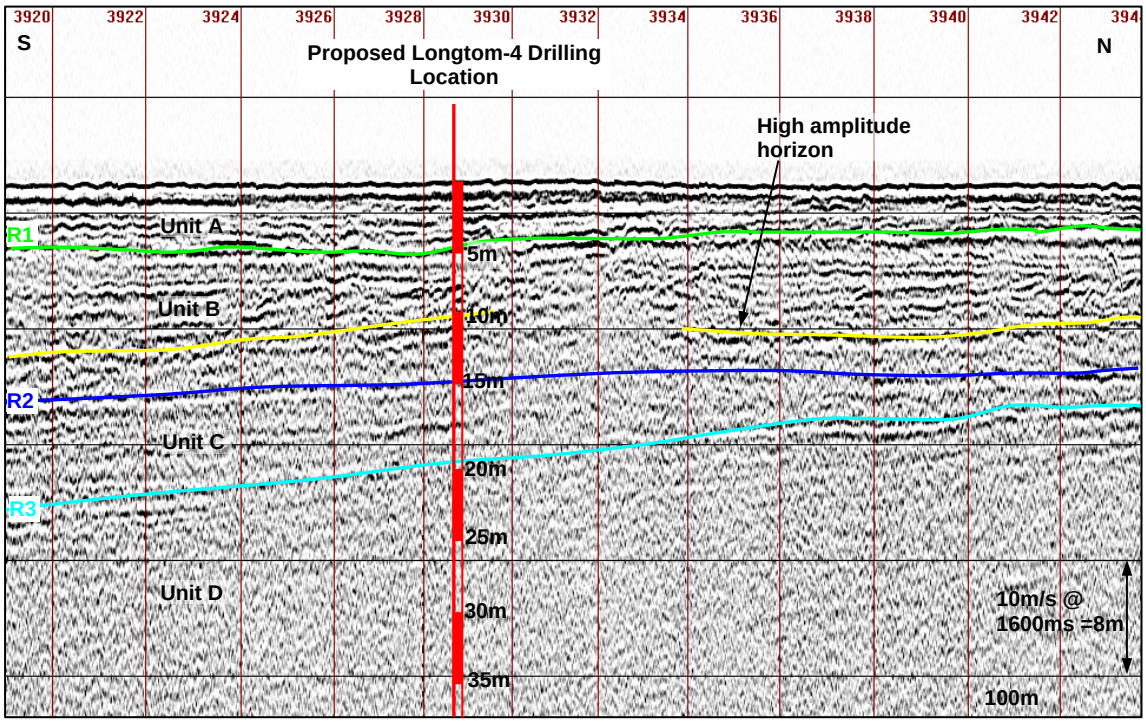


FIGURE 3-4 : BOOMER PROFILER DATA, LINE LONGTOM_14 S-N, PASSING THROUGH THE PROPOSED LONGTOM-4 DRILLING LOCATION

3.5 Seabed Sampling

Soil samples were collected with a grab sampler at two locations the proposed drilling location and an additional location within the south of the survey site to assist interpretation of the data sets. Gravity coring yielded no recovery at the proposed drilling location. The results of the soil sampling are listed in Table 3-1 and photographic records and descriptions are shown in Appendix B.

GDA94, MGA94, Zone 55, CM 147°E				
Core No.	**Easting (m)**	**Northing (m)**	**Depth (m)**	**Description**
Longtom- GC01	616864	5781443	55.9	No recovery
Longtom- GC01a	616861	5781445	55.9	No recovery
Longtom- GS01b	616859	5781445	55.9	Fine to coarse sand, with scallop shells
Longtom- GS02	616500	5781645	56.2	Fine to coarse sand, with gastropod shells

GC= Gravity Core, GS= Grab Sampler

TABLE 3-1 : SOIL SAMPLING RESULTS

4.0 CONCLUSIONS AND RECOMMENDATIONS

The water depth at the proposed Longtom-4 drilling location is 55.9m below LAT.

The seafloor within the site is essentially flat.

The seabed lithology across the survey area consists of fine to coarse unconsolidated sand.

A ridge is mapped 70m SW of the proposed drilling location. Two anchor scars are mapped in the NW of the site.

No debris or obstructions were mapped on the seafloor within the survey area.

The shallow geological sequence has been divided into four units. Together these units form a sequence of well-layered unconsolidated sand grading to variably cemented and well cemented calcarenite.

A paleochannel is mapped in the NW of the site, 725m NW of the proposed drilling location.

A well cemented calcarenite horizon, approximately 2m thick, within a variably cemented calcarenite unit, is mapped 10m below the seabed with the proposed drilling location positioned on the western edge of this horizon.

If further information regarding the structural characteristics of the shallow geological sequence is required, a geotechnical drilling campaign is advised.

5.0 DISTRIBUTION

Copies of this report have been distributed as follows:

Australian Drilling Associates
Attn: Mr Phil Stratford : 3 hard copies
: 1 electronic copy

APPENDIX A
SERVICE WARRANTY

1. This report and the geophysical interpretation and assessment carried out in connection with the report (together with the "Services") were compiled and carried out by Fugro Survey Pty Ltd (FSPTY) for Australian Drilling Associates (the "Client") in accordance with the terms of a contract between FSPTY and the Client. The Services were performed by FSPTY with the skill and care ordinarily exercised by a reasonable geophysical survey contractor, at the time the Services were performed. Further, and in particular, the Services were performed by FSPTY taking into account the limits of the scope of works required by the Client, the time scale involved and the resources, including financial, equipment and manpower resources, agreed between FSPTY and the Client.

2. Other than that expressly contained in paragraph 1 above, FSPTY provides no other representation or warranty whether expressed or implied, in relation to the Services and all warranties and conditions implied by law are hereby expressly excluded.

3. The Services were performed by FSPTY exclusively for the purposes of the Client. FSPTY is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless stated in the contract or report for the Services or expressly provided in writing, FSPTY does not authorise, consent or condone any party other than the Client relying upon the services. Should this report or any part of this report, or otherwise details of the Services or any part of the services be made known to any such party and such party relies thereon that party does so wholly at its own and sole risk and FSPTY disclaims any liability to such parties. Any such party would be well advised to seek (*independent*) advice from a competent (*geophysical survey contractor/consultant*) and/or lawyer.

4. It is FSPTY's understanding that this report is to be used for the purpose described in Section 1 - "Introduction" of the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the Client's proposed development or activity change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the Client without FSPTY's review and advice shall be at the Client's sole and own risk. Should FSPTY be requested to review the report after the date hereof, FSPTY shall be entitled to additional payment at the then existing rates or such other terms as agreed between FSPTY and the Client.

5. The passage of time may result in man-made and/or natural changes in site conditions and changes in regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should be not relied upon if any such changes have taken place and in any event after a period not greater than two years (or typically six months in the case of seabed features information) from the date of this report or as stated in the report without the written advice of FSPTY. In the absence of such written advice from FSPTY, reliance on the report after the specified time period shall be at the Client's own and sole risk. Should FSPTY be asked to review the report after the specified time period, FSPTY shall be entitled to additional payment at the then existing rate or such other terms as may be agreed upon between FSPTY and the Client.

6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and FSPTY. FSPTY has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the Client and FSPTY. FSPTY is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services.

7. Where the Services have involved the use of any information provided by third parties or the Client and upon which FSPTY was reasonably entitled to rely then the Services clearly are limited by the accuracy of such information. Unless otherwise stated, FSPTY was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the Client or third parties, including laboratories and information services, during the performance of the services. FSPTY is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to FSPTY and including the doing of any independent investigation of the information provided to FSPTY save as otherwise provided in the terms of the contract between the Client and FSPTY

8. Neither FSPTY nor any director, officer, agent, or employee of FSPTY shall have any liability (whether direct or indirect, in contract or in tort or breach of statutory duty or otherwise) to the Client (nor to any body corporate related to the Client within the meaning of section 50 of the Corporations Law, nor to any director, officer, agent, or employee of the Client or of any such body) for or in connection with the engagement of FSPTY for the provision of the Services, except to the extent to which it is not permissible by law to exclude, restrict or modify liability and except for any such liability for losses, claims, damages, liabilities or expenses incurred by the Client (or any of them) that are determined by a final judgement of a court of competent jurisdiction to have resulted primarily from actions taken or omitted to be taken by such person illegally or in bad faith from such person's gross negligence.

The above provisions will survive any termination of FSPTY's engagement to provide the Services.

APPENDIX B
SOIL SAMPLE LOGS

SOIL SAMPLE LOG

Job No.: P0635	**Date: 12/4/07**	**Time: 18:45**	**CORE No.: Longtom-GS01B**
Project: ADA Site Surveys Gippsland Basin		**Time Zone : UTC**	Water Depth : 57m
Client: ADA			Reduced Water Depth : 55.9m
Vessel: MV Southern Supporter			Vertical Datum: LAT
Horizontal Datum: GDA-94		CM: 147	
Easting: 616859	Northing: 5781445		Recovery 10kg
Grab Sampler			

Visual Description

Fine to coarse grained yellow-brown unconsolidated sand with <5mm sized shell fragments and scallop shells.

Sample has been described by visual identification.

Job No.: P0635	**Date: 12/4/07**	**Time: 19:07**	**CORE No.: Longtom-GS02**
Project: ADA Site Surveys Gippsland Basin		**Time Zone : UTC**	Water Depth : 57m
Client: ADA			Reduced Water Depth : 56.2m
Vessel: MV Southern Supporter			Vertical Datum: LAT
Horizontal Datum: GDA-94		CM: 147	
Easting: 616500	Northing: 5781645		Recovery 10kg
Grab Sampler			

Visual Description

Fine to coarse grained yellow-brown unconsolidated sand with <5mm sized shell fragments and gastropod shells.

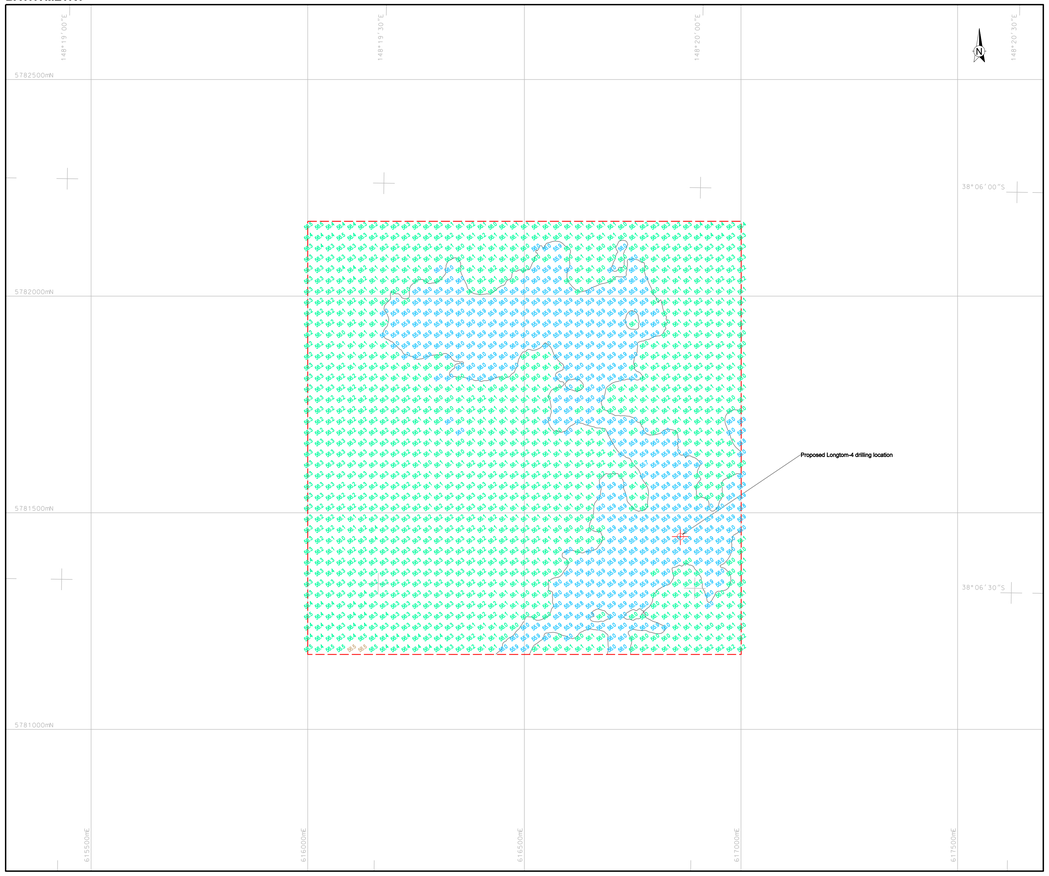
Sample has been described by visual identification.

DRAWINGS

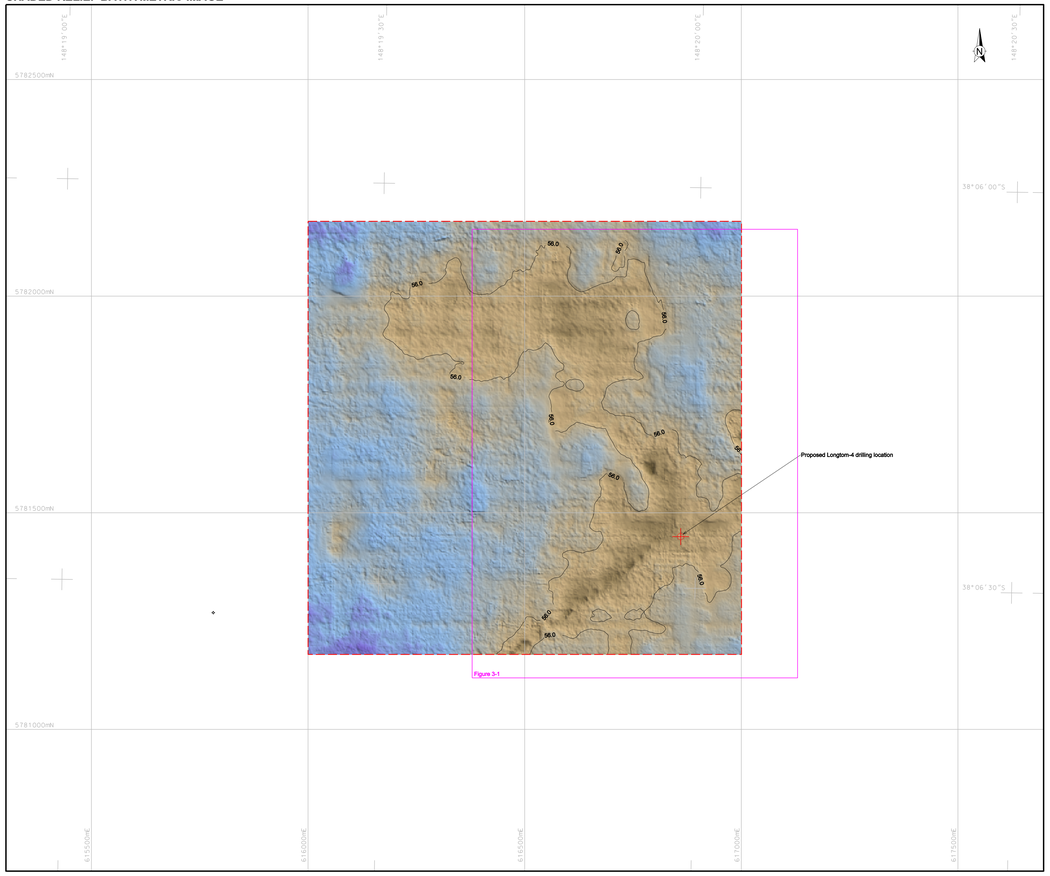
SCALE 1:5,000

FUGRO DRAWING NO.	DESCRIPTION
P0635-6_001	COMPOSITE DRAWING: BATHYMETRY, SHADED RELIEF BATHYMETRIC IMAGE, SEABED FEATURES, SIDE SCAN SONAR MOSAIC
P0635-6_002	COMPOSITE DRAWING: ISOPACH TO BASE OF UNIT A, ISOPACH TO BASE OF UNIT B, ISOPACH TO BASE OF UNIT C, GEOLOGICAL PROFILES

BATHYMETRY



SHADED RELIEF BATHYMETRIC IMAGE



LEGEND:

Proposed Longtom-4 drilling location : (616860.00mE, 5781445.00mN)

Limit of site survey area

Figure 3-1 — Location of data example figures in report

BATHYMETRY

Bathymetric soundings in metres, colour banded at 0.5 metre intervals

Bathymetric contours shown at 0.5 metre intervals, indexed every 5 metres

SHADED RELIEF BATHYMETRIC IMAGE

56.5 m — Depth of seabed in metres below LAT — 55.7 m

SEABED FEATURES

Sediment textural boundaries, dashed where gradational or inferred

Uniform moderate acoustic reflectivity seabed - interpreted to represent fine to coarse sand

Anchor scar

Low ridge

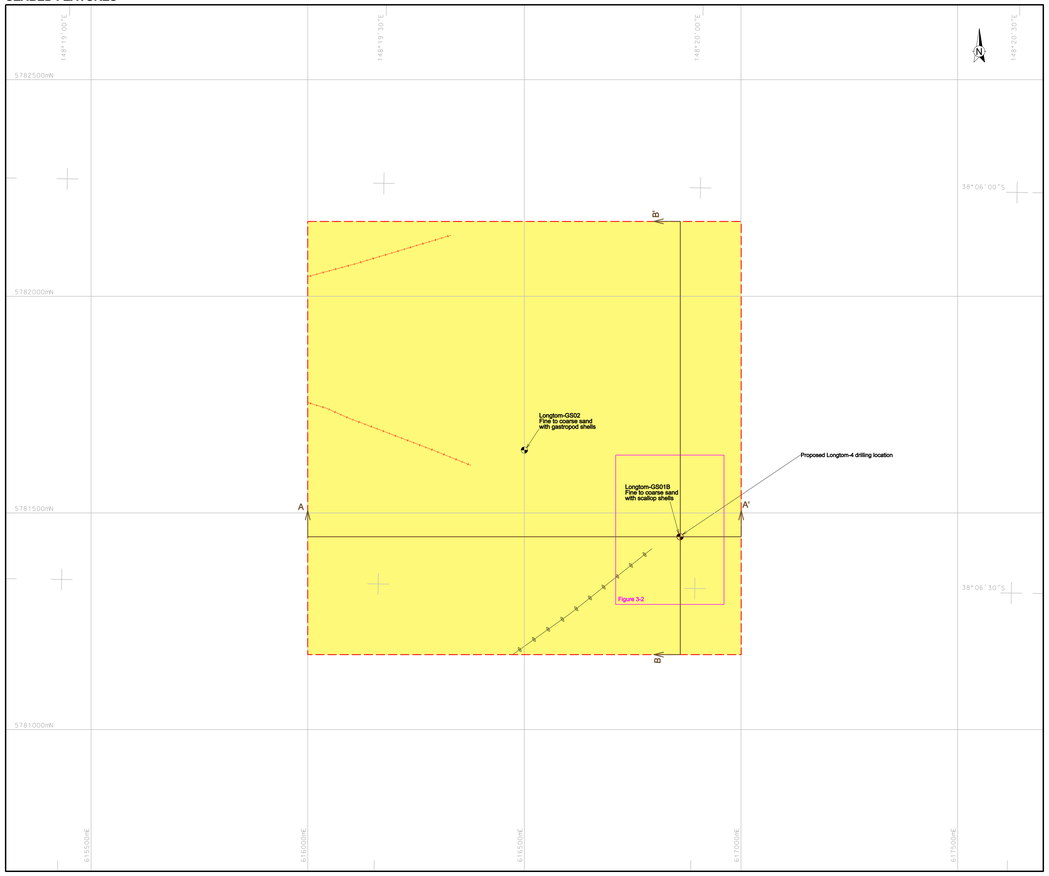
Longtom-GS01B — Seabed sample location with designator and description (GC: gravity core; GS: grab sample)

A — A' — Track line used for shallow geological profile

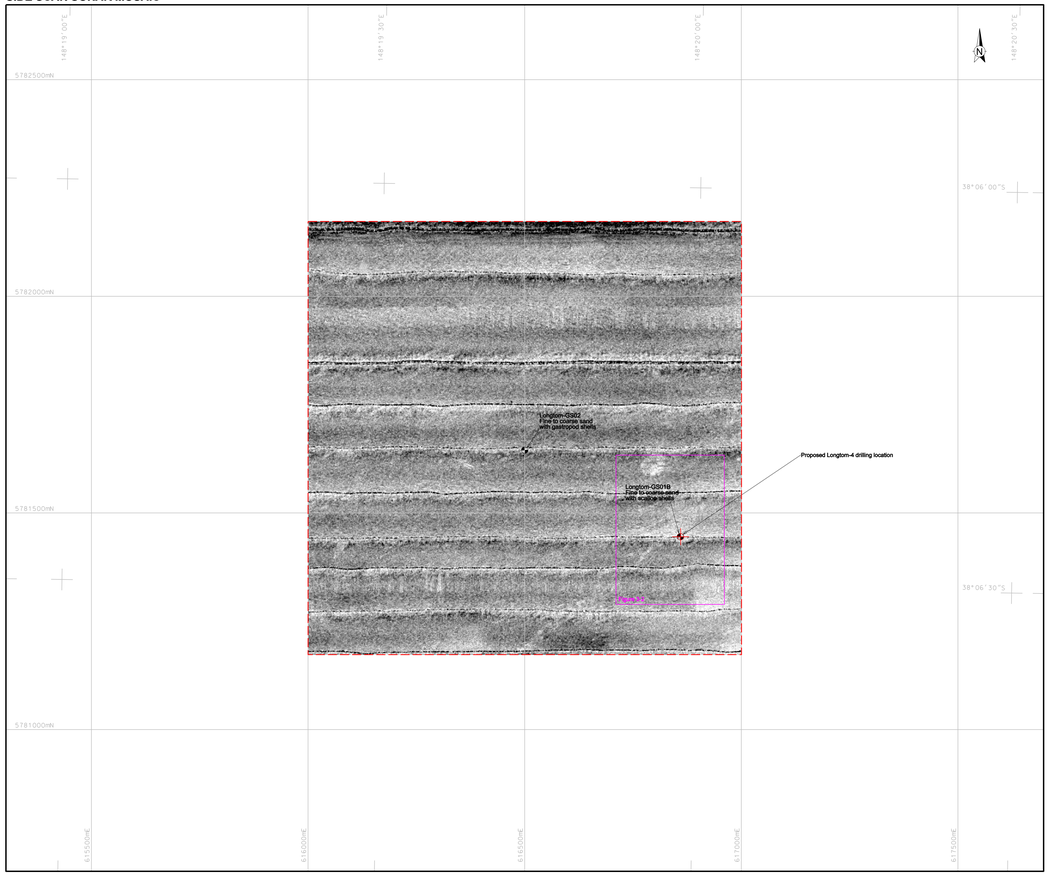
NOTES:

1) Positioning Systems: Starfix MRDGPS and HIPAP USBL towfish positioning.
2) Bathymetry acquired using a Reson Seabat 8101ER multibeam echosounder.
3) Bathymetric data is reduced to Lowest Astronomical Tide (LAT) using predicted tides provided by MetOcean Engineers.
4) Shaded relief image created from 3m grids, illumination azimuth of 270°, illumination elevation of 40°. Contour data was created from 3m multibeam bathymetric grids.
5) Seabed features interpretation based on data acquired with GeoAcoustics side scan sonar towfish operated at 100kHz frequency & a range of 125m.
6) Shallow geology interpreted from data acquired with an Applied Acoustics boomer system operating at 200 joules energy level.
7) Seismic travel times have been converted to depths using an assumed acoustic velocity of 1600m/s.

SEABED FEATURES



SIDE SCAN SONAR MOSAIC



GEODETIC PARAMETERS:

HORIZONTAL COORDINATE SYSTEM

GEODETIC DATUM	:	Geocentric Datum of Australia 1994 (GDA94)
ELLIPSOID	:	Geodetic Reference System 1980 (GRS80)
Semi major axis	:	6378137.000 m
Inverse flattening	:	298.257222101
GRID	:	Map Grid of Australia (MGA94)
Projection	:	Universal Transverse Mercator (UTM)
Central Meridian (CM)	:	147°E (Zone 55)
Latitude of Origin	:	0°N
False Easting	:	500 000m
False Northing	:	10 000 000m
Scale factor at CM	:	0.9996
DATUM TRANSFORMATION (From WGS84 (ITRF2000 Epoch 2007.5) to GDA94)	:	dX = 0.0064m dY = -0.0435m dZ = -0.0861m rX = 0.01652" rY = 0.014394" rZ = 0.017118" dS = 0.00359ppm
VERTICAL DATUM	:	Lowest Astronomical Tide (LAT)

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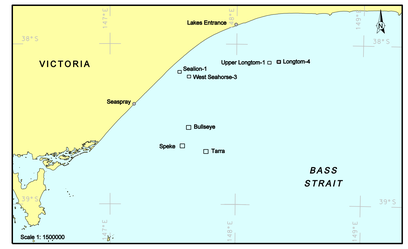

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Hydrographic House
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Tel: +61 8 9344 7166 Fax: +61 8 9344 8783

SITE SURVEY

LONGTOM-4

COMPOSITE DRAWING

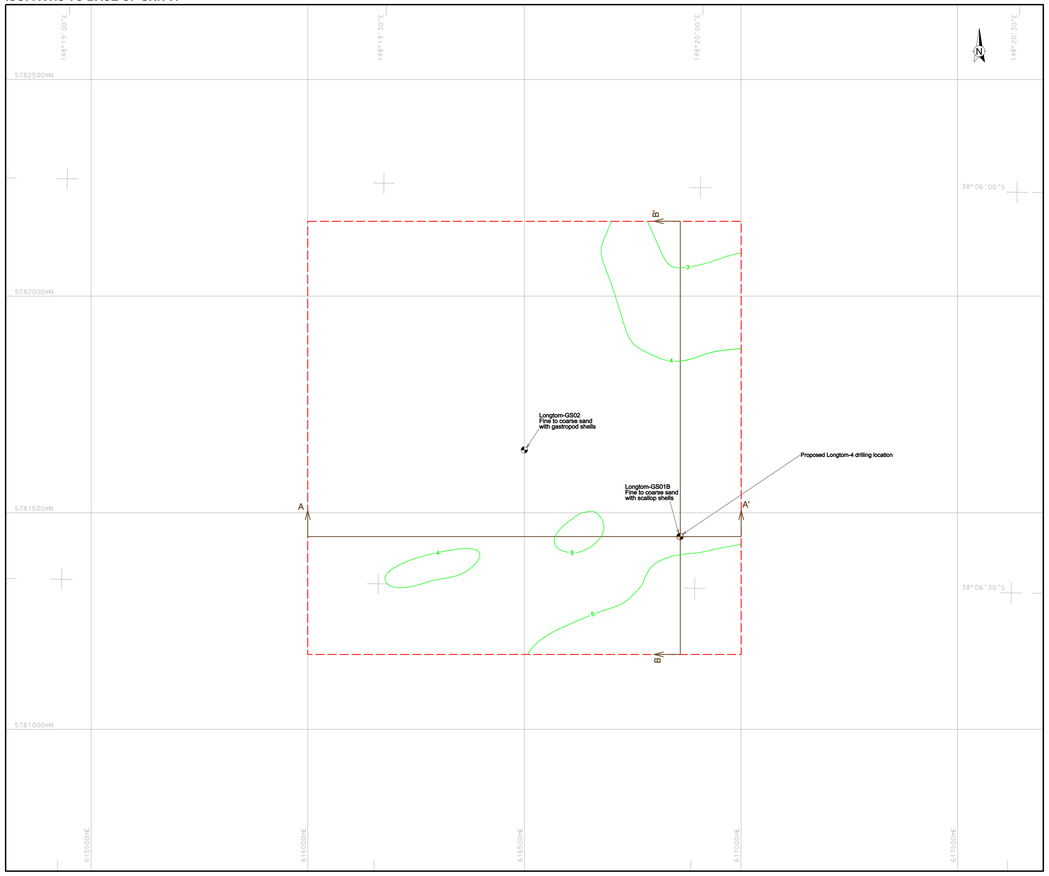
SCALE 1:5,000

100m 0m 100m 200m 300m 400m 500m

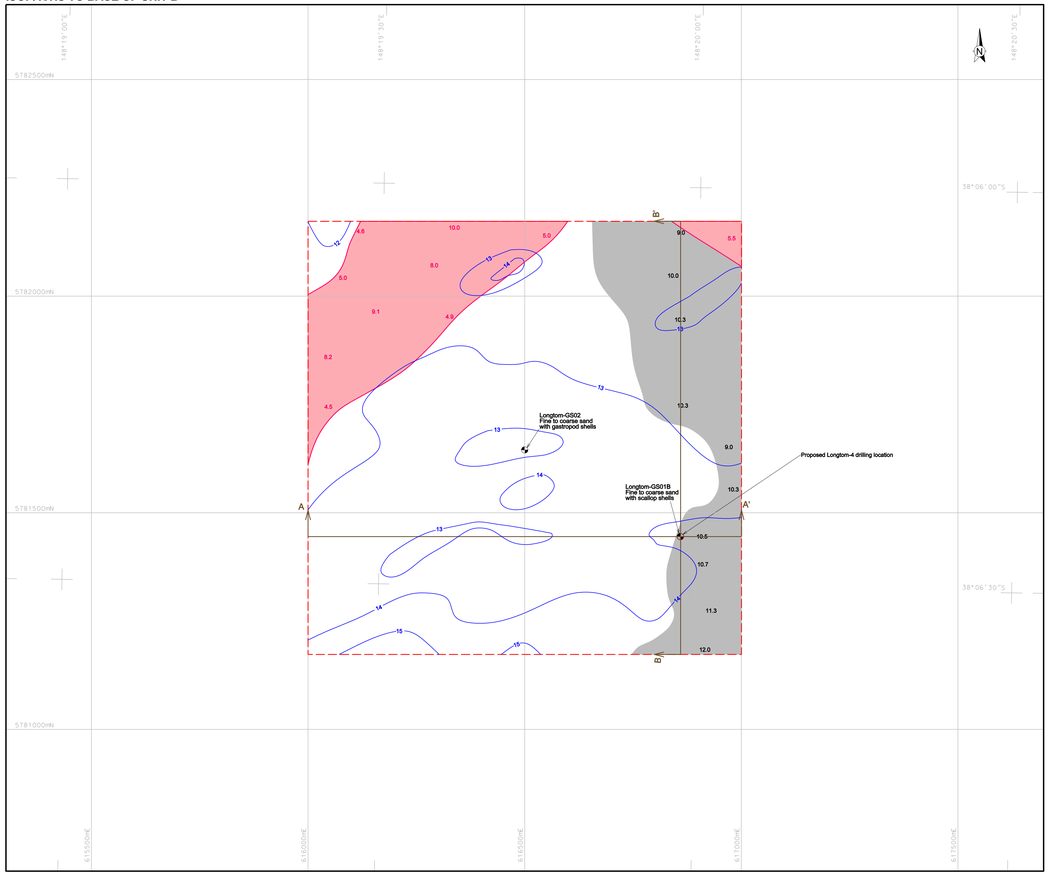
Vessel: MV Southern Supporter	Survey Date: 12 April 2007	Project Ref: P0635			
Issue No:	Date:	Description:	Surv:	Interpr:	Drawn:	Chkd:	Appr:
0	25/05/2007	Final	JR/DH	LMcL	EP		

Client Drawing No:	Drawing No: P0635-6_001	Drawing: 1 of 2	Encl: 2

ISOPACHS TO BASE OF UNIT A



ISOPACHS TO BASE OF UNIT B



LEGEND:

Proposed Upper Longtom-1 drilling location : (610356.00mE, 5780863.00mN)

Limit of site survey area

ISOPACHS

Longtom-GS01B — Seabed sample location with designator and description (GS: grab sample)

4 — Seabed to base of Unit A (m)

8 — Seabed to base of Unit B (m)

20 — Seabed to base of Unit D (m)

8.0 — Edge of palaeochannel underlying reflector R1 with spot depths in metres below seabed

10.3 — High amplitude horizon interpreted as a well cemented calcarenite layer approximately 2m in thickness with spot depths in metres below seabed

A — A' — Track line used for shallow geological profile

SHALLOW GEOLOGICAL PROFILE

Longtom-GS01B — Seabed profile with sample location with designator (GS: grab sample)

Figure 3-3 — Location of data example figures in report

Reflector R1 (base of Unit A)

Reflector R2 (base of Unit B)

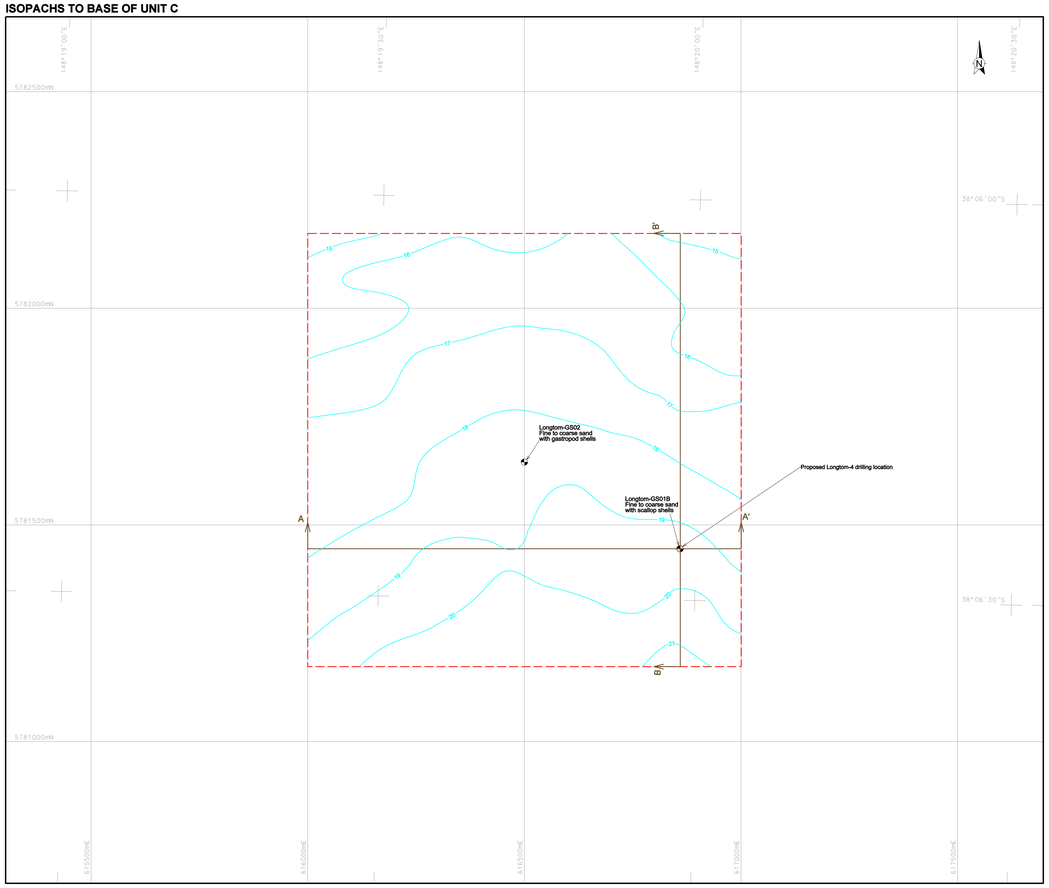
Reflector R3 (base of Unit C)

High amplitude reflector

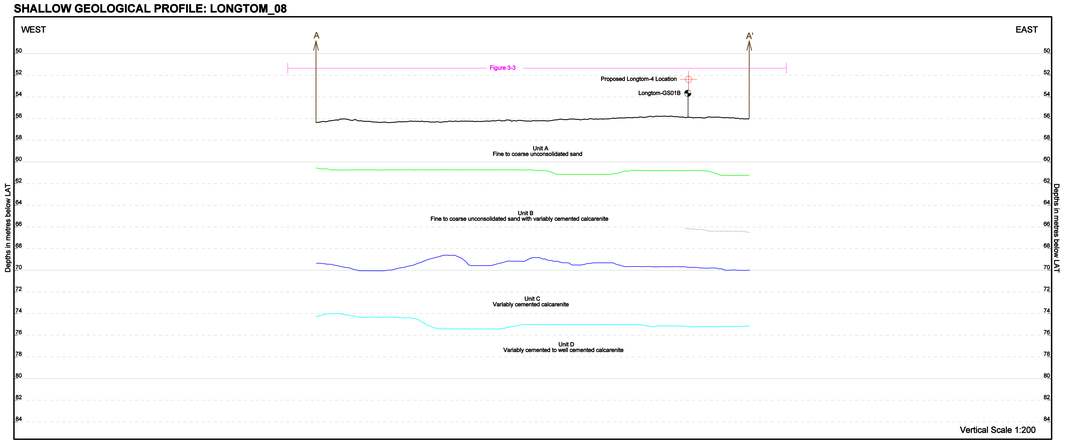
NOTES:

1) Positioning Systems: Starfix MRDGPS and HIPAP USBL towfish positioning.
2) Bathymetry acquired using a Reson Seabat 8101ER multibeam echosounder.
3) Bathymetric data is reduced to Lowest Astronomical Tide (LAT) using predicted tides provided by MetOcean Engineers.
4) Shaded relief image created from 3m grids, illumination azimuth of 90º, illumination elevation of 45º. Contour data was created from 3m multibeam bathymetric grids.
5) Seabed features interpretation based on data acquired with GeoAcoustics side scan sonar towfish operated at 100kHz frequency & a range of 125m.
6) Shallow geology interpreted from data acquired with an Applied Acoustics boomer system operating at 200 joules energy level.
7) Seismic travel times have been converted to depths using an assumed acoustic velocity of 1600m/s.

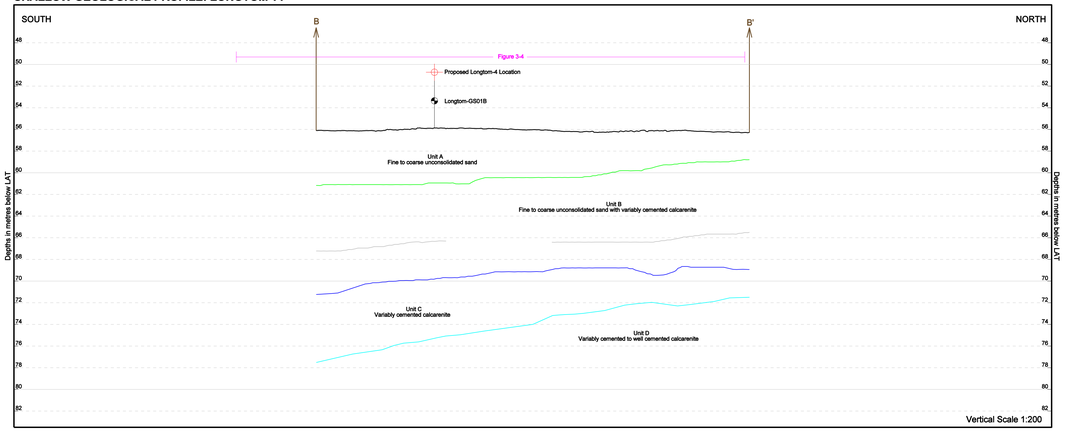
ISOPACHS TO BASE OF UNIT C



SHALLOW GEOLOGICAL PROFILE: LONGTOM_08



SHALLOW GEOLOGICAL PROFILE: LONGTOM 14



GEODETIC PARAMETERS:

HORIZONTAL COORDINATE SYSTEM

GEODETIC DATUM	:	Geocentric Datum of Australia 1994 (GDA94)
ELLIPSOID	:	Geodetic Reference System 1980 (GRS80)
Semi-major axis	:	6378137.000 m
Inverse flattening	:	298.257222101
GRID	:	Map Grid of Australia (MGA94)
Projection	:	Universal Transverse Mercator (UTM)
Central Meridian (CM)	:	147°E (Zone 55)
Latitude of Origin	:	0°N
False Easting	:	500 000m
False Northing	:	10 000 000m
Scale factor at CM	:	0.9996
DATUM TRANSFORMATION (From WGS84 (ITRF2000 Epoch 2007.5) to GDA94)	:	dX = 0.0064m dY = -0.0439m dZ = -0.0861m rX = 0.01652" rY = 0.014394" rZ = 0.017118" dS = 0.00389ppm
VERTICAL DATUM	:	Lowest Astronomical Tide (LAT)

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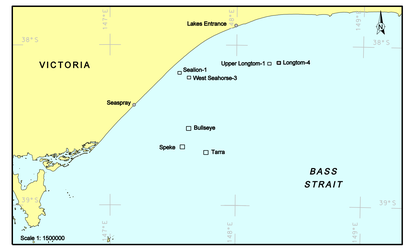

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Tel : +61 8 9344 7166 Fax : +61 8 9344 8783

SITE SURVEY

LONGTOM-4

COMPOSITE DRAWING

SCALE 1:5,000

100m 0m 100m 200m 300m 400m 500m

Vessel: MV Southern Supporter	Survey Date: 12 April 2007	Project Ref: P0635				
Issue No:	Date:	Description:	Surv:	Interpr:	Drawn:	Chkd:	Appr:
0	25/05/2007	Final	JR/DH	LM/L	EP		

Client Drawing No:	Drawing No:	Drawing:	Encl:
	P0635-6_002	2 of 2	2

Starfix Final Fix Report

Fugro Job Number	07066Longtom_4
Job Name	West Triton Rig Move
Fugro Personnel	C. Tidey,A. Smith
Client Name	ADA
Client Representative	B. Openshaw
Sampling Started	19 Jun 2008 3:19:39 PM UTC
Sampling Ended	20 Jun 2008 1:19:44 AM UTC
Comment	Final Fix

Intended Offset / Well Location

Geodetic Datum	GDA94-ITRF2008.50
Latitude	38°06'17.8518"S
Longitude	148°20'00.0573"E
Projection	Transverse Mercator (UTM) Zone: 55
Easting	616900.000 m
Northing	5781700.000 m
Intended Rig Heading	25.00 °T

Final DGPS Position Fix Summary for West Triton At Longtom-4

DS computed from Port OCSAT.GGA (Primary)

DS Offset From CRP

Starboard	0.000 m
Forward	0.000 m
Up	0.000 m
Geodetic Datum	GDA94-ITRF2008.50
Latitude	38°06'17.7071"S
Longitude	148°19'59.9442"E
Projection	Transverse Mercator (UTM) Zone: 55
Easting	616897.309 m
Northing	5781704.499 m

Final Rig Heading 24.11 °T (Convergence 0.82° Australia/New Zealand)
Gyro C-O -27.85 °
Position is 5.24 m @ 328.29 °T (329.11 °G) FROM intended location

DS computed from Stbd APSAT.GGA (Secondary)

Geodetic Datum	GDA94-ITRF2008.50
Latitude	38°06'17.7180"S
Longitude	148°19'59.9379"E
Projection	Transverse Mercator (UTM) Zone: 55
Easting	616897.150 m
Northing	5781704.165 m

Position is 5.05 m @ 324.80 °T (325.62 °G) FROM intended location

Positioning System Comparison (System 2 minus System 1)

Delta Easting	-0.159 m
Delta Northing	-0.333 m

Party Chief: Tidey Client Representative:

Fugro BTW Ltd
Australian Drilling Associates Pty Ltd
West Triton Rig Positioning

Field Report One
Date: 20 June 2008

Rotary Table Heighting
Longtom-4

07066

The height of the *West Triton* Rotary Table (RT) above Australian Height Datum (AHD) at Longtom-4 was determined from 9 hours 59 minutes of carrier phase GPS data logged between 0119 and 1118 on 20 June 2008 (EST). During this period, antenna heights from the primary positioning system were logged and the data used to calculate the height of the RT.

NOTE: This is a preliminary height only to be confirmed by Australian Government, Geoscience Australia data processing.

The *West Triton's* Rotary Table height is shown in Table 1.

Description	Method	Height above AHD
West Triton Rotary Table at Garfish-1	Carrier Phase GPS	40.25m

TABLE 1

C. Tidey
Party Chief / Surveyor
Fugro BTW Ltd

Date: 20 June 2008

APPENDIX 4: CASING AND CEMENTING FINAL REPORT

ADA
Level 5, Rialto North Tower
525 Collins Street
Melbourne Vic, 3000

Longtom-4
Cementing Operations
Post Job Report

Prepared for Carl MacDonald / Mark Nasarczyk
Tuesday, October 07, 2008

Submitted by Dave Webb
Halliburton Australia Pty Ltd
90 Talinga Rd, Cheltenham, VIC, 3192
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HALLIBURTON

90 Talinga Road
Cheltenham, Vic 3192
Tel: +61 3 9581 7500
Fax: +61 3 9581 7599

Tuesday, 7 October 2008

Carl MacDonand / Mark Nasarczyk
ADA
Level 5, Rialto north Tower
525 Collins St
Melbourne, VIC, 3000

Tommy,

Re: Longtom 4 Cement jobs

Included for your review is a copy of the Post Job Report of the Longtom 4 cementing operations. The PJR includes the programs, job logs, and lab reports.

I trust this PJR meets the requirements of ADA and with insight and reflection provides sufficient detail for future reference.

Yours sincerely,

Dave Webb
Associate Technical Professional

cc
Prem kumar Salibendla
Technical Professional

Allan Hatfield
Cementing Service Coordinator

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1.0 Summary of operations

The Longtom 4 well was cemented using a 30in casing, 16in casing. 10 3/4in casing and a 7in Liner. The 30 in casing was cemented on the 21of June 2008 followed by the 16in casing on the 25 of June 2008. The 10 ¾in casing was cemented on 16thth of July 2008. A Kick off Plug was cemented on the 31st of july 2008 and the 7in Liner was cemented on 17th of August 2008. Please see Job logs for more details.

1.1 Lessons Learnt

During pumping of the spacer prior to performing the cement job there was an unexpected pressure spike that resembled an SSR top plug shearing. The situation was assessed and a decision was taken to pump the casing volume in an attempt to land the suspected sheared SSR top plug. Upon the casing capacity being pumped a bump pressure was evident, as a result the job was suspended. Upon rigging down and checking the SSR cement head it was found that indeed the dart was missing, confirming the SSR top plug had sheared

See tap root CPI # 300113953for details

The 10 3/4in As result of above issue an NCR has been created on Halliburton, changes in the initial program for each well showing all the cement heads on the rig and their dimensional limits, so this can be looked in to in initial planning stage to stopped this from ever happening again.

The jobs was performed in a safe manner and executed according to the plan then after

2.0 Cement Program

The following program covers the cementation of 30in, 16in and 10 3/4in casings and a 7in liner program on longtom-4 well. 7in liner cementing is only contingency needs to be finalised TOC and liner lap hence this liner program will be covered in separate program.

Revision History

Draft 1	5th June 2008	Initial programs
Draft 2	13th June 2008	Changed Slurry design for 30in and 16in Casing

2.1 30in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	130m	BHST temperature:	25°C
True vertical depth:	130m	BHCT temperature:	21°C
Depth to top cement:	99m	Drilling mud type:	Seawater + Sweeps
		Drilling mud density:	8.55ppg

WELLBORE

Casing/Tubing (Inner string job)

0-130m	5 1/2in 21.9ppf Tubing
0-130m	30in 309.7ppf Casing (X52)

Annulus

0-99m	RKB-ML
99-130m	36in open hole (200% excess)

SPACERS

Spacer #1 - 80.0bbl Seawater at 8.54ppg

Seawater	42.00 gal/bbl	(21m OH annular fill / 10min contact time)
		Estimated Pv: 1cP

Spacer #2 - 20.0bbl Seawater + Dye at 8.54ppg

Seawater	41.95 gal/bbl	(5m OH annular fill / 3min contact time)
Fluorescein Dye	0.50 lb/bbl	Estimated Pv: 1cP

Contact times are based on the displacement rate.

CEMENT

Composition		**Properties**	
Adelaide Brighton Class G		Surface density:	15.90 ppg
Calcium Chloride 1%	2.00 %BWOC	Surface yield:	1.18 ft³/sk
Seawater	5.20 gal/sk	Total mixing fluid:	5.28 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	2:30
		Comp strength at 24°C	50 psi in 3 hrs
		Comp strength at 24°C	500 psi in 6 hrs
		Comp strength at 24°C	2,000 psi in 24 hrs

Note that %BWOC are based on a 94 lb sack

VOLUME CALCULATIONS

Cement

30in Casing / 36in hole volume	31 m x 1.2620 bbl/m	39.1 bbl
30in Casing / 36in hole excess	2.00 x 39.1 bbl	78.2 bbl
	Total slurry volume =117.4 bbl	
Quantity of cement	117.4 bbl x 5.6146 / 1.18 ft³/sk	558 sks
Quantity of mix fluid	558 sks x 5.28 gal/sk	70.2 bbl

Displacement

5 1/2in Tubing volume	130 m x 0.0728 bbl/m	9.5 bbl
	Total displacement volume =9.5 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	14.3	8.0	2
Pump spacers:	100.0	8.0	13
Release ball/bottom plug:	N/A	N/A	5
Mix & pump cement:	117.4	5.0	23
Release dart/top plug:	N/A	N/A	5
Pump displacement:	9.5	8.0	1

Total job time (including circulation):	***79 min***	***1hr 19min***
Minimum cement thickening time (with 2hr safety factor):	***149 min***	***2hr 29min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Seawater

Seawater	80 bbl

Spacer #2 - Seawater + Dye

Seawater	20 bbl
Fluorescein Dye	10 lb

Cement

Adelaide Brighton Class G	24 MT(563 ft³)
Calcium Chloride 1%	1,049 lbs
Seawater	69.1 bbl
NF-6	2 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.1.1 30in Casing Job Procedure

1) Run casing, install false rotary and run innerstring
2) Stab in to float shoe and establish circulation
3) Pressure test lines by pumping 10bbls of SW
4) Pump 70bbls of seawater
5) Pump 20bbls of dye coloured seawater
6) Mix and pump 117.5bbls of 15.9ppg cement slurry
7) Displace with 10bbls of seawater
8) Bleed off and check floats
9) Unsting from float shoe and circulate drill pipe clean. Drop a wiper ball to aid in cleaning

2.2 16in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	750m	BHST temperature:	50°C
True vertical depth:	750m	BHCT temperature:	34°C
Depth to top lead:	99m	Drilling mud type:	WBM
Depth to top tail:	550m	Drilling mud density:	8.70ppg

WELLBORE

Casing/Tubing (Inner string job)

0-750m	5 1/2in 21.9ppf Tubing (VTOP)
0-750m	16in 75ppf Casing (NT 80 De BTC)

Annulus

0-130m	30in 309.7ppf casing (28in ID)
130-750m	22in open hole (50% excess)

SPACERS

Spacer - 100.0bbl Seawater at 8.54ppg

Seawater	42.00 gal/bbl	(92m OH annular fill / 13min contact time) Estimated Pv: 1cP

Contact times are based on the displacement rate.

LEAD CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	12.50 ppg
Econolite Liquid	15.00 gal/10bblMF	Surface yield:	2.19 ft³/sk
Seawater	12.41 gal/sk	Total mixing fluid:	12.88 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	5:00
		Comp strength at 34°C:	500 psi in 24 hrs

TAIL CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.90 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.14 ft³/sk
Freshwater	4.96 gal/sk	Total mixing fluid:	5.00 gal/sk
NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	3:00
		Comp strength at 45°C	50 psi in 4 hrs
		Comp strength at 45°C	500 psi in 6 hrs
		Comp strength at 45°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Lead Cement

16in Casing / 30in casing volume	31 m x 1.6827 bbl/m	52.2 bbl
16in Casing / 22in hole volume	420 m x 0.7266 bbl/m	305.2 bbl
16in Casing / 22in hole excess	0.50 x 305.2 bbl	152.6 bbl
	Total lead slurry volume =509.9 bbl	

Quantity of lead cement	509.9 bbl x 5.6146 / 2.19 ft³/sk	1307 sacks
Quantity of lead mix fluid	1307 sacks x 12.88 gal/sk	400.8 bbl

Tail Cement

16in Casing / 22in hole volume	200 m x 0.7266 bbl/m	145.3 bbl
16in Casing / 22in hole excess	0.50 x 145.3 bbl	72.7 bbl
	Total tail slurry volume =218.0 bbl	

Quantity of tail cement	218.0 bbl x 5.6146 / 1.14 ft³/sk	1074 sks
Quantity of tail mix fluid	1074 sks x 5.00 gal/sk	127.9 bbl

Displacement

5 1/2in Tubing volume	750 m x 0.0728 bbl/m	54.6 bbl
	Total displacement volume =54.6 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	81.9	8.0	10
Pump spacers:	100.0	8.0	13
Release ball/bottom plug:	N/A	N/A	5
Mix & pump lead cement:	509.9	5.0	102
Mix & pump tail cement:	218.0	5.0	44
Release dart/top plug:	N/A	N/A	5
Pump displacement:	54.6	8.0	7

Total job time (including circulation):	***216 min***	***3hr 36min***
Minimum lead cement thickening time (with 2hr safety factor):	***278 min***	***4hr 38min***
Minimum tail cement thickening time (with 2hr safety factor):	***176 min***	***2hr 56min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer - Seawater

Seawater	100 bbl

Lead Cement

Adelaide Brighton Class G	56 MT(1,313 ft³)
Econolite Liquid	601 gals
Seawater	386.2 bbl
NF-6	11 gals

Tail Cement

Adelaide Brighton Class G	46 MT(1,079 ft³)
CFR-3L	38 gals
Freshwater	126.9 bbl
NF-6	4 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.2.1 16in Casing Job Procedure

1) Rig up surface lines, Innerstring cementing pump in sub
2) Close PCA (The innerstring will not be stabbed in)???
3) Establish circulation
4) Pressure test lines to maximum job pressure
5) Pump 100bls seawater
6) Pump 510bbls of lead cement
7) Pump 218bbls of tail cement
8) Drop a foam wiper ball
9) Displace with 54.5bbls of well fluid (If using a foam ball do not overdisplace and force ball into valve)
10) Open PCA???
11) Forward circulate drill pipe clean

2.2.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

12) Load appropriate amount of freshwater in a clean pit
13) Add Tuned spacer E+ Blend and agitate
14) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
15) Add Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
16) Add surfactants slowly when casing is near bottom. Agitate very slowly to alleviate foaming
17) Check density with mud balance, ~13.5ppg.

2.3 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

1. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

2. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
3. During the casing/liner run add the additives below in the following order.
   a) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
   b) Friction Reducers – **CFR-3L**.
   c) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

4. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
   a) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
   b) Weighting Materials – **Micromax**.

5. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
   a) Retarders – **HR-6L / HR-25L / SCR-100L**.
   b) Expansive Additives - **MicroBond**.

6. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.4 10 ¾ Summary

The following program covers the cementation of 10 3/4in casings

Revision History

Revision 1	24th June 2008	Changed Cement from HTB to Class G
Revision 2	14th July 2008	Changed to inner string job
Revision 3	15th July 2008	changed work string

2.5 10 3/4in Casing Job Details

JOB PARAMETERS			
Casing measured depth:	2,591m	BHST temperature:	93°C
True vertical depth:	2,344m	BHCT temperature:	62°C
Depth to top cement:	1,900m	Drilling mud type:	Accolade
		Drilling mud density:	12.00ppg

WELLBORE

Casing/Tubing (Inner string job)

0-2,470m	5 1/2in 21.9ppf Tubing
2,470-2,500m	2 7/8in 6.5ppf Tubing
0-2,591m	10 3/4in 55.5ppf Casing (L80 Tenaris Blue)

Annulus

0-750m	16in 75ppf casing (15.124in ID)
750-2,591m	13.5in open hole (30% excess)

SPACERS

Spacer #1 - 20.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(72m OH annular fill / 3min contact time)
		Estimated Pv: 1cP

Spacer #2 - 30.0bbl Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	(109m OH annular fill / 4min contact time)
Tuned Spacer E+	13.80 lb/bbl	Estimated Pv: 30cP
Barite	274.56 lb/bbl	Estimated Yp: 26lbs/100ft²
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Contact times are based on the displacement rate.

CEMENT

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.80 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
Halad -413L	15.00 gal/10bblMF	Total mixing fluid:	5.14 gal/sk
SCR-100L	2.00 gal/10bblMF	Thickening time (70 Bc):	4:00
Freshwater	4.89 gal/sk	Free water vert at 62°C:	Trace %
NF-6	0.25 gal/10bblMF	Fluid loss at 62°C:	<100 cc/30min
		Comp strength at 83°C	50 psi in 5 hrs
		Comp strength at 83°C	500 psi in 6 hrs
		Comp strength at 83°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

10 3/4in Casing / 13.5in hole volume	691 m x 0.2125 bbl/m	146.8 bbl
10 3/4in Casing / 13.5in hole excess	0.30 x 146.8 bbl	44.0 bbl
Shoe track volume	31 m x 0.3036 bbl/m	9.4 bbl
	Total slurry volume =	***200.3 bbl***
Quantity of cement	200.3 bbl x 5.6146 / 1.16 ft³/sk	969 sks
Quantity of mix fluid	969 sks x 5.14 gal/sk	118.6 bbl

Displacement

5 1/2in Tubing volume	2,470 m x 0.0728 bbl/m	179.7 bbl
2 7/8in Tubing volume	30 m x 0.0190 bbl/m	0.6 bbl
10 3/4in Casing volume	60 m x 0.3036 bbl/m	18.2 bbl
	Total displacement volume =	***198.4 bbl***

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)	
Make up lines & pressure test:	N/A	N/A	30	
Circulate 1.5 x Casing volume:	311.7	8.0	39	
Pump spacers:	50.0	8.0	6	
Mix & pump cement:	200.3	5.0	40	
Pump displacement:	198.4	8.0	25	
Total job time (including circulation):			***140 min***	***2hr 20min***
Minimum cement thickening time (with 2hr safety factor):			***185 min***	***3hr 05min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater

Freshwater	20 bbl

Spacer #2 - Tuned Spacer E+

Freshwater	22.7 bbl
Tuned Spacer E+	414 lb
Barite	8,237 lb
Musol E	30 gal
Sem-7	21 gal

Cement

Adelaide Brighton Class G	41 MT(962 ft³)
CFR-3L	36 gals
Halad -413L	178 gals
SCR-100L	24 gals
Freshwater	112.9 bbl
NF-6	3 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.5.1 10 3/4in Casing Job Procedure

18) Run 10 ¾”casing to TD
19) Establish circulation by pumping 10bbl Fresh water
20) Test lines to 3000psi
21) Pump 10bbls freshwater
22) Pump 30bbls Tuned spacer @ 13.5ppg
23) Mix and pump 200bbls of single 15.8ppg slurry
24) Drop a Drill pipe wiper ball
25) Pump 10bbl of fresh water
26) Displace with 188.5 of mud.
27) **Slow pump rate down to 1bbl/min** for final 10bbls.
28) End job

2.5.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

29) Load appropriate amount of freshwater in a clean pit
30) Add 414lbs of Tuned spacer E+ Blend and agitate
31) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
32) Add 8237lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
33) Add 30gals of Musol E and 21gals of SEM-7 surfactants slowly Agitate very slowly to alleviate foaming
34) Check density with mud balance, ~13.5ppg.

2.6 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

7. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

8. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
9. During the casing/liner run add the additives below in the following order.
    d) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    e) Friction Reducers – **CFR-3L**.
    f) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

10. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    c) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    d) Weighting Materials – **Micromax**.

11. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    c) Retarders – **HR-6L / HR-25L / SCR-100L**.
    d) Expansive Additives - **MicroBond**.

12. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.7 Kick Off Plug

The following program covers the cementation of 9.5inch OH KOP with 10% excess. This plug will extend from 2740m -2565m with a plug length of 175m; slurry will be mixed at 16.5 with class G cement. This plug will be placed on a CST.

Revision History

Revision 1	3rd July 2008	Revision 1 created
Revision 2	4th July 2008	Program outline added
Revision 3	21st July 2008	10 ¾" casing MD changed to 2590m, Plug length 145m
Revision 4	25th July 2008	Changed to single plug on a CST
Revision 5	29th July 2008	Volume changed to 55bbl
Revision 6	29th July 208	Changed 2 7/8in weight and length.

2.8 KOP Job Details - 9.5in hole

JOB PARAMETERS			
Plug bottom MD:	2,740m	BHST temperature:	104°C
Plug bottom TVD:	2,432m	BHCT temperature:	85°C
Plug top MD:	2,565m	Drilling mud type:	WBM
Plug length:	175m	Drilling mud density:	12.00ppg
Plug length with DP in:	181m		

WELLBORE

Workstring

0-2,580m	5 1/2in 24.7ppf tubing
2,580-2,740m	2 7/8in 6.5ppf tubing

Annulus

0-2,590m	10 3/4in 55.5ppf casing (9.76in ID)
2,590-2,740m	9.5in open hole (10% excess)

SPACERS

Spacer #1 - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	10.0bbl ahead and 3.4bbl behind to balance (31m annular fill / 2min contact time)

Spacer #2 - Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	15.0bbl ahead and 5bbl behind to balance (47m annular fill / 3min contact time)
Tuned Spacer E+	13.80 lb/bbl	
Barite	274.56 lb/bbl	
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	16.50 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.06 ft³/sk
SCR-100L	4.00 gal/10bblMF	Total mixing fluid:	4.37 gal/sk
Freshwater	4.30 gal/sk	Thickening time (70 Bc):	4:00
NF-6	0.125 gal/10bblMF	Comp strength at 97°C	50 psi in 4 hrs
		Comp strength at 97°C	500 psi in 6 hrs
		Comp strength at 97°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

10 3/4in casing volume	15 m x 0.3036 bbl/m	4.6 bbl
10 3/4in casing volume	10 m x 0.3036 bbl/m	3.0 bbl
9.5in hole volume	150 m x 0.2876 bbl/m	43.1 bbl
9.5in hole excess	0.10 x 43.1 bbl	4.3 bbl
	Slurry volume =55.1 bbl	
Quantity of cement	55.1 bbl x 5.6146 / 1.06 ft³/sk	292 sacks
Quantity of mix fluid	292 sacks x 4.37 gal/sk	30.4 bbl

Displacement

5 1/2in tubing volume	2,439 m x 0.0695 bbl/m	169.5 bbl
	Total displacement volume =169.5 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)	
Make up lines & pressure test:	N/A	N/A	30	
Circulate 1 x bottoms up:	580.8	6.0	97	
Pump spacers ahead:	25.0	6.0	4	
Mix & pump cement:	55.1	5.0	11	
Drop wiper ball:	N/A	N/A	5	
Pump spacers behind:	8.4	6.0	1	
Pump displacement:	169.5	6.0	28	
Pull workstring 152 m above TOC:	327m	9.1m/min	36	
Circulate workstring clean:	160.0	6.0	27	
	Total job time (including circulation):		***239 min***	***3hr 59min***
	Minimum cement thickening time (with 2hr safety factor):		***228 min***	***3hr 48min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater (Including 10.0 bbl pit loss)

Freshwater	23.4 bbl

Spacer #2 - Tuned Spacer E+ (Including 10.0 bbl pit loss)

Freshwater	22.7 bbl
Tuned Spacer E+	414 lb
Barite	8,245 lb
Musol E	30 gal
Sem-7	21 gal

Cement

Adelaide Brighton Class G	12 MT(281 ft³)
CFR-3L	9 gals
SCR-100L	12 gals
Freshwater	29.9 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.8.1 KOP Job Procedure

NOTE : WHOLE VOLUMES ARE USED FOR SIMPLICITY

35) RIH with work string to 2740m MD
36) Load CST and dart into work string
37) Rig up surface lines, prime and test to 3000psi
38) Displace CST out of work string with 185bbls of well fluid (Slow down to ~1 1/2bpm for final 4bbls), pick up 1m
39) Pump 10bbls Fresh water
40) Pump 15bbls of Tuned spacer E+ at 13.5ppg
41) Mix and pump 55.0bbls of 16.5ppg cement slurry.
42) Pump 5bbls of Tuned spacer
43) Pump 3.5bbls of fresh water to balance the plug
44) Continue to displace with 168.5.0bbls of well fluid

Note: Plug is one barrel under displaced to aid in dry pulling the work string

45) Pick up work string at least one stand above top of cement
46) Reverse circulate 1 1/2 times tubing volumes clean before POOH
47) End job

2.8.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

48) Load 23bbl of freshwater in a clean pit
49) Add 414lbs of Tuned spacer E+ Blend and agitate
50) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite
51) Add 8245lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)
52) Add 30gals of Musol E and 21gals of SEM-7 surfactants slowly Agitate very slowly to alleviate foaming
53) Check density with mud balance, ~13.5ppg.

2.9 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

13. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

14. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
15. During the casing/liner run add the additives below in the following order.
    g) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    h) Friction Reducers – **CFR-3L**.
    i) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

16. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    e) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    f) Weighting Materials – **Micromax**.

17. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    e) Retarders – **HR-6L / HR-25L / SCR-100L**.
    f) Expansive Additives - **MicroBond**.

18. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.10 Running procedure CST:

NOTE: 2in CST TOOL (slime line CST) 16in Max Operating Diameter and 2in Minimum pipe ID.

Other important notes:

- Do not attempt to place CST too close to fish, rubbish, cut casing stubs or other obstructions in the wellbore. Keep at least 5 to 10 meters from the open-ended stinger to any such object below.
- The CST is not a remedy for well integrity problems, it is not designed to withstand mechanical loads or differential pressures. It is designed to separate fluids. Losses below the placement depth may therefore affect the performance of the tool.

The CST may either be placed:

a) in a separate operation prior to spotting cement (this is safer from a work string drifting / possible tool or dart hang-up point of view).

b) Or pumped directly ahead of the spacer and cement in conjunction with the cement job (this has the benefit of a wiper dart cleaning the pipe ahead of the spacer, thus reducing interface).

2.10.1 Operating procedure:

54) Conduct a pre-job safety meeting.

55) Wash the cement plug setting area thoroughly to break mud gels and mobilize any gelled mud.

56) Wash the CST placement area thoroughly to ensure adequately clean and free of obstructions or debris.

57) With cement stinger at planned setting depth, space out string and prepare the cement stand with pump in sub and necessary components.

58) If the CST is planned pumped directly ahead of the spacer and cement, then circulate and condition the mud at this stage. Follow good cementing practices regarding pipe movement, pump rate and volume. Ensure gas readings are acceptable.

59) Remove the plastic covers in each end of the transport tube, and insert the tube containing the CST into the drill pipe.

NOTE: DO NOT TAKE THE TOOL OUT OF TRANSPORT TUBE! DO NOT TRY TO LOAD THE CST INTO THE DRILLPIPE IN ANY WAYS OTHER THAN DESCRIBED BELOW !

60) Lower the transport tube into the drill pipe until the flange of the transport tube is resting on the shoulder of the tool joint.

61) For use with 6 5/8” drill pipe, or with tool joints with female threads wider than the flange diameter, support the flange with suitable object on top of the tool joint to ease removal of tube after placing the CST.

62) Use a broomstick, pipe or suitable rod to push the CST from the tube and into the drill pipe below the tube. Required length is minimum 1,5 m to extrude the CST from transport tube.

63) Exercise caution not to drop or loose anything into the well !

64) Remove the transport tube from drill pipe tool joint.

65) Load the appropriate size wiper dart into drill pipe behind the CST.

NOTE: Do not use any other dart than the genuine CST wiper dart!

66) If option b) selected, M/U cement stand and prepare for the cement job.

67) Displace the CST to spot at planned depth (if option b) is selected pump spacer and cement now)

68) Maximum pump rate in 5", 5 ½" and larger: Maximum1500 lpm. In 3 ½" drill pipe, or when the CST exits the stinger maximum 500 lpm.

69) As CST is placed POOH adequately to ensure that the tool is not impacted by the work string in the following operations. 5 m is recommended.

70) NOTE: Do not allow work string to contact the CST at any stage after placement ! This may compromise the performance.

71) If option b) was selected, break out cement stand and continue spotting the cement plug.

72) If option a) was selected circulate and condition the mud as per step 4 now. Then proceed with cement job following plug placement best practices.

73) Allow plug to rest without any disturbance until adequately set.

74) Return the transport tube to the nearest Halliburton base.

2.11 Plug Setting Recommendations

1. **Cement Volume: Pumping sufficient volume is one of the biggest causes of plug failures.**
   - *Open hole*: HOC + 50% excess over gauge to account for washouts, (if not calipered).
   - *Cased Hole*: 10 bbls to compensate for mud contamination.

2. **If plug is not being set on a firm base, set a CST or spot a Viscous Reactive Pill (VRP),** the same length as the proposed plug, to act as a base.

3. **Drill pipe and stinger should be drifted for accurate displacement.** Include using a latch-down indicator sub (ball catcher) to achieve accurate displacement.

4. **Wash over the plug interval.** Rotate and reciprocate down over the entire interval at maximum rate, dependent on well conditions.

5. **Minimise any shutdowns to keep the mud in a fluidised condition.** This will help to maximise mud removal efficiency when placing cement.

6. **Use a side-port diverter tool** to direct the flow outwards, minimising intermixing and providing jetting action. DO NOT USE A MULE SHOE WITH NARROW SLOTS.

7. **Plug height should be limited to 500 ft.** The extra time taken to pull slowly out of the plug increases the risk of cementing-in the cementing assembly.

8. **Use 2-7/8" or 3 ½" stinger** on the end of the drill pipe to minimise stripping the plug when POOH. The recommended length is 1.5 x plug length. When in highly deviated or horizontal holes, centralising the stinger will prevent dead areas of mud on the low side of the hole.

9. **Pump minimum of 40 bbls of spacer ahead of the plug** and required volume behind to balance & separate the mud from the cement. It is best to keep the spacer weight almost equal to the cement weight in horizontal holes.

10. **Pump spacer, cement and displacement at maximum possible rates** with the cement unit, however **do not over displace** - slow rate down prior to end of calculated displacement.

11. **Use side entry sub/swivel** or top-drive cement head to enable rotation of the drill pipe whilst pumping cement and displacement - **DO NOT reciprocate.**

12. **POOH slowly (30 - 60 ft/min)** and break connections carefully to avoid stripping plug until 500ft above the cement plug. Avoid any delay's

13. **Do not circulate on top of plug.** Break circulation slowly so as to minimise disturbance of plug. Never reverse circulate when setting an open-hole plug.

14. **Waiting on cement** should be at least the time for the plug to reach 500 psi. or 3000 psi. for a Kick-off plug. Best results have been obtained by a mandatory 24 hr WOC before disturbing the plug.

2.12 7 inch Liner

The following program out lines the cementation of 7in liner on Longtom-4 well, a. Single slurry mixed at 15ppg with ABC HTB cement will be utilised

Revision History

Draft 1	5th June 2008	Initial programs
Draft 2	6th August 2008	Changed liner setting depths.
Revision 1	7th August 2008	Changed cement recipe
Revision 2	8th August 2008	Changed spacer volumes
Revision 3	10th August 2008	Changed 7in weight and setting depth
Revision 4	15th August 2008	Pumping cement through Perforations
Revision 5	16th August 2008	Excess is hanged Zero
Revision 6	16th August 2008	7in Liner Second stage cement job through EZSV

2.13 7in Liner

Second Stage cementing through Perforations with an EZSV

JOB PARAMETERS

Casing measured depth:	2,670m	BHST temperature:	116°C
True vertical depth:	2,394m	BHCT temperature:	77°C
Depth to top cement:	2,570m	Drilling mud type:	ACCOLADE
		Drilling mud density:	12.00ppg

WELLBORE

Casing/Tubing (Inner string job)

0-2,550m	5 1/2in 24.7ppf Tubing (S-135 XT-57)
2,550-2,670m	3 1/2in 15.5ppf Tubing
2,570-2,670m	7in 29ppf Casing (L 80 Hydrill 513)

Annulus

0-2,590m	10 3/4in 55.5ppf casing (9.76in ID)
2,590-2,600m	13.5in open hole (10% excess)
2,600-2,670m	9.5in open hole (10% excess)

SPACERS

Spacer #1 - 30.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(64m OH annular fill / 4min contact time)
		Estimated Pv: 1cP

Spacer #2 - 60.0bbl Tuned Spacer E+ at 13.50ppg

Freshwater	31.77 gal/bbl	(128m OH annular fill / 8min contact time)
Tuned Spacer E+	13.80 lb/bbl	Estimated Pv: 30cP
Barite	274.56 lb/bbl	Estimated Yp: 26lbs/100ft²
Musol E	1.00 gal/bbl	
Sem-7	0.70 gal/bbl	

Spacer #3 - 10.0bbl Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	(21m OH annular fill / 1min contact time)

Contact times are based on the displacement rate.

CEMENT

Composition		**Properties**	
Adelaide Brighton HTB		Surface density:	15.00 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.27 ft³/sk
Halad -413L	15.00 gal/10bblMF	Total mixing fluid:	5.78 gal/sk
SCR-100L	4.50 gal/10bblMF	Thickening time (70 Bc):	6:30
Gascon	16.00 gal/10bblMF	Free water vert at 77°C:	Trace %
Freshwater	5.24 gal/sk	Fluid loss at 77°C:	<50 cc/30min
NF-6	0.25 gal/10bblMF	Comp strength at 103°C	50 psi in 7 hrs
		Comp strength at 103°C	500 psi in 8 hrs

Comp strength at 103°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Cement

7in Casing / 10 3/4in casing volume	20 m x 0.1474 bbl/m	2.9 bbl
7in Casing / 13.5in hole volume	10 m x 0.4247 bbl/m	4.2 bbl
7in Casing / 13.5in hole excess	0.10 x 4.2 bbl	0.4 bbl
7in Casing / 9.5in hole volume	70 m x 0.1315 bbl/m	9.2 bbl
7in Casing / 9.5in hole excess	0.10 x 9.2 bbl	0.9 bbl
	Total slurry volume =17.7 bbl	

Quantity of cement	17.7 bbl x 5.6146 / 1.27 ft³/sk	78 sks
Quantity of mix fluid	78 sks x 5.78 gal/sk	10.7 bbl

Displacement

5 1/2in Tubing volume	2,550 m x 0.0695 bbl/m	177.2 bbl
3 1/2in Tubing volume	120 m x 0.0216 bbl/m	2.6 bbl
	Total displacement volume =179.8 bbl	

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1.5 x Casing volume:	269.7	8.0	34
Pump spacers:	100.0	8.0	13
Mix & pump cement:	17.7	5.0	4
Pump displacement:	179.8	8.0	22

Total job time (including circulation):	***103 min***	***1hr 43min***
Minimum cement thickening time (with 2hr safety factor):	***146 min***	***2hr 26min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Freshwater

Freshwater	30 bbl

Spacer #2 - Tuned Spacer E+

Freshwater	45.4 bbl
Tuned Spacer E+	828 lb
Barite	16,474 lb
Musol E	60 gal
Sem-7	42 gal

Spacer #3 - Freshwater

Freshwater	10 bbl

Cement

Adelaide Brighton HTB	3 MT(77 ft³)
CFR-3L	3 gals
Halad -413L	16 gals
SCR-100L	5 gals

Gascon	17 gals
Freshwater	9.7 bbl
NF-6	1 gals

2.13.1 7in Liner Option 2 Job Procedure

75) Rig up surface lines

76) Establish circulation by pumping 5bbls of fresh water

77) Pressure test lines to 3000psi

78) Pump 60bbl of base oil

79) Pump 60bbls of 13.5ppg Tuned Spacer E+

80) Pump 10bbls of freshwater

81) Mix and pump 18bbl of single slurry mixed at 15ppg

82) Pump 10bbls of freshwater

83) Displace with ~170bbls and, slow pump rate down for final 10bbls to 2bpm .

84) Prepare for a balanced plug on top of EZSV.

2.13.2 Guidelines for Preparation of Tuned Spacer E+

Note: A clean pit is required to mix the tuned spacer.

85) Load 45.5bbls of freshwater in a clean pit

86) Add 828lbs of Tuned spacer E+ Blend and agitate

87) Wait 45-60 mins to allow Tuned spacer E+ to yield before adding Barite

88) Add 16474lbs of Barite (continue to agitate and circulate until spacer is homogeneous. Approximately 30mins)

89) Add 60gals of Musol E, and 42gals of SEM-7 surfactants slowly when casing is near bottom. Agitate very slowly to eliminate foaming

90) Check density with mud balance, ~13.5ppg.

2.14 Plug on top of EZSV in 7in Liner

JOB PARAMETERS

Plug bottom MD:	2,665m	BHST temperature:	116°C
Plug bottom TVD:	2,394m	BHCT temperature:	95°C
Plug top MD:	2,550m	Drilling mud type:	Acolade Mud
Plug length:	115m	Drilling mud density:	12.00ppg
Plug length with DP in:	136m		

WELLBORE

Workstring

0-2,545m	5 1/2in 24.7ppf tubing
2,545-2,665m	3 1/2in 15.5ppf tubing

Annulus

0-2,665m	7in 29ppf casing (6.184in ID)

SPACERS

Spacer - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	20.0bbl ahead and 54.6bbl behind to balance (241m annular fill / 3min contact time)

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		**Properties**	
Adelaide Brighton HTB		Surface density:	15.00 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.27 ft³/sk
SCR-100L	4.50 gal/10bblMF	Total mixing fluid:	5.78 gal/sk
Gascon	16.00 gal/10bblMF	Thickening time (70 Bc):	6:30
Halad -413L	15.00 gal/10bblMF	Comp strength at 109°C	50 psi in 7 hrs
Freshwater	5.24 gal/sk	Comp strength at 109°C	500 psi in 8 hrs
NF-6	0.25 gal/10bblMF	Comp strength at 109°C	1,800 psi in 24 hrs

VOLUME CALCULATIONS

Cement

7in casing volume	115 m x 0.1219 bbl/m	14.0 bbl
		Slurry volume =14.0 bbl
Quantity of cement	14.0 bbl x 5.6146 / 1.27 ft³/sk	62 sacks
Quantity of mix fluid	62 sacks x 5.78 gal/sk	8.5 bbl

Displacement

5 1/2in tubing volume	1,744 m x 0.0695 bbl/m	121.2 bbl
		Total displacement volume =121.2 bbl

PUMPING SCHEDULE & TIMES

	Volume (bbl)	Rate (bbl/min)	Time (min)
Make up lines & pressure test:	N/A	N/A	30
Circulate 1 x bottoms up:	74.8	6.0	12
Pump spacers ahead:	20.0	6.0	3
Mix & pump cement:	14.0	5.0	3
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	54.6	6.0	9
Pump displacement:	121.2	6.0	20
Pull workstring 20 m above TOC:	135m	9.1m/min	15
Circulate workstring clean:	170.0	6.0	28

Total job time (including circulation):	***125 min***	***2hr 05min***
Minimum cement thickening time (with 2hr safety factor):	***200 min***	***3hr 20min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer - Freshwater (Including 10.0 bbl pit loss)

Freshwater	84.6 bbl

Cement

Adelaide Brighton HTB	3 MT(77 ft³)
CFR-3L	3 gals
SCR-100L	4 gals
Gascon	14 gals
Halad -413L	13 gals
Freshwater	7.7 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.14.1 Job Procedure – Plug

1. Pick up the work string to one meter form EZSV.
2. Rig up surface lines.
3. Establish circulation, Pump 5bbls Fresh water.
4. Test lines 200/2000psi.
5. Pump 15bbls Fresh water.
6. Mix and pump 14bbls of 15ppg cement slurry.
7. Displace with 54.5bbls of fresh water to balance
8. Continue to displace with 120bbls of well fluid to create a balanced plug

* Note: Displacement fluid is 1bbl under to aid in dry POOH.

9. Pick up one stand above top of cement.
10. Reverse circulate 2 times tubing volumes clean before POOH

2.15 Guidelines for Preparation of Cement Mixwater

From time to time it is necessary to pre-mix the additives and mixwater for a cement job instead of adding them "on the fly" via the cement unit LAP system.

NOTE: If mixing in displacement tanks, Econolite and HR-6L are not compatible in their neat form. Ensure there is a sufficient level of water for dilution before mixing chemical additives or add them separately to the mixwater

Lab testing has indicated that there is a maximum age, or retention time, **for batch mixed mixwaters,** after which they should not be used. This is because slurry properties such as thickening time may be affected, and it applies particularly to the "high fineness" additives: Silicalite Liquid, Micromax, Gascon 469 and Microbond in conjunction with cement retarders. Therefore when pre-mixing additives the following guidelines need to be followed:

19. Prepare drillwater/seawater in a **clean pit/blender** and check fluid has the appropriate chloride content.

Freshwater	<1000	Ppm
Seawater	<20000	Ppm

20. Add 2 gal of defoamer (NF-6) per 10 bbl of water.
21. During the casing/liner run add the additives below in the following order.
    j) Extenders – **Silicalite Liquid / Gascon 469 / Econolite Liquid**, **WG-17LXP**
    k) Friction Reducers – **CFR-3L**.
    l) Fluid Loss/Gas Migration Additives – **Halad additives / GasStop-L**.

22. Once the casing is on bottom or the liner hanger has been set and just prior to/during mud conditioning add the additives below in the following order.
    g) Viscosifying Additives – **SA-533**. This must be added very slowly to prevent lumps forming and should be added directly to a tub and not though a mixing hopper, since a build up of partially hydrated polymer can form inside the gooseneck. Note that SA-533 requires at least 30 mins to yield.
    h) Weighting Materials – **Micromax**.

23. Immediately prior to the jobs commencement add the retarder and then any expansive additives. Circulate the pit with maximum agitation.
    g) Retarders – **HR-6L / HR-25L / SCR-100L**.
    h) Expansive Additives - **MicroBond**.

24. If any foaming is observed add additional anti-foaming agents as required.

NOTE: Once the retarder has been added Halliburton recommends that the maximum surface time of the mixwater should be no more than **8** hours. This is due to the retarder being attracted to the high surface area of the siliceous material in the extender. This has the effect of reducing the retardation effect of the retarder on the cement.It is recommended that if the mixwater with retarder is left for more than 8 hours on surface that it be dumped and a new batch mixed.
Mixwater that has been prepared without the addition of an extender or retarder can be kept for 24 hours. After 24 hours the mixwater should not be used for cementing operations unless authorised by a Halliburton engineer.

2.16 Plug Setting Recommendations

1. **Cement Volume: Pumping sufficient volume is one of the biggest causes of plug failures.**
   - *Open hole*: HOC + 50% excess over gauge to account for washouts, (if not calipered).
   - *Cased Hole*: 10 bbls to compensate for mud contamination.

2. **If plug is not being set on a firm base, set a CST or spot a Viscous Reactive Pill (VRP),** the same length as the proposed plug, to act as a base.

3. **Drill pipe and stinger should be drifted for accurate displacement.** Include using a latch-down indicator sub (ball catcher) to achieve accurate displacement.

4. **Wash over the plug interval.** Rotate and reciprocate down over the entire interval at maximum rate, dependent on well conditions.

5. **Minimise any shutdowns to keep the mud in a fluidised condition.** This will help to maximise mud removal efficiency when placing cement.

6. **Use a side-port diverter tool** to direct the flow outwards, minimising intermixing and providing jetting action. DO NOT USE A MULE SHOE WITH NARROW SLOTS.

7. **Plug height should be limited to 500 ft.** The extra time taken to pull slowly out of the plug increases the risk of cementing-in the cementing assembly.

8. **Use 2-7/8" or 3 ½" stinger** on the end of the drill pipe to minimise stripping the plug when POOH. The recommended length is 1.5 x plug length. When in highly deviated or horizontal holes, centralising the stinger will prevent dead areas of mud on the low side of the hole.

9. **Pump minimum of 40 bbls of spacer ahead of the plug** and required volume behind to balance & separate the mud from the cement. It is best to keep the spacer weight almost equal to the cement weight in horizontal holes.

10. **Pump spacer, cement and displacement at maximum possible rates** with the cement unit, however **do not over displace** - slow rate down prior to end of calculated displacement.

11. **Use side entry sub/swivel** or top-drive cement head to enable rotation of the drill pipe whilst pumping cement and displacement - **DO NOT reciprocate.**

12. **POOH slowly (30 - 60 ft/min)** and break connections carefully to avoid stripping plug until 500ft above the cement plug. Avoid any delay's

13. **Do not circulate on top of plug.** Break circulation slowly so as to minimise disturbance of plug. Never reverse circulate when setting an open-hole plug.

14. **Waiting on cement** should be at least the time for the plug to reach 500 psi. or 3000 psi. for a Kick-off plug. Best results have been obtained by a mandatory 24 hr WOC before disturbing the plug.

3.0 7” Liner OptiCem Simulation

3.1 Design

3.2 Customer Information

Customer	Australian Drilling Associates
Sales Order	
Job Configuration	Conventional Cement
Well Name	Longtom
Well Number	4
Start Time	Friday, 8 August 2008
County	
State	Victoria
UWI/API	
Country	Australia
H2S Present	Unknown
CO2 Present	Unknown
Customer Representative	Carl MacDonald
Service Representative	Prem kumar Salibendla
Job Name	Longtom-4 7IN Liner Cement job
Injection Path	Casing

3.3 Parameters

Fracture Zone Measured Depth	4648.0	m
Fracture Zone Gradient	0.883	psi/ft
Fracture Zone Density	17.00	lb/gal
Fracture Zone Pressure	7812	psi
Reservoir Measured Depth	4648.0	m
Reservoir Pore Pressure	4779	psi
Reservoir Zone Gradient	0.540	psi/ft
Reservoir Zone Density	10.40	lb/gal
Back Pressure	0	psi
Rate Redesign Safety Factor		psi
Height - Mud Line to Mean Sea Level	55.0	m
Height - Mean Sea Level to Rotary Kelly Bushing	41.6	m
Sea Water Density	8.54	lb/gal
Returns To Surface		
Simulator Volume Increment	10.00	bbl
Entered Standoff	70.00	%
Shoe Track Length	24.0	m
Additional Pressure to Seat Plug	500	psi
Eccentricity Enhanced Calculations	No	
Erodibility Enhanced Calculations	No	
Use Coupling Information	No	

3.4 Wellbore Geometry

MD	Hole Ex.	Hole Dia.	Casing OD	Casing ID	Casing Weight
m	%	in	in	in	lb/ft
2570.0	0.00	9.760	5.500	4.670	24.700
2590.0	0.00	9.760	7.000	6.276	26.000
3970.0	10.00	9.715	7.000	6.276	26.000
4648.0	10.00	9.715	7.000	6.184	29.000

3.5 Pumping Schedule

No.	Description	Density	Rate	Volume	Duration
		lb/gal	bpm	bbl	min
1	Accolade Mud	12.00	6.00	0.00	0.00
2	Base Oil	6.72	6.00	60.00	10.00
3-1	Tuned Spacer E+	13.50	6.00	60.00	10.00
3-2	Shutdown				5.00
4	Fresh water	8.33	5.00	10.00	2.00
5	Cement Slurry	15.00	5.00	303.49	60.70
	Top Plug				
6	Fresh water	8.33	6.00	10.00	1.67
7-1	Completion Brine	11.00	6.00	414.09	69.02
7-2	Completion Brine	11.00	2.00	10.00	5.00
	Total			867.58	163.38

3.6 Fluid Rheology - Generalized Herschel Bulkley

Fluid	Temp.	m	n	Tau0	MuInf	Speed	Dial
	°C			lbf/(100*ft²)	cp	rpm	
Accolade Mud	49	0.50	0.50	6.30	45.73	300	88.00
						200	69.00
						100	46.00
						6	10.00
						3	8.00
						600	133.00
Cement Slurry	25	0.50	0.50	0.91	51.86	300	67.00
						200	46.00
						100	25.00
						6	5.00
						3	2.00
	65	0.50	0.50	0.38	53.56	300	63.00
						200	43.00
						100	23.00
						6	4.00
						3	1.00

3.7 Fluid Rheology - Bingham Plastic

Fluid	Temp.	PV	YP
	°C	cp	lbf/(100*ft²)
Base Oil	25	0.99	1.00
Tuned Spacer E+	21	31.05	26.60
	82	29.70	26.30
Fresh water	25	0.99	0.99

3.8 Fluid Rheology - Newtonian

Fluid	Temp.	Viscosity
	°C	cp
Completion Brine	25	1.00

3.9 Temperature Input

Calculate BHCT Method

Surface	27	°C
Outlet	40	°C
BHCT	99	°C
BHST	128	°C

3.10 Temperature Profile, Temperature Profile 1

Measured Depth	Casing Circulating Temperature	Annulus Circulating Temperature
m	°C	°C
0.0	27	40
4648.0	99	99

3.11 Fracture Gradient/Pore Pressure Profile

Measured Depth	True Vertical Depth	Pore Pressure	Reservoir Gradient	Reservoir Density	Fracture Gradient	Fracture Density	Fracture Pressure
m	m	psi	psi/ft	lb/gal	psi/ft	lb/gal	psi
2590.0	2345.1	4077	0.530	10.20	0.883	17.00	6795
4648.0	2696.2	4779	0.540	10.40	0.883	17.00	7812

3.12 Critical Velocity - Fracture Zone

Stage Description	Critical Rate	Critical Velocity	GHB Effective Reynold's Number
	bpm	ft/s	
Accolade Mud	26.08	9.86	3424.70
Base Oil	4.75	1.80	4516.47
Tuned Spacer E+	19.76	7.47	3846.94
Fresh water	4.24	1.60	4573.72
Cement Slurry	14.25	5.39	3046.51
Fresh water	4.24	1.60	4573.72
Completion Brine	0.00	0.00	9088.61

Based on annular segment at fracture zone MD of 4648.0 m.

3.13 Critical Velocity - Reservoir Zone

Stage Description	Critical Rate	Critical Velocity	GHB Effective Reynold's Number
	bpm	ft/s	
Accolade Mud	26.08	9.86	3424.70
Base Oil	4.75	1.80	4516.47
Tuned Spacer E+	19.76	7.47	3846.94
Fresh water	4.24	1.60	4573.72
Cement Slurry	14.25	5.39	3046.51
Fresh water	4.24	1.60	4573.72
Completion Brine	0.00	0.00	9088.61

Based on annular segment at reservoir zone MD of 4648.0 m.

4.0 Centralizers

4.1 Centralizer Parameters

Entered Standoff Profile
Entered Standoff 70.00 %

4.2 Centralizer Spacing/Standoff Calculations

No.	Centralizer Part Number	Type*	Spcng	MD	Hole Dev.	Hole Az.	Actual SO	Rest. Force	Casing Ten.
			m	m	°	°	%	lbf	lbf
				4648.0			70.00		
				0.0			70.00		

*BS - Bow Spring, R(S) - Rigid Solid, R(PB) - Rigid Positive Bar

5.0 Simulation

5.1 Volume and Pressure Results

Annulus fluid is heavier than casing fluid by 474 psi. Apply appropriate back pressure on casing if floating equipment does not hold properly.

5.2 Pumping Schedule - Modified Rates

No.	Description	Density	Rate	Volume	Duration
		lb/gal	bpm	bbl	min
1	Accolade Mud	12.00	6.00	0.00	0.00
2	Base Oil	6.72	6.00	60.00	10.00
3	Tuned Spacer E+	13.50	6.00	60.00	10.00
					5.00
4	Fresh water	8.33	5.00	10.00	2.00
5	Cement Slurry	15.00	5.00	303.49	60.70
6	Fresh water	8.33	6.00	10.00	1.67
7	Completion Brine	11.00	6.00	414.09	69.02
			2.00	10.00	5.00

If OptiCem-RT will be run during this job, enter this data in the Cement Job window and execute the simulator again.

5.3 Volume and Rate Calculations

Time	Surface Stage In	Surface Stage Out	Liquid Volume In	Total Volume Out	Liquid Rate In	Total Rate Out
min			bbl	bbl	bpm	bpm
0.02	2	1	0.10	0.10	6.00	0.00
15.00	3	1	90.00	90.00	6.00	0.00
25.80	4	1	124.00	124.00	5.00	0.00
39.00	5	1	190.00	190.00	5.00	0.00
59.00	5	1	290.00	299.92	5.00	0.00
79.00	5	1	390.00	408.88	5.00	0.00
88.78	6	1	440.00	458.70	6.00	0.00
100.45	7	1	510.00	512.58	6.00	0.00
117.12	7	1	610.00	610.00	6.00	0.00
133.78	7	1	710.00	710.00	6.00	0.00
150.45	7	1	810.00	810.00	6.00	0.00
161.59	7	1	864.00	864.00	2.00	0.00
163.40	7	1	867.58	867.58	0.00	0.00

5.4 Horsepower, Pressure, Freefall

Time	Liquid Volume In	Pump Output	Surface Pressure In	Surface Pressure Out	ECD @ TD	ECD @ Frac Zone	Free Fall Height
min	bbl	hp	psi	psi	lb/gal	lb/gal	m
0.02	0.10	116.8	780	0	13.07	13.07	0.0
15.00	90.00	202.1	1360	0	13.07	13.07	0.0
25.80	124.00	144.5	1165	0	12.97	12.97	0.0
39.00	190.00	83.8	669	0	12.97	12.97	0.0
59.00	290.00	1.8	0	0	13.10	13.10	142.7
79.00	390.00	1.8	0	0	12.99	12.99	271.7
88.78	440.00	2.2	0	0	12.85	12.85	269.1
100.45	510.00	2.2	0	0	12.80	12.80	37.1
117.12	610.00	107.1	714	0	12.91	12.91	0.0
133.78	710.00	102.6	683	0	12.50	12.50	0.0
150.45	810.00	106.1	707	0	12.52	12.52	0.0
161.59	864.00	31.3	624	0	12.36	12.36	0.0
163.40	867.58	0.0	1137	0	12.00	12.00	0.0

5.5 Gas Flow Potential

Gas Flow Potential	5.71	
at Reservoir Zone Measured Depth	4648.0	m

Based on analysis of the above outlined well conditions, this well is considered to have a MODERATE gas flow problem. Wells in this category fall into flow condition 2.

5.6 Pressure to Break Circulation - Hydrostatic Pressures

Total Depth	5611	psi
Fracture Zone	5611	psi

5.7 Pressure to Break Circulation

Gel Strength	Surface Pressure	Total Depth Additional Pressure	Fracture Zone Additional Pressure
lbf/(100*ft²)	psi	psi	psi
25.00	616		374
50.00	1231		748
75.00	1847		1123
100.00	2462		1497
200.00	4925		2994

5.8 Hook Load

	Time	Volume	Hook Load
	min	bbl	lbf
Static	0.02	0.10	181372
Maximum	61.00	300.00	193816
Minimum	10.00	60.00	167125

5.9 Final Position of Stages

Stage Description	Annular Length	Casing Length	Annular Top MD	Casing Top MD
	m	m	m	m
Accolade Mud	1942.5		0.0	
Base Oil	289.6		1942.5	
Tuned Spacer E+	289.6		2232.1	
Fresh water	48.3		2521.7	
Cement Slurry	2078.0	24.0	2570.0	4624.0
Fresh water		82.0		4542.0
Completion Brine		4542.0		0.0

5.10 Final Annular Fluid Density

Measured Depth	Density	Quality	Hydrostatic Gradient
m	lb/gal	%	lb/gal
-0.0	12.00	0.00	12.00
116.1	12.00	0.00	12.00
204.9	12.00	0.00	12.00
382.9	12.00	0.00	12.00
494.5	12.00	0.00	12.00
639.3	12.00	0.00	12.00
750.4	12.00	0.00	12.00
842.6	12.00	0.00	12.00
931.4	12.00	0.00	12.00
1025.5	12.00	0.00	12.00
1122.0	12.00	0.00	12.00
1218.5	12.00	0.00	12.00
1315.1	12.00	0.00	12.00
1404.6	12.00	0.00	12.00
1493.6	12.00	0.00	12.00
1583.0	12.00	0.00	12.00
1671.8	12.00	0.00	12.00
1760.6	12.00	0.00	12.00
1849.9	12.00	0.00	12.00
1942.5	6.72	0.00	12.00
2028.0	6.72	0.00	11.79
2116.8	6.72	0.00	11.59
2206.2	6.72	0.00	11.41
2280.4	13.50	0.00	11.40
2376.9	13.50	0.00	11.48
2473.5	13.50	0.00	11.54
2531.8	8.33	0.00	11.56
2570.0	8.33	0.00	11.53
2621.6	15.00	0.00	11.57
2711.0	15.00	0.00	11.65
2820.0	15.00	0.00	11.74
2915.4	15.00	0.00	11.81
3016.2	15.00	0.00	11.86
3122.8	15.00	0.00	11.90
3224.3	15.00	0.00	11.92
3330.3	15.00	0.00	11.93
3431.9	15.00	0.00	11.92
3537.7	15.00	0.00	11.92
3624.3	15.00	0.00	11.91
3741.0	15.00	0.00	11.91
3829.1	15.00	0.00	11.92
3948.2	15.00	0.00	11.93
4021.7	15.00	0.00	11.94
4124.4	15.00	0.00	11.96
4229.2	15.00	0.00	11.97
4331.0	15.00	0.00	11.97
4436.6	15.00	0.00	11.97
4539.0	15.00	0.00	11.98

Measured Depth	Density	Quality	Hydrostatic Gradient
m	lb/gal	%	lb/gal
4643.9	15.00	0.00	12.00
4647.8	15.00	0.00	12.00

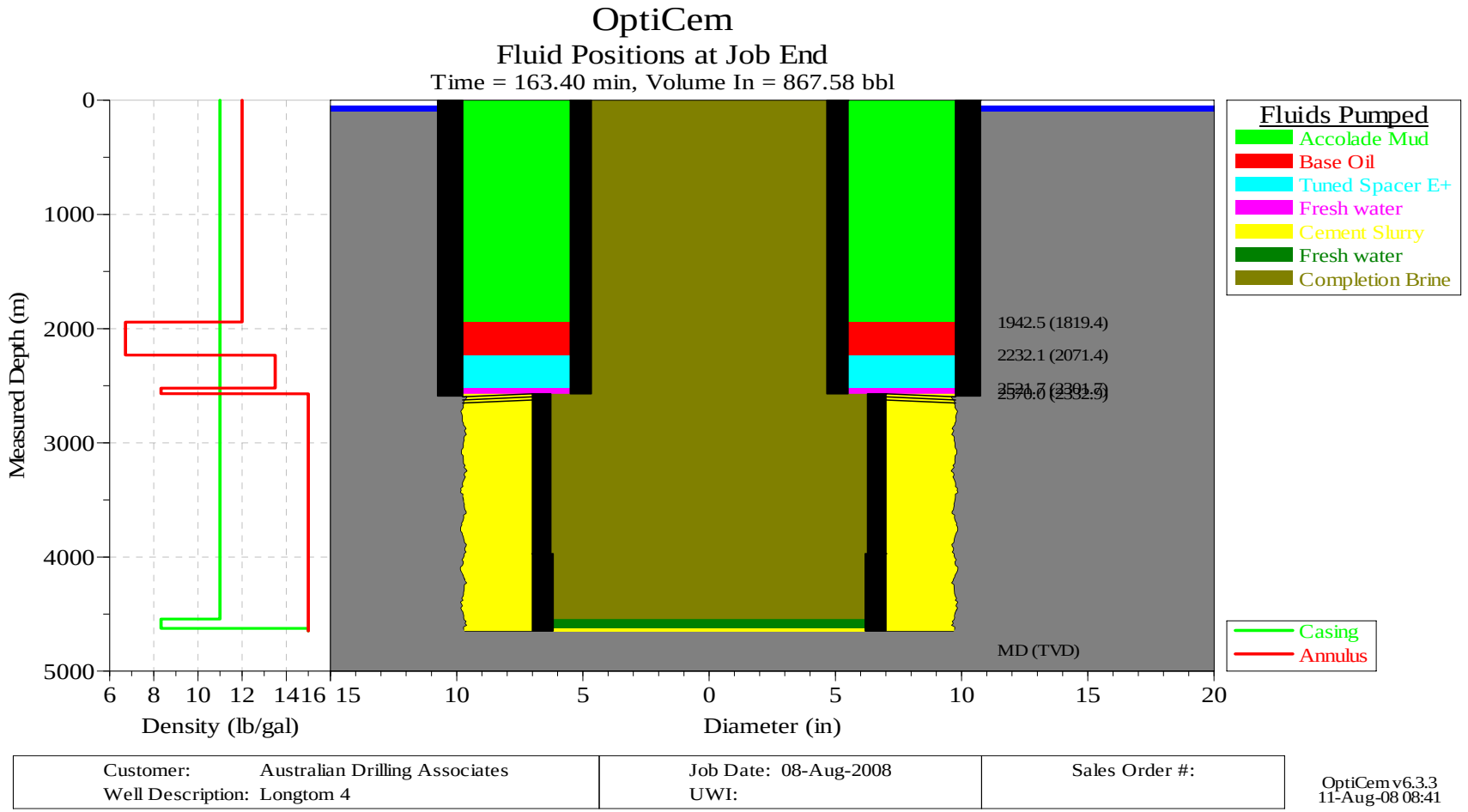
6.0 Job

6.1 Stage Summary - Pump Pressure and ECD

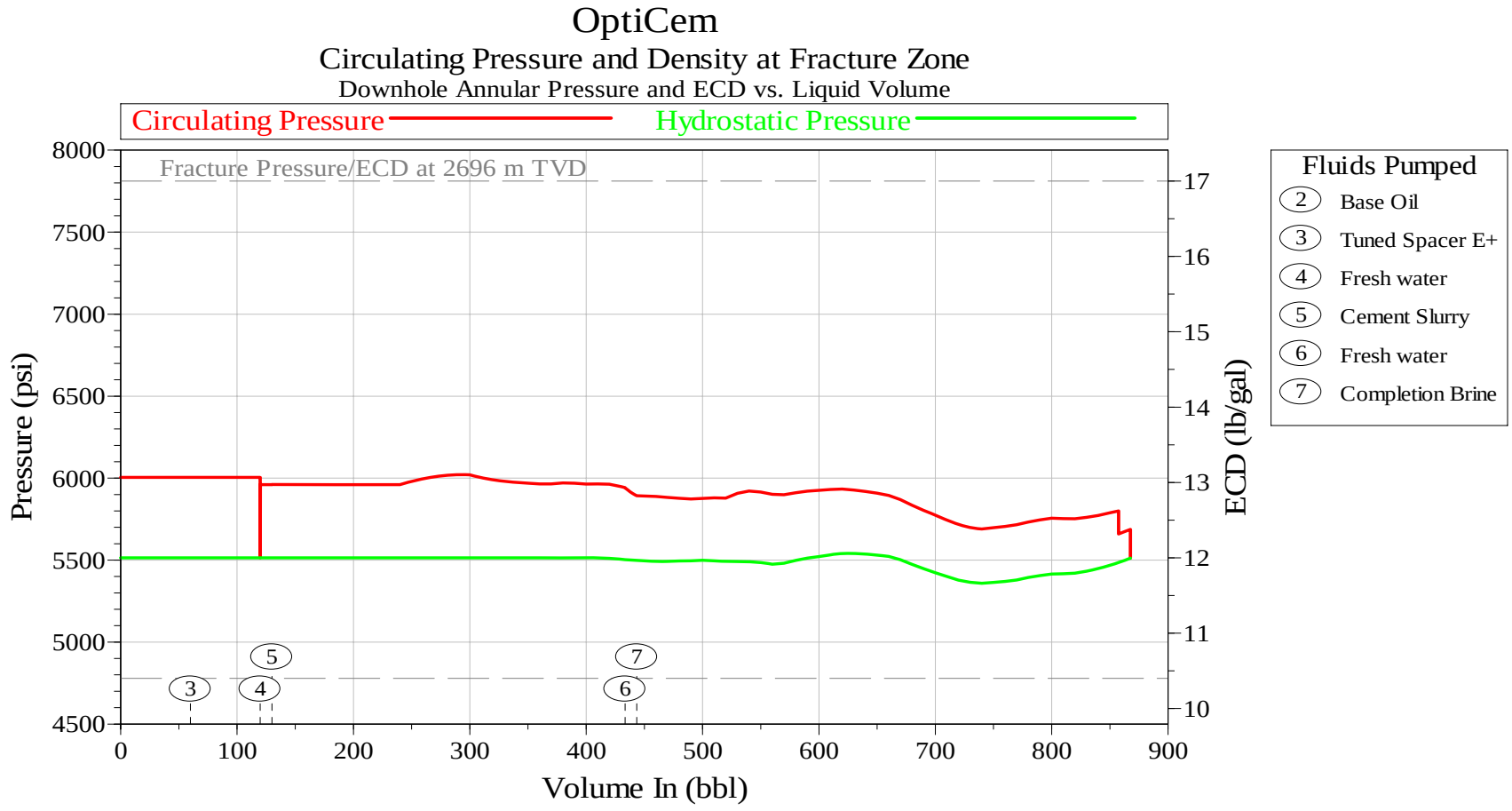
Number	Average Pump Pressure	Minimum Pump Pressure	Maximum Pump Pressure	Average ECD	Minimum ECD	Maximum ECD
	psi	psi	psi	lb/gal	lb/gal	lb/gal
2	1050	793	1393	13.07	13.07	13.07
3	1413	1268	1513	12.68	12.00	13.07
4	1180	485	1207	12.97	12.97	12.97
5	305	15	1222	13.00	12.93	13.10
6	15	15	15	12.88	12.82	12.93
7	522	15	815	12.63	12.00	12.91

7.0 Attachments

7.1 Fluid Positions (graph)



7.2 Circ Pressure & Density - Frac Zone (graph)



Customer: Australian Drilling Associates Well Description: Longtom 4	Job Date: 08-Aug-2008 UWI:	Sales Order #:

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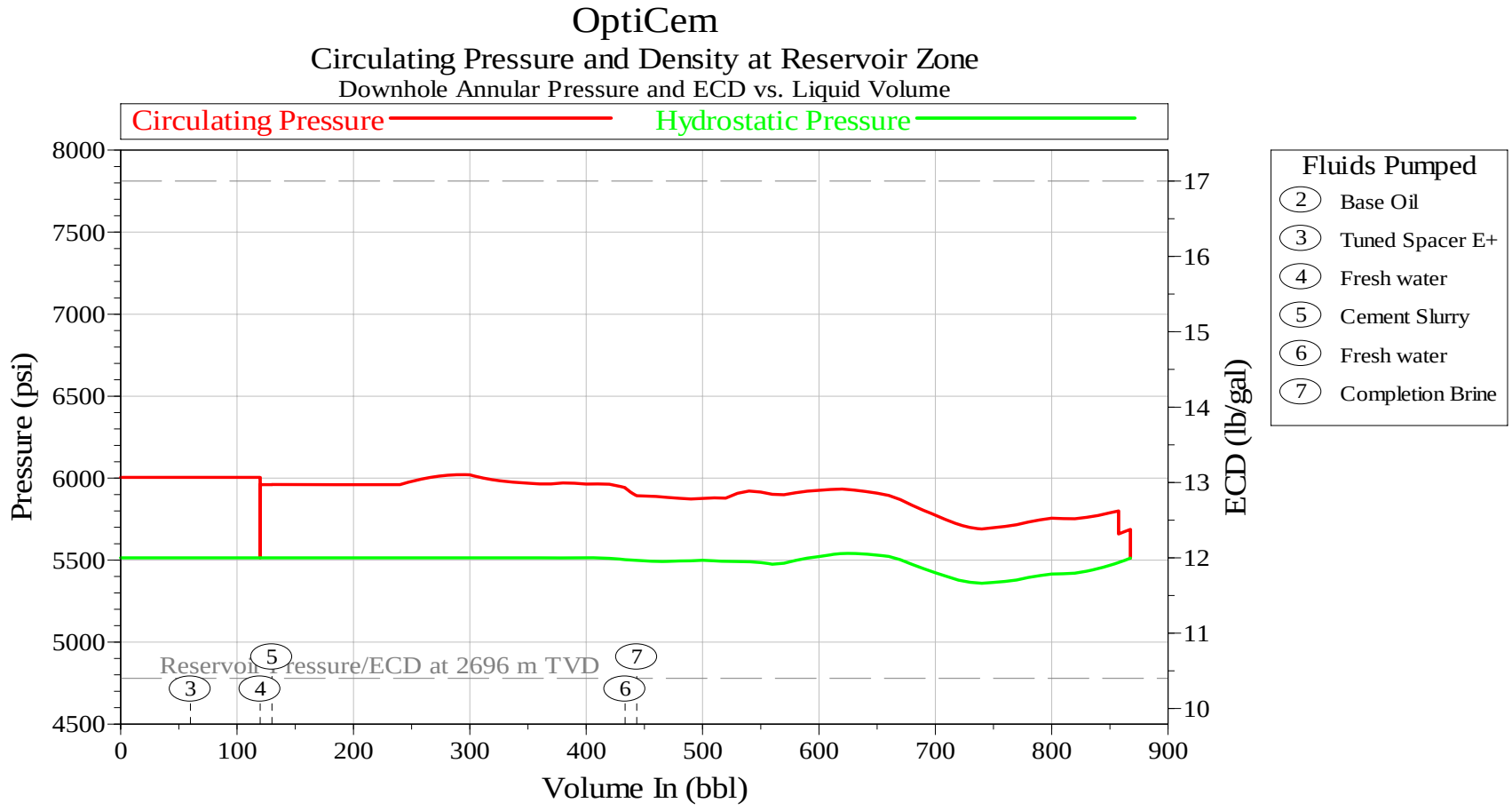
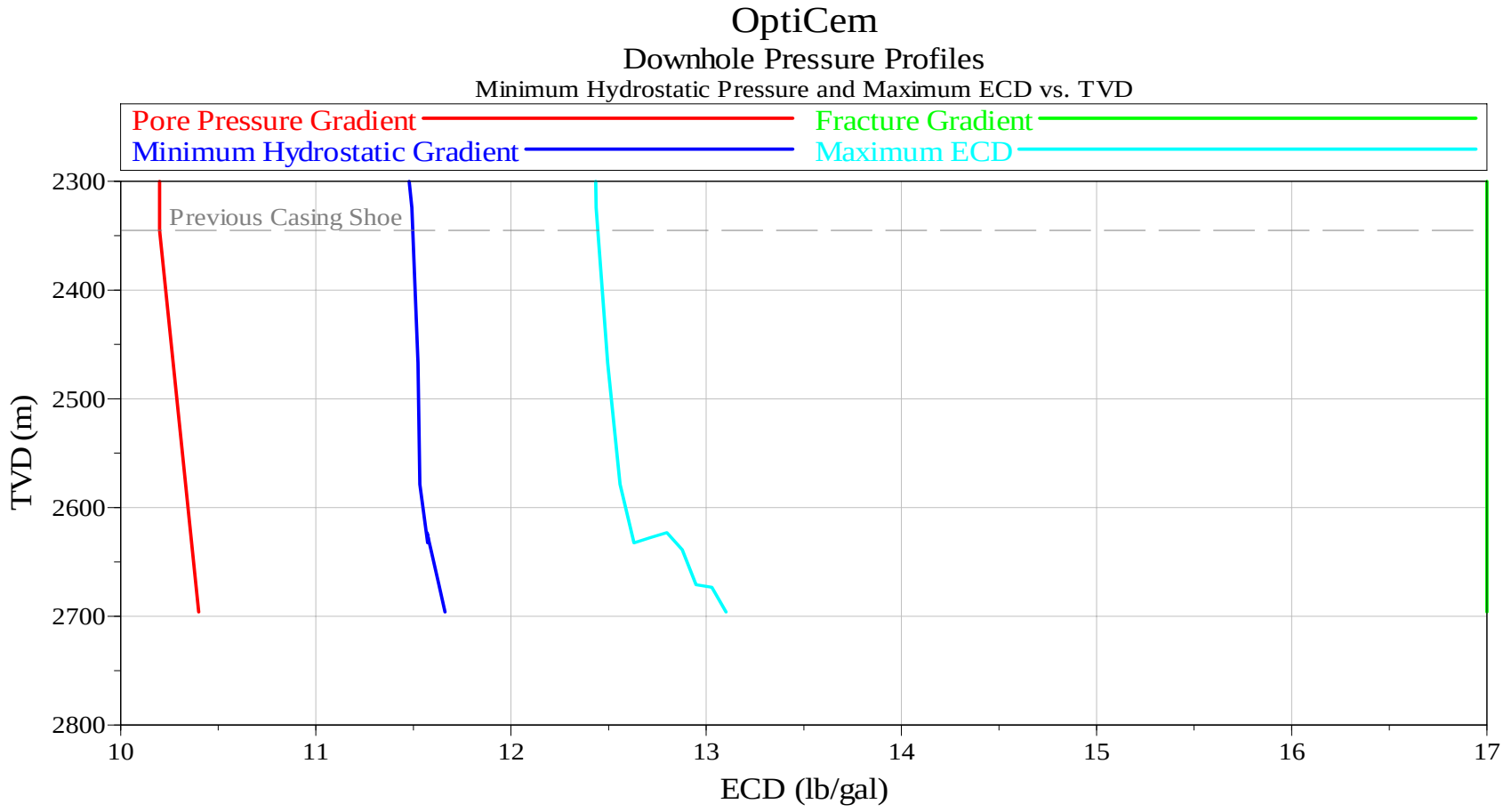
11-Aug-08 08:41

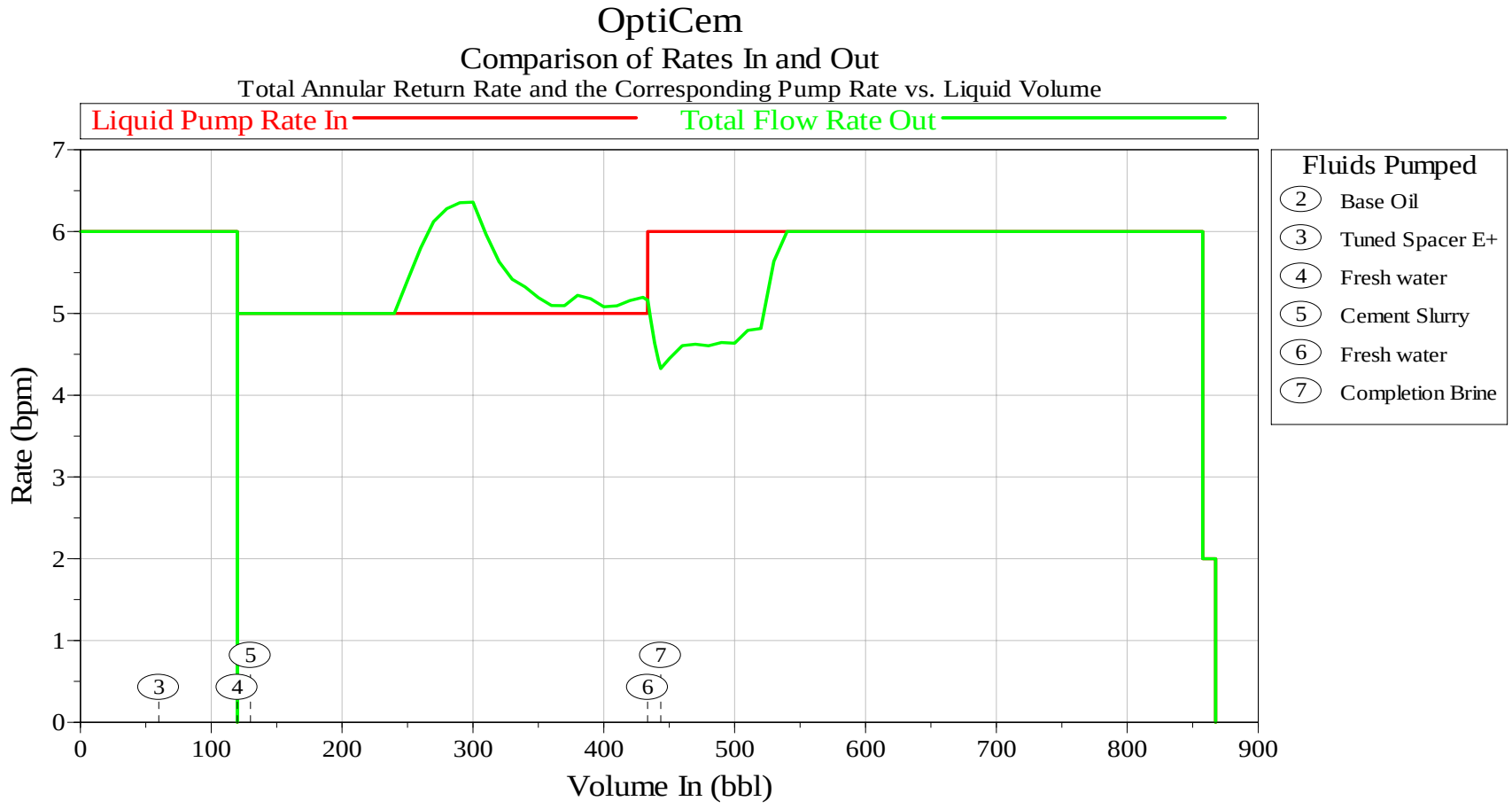
7.3 Circ Pressure & Density - Res Zone (graph)



7.4 Downhole Pressure Profiles (graph)



7.5 Comparison of Rates In and Out (graph)



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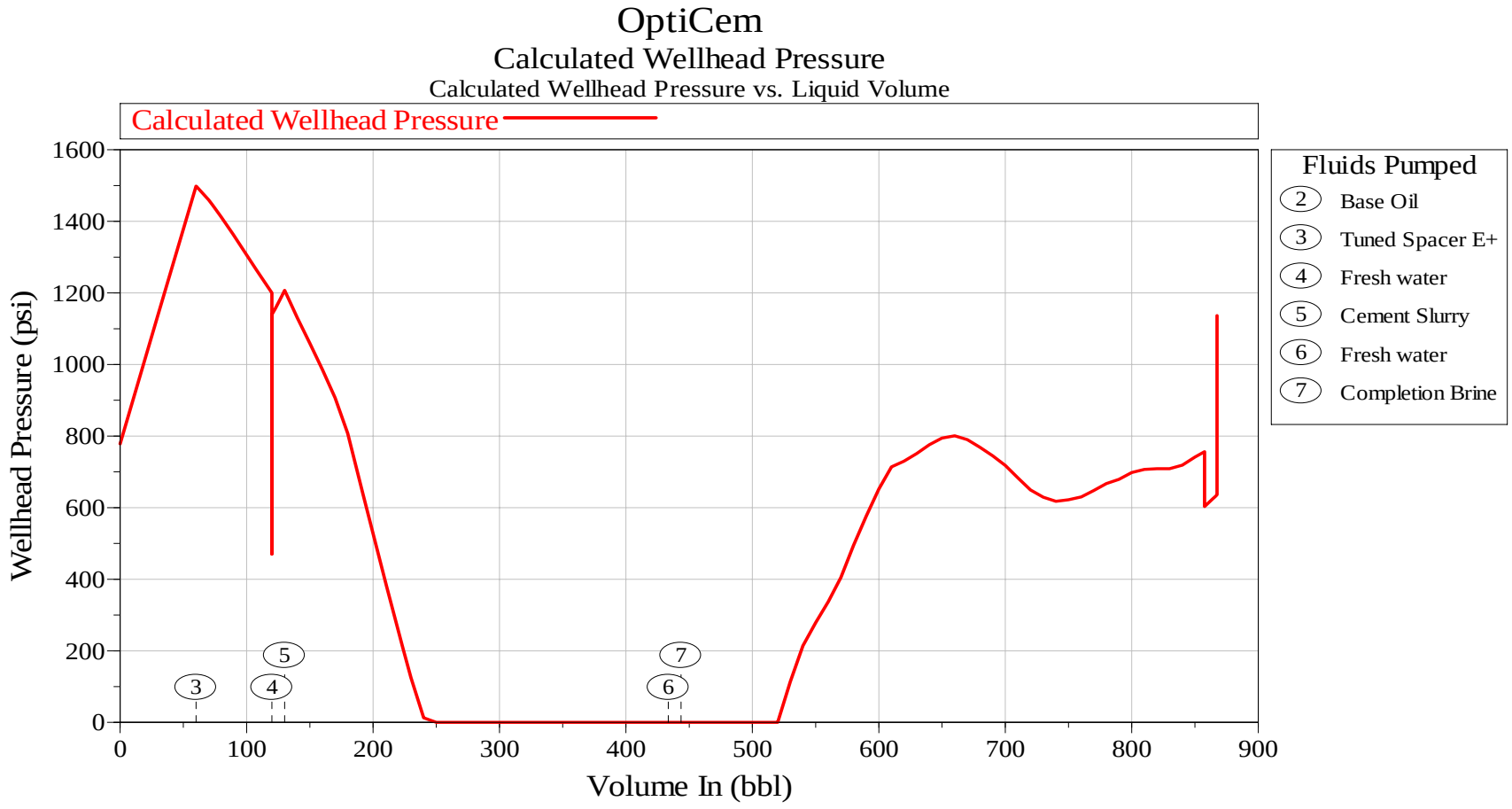
11-Aug-08 08:41

7.6 Calculated Wellhead Pressure (graph)



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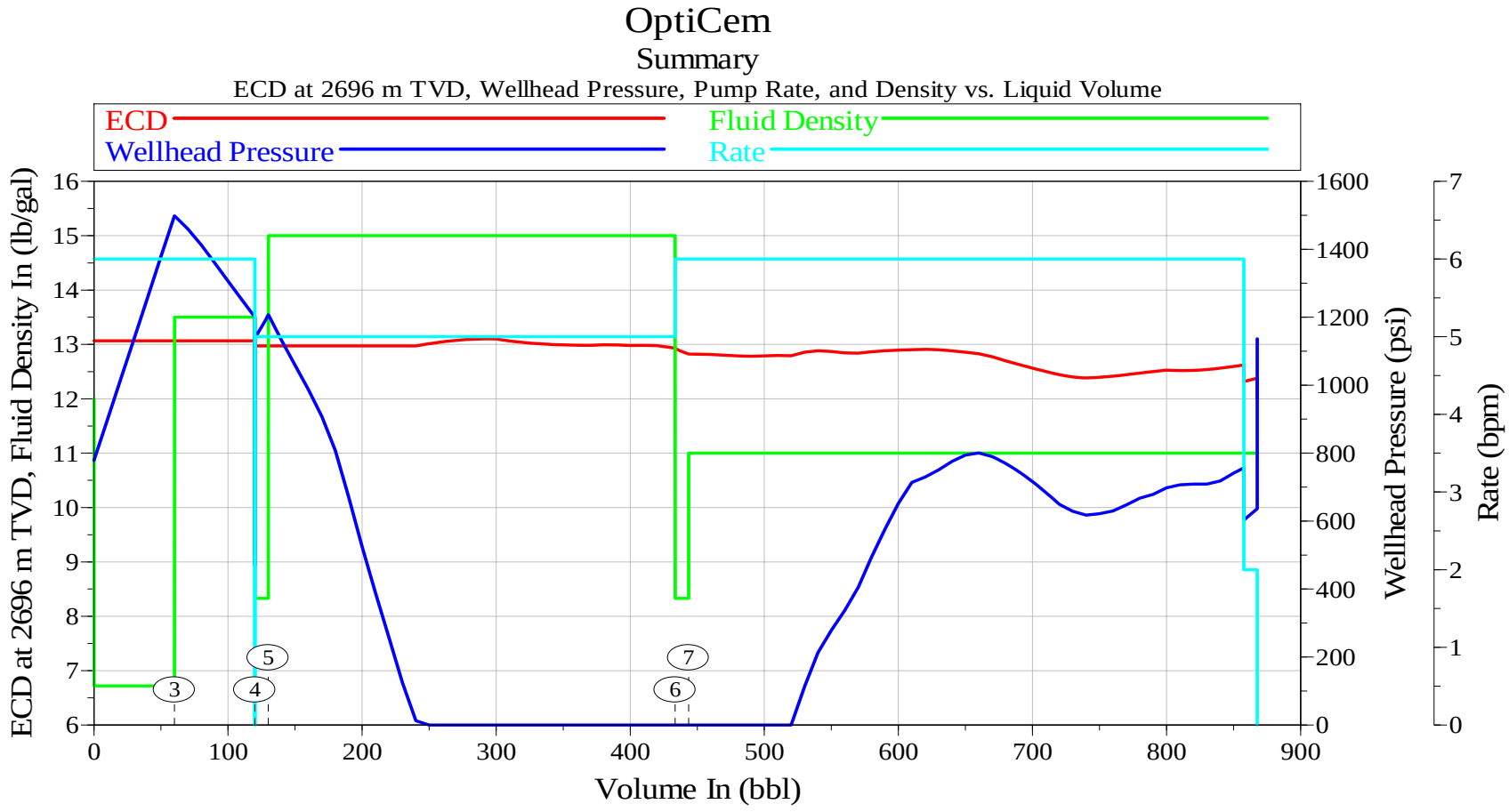
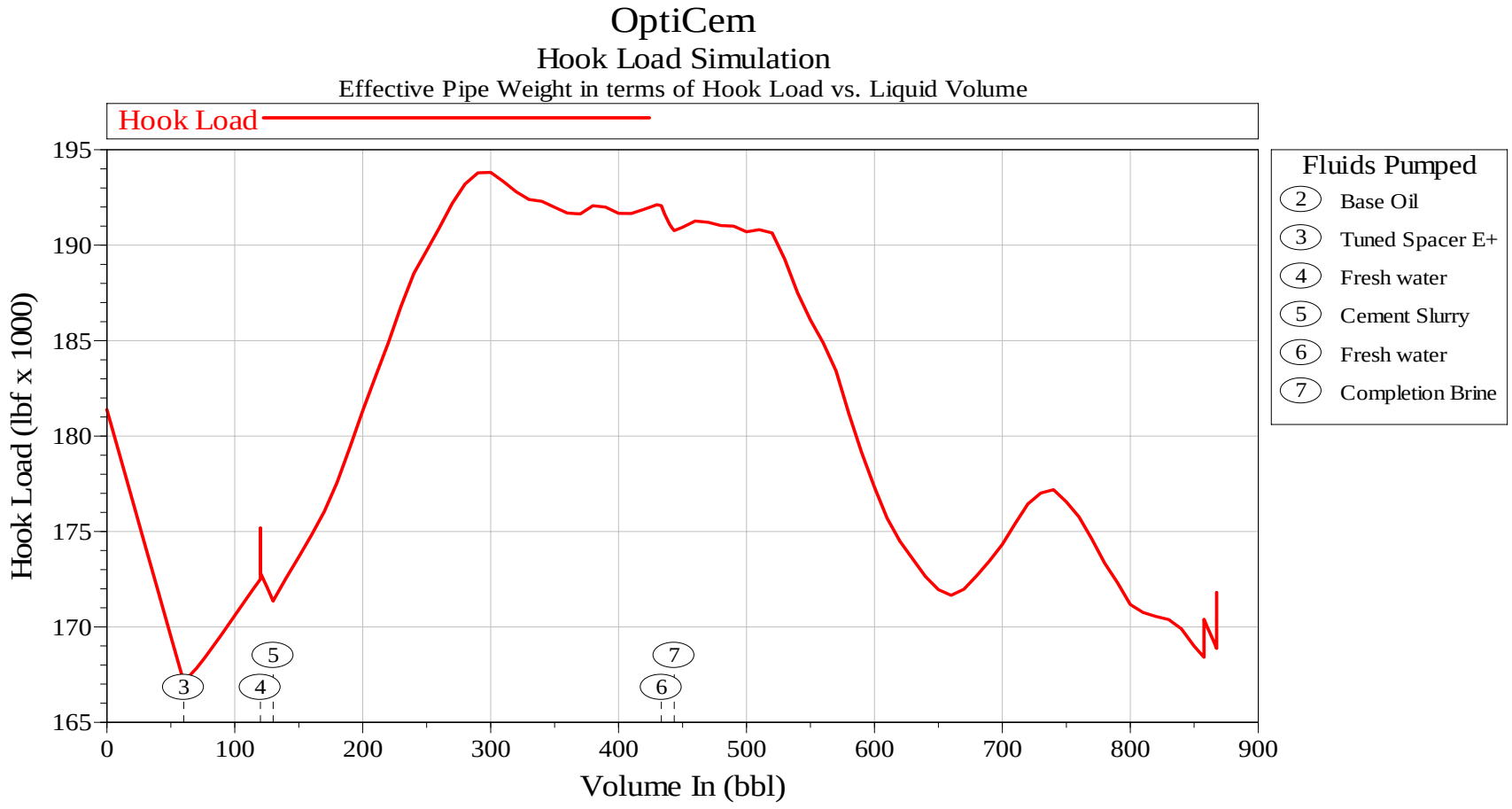
11-Aug-08 08:41

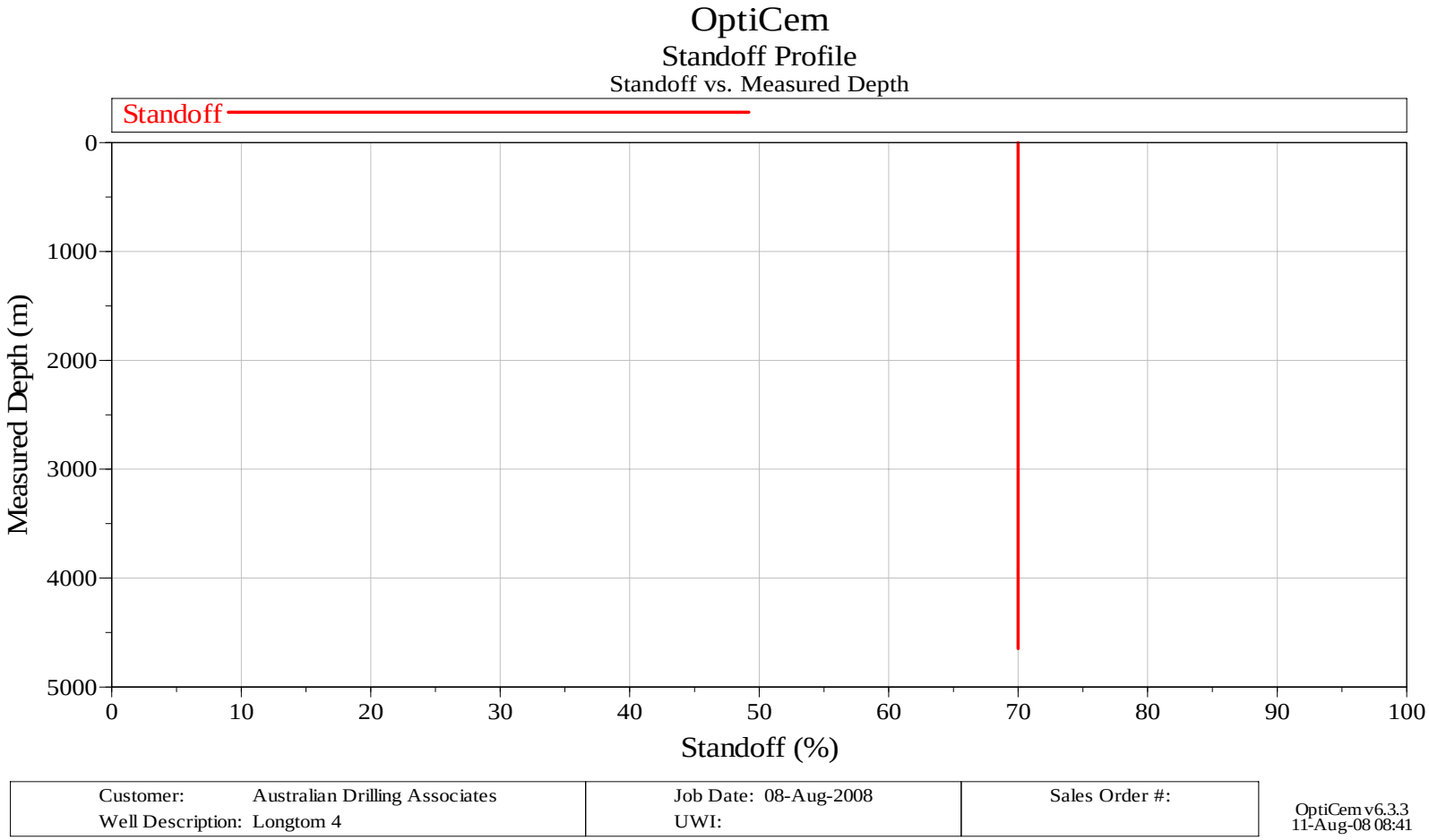
7.7 Summary (graph)



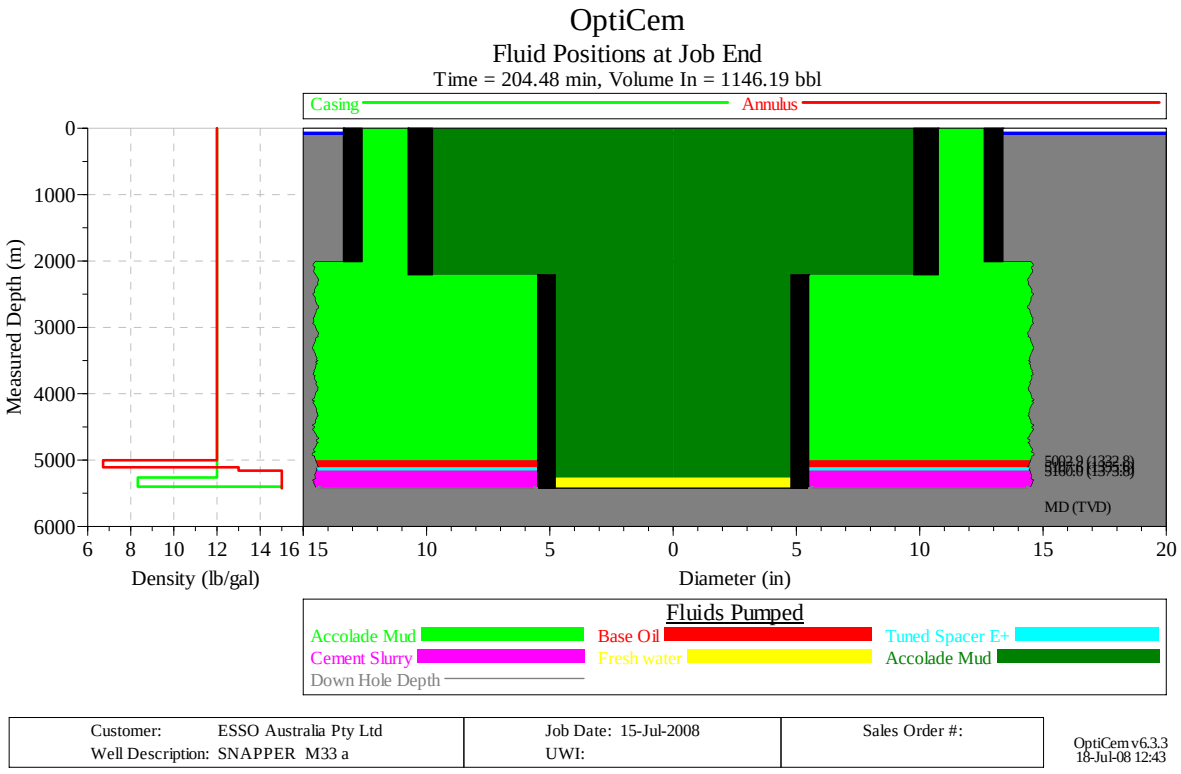
7.8 Hook Load Simulation (graph)

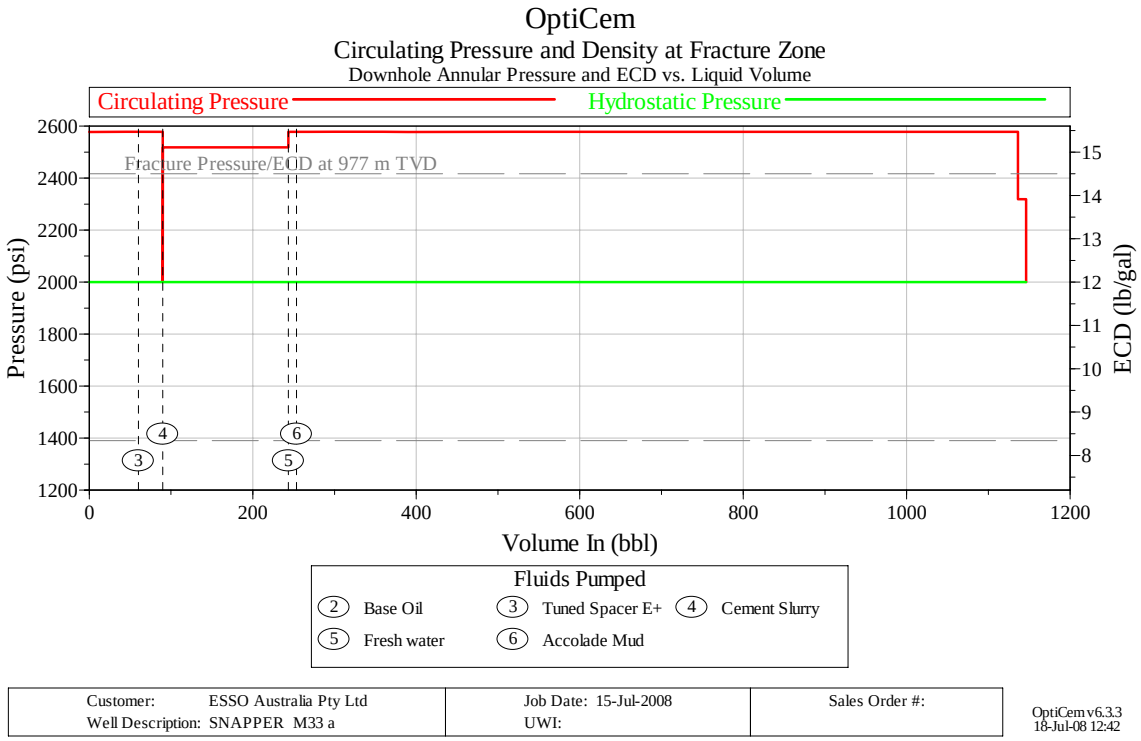


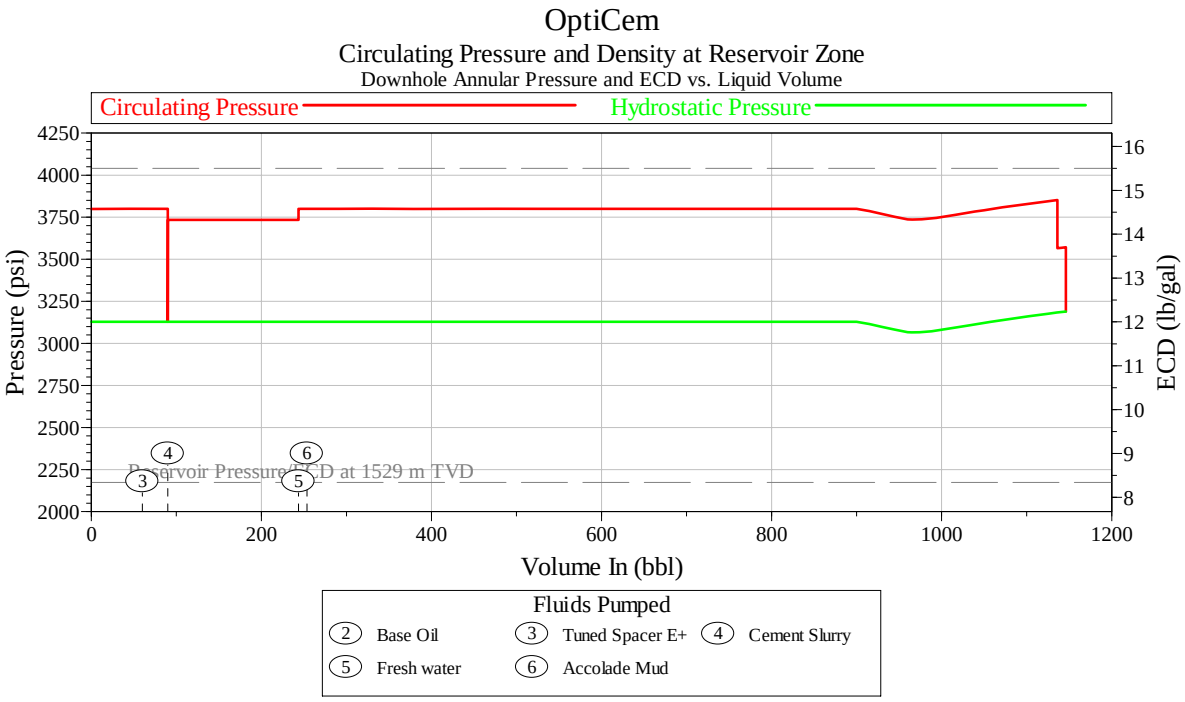
7.9 Standoff Profile (graph)

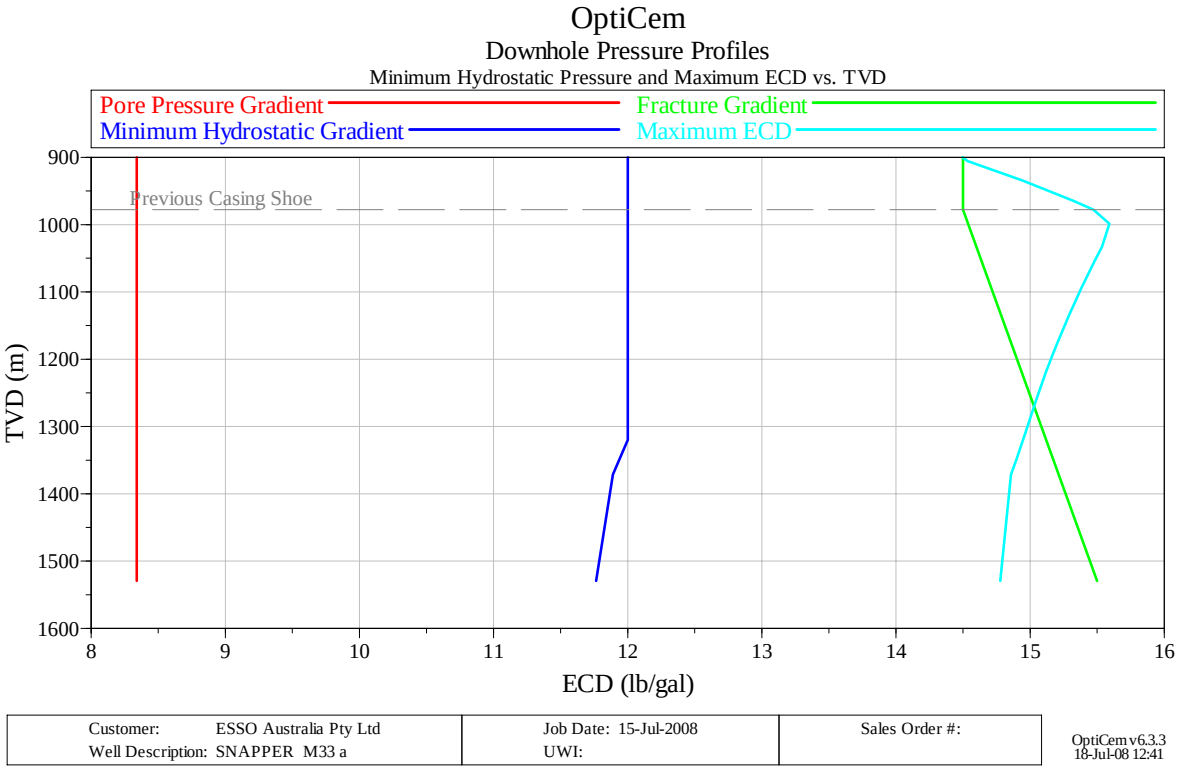


7.9.1 Option 1 Displacing with Mud

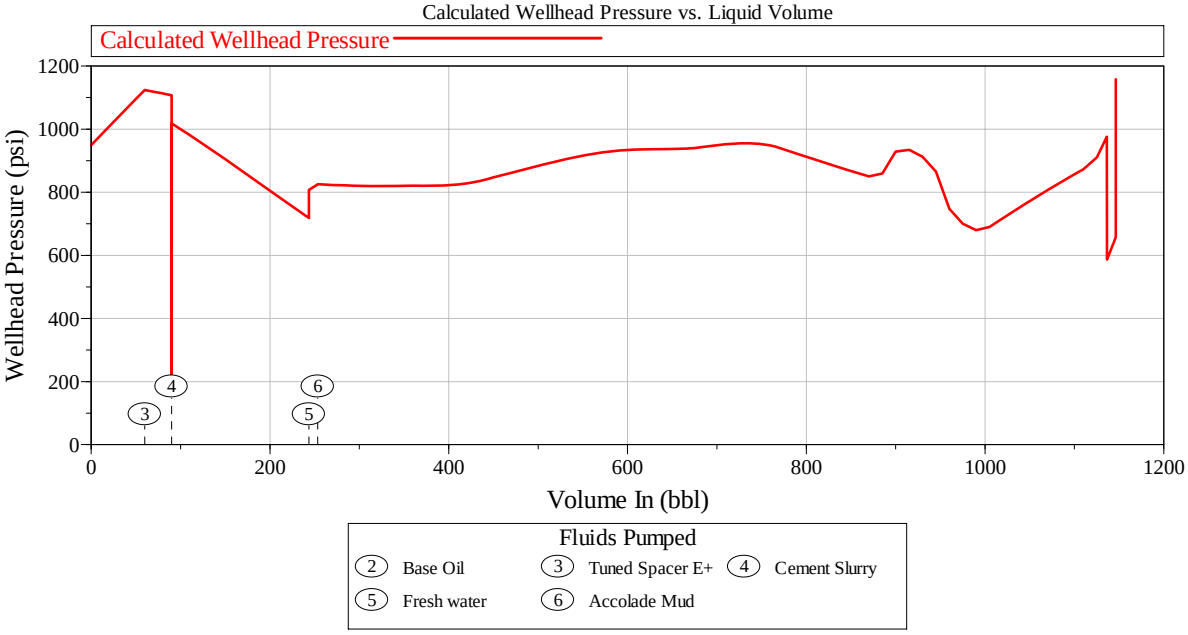





OptiCem
Circulating Pressure and Density at Reservoir Zone
Downhole Annular Pressure and ECD vs. Liquid Volume
Circulating Pressure
Hydrostatic Pressure
Pressure (psi)
ECD (lb/gal)
Reservoir Pressure/ECD at 1529 m TVD
Volume In (bbl)
Fluids Pumped
2 Base Oil
3 Tuned Spacer E+
4 Cement Slurry
5 Fresh water
6 Accolade Mud
Customer: ESSO Australia Pty Ltd
Well Description: SNAPPER M33 a
Job Date: 15-Jul-2008
UWI:
Sales Order #:
OptiCem v6.3.3
18-Jul-08 12:41


OptiCem
Downhole Pressure Profiles
Minimum Hydrostatic Pressure and Maximum ECD vs. TVD
Pore Pressure Gradient
Fracture Gradient
Minimum Hydrostatic Gradient
Maximum ECD
Previous Casing Shoe
TVD (m)
ECD (lb/gal)
Customer: ESSO Australia Pty Ltd
Well Description: SNAPPER M33 a
Job Date: 15-Jul-2008
UWI:
Sales Order #:
OptiCem v6.3.3
18-Jul-08 12:41

OptiCem
Calculated Wellhead Pressure
Calculated Wellhead Pressure vs. Liquid Volume



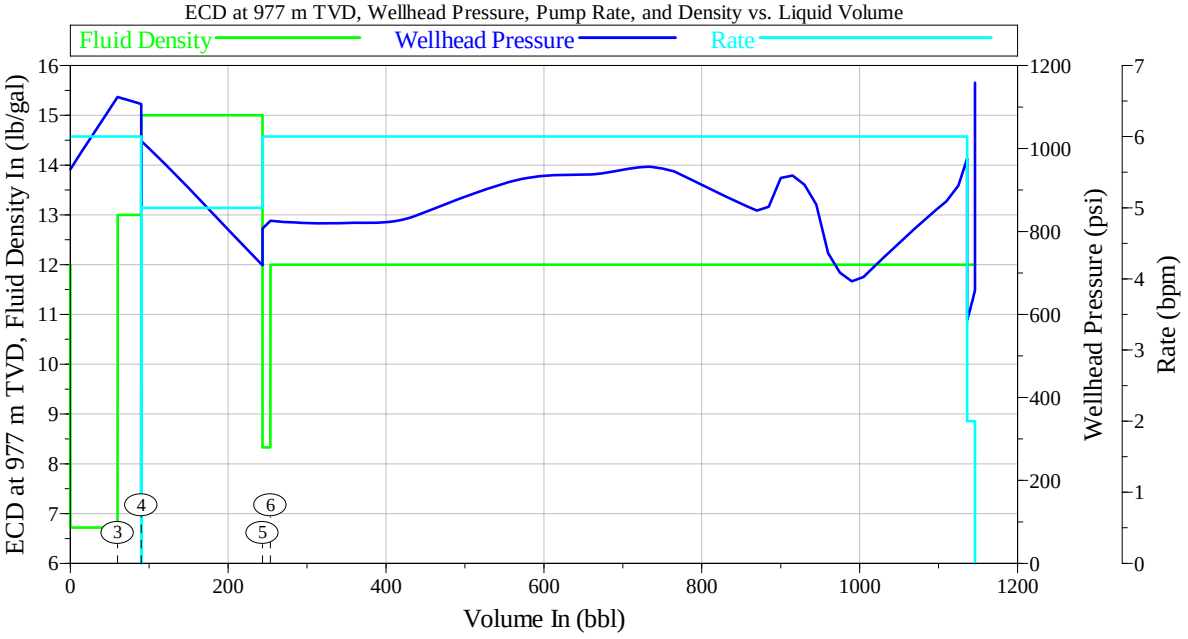
Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Accolade Mud		

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:41

OptiCem
Summary
ECD at 977 m TVD, Wellhead Pressure, Pump Rate, and Density vs. Liquid Volume



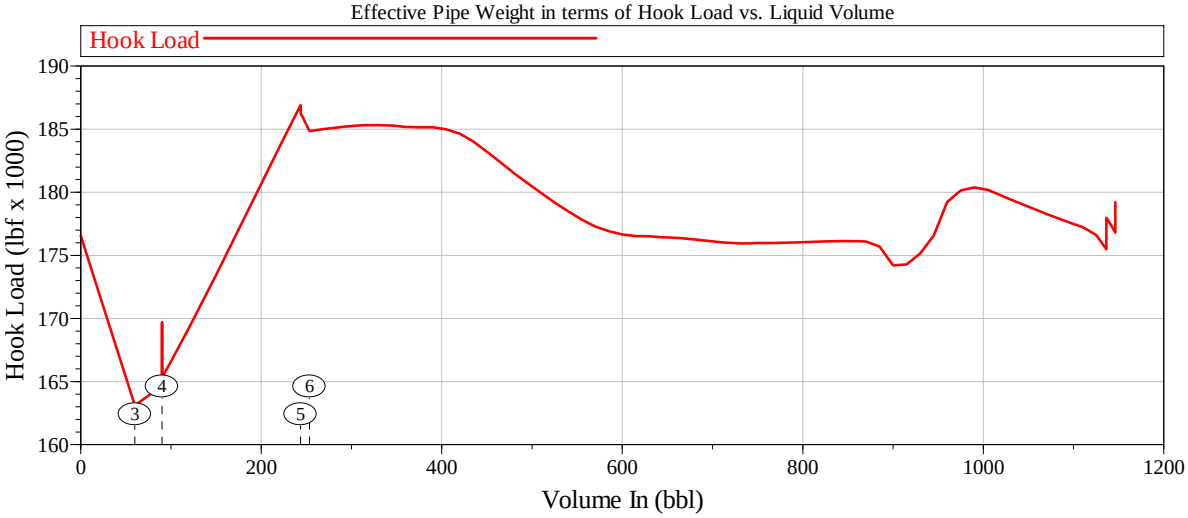
Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:40

OptiCem

Hook Load Simulation

Effective Pipe Weight in terms of Hook Load vs. Liquid Volume



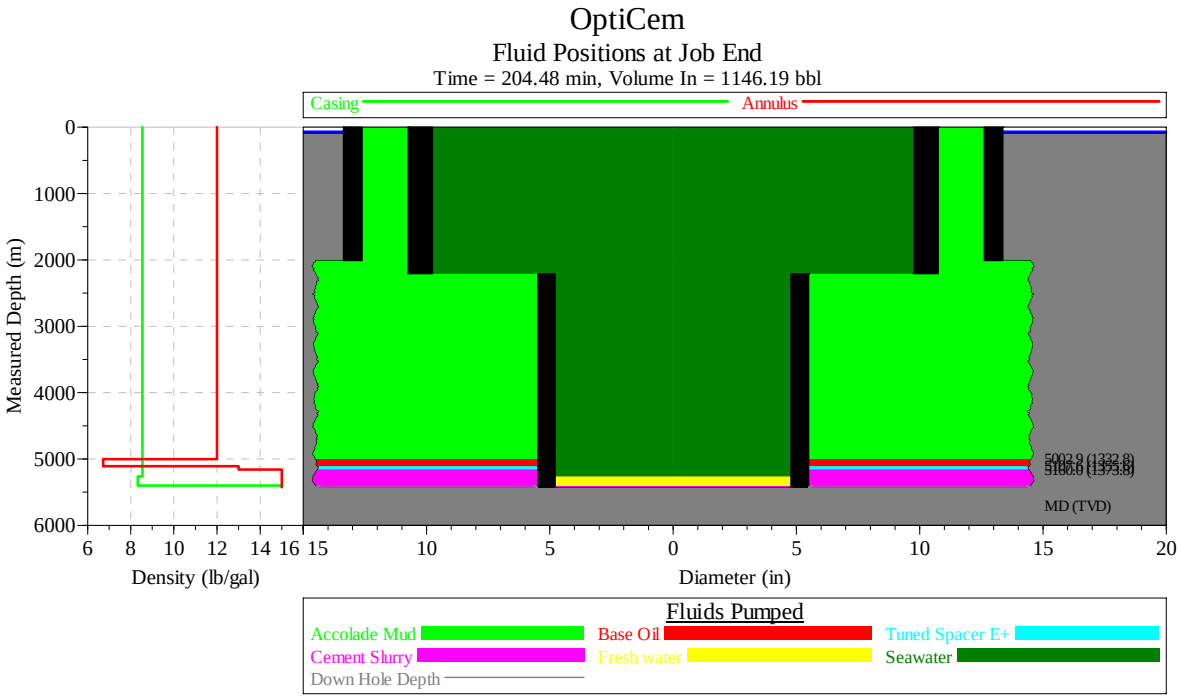
Fluids Pumped

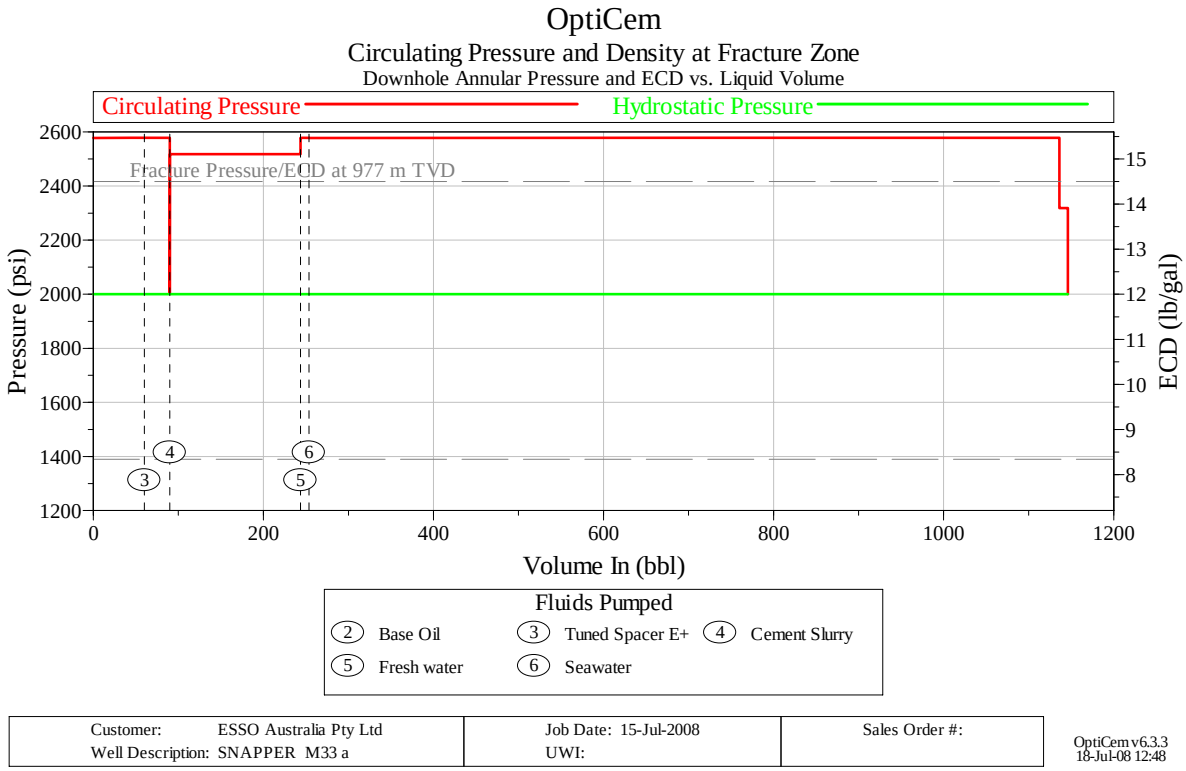
2 Base Oil	3 Tuned Spacer E+	4 Cement Slurry
5 Fresh water	6 Accolade Mud	

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

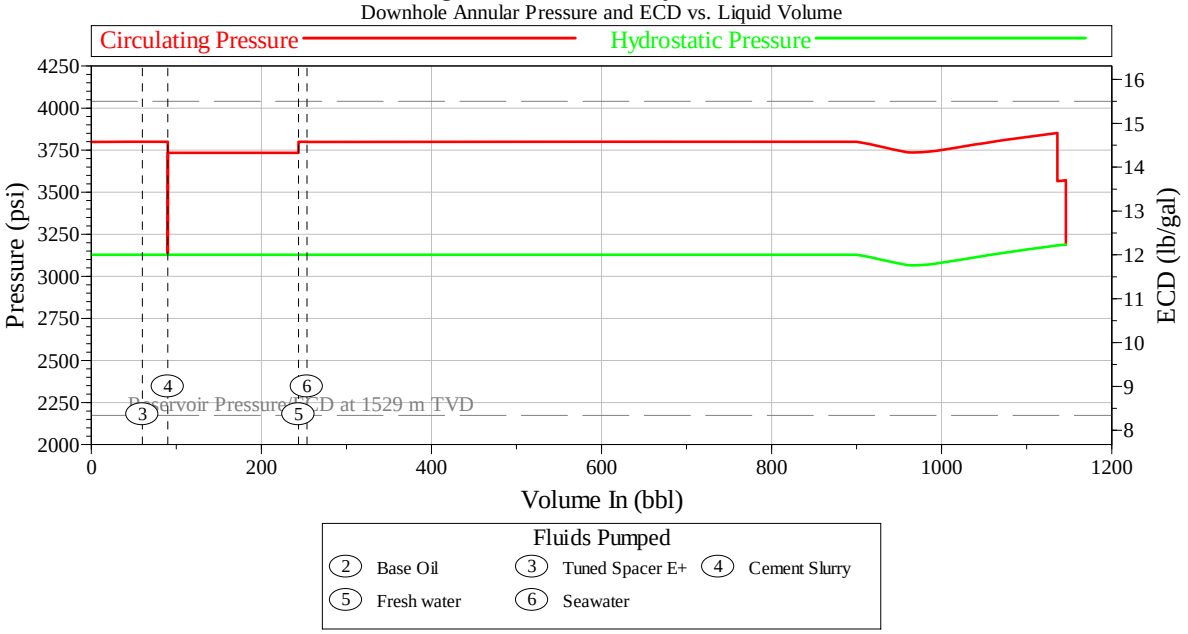
OptiCem v6.3.3
18-Jul-08 12:40

7.9.2 Option 2 Displacing with Sea water





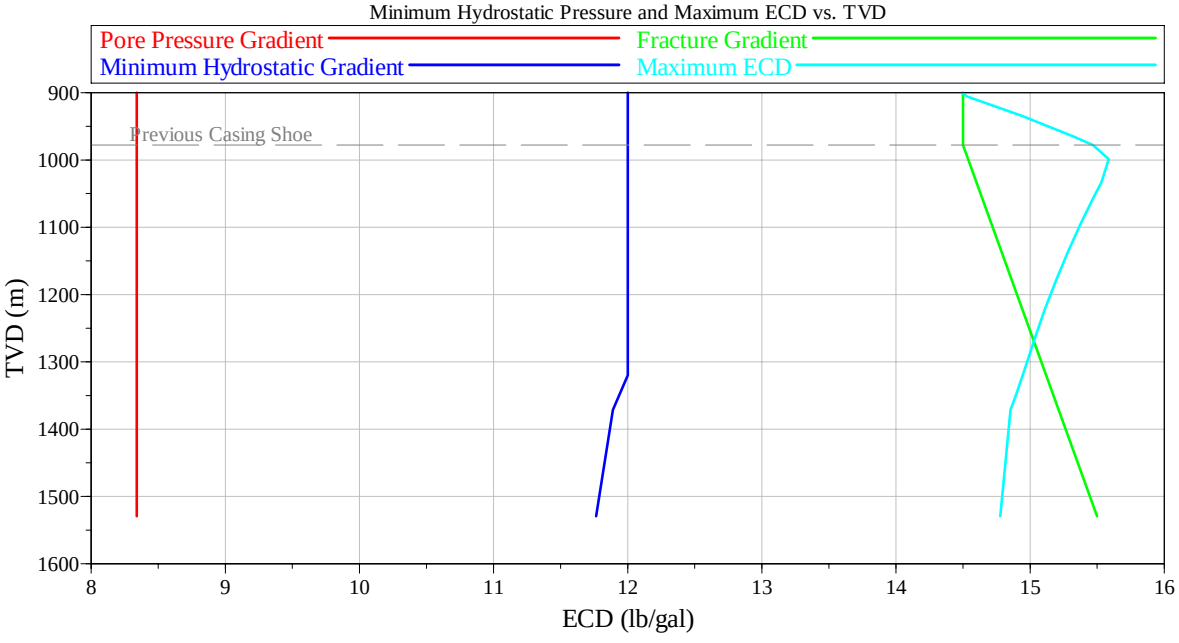
OptiCem
Circulating Pressure and Density at Reservoir Zone
Downhole Annular Pressure and ECD vs. Liquid Volume



Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:47

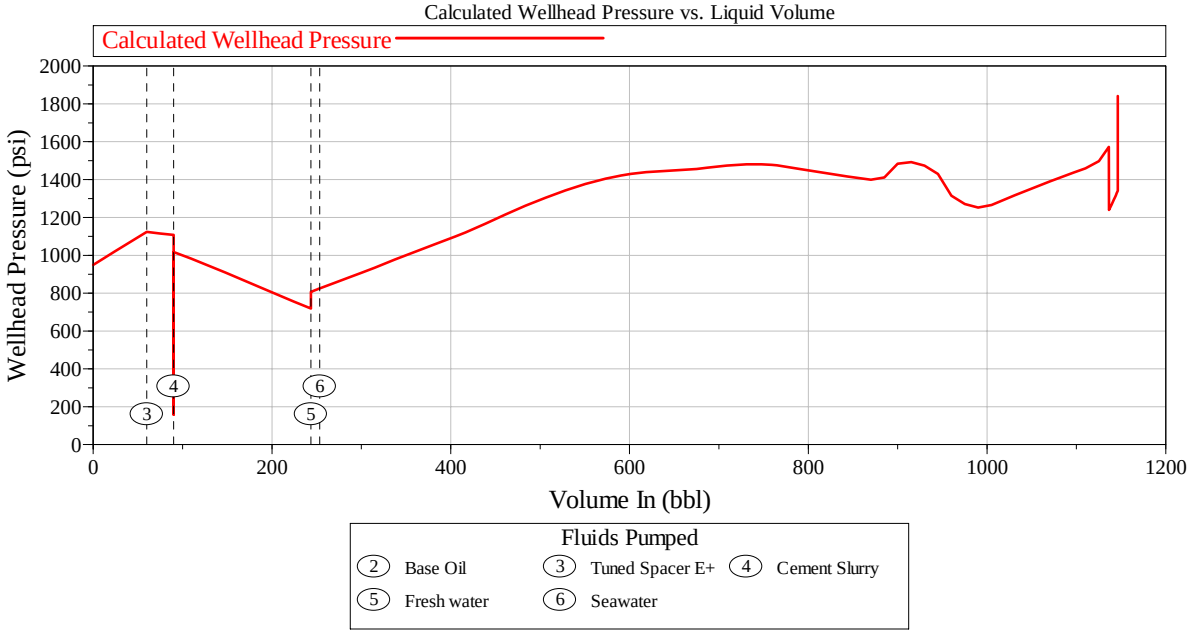
OptiCem
Downhole Pressure Profiles
Minimum Hydrostatic Pressure and Maximum ECD vs. TVD



Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem
Calculated Wellhead Pressure
Calculated Wellhead Pressure vs. Liquid Volume



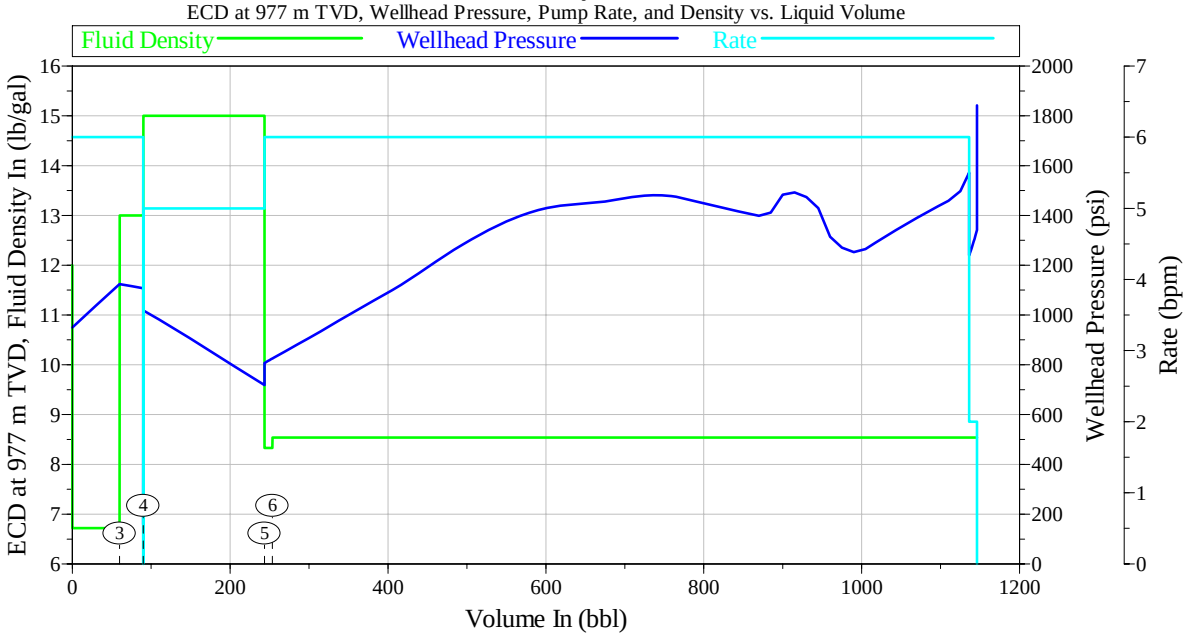
Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Seawater		

Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem
Summary
ECD at 977 m TVD, Wellhead Pressure, Pump Rate, and Density vs. Liquid Volume



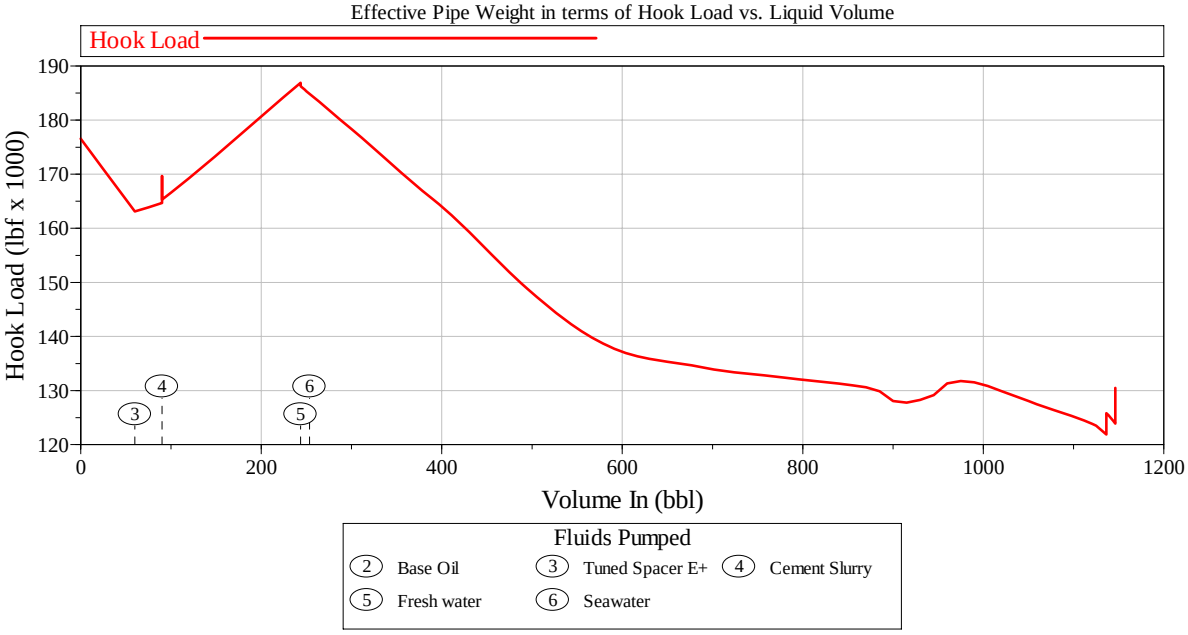
Customer: ESSO Australia Pty Ltd Well Description: SNAPPER M33 a	Job Date: 15-Jul-2008 UWI:	Sales Order #:

OptiCem v6.3.3
18-Jul-08 12:46

OptiCem

Hook Load Simulation

Effective Pipe Weight in terms of Hook Load vs. Liquid Volume



Fluids Pumped

2	Base Oil	3	Tuned Spacer E+	4	Cement Slurry
5	Fresh water	6	Seawater		

Customer: ESSO Australia Pty Ltd	Job Date: 15-Jul-2008	Sales Order #:
Well Description: SNAPPER M33 a	UWI:	

OptiCem v6.3.3
18-Jul-08 12:45

8.0 Lab Report

8.1 30 inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION					
Customer	: ADA		**Date**	:	12/06/2008
Well Name	: Longtom-4		**Reference**	:	LGT-08-01A
Casing Size	: 30inch				
Job Type	: Casing				
Slurry Type	: Single				
Time to Temp	: 13min				

WELL PROPERTIES							
Depth(MD from RKB)	: 132	Meters	**Depth(TVD from RKB)**	:	132	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	0.00	Deg.C./100M
BHST	: 25.00	Deg.C.	**BHCT (per API Spec 10)**	:	20.00	Deg.C.
Mud Weight	: 8.55	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES							
ABC Class G	: 94.00	Lbs/sk	From Yard				
NF-6	: 0.25	gal/10bbl of Mix Fluid		0.003	gal/sk		
Calcium Chloride 1%	: 2.00	%BWOC		0.025	gal/sk		
Slurry Weight	: 15.90	PPG	**Slurry Yield**	:	1.18	CuFt/Sack	
Mixing Water	: 5.16	Gals/Sack	**Total Mixing Fluid**	:	5.16	Gals/Sack	

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**		443	psi
Time(hrs:mins)	: 17	1:56	2:07	2:07		25	Deg.C.

COMPRESSIVE STRENGTH							
UCA Summary	: **50psi**	**2:09**		**UCA Max Temp**	:	25	Deg C
	: **500psi**	**4:50**		**UCA Pressure**	:	3000	psi
	: **2695psi**	**24:17**					

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Daniel Gibbons

Approved By : Prem kumar Salibendla/Andrew Stobie

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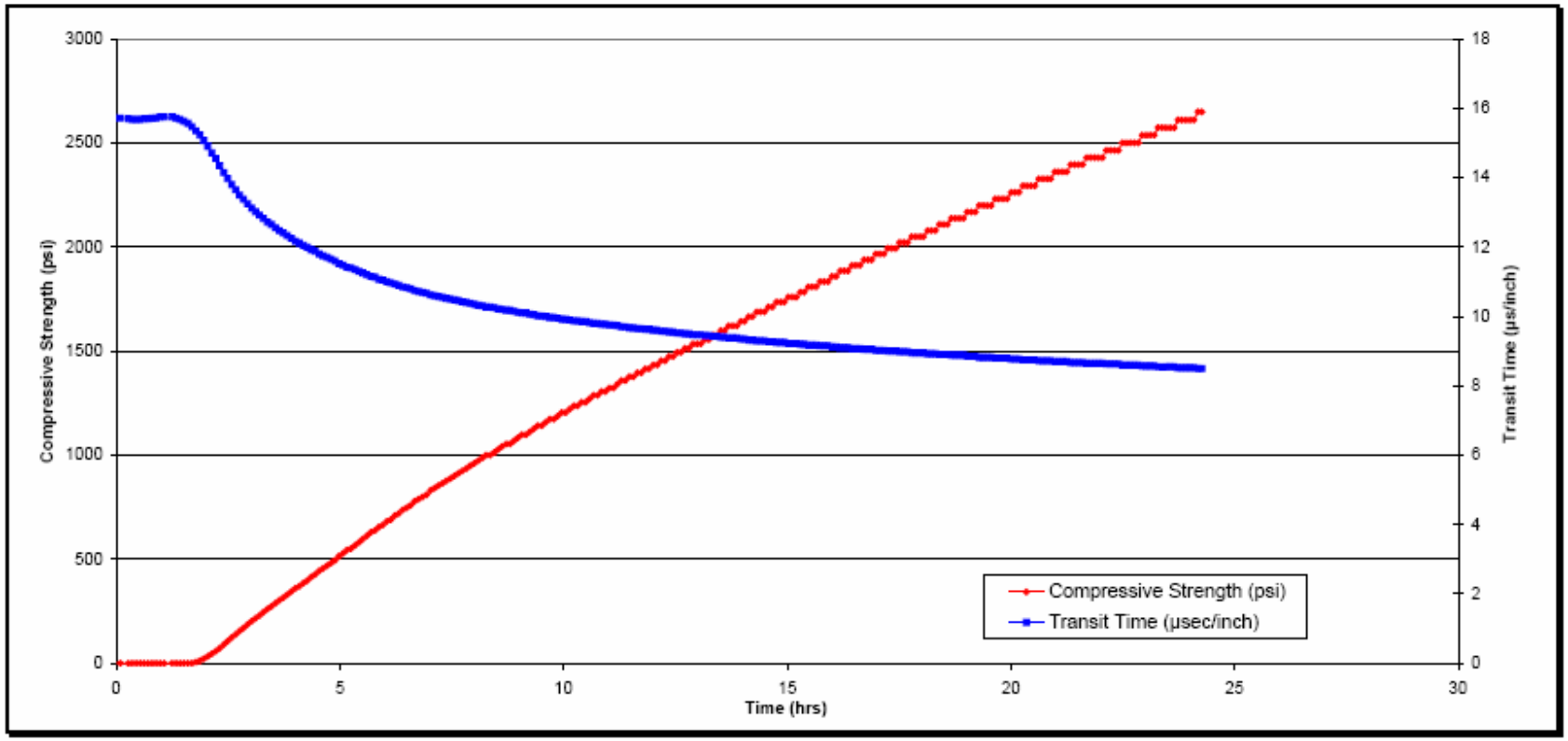
Project No	: LGT-08-01A	HALLIBURTON	Strength 1 (50psi)	:	2:09
Well Name/Job	: Longtom-4/ 30in CSG		Strength 2 (500psi)	:	4:50
Date	: 26/05/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (2695psi)	:	24:17
Pressure	: 3000psi				
Temperature	: 25°C/77°F				
Cement	:	ABC Class G & Calcium Chloride 1% - 2% BWOC & NF-6 0.25 gal/10bbl & Seawater			
		Density –15.9ppg ▲ yield – 1.17cuft/sk ▲ Water – 5.23gal/sk ▲ Total Fluid – 5.24gal/sk			



8.2 16 inch Lead Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	22/06/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-03A
Casing Size	: 16 inch			
Job Type	: Casing			
Slurry Type	: Lead			
Time to Temp	: 19min			

WELL PROPERTIES						
Depth(MD from RKB)	: 750	Meters	**Depth(TVD from RKB)**	:	750	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.33	Deg.C./100M
BHST	: 50.00	Deg.C.	**BHCT (per API Spec 10)**	:	34.00	Deg.C.
Mud Weight	: 8.70	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES						
ABC Class G	: 94.00	Lbs/sk	From Yard			
NF-6	: 0.13	gal/10bbl of Mix Fluid		0.004	gal/sk	
Econolite Liquid	: 15.00	gal/10bbl of Mix Fluid		0.464	gal/sk	
Slurry Weight	: 12.50	PPG	**Slurry Yield**	:	2.21	CuFt/Sack
Mixing Water	: 12.54	Gals/Sack	**Total Mixing Fluid**	:	13.00	Gals/Sack

THICKENING TIME							
Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	1,112	psi
Time(hrs:mins)	:	2	4:24	4:47	5:02	34	Deg.C.

COMPRESSIVE STRENGTH							
UCA Summary	:	**50psi**	**4:00**	**UCA Max Temp**	:	46	Deg C
	:	**500psi**	**11:13**	**UCA Pressure**	:	3000	psi
	:	**751psi**	**24:00**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

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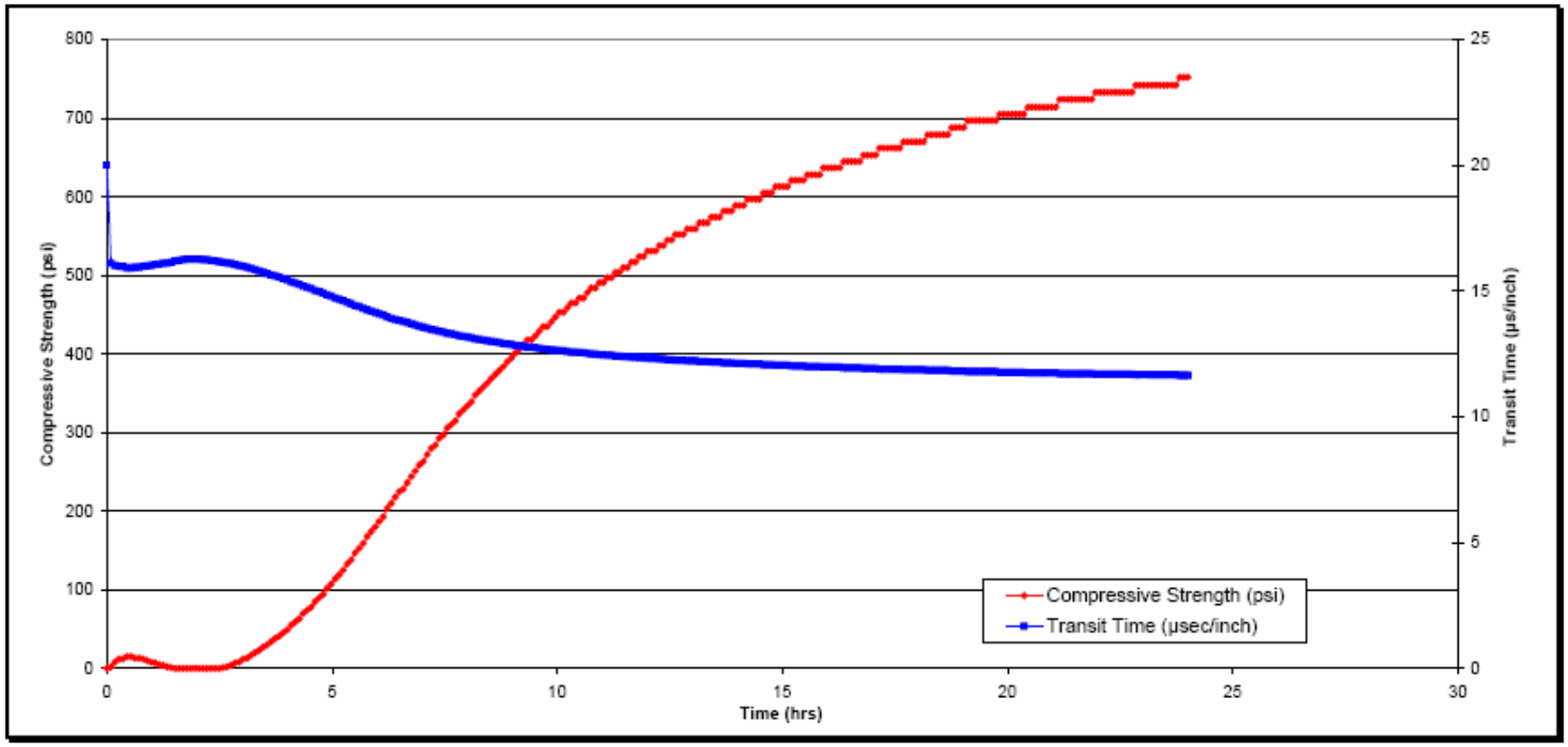
Project No	:LGT-08-03A	HALLIBURTON	Strength 1 (50psi)	:	4:00
Well Name/Job	:Longtom 4 / 16 Lead CSG		Strength 2 (500psi)	:	11:13
Date	: 22/06/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (751psi)	:	24:00
Pressure	: 3000psi				
Temperature	:46°C/115°F				
Cement	:	ABC Class G & Econolite Liquid - 15gal/10bbl & NF-6 0.125 gal/10bbl & Seawater			

Density –12.5ppg ▲ yield – 2.21cuft/sk ▲ Water – 12.54gal/sk ▲ Total Fluid – 13.00gal/sk



HALLIBURTON

8.3 16 inch Tail Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	22/06/2008
Well Name	: Longtom-4	**Reference**	:	LGT-08-02A
Casing Size	: 16inch			
Job Type	: Casing			
Slurry Type	: Tail			
Time to Temp	: 19min			

WELL PROPERTIES						
Depth(MD from RKB)	: 750	Meters	**Depth(TVD from RKB)**	:	750	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.33	Deg.C./100M
BHST	: 50.00	Deg.C.	**BHCT (per API Spec 10)**	:	34.00	Deg.C.
Mud Weight	: 8.70	PPG	**Water Source**	:	West Triton Drill Water	

SLURRY PROPERTIES					
ABC Class G	: 94.00	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid		gal/sk	
	:				
Slurry Weight	: 15.80	PPG	**Slurry Yield**	: 1.16	CuFt/Sack
Mixing Water	: 5.10	Gals/Sack	**Total Mixing Fluid**	: 5.16	Gals/Sack

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**		1,112	psi
Time(hrs:mins)	: 2	2:53	2:55	2:57		34	Deg.C.

COMPRESSIVE STRENGTH						
UCA Summary	:		**UCA Max Temp**	:	46	Deg C
	: **500psi**	**4:31**	**UCA Pressure**	:	3000	psi
	: **1050psi**	**5:55**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

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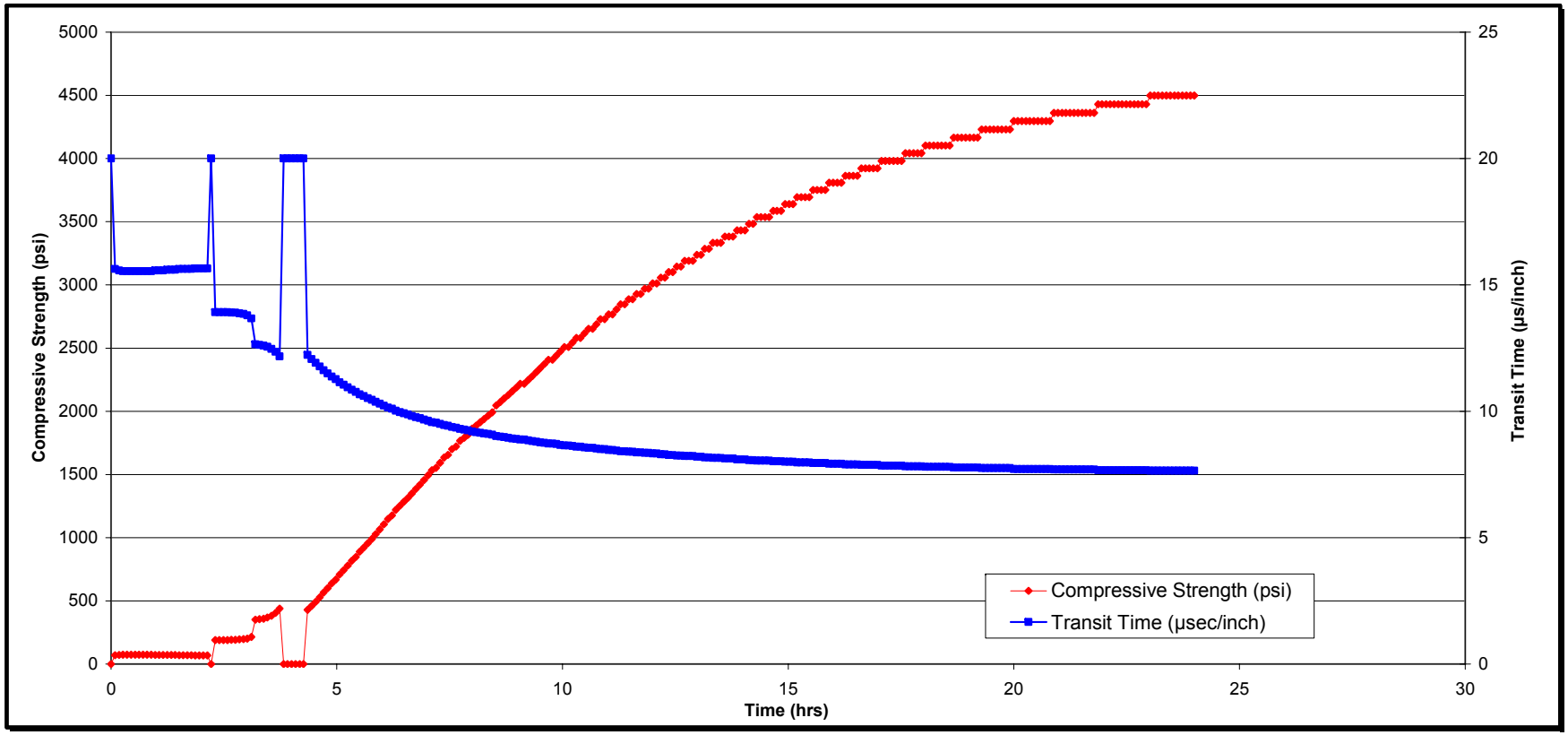
Project No	: LGT-08-02a	HALLIBURTON	Strength 1 (50psi)	:	2:09
Well Name/Job	: Longtom 4 16inch tail		Strength 2 (500psi)	:	4:50
Date	: 24/06/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (2695psi)	:	24:17
Pressure	: 3000psi				
Temperature	: 46°C/115°F				
Cement	:	ABC Class G & Calcium Chloride 1% - 2% BWOC & NF-6 0.25 gal/10bbl & Seawater			

Density –15.9ppg ▲ yield – 1.17cuft/sk ▲ Water – 5.23gal/sk ▲ Total Fluid – 5.24gal/sk



8.4 10 3/4inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION

Customer	:	ADA	**Date**	:	1/07/2008
Well Name	:	Longtom 4	**Reference**	:	LGT-08-04A
Casing Size	:	10 3/4inch			
Job Type	:	Casing			
Slurry Type	:	Single			
Time to Temp	:	42min			

WELL PROPERTIES

Depth(MD from RKB)	:	2475	Meters	**Depth(TVD from RKB)**	:	2330	Meters
Surface Temperature	:	25.00	Deg.C.	**Temperature Gradient**	:	2.92	Deg.C./100M
BHST	:	61.00	Deg.C.	**BHCT (per API Spec 10)**	:	93.00	Deg.C.
Mud Weight	:	12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES

ABC Class G	:	94.00	Lbs/sk	From Yard	
NF-6	:	0.25	gal/10bbl of Mix Fluid	0.003	gal/sk
CFR-3L	:	3.00	gal/10bbl of Mix Fluid	0.037	gal/sk
SCR-100L	:	3.50	gal/10bbl of Mix Fluid	0.043	gal/sk
Halad-413L	:	15.00	gal/10bbl of Mix Fluid	0.184	gal/sk

Slurry Weight	:	15.80	PPG	**Slurry Yield**	:	1.16	CuFt/Sack
Mixing Water	:	4.89	Gals/Sack	**Total Mixing Fluid**	:	5.15	Gals/Sack

THICKENING TIME

Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	5,321	psi
Time(hrs:mins)	:	8	3:29	3:33	3:35	61	Deg.C.

FLUID LOSS

API Fluid Loss @ 1000psi	:	24	cc/30min

RHEOLOGY READINGS

Fann Readings (RPM)	:	**300**	**200**	**100**	**6**	**3**	**PV**	**YP**
25 Deg C	:	75	51	27	5	2	72.75	2
BHCT Deg C	:	66	45	24	3	1	63	3

COMPRESSIVE STRENGTH

UCA Summary	:	**50psi**	**5:36**	**UCA Max Temp**	:	93	Deg C
	:	**500psi**	**6:13**	**UCA Pressure**	:	3000	psi
	:	**2962psi**	**21:40**				

FREE WATER

Reading	:		2%	45 degrees

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla/Andrew Stobie

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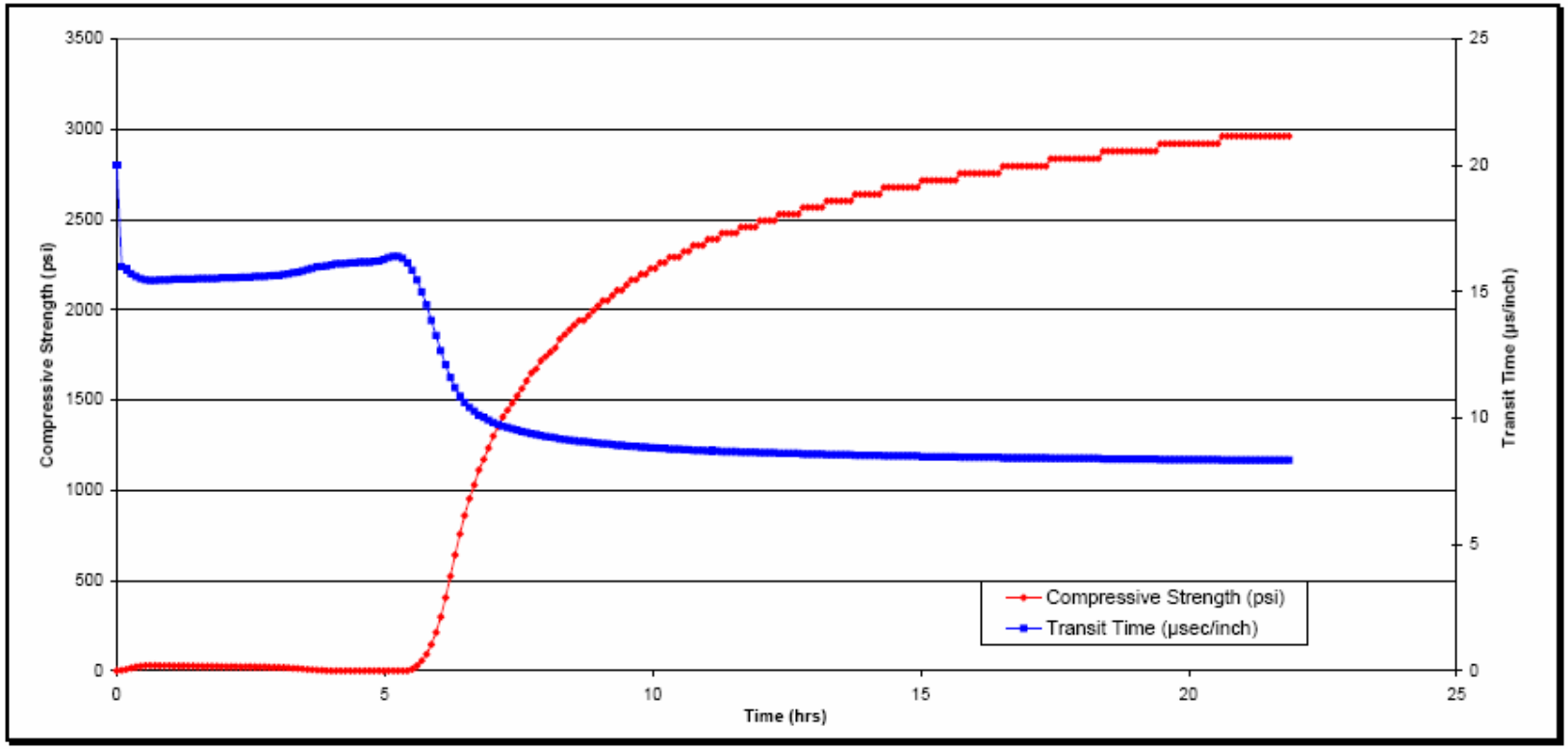
HALLIBURTON

Project No	: LGT-08-04a	HALLIBURTON		Strength 1 (50psi)	: 5:36
Well Name/Job	: Longtom-4 10 3/4"			Strength 2 (500psi)	: 6:13
Date	: 1/07/2008	ULTRASONIC CEMENT ANALYZER		Current Strength (2962psi)	: 21:40
Pressure	: 3000psi				
Temperature	: 93°C/199°F				

Cement : ABC Class G & NF-6 0.25 gal/10bbl & CFR-3L 3 gal/10bbl & Halad 413L 15gal/10bbl & SCR-100L 3.5 gal/10bbl & Freshwater

Density –15.8ppg ▲ yield – 1.16cuft/sk ▲ Water – 4.89gal/sk ▲ Total Fluid – 5.16gal/sk



HALLIBURTON

8.5 KOP

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	7/07/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-05B
Casing Size	: 9.5OH			
Job Type	: Kick Off Plug			
Slurry Type	: Single			
Time to Temp	: 36min			

WELL PROPERTIES							
Depth(MD from RKB)	: 2852	Meters	**Depth(TVD from RKB)**	:	2501	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	2.92	Deg.C./100M
BHST	: 98.00	Deg.C.	**BHCT (per API Spec 10)**	:	81.00	Deg.C.
Mud Weight	: 12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES					
ABC Class G	: 94.00	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid	0.031	gal/sk	
SCR-100L	: 4.00	gal/10bbl of Mix Fluid	0.042	gal/sk	
Slurry Weight	: 16.50	PPG	**Slurry Yield**	: 1.06	CuFt/Sack
Mixing Water	: 4.31	Gals/Sack	**Total Mixing Fluid**	: 4.39	Gals/Sack

THICKENING TIME							
Reading (BC)	: **Initial BC**	**30 BC**	**50 BC**	**70 BC**	5,867	psi
Time(hrs:mins)	: 16	2.56	3.00	3.01	81	Deg.C.

COMPRESSIVE STRENGTH						
UCA Summary	: **50psi**	**5:03**	**UCA Max Temp**	:	98	Deg C
	: **500psi**	**6:06**	**UCA Pressure**	:	3000	psi
	: **2158psi**	**24:00**				

FREE WATER			
Reading	:	trace	**45 degrees**

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

Approved By : Prem kumar Salibendla

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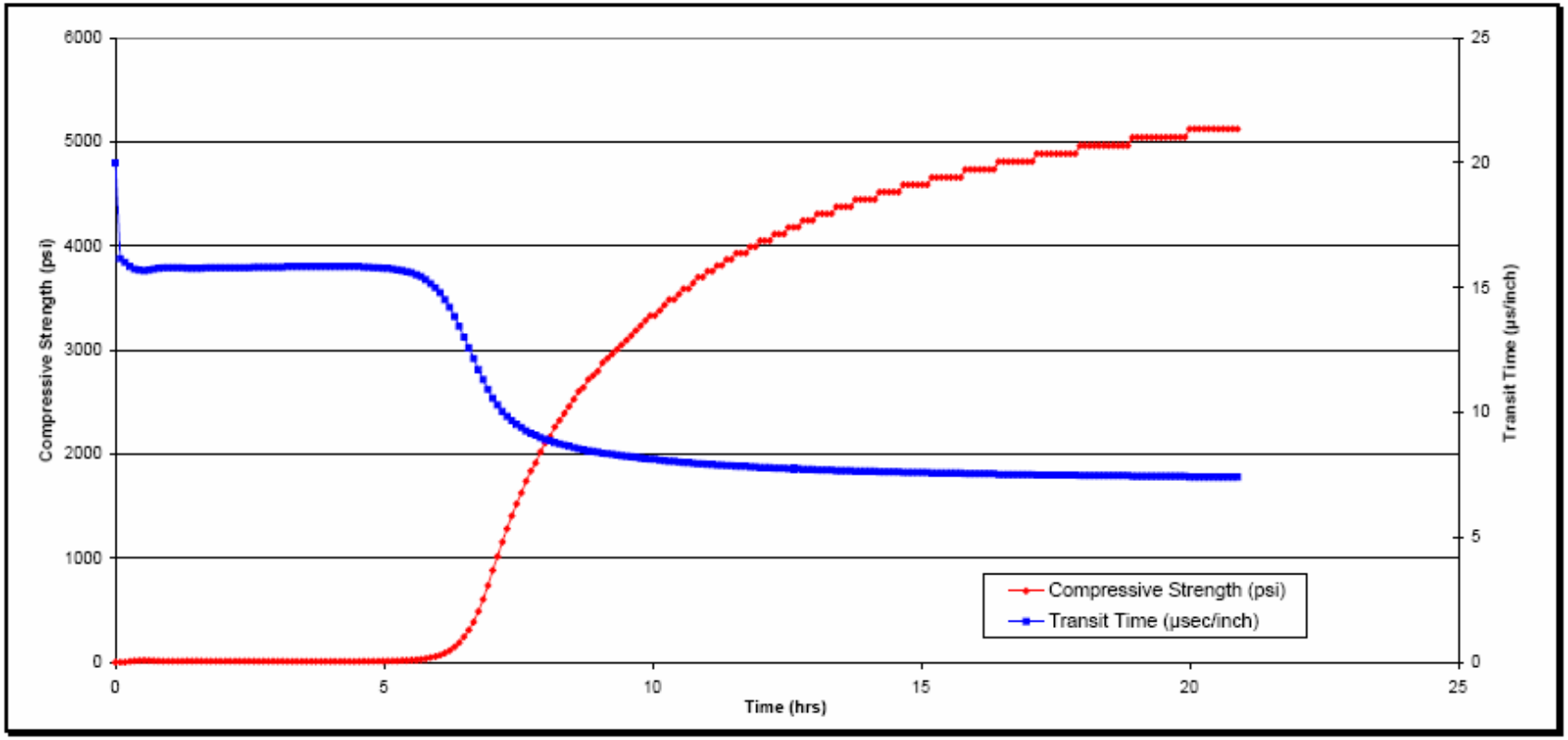
Project No	: LGT-08-05b	HALLIBURTON	Strength 1 (50psi)	:	5:54
Well Name/Job	: Longtom 4 KOP		Strength 2 (500psi)	:	6:45
Date	: 7/07/2008	ULTRASONIC CEMENT ANALYZER	Current Strength (5179psi)	:	20:30
Pressure	: 3000psi				
Temperature	: 98°C/208°F				
Cement	:	ABC Class G & CFR-3L - 3gal/10bbl & SCR-100L - 4gal/10bbl & NF-6 0.125 gal/10bbl & Freshwater			
		Density –16.5ppg ▲ yield – 1.06cuft/sk ▲ Water – 4.31gal/sk ▲ Total Fluid – 4.39gal/sk			



8.6 7 inch Slurry

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION				
Customer	: ADA	**Date**	:	12/08/2008
Well Name	: Longtom 4	**Reference**	:	LGT-08-08A
Casing Size	: 7inch Liner			
Job Type	: Liner			
Slurry Type	: Single			
Time to Temp	: 53min			

WELL PROPERTIES							
Depth(MD from RKB)	: 4648	Meters	**Depth(TVD from RKB)**	:	2696	Meters
Surface Temperature	: 25.00	Deg.C.	**Temperature Gradient**	:	3.82	Deg.C./100M
BHST	: 128.00	Deg.C.	**BHCT (per API Spec 10)**	:	99.00	Deg.C.
Mud Weight	: 12.00	PPG	**Water Source**	:	Freshwater	

SLURRY PROPERTIES					
ABC Class G in HTB	: 69.60	Lbs/sk	From Yard		
NF-6	: 0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	
CFR-3L	: 3.00	gal/10bbl of Mix Fluid	0.041	gal/sk	
SCR-100L	: 4.50	gal/10bbl of Mix Fluid	0.062	gal/sk	
Gascon 469	: 16.00	gal/10bbl of Mix Fluid	0.220	gal/sk	
Halad-413L	: 15.00	gal/10bbl of Mix Fluid	0.206	gal/sk	

Slurry Weight	: 15.00	PPG	**Slurry Yield**	:	1.27	CuFt/Sack
Mixing Water	: 5.24	Gals/Sack	**Total Mixing Fluid**	:	5.78	Gals/Sack

THICKENING TIME							
Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	6,658	psi
Time(hrs:mins)	:	2	7:48	7:51	7:58	94	Deg.C.

FLUID LOSS		
API Fluid Loss @ 1000psi	: 60	cc/30min

RHEOLOGY READINGS								
Fann Readings (RPM)	:	**300**	**200**	**100**	**6**	**3**	**PV**	**YP**
25 Deg C	:	82	59	33	3	1	73.5	9
82 Deg C	:	52	35	19	2	1	50.25	2

COMPRESSIVE STRENGTH						
UCA Summary	:	**50psi**	**6:07**	**UCA Max Temp**	:	128 Deg C
	:	**500psi**	**7:04**	**UCA Pressure**	:	3000 psi
	:	**886psi**	**8:07**			

FREE WATER			
Reading	:	trace	**45 degrees**

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Dave Webb

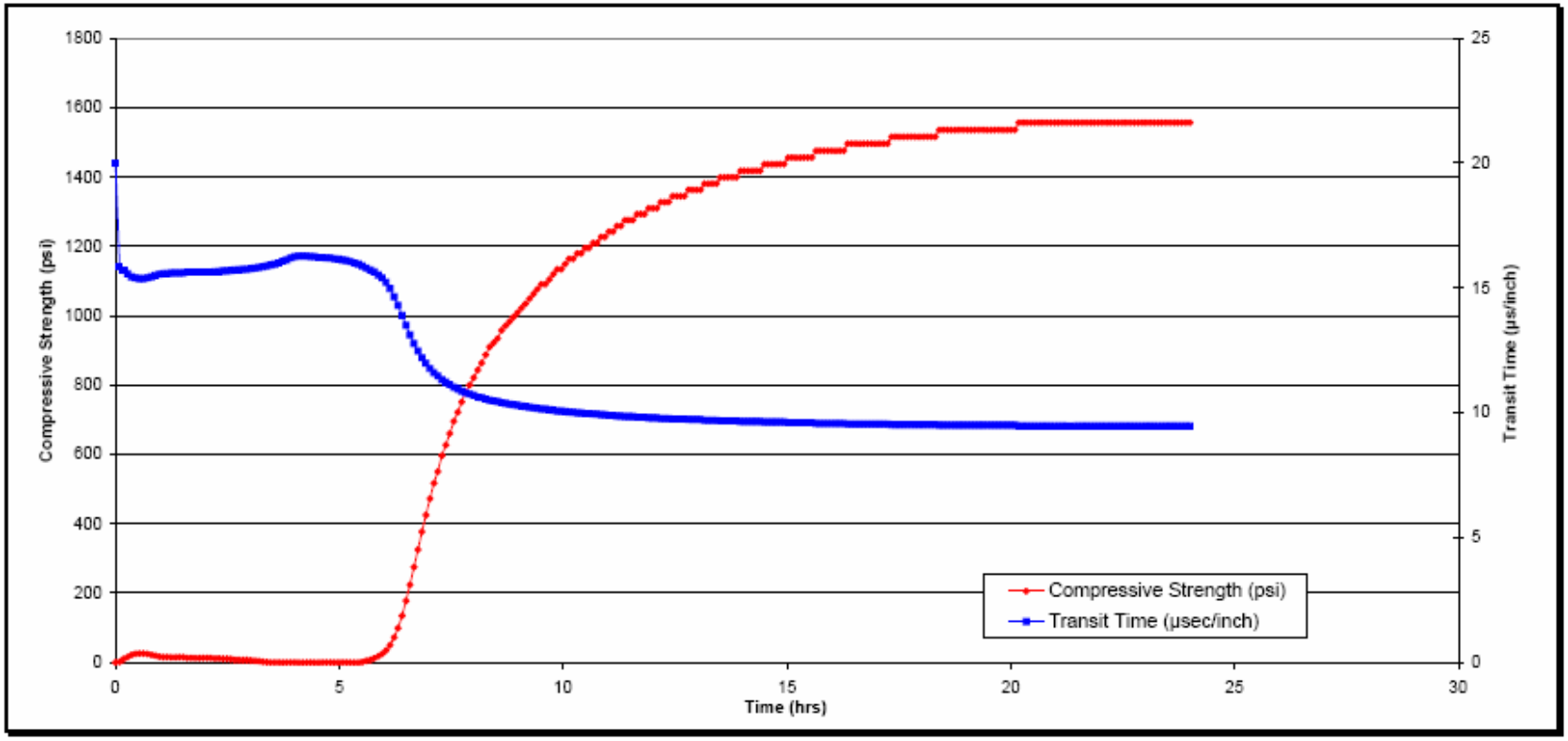
Approved By : Prem kumar Salibendla

The above report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton makes no warranty, express or implied, as to the accuracy of the data or any of the calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.

Project No	: LGT-08-08a	HALLIBURTON	Strength 1 (50psi)	:	6:07
Well Name/Job	: Longtom 4 Liner		Strength 2 (500psi)	:	7:04
Date	: 13/08/2008	ULTRASONIC CEMENT ANALYZER	Current strength (1557psi)	:	24:00
Pressure	: 3000psi			:	
Temperature	: 128°C/262°F				

Cement : ABC HTB & CFR-3L 3 gal/10bbl & SCR-100L 4.5 gal/10bbl & Gascon 469 16.0 gal/10bbl & Halad 413L 15.0 gal/10bbl & NF-6 0.25gal/10bbl & freshwater

Density –15.0ppg ▲ yield – 1.27cuft/sk ▲ Water – 5.24gal/sk ▲ Total Fluid – 5.78gal/sk



9.0 Summary, EJCS, Job Logs

9.1 30 inch casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

CEMENT CONDUCTOR CASING 14161

Prepared for Sean De Freitas

21/06/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		21 June 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		CEMENT CONDUCTOR CASING 14161			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 2.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 99%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 99%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy industry

Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	12	331198	Anthony Kelly	12				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A	24 inch Float shoe	1			

24in ppf Drill quip : 133m to 128m MD, m TVD
30in ppf Drill quip : 128m to 97m MD, 506.65m TVD

36in, 200 percent excess, 133m to 97m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	15.9ppg	WATER	5.12gal/sk	DENSITY	15.8ppg	WATER	5.12gal/sk	DENSITY	0.0ppg	WATER	0.00gal/sk
YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Seawater			WATER SOURCE	Drillwater			WATER SOURCE			
CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	at lb/sk		
Total Cement Used	33MT			Total Cement Used	7MT			Total Cement Used	MT		
Estimated TOC	m			Estimated TOC	m			Estimated TOC			

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Calcium Chloride	1 %BWOC	22sks	CFR-3L	3 gal/10bbl	6gals			
			SCR-100L	3 gal/10bbl	6gals			
			NF-6L	0.12 gal/10bbl	1			

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		21 June 2008

CEMENT/PUMPING JOB SUMMARY

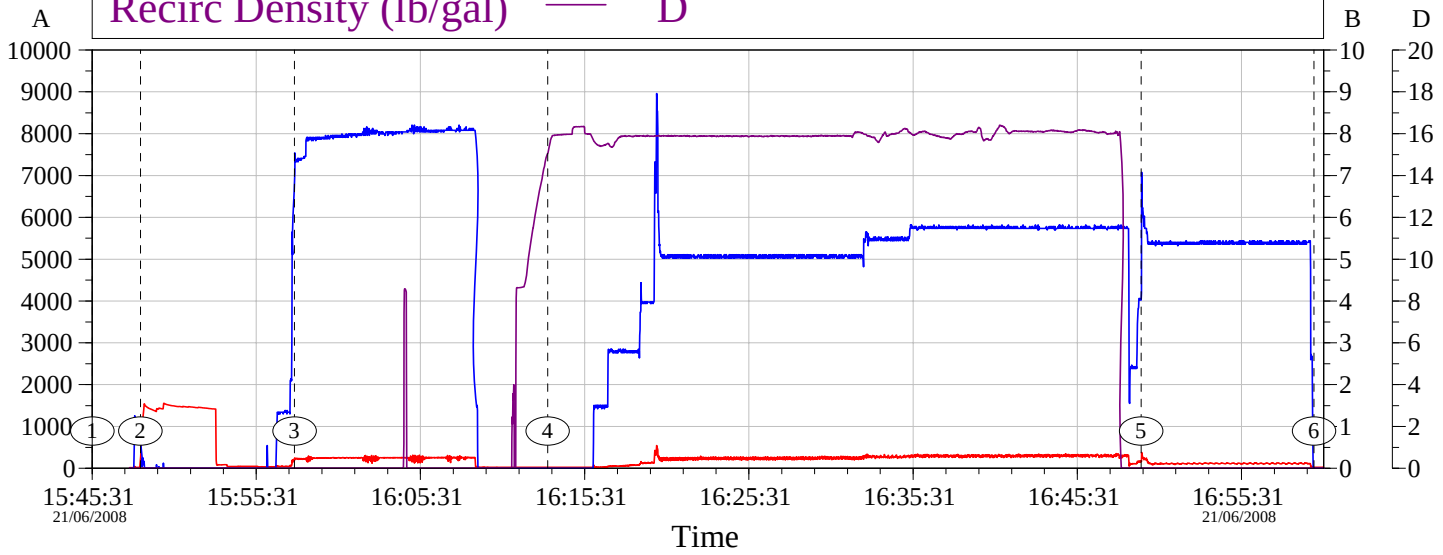
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
21/06/2008	15:00					JSA and Pre job safety Meetting
	15:45	10		50	5	Pump 10 BBL sea water
	15:48		1500			Pressure Test Lines to 1500PSI
	15:57	90		198	8	Pump 90 BBL of sea water @ 8 BPM
	16:13	168	200	23	6	Mix and Pump Cement @15.95
	16:49	57	118		5.1	Displace Cement with Sea water
	16:59					End Job, Check Flow back, Wash and Clean Up

Longtom # 4 Conductor



Event Log

	Intersection		PP		Intersection		PP
1	Pump 10 bbl sea water spacer	15:45:32	14.61	2	Pressure test lines	15:48:28	215.8
3	Pump 90 bbl sea water spacer	15:57:51	198.4	4	Mix and pump CMT 168 bbl @ 15.9 ppg	16:13:16	23.73
5	Displace with 57 bbl sea water	16:49:24	157.1	6	End job check flow back clean up	16:59:56	24.36

Customer:	Nexus	Job Date:	21/06/08
Well Description:	Longtom # 4	Job:	Conductor

TG Version G3.4.1
21-Jun-08 19:47

9.2 16in Casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

SURFACE CASING 7521

Prepared for Sean De Freitas/Stefan Schmidt

25/06/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		25 June 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		SURFACE CASING 7521			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 3.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 90%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 95%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy indu

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards)	**Exceeded Expectations** (Provided more than what was expected)	**Met expectations** (Did what was expected)	**Below expectations** (Did not do what was expected, recovery made) **Create CPI**	**Poor** (Job problems / failures occured) **Create CPI**
	5	4	3	2	1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	20	331198	Anthony Kelly	20				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A	16 inch Float shoe	1			

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
Non Tapered Casing , SSR, 0m shoe track		
16in ppf Drill quip : 97m to 750m MD, m TVD ###	22in, 50 percent excess, 33m to 755m	24in, ppf, 133m to 128m 30in, ppf, 128m to 97m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

	Lead			Tail			0		
DENSITY	12.5ppg	WATER	12.54gal/sk	15.8ppg	WATER	5.12gal/sk	0.0ppg	WATER	0.00gal/sk
YIELD	2.21cuft/ft	MIX FLUID	13.00gal/sk	1.16cuft/ft	MIX FLUID	5.12gal/sk	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Seawater			Drillwater					
CEMENT TYPE	ABC Class 'G' at 94lb/sk			ABC Class 'G' at 94lb/sk			at lb/sk		
Total Cement Used	60MT			50MT			MT		
Estimated TOC	97m			550m					

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Econolite Liquid	15 gal/10bbl	620gals	CFR-3L	3 gal/10bbl	42gals			
NF6	gal/10bbl	5gals						
			NF-6L	0.12 gal/10bbl	5			

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		25 June 2008

CEMENT/PUMPING JOB SUMMARY

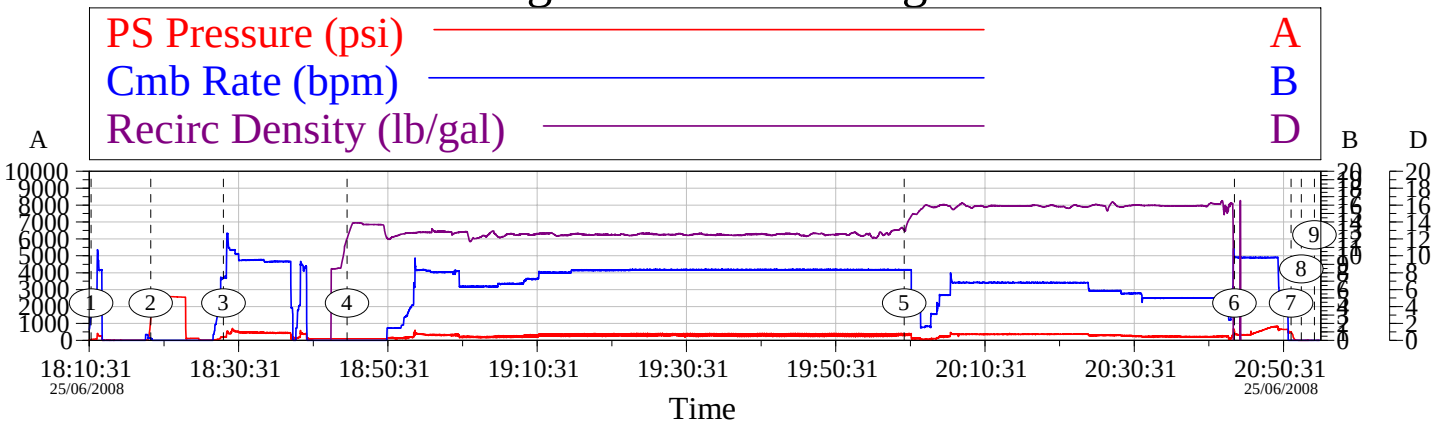
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
25/06/2008	17:45					Pre job safety meetting, and JSA with rig crew
	18:00					Rig up lines on rig floor
	18:10	10	180		8	Pump 10 BBL sea water spacer
	18:18		2500			Pressure Test Lines to 2500 PSI
	18:28	100	200		10	Pump 100 BBL of sea water @ 10 bpm
	18:45	525	300		8.4	Mix and pump lead cement 525 BBl @ 8.4 BPM
	19:59	235	250		7.2	Mix and Pump Tail cement 235 BBL @ 15.88 ppg
	20:43	66.9	690	300	10	displace with 66.9 bbl sea water @10 BPM
	20:52		590	590		End Displacment, Bleed off pressure and check Floats, 2.75 BBL returns
	20:54					End Job, Rig down rig Floor and wash up standpipe and cement unit
						Chemicals Used for Longtom 16 inch Surface
						107 MT of "G" Class cement
						650 Gallons Econolite Liquid (light weight addative)
						5 Gallons NF 6L (Defoamer)
						45 Gallons CFR-3 (Friction reducer)

Longtom # 4 16" Csg



Event Log

1	Pump 10 BBL sea water	18:10:45
2	Pressure Test Lines to 2500 PSI	18:18:45
3	Pump 100 BBL sea water	18:28:29
4	Mix and Pump Lead 525 BBL cement @ 12.5 ppg	18:45:03
5	Mix and Pump Tail 235 BBl cement @15.8 ppg	19:59:41
6	Displace with 66.9 BBL sea water	20:43:56
7	End Displacing and Check Floats	20:51:31
8	Floats holding 2.75 bbl Bled back	20:52:54
9	End Job, RIg down Floor and wash up	20:54:39

Customer:	ADA Nexus	Job Date:	25/6/08
Well Description:	Longtom #4	Job:	16 inch Surface

TG Version G3.4.1
25-Jun-08 23:12

9.3 10 ¾ Casing

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom-4

Rig: West Triton

INTERMEDIATE CASING 7522

Prepared for Sean Defreitas

16/07/2008

Prepared by John Hargreaves

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		16 July 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom-4	Bass Strait	Australia	John Hargreaves	Sean Defreitas	Gas & Oil Dev
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		INTERMEDIATE CASING 7522		Perth	West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 48.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 1hr 15min
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME: None
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump) 1

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) YES
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 98%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 98%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES None
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION None
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES None
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

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Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
126881	John Hargreaves	48	386793	Robert Bridgman	48				

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITAN	48			
10960844	SKD CMS - WEST TRITAN	48			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	CASING ATTACHMENTS	QTY	SAP#	OTHER	QTY
				Foam Wiper ball 7"	1

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
Non Tapered , , 0m shoe track		
10 3/4"in 55.5ppf L-80 Tenaris Blue : 2590m to 93.97m MD, m TV	13.5in, 30 percent excess, 750m to 2591m	16in, 75ppf, 93.97m to 750m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with 28.8m of 2.875in 6.4ppf Stinger

CEMENT DESIGN

Spacer				Single				0			
DENSITY	13.5ppg	**WATER**	0.00gal/sk	**DENSITY**	15.8ppg	**WATER**	4.89gal/sk	**DENSITY**	0.0ppg	**WATER**	0.00gal/sk
YIELD	0.00cuft/ft	**MIX FLUID**	0.00gal/sk	**YIELD**	1.16cuft/ft	**MIX FLUID**	5.15gal/sk	**YIELD**	0.00cuft/ft	**MIX FLUID**	0.00gal/sk
WATER SOURCE	Drillwater			**WATER SOURCE**	Drillwater			**WATER SOURCE**			
CEMENT TYPE	at lb/sk			**CEMENT TYPE**	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	at lb/sk		
Total Cement Used	sks			**Total Cement Used**	968sks			**Total Cement Used**	MT		
Estimated TOC	m			**Estimated TOC**	m			**Estimated TOC**	m		

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Tuned Spacer E+	13.8 lb/bbl	690lbs	Halad-413L	15 gal/10bbl	225gals			
Musol E	1 gal/bbl	50gals	CFR-3L	3 gal/10bbl	40gals			
Sem 7	0.7 gal/bbl	35gals	SCR-100L	3.5 gal/10bbl	45gals			
Barite	274.56 lb/bbl	13728lbs						

END OF JOB DETAILS

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		16 July 2008

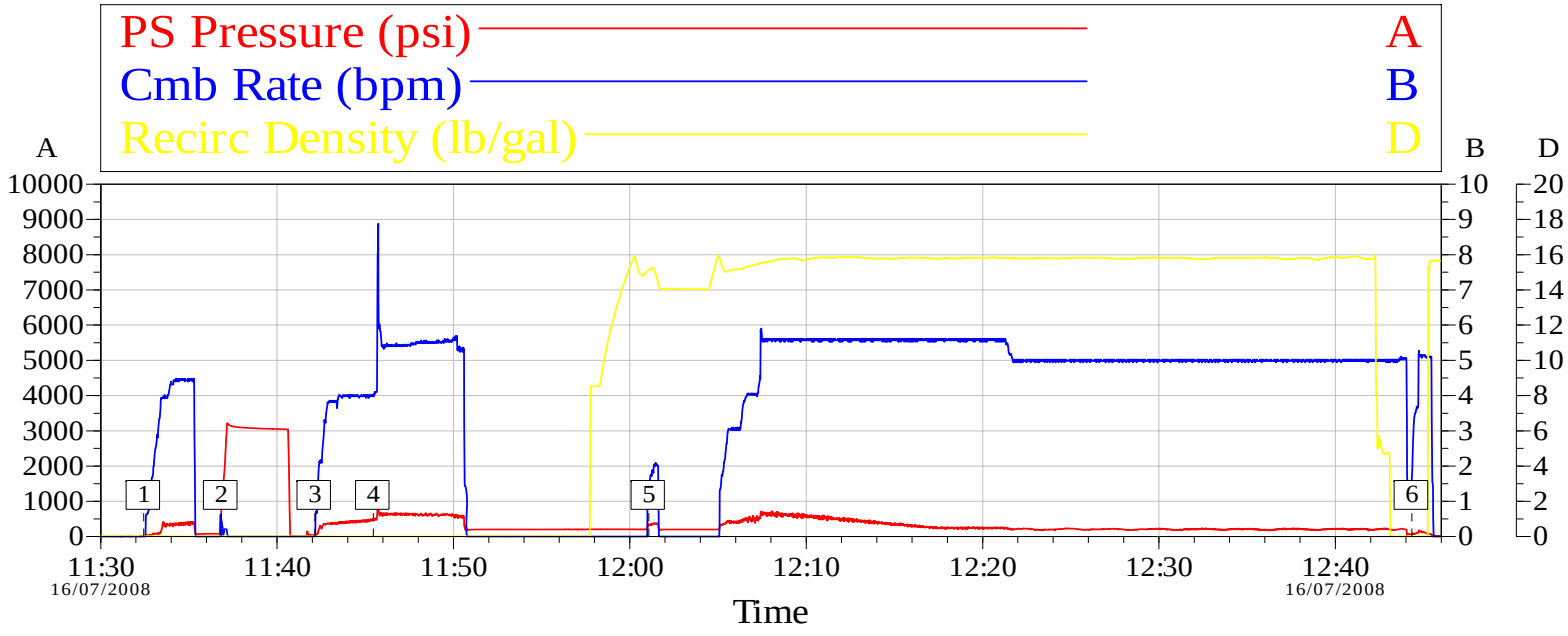
CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Gas & Oil Dev	Bass Strait	Australia	John Hargreaves	Sean Defreitas	Gas & Oil Dev

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	INTERMEDIATE CASING 7522	Perth	West Triton

JOB LOGS

DATE	TIME	VOLUME	PRESSURE (psi)		RATE	JOB DESCRIPTION
DAY-MTH-YR	HRS:MIN	BBLS	HIGH	LOW	BPM	REMARKS/DETAILS
15/07/2008	11:00					John Hargreaves arrive West Triton Platform.Check special Tools and cmting equipment
						Prepare to run 10 3/4" RTTS set and cmt 5 1/2" Dp and 3 joints of 2 7/8" Tubing.
16/07/2008						Rig rih with 3 Jnts 2 7/8" Tubing and 2440m of 5 1/2" DP
	7:00					Pick up and make 10 3/4" RTTS on DP and rih to 140m
	8:25					Pick up 219K , Slack Off 195K Set RTTS at 140M with 150k on RTTS ,Rig commence to
						circulate well ,Mud weight 12.1ppg, Circulation rate 14BPM at 1300psi .
						Total Circulated 1350BBL sythetic Mud.
	10:28					Rig ready to unseat Rtts and make up cmthead assembly.
						Pick up 100K and wait for 2 minutes.Pick up to 190K and wait 2 minutes ,pick up to 210K
	10:40					wait 2 minutes ,pick up and unseat RTTS .
						Rig go ahead and make up CMT head assembly for Cmt job.
	10:55					Pick up on RTTS 216K slack off 193K, Rih Rtts to set end of tubing at 2500m
	11:00					Set RTTS with 112K on Packer
	11:00					Hold pre job cmt safety with Rig Crew
	11:35	10	450		5	Pump 10 BBL Freshwater
	11:36					Pressure Test lines to 3000psi
	11:42	10	450		5	Pump 10 BBL Freshwater
	11:45	30	500		5.5	Pump 30BBL Tuned Spacer
	12:01	200	650		5	Mix and Pump 200BBL Cmt Slurry @ 15.8ppg
						Had to stop pumping at at start of due to Barge Engineer didn't provide cmt to Steadyflow
						bin,
	12:44	5	100		5	Displace 5BBL Freshwater .
						Hand over to rigs to Displace 183BBL Final displacement Pressure = 430psi.
						Lock Pressure in and WOC.
16/07/2008	23:42					Unseat RTTS and come out of hole
						See Special Tools Job log for RTTS rih.
						Robert Bridgeman Leave West Triton
						Chemicals for on Cmt job.
						225gal = Halad 413L
						45gal = SCR-100
						40gal = CRF3L
						650Lbs = Tunedspacer
						50gal = Muslol
						35gal = Sem7



Event Log

1	Pump 10 BBL Freshwater Spacer	11:32:27
2	Pressure test Lines	11:36:50
3	Pump 10 BBL Freshwater Spacer	11:42:08
4	Pump 30 BBL Tuned Spacer	11:45:27
5	Mix and Pump 200BBL Cmt Slurry	12:01:04
6	Displace 5 BBL Freshwater	12:44:21

Customer:	Nexus	Job Date:	16/7/08
Well Description:	LongTom-4	Job:	Cmt 10 3/4"casing

CemWin v1.7.2
17-Jul-08 15:40

9.4 KOP

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4 P

Rig: West Triton

Kick off Plug

Prepared for Bill Openshaw

31/07/2008

Prepared by Miro Petrovic

HALLIBURTON

The Future is Working Together.

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		31 July 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4 P	Bass Strait	Australia	Miro Petrovic	Bill Openshaw	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		Kick off Plug			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 12.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 3.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 1

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Primary
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 100%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 100%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

We hope you were happy with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and services of a standard unmatched in the service sector of the energy industry

Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs
332193	Miroslav Petrovich	12	386793	Robert Bridgman	12	126881	John Hargreaves	12		

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
#N/A		1			
SAP#	**CASING ATTACHMENTS**	**QTY**	**SAP#**	**OTHER**	**QTY**
				7" Drill pipe wiper foam ball	2
			484904	2" CST with DART	1

in ppf : m to m MD, m TVD	9.5in, 10 percent excess, 2740m to 2565m	
in ppf : m to m MD, m TVD		

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	16.5ppg	**WATER**	4.31gal/sk	**DENSITY**	15.8ppg	**WATER**	5.12gal/sk	**DENSITY**	0.0ppg	**WATER**	0.00gal/sk
YIELD	1.06cuft/ft	**MIX FLUID**	4.39gal/sk	**YIELD**	1.16cuft/ft	**MIX FLUID**	5.12gal/sk	**YIELD**	0.00cuft/ft	**MIX FLUID**	0.00gal/sk
WATER SOURCE	Fresh Water			**WATER SOURCE**	Drillwater			**WATER SOURCE**			
CEMENT TYPE	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	ABC Class 'G' at 94lb/sk			**CEMENT TYPE**	at lb/sk		
Total Cement Used	12.4MT			**Total Cement Used**	7MT			**Total Cement Used**	MT		
Estimated TOC	2700m			**Estimated TOC**	m			**Estimated TOC**			
Additive	**Concentration**	**Total Used**		**Additive**	**Concentration**	**Total Used**		**Additive**	**Concentration**	**Total Used**	
CFR-3	3 gal/10bbl	9gals		CFR-3L	3 gal/10bbl	6gals					
SCR-100L	4 gal/10bbl	12gals		SCR-100L	3 gal/10bbl	6gals					
				NF-6L	0.12 gal/10bbl	1					

END OF JOB DETAILS

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		31 July 2008

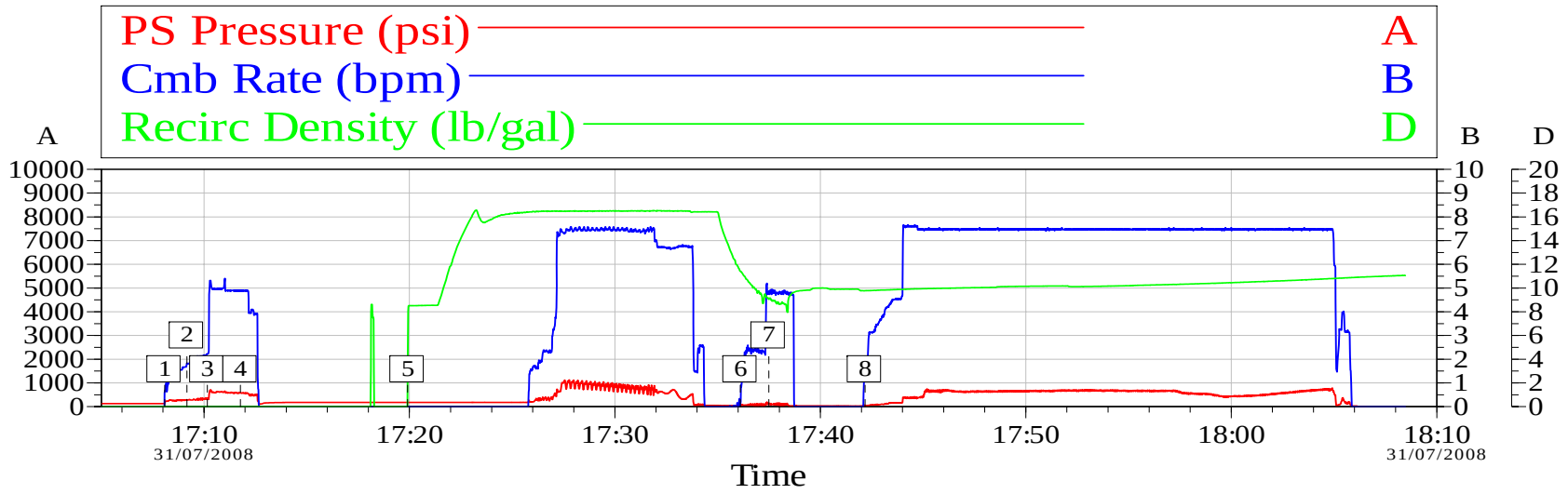
CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Miro Petrovic	Bill Openshaw	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
31/07/2008						Run in hole 17 joints 2 7/8 cement stinger on 5 1/2 drill pipe
	14:20	180	0	0	0	Insert foam ball into string and circulate 180Bbls (Used Rig Pumps)
	15:10					Install CST into drill pipe with Dart
	15:24	185	0	690	7	Displace Cst and dart with 185Bbls SBM making sure it has left the end of stinger
	17:09	5	0	70	5	Pump 5 Bbls Fresh water
	17:10	0.25	0	1000	0.25	Pressure test @ 1000Psi
	17:11	5	0	70	5	Pump 5 Bbls Fresh water
	17:15	15	0	150	5	Pump 15 Bbls Tuned spacer E+
	17:20	52	0	459	5	Mix and Pump 52Bbls @ 16.5 Cement Slurry
	17:36	5	0	678	5	Pump 5 Bbls Tuned spacer E +
	17;37	3.5	0	690	5	Punp 3.5 Bbls Fresh water
	17:43	165	690	0	8	Displace Cement with 165 Bbls SBM from Displacement tanks
						Chemicals Used Mix Water + Cement
						1- CFR-3L 9gals/10Bbls -------- Mix Water Fresh 30Bbls
						2-SCR-100L 12gals/10Bbls
						3-Cement 12.4 Mt
						Chemicals Used For Tuned Spacer E +
						1 -Water Fresh 23Bbls
						2-Tuned Spacer E + 414 lb =9 Sks
						3-Barite 8,245 lb
						4-Musol 30gals
						5-Sem 7 21gals
						2 x 7" Drill Pipe Wiper Balls
						1 x CST & Dart Part # 00003750



Event Log

1	Pump 5 BBL SPM Mud	17:08:05
2	Pump 5 BBL Freshwater	17:09:10
3	Pressure test Lines	17:10:10
4	Pump 5 BBL Freshwater	17:11:46
5	Mix & 52BBL Cmt Slurry @ 16.5ppg	17:19:55
6	Displace 5BBL Tuned Spacer	17:36:07
7	Displace 3.5BBL Freshwater	17:37:29
8	Displace 165BBL SPM Mud	17:42:10

Customer: Nexus	Job Date: 31/7/08
Well Description: Longtom-4	Job: Kickoff plug

CemWin v1.7.2
01-Aug-08 10:24

9.5 7 inch Liner

Nexus

POST JOB REPORTS
CEMENTING/PUMPING

Well Name : Longtom #4

Rig: West Triton

CEMENT LINER 14113

Prepared for Sean De Freitas/Stefan Schmidt

17/08/2008

Prepared by Nigel Lucas

HALLIBURTON

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HALLIBURTON

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	Nexus		17 August 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Longtom #4	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		CEMENT LINER 14113			West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): Cementing
Select the job type (Cementing or Non-Cementing)

TOTAL OPERATING TIME (hrs) 24.0 hrs
Rig up/ Pumping/ Rig Down

HSE INCIDENT, ACCIDENT, INJURY: NO
This should be recordable incidents only

WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN? YES
This will be dictated by the customer

TOTAL TIME PUMPING (hrs) 4.0 hrs
Total number of hours pumping fluid on this job

NON -PRODUCTIVE RIG TIME:
As a result of Halliburton cementing PSL

NUMBER OF JSA'S PERFORMED: 2

NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)

TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON: JACKUP

REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)
Add details in job logs

REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):
Add details in job logs

WAS THIS A PRIMARY CEMENT JOB (YES / NO) NA
Primary cement job = Casing job, Liner Job, tie back

DID WE RUN WIPER PLUGS? None

WAS THIS A PLUG OR SQUEEZE JOB? Neither

WAS THIS A PRIMARY OR REMEDIAL JOB? Remedial
Remedial = Repeated attempts or corrections of initial cement job

MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE 100%
Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100

WAS AUTOMATED DENSITY CONTROL USED YES

JOB WAS PUMPED AT DESIGNED PUMP RATE 100%
Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100

NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES
Number of remedial squeeze jobs required after primary job performed by HES

NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION
Number of remedial squeeze jobs required after primary job performed by competition

NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES
Number of remedial plug jobs required after primary plug pumped by HES

EJCS / CUSTOMER COMMENTS

Dear Customer,

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Please take the time to let us know if our performance met your expectations. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of

Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	Superior Performance (Establish new quality performance standards) 5	**Exceeded Expectations** (Provided more than what was expected) 4	**Met expectations** (Did what was expected) 3	**Below expectations** (Did not do what was expected, recovery made) **Create CPI** 2	**Poor** (Job problems / failures occured) **Create CPI** 1
Did our personnel perform the job to your satisfaction?					
Did our equipment perform the job to your satisfaction?					
Did we perform the job to the agreed upon design?					
Did our products and materials perform as you expected?					
Did we perform in a safe & careful manner? PPE, Pre/Post mtgs, JSA					
Did we perform in an environmentally sound manner? Spills, disharges, clean up					
Was the job performed as scheduled? On time, as designed/discussed					
Did the equipment condition & appearance meet you expectations?					
How well did our personnel communicate during mobilisation, rig up and job execution					

	YES	NO
Overall, I was satisfied with Halliburton's job performance		

Customer Comments? *(What can we do to improve/maintain our services?)*

Customer Signature: ..... **Date:** .....

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs
126997	Nigel Lucas	24	332193	Miroslav Petrovich	24	#N/A	Peter Baates	24		

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	24			

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
	Backer floats 7 inch				

7in 26ppf : 2570m to 4648m MD, m TVD	9.5in, 0 percent excess, 2590m to 4648m, Caliper = 138bbls	10.75in, ppf, 97m to 2590m 24in, ppf, 133m to 128m

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf Drill Pipe with m of in ppf Stinger

CEMENT DESIGN

Single				0				0			
DENSITY	15.0ppg	WATER	5.32gal/sk	DENSITY	15.8ppg	WATER	5.12gal/sk	DENSITY	0.0ppg	WATER	0.00gal/sk
YIELD	1.27cuft/ft	MIX FLUID	5.77gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	0.00cuft/ft	MIX FLUID	0.00gal/sk
WATER SOURCE	Drillwater			WATER SOURCE	Drillwater			WATER SOURCE			
CEMENT TYPE	HTB at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	at lb/sk		
Total Cement Used	MT			Total Cement Used	50MT			Total Cement Used	MT		
Estimated TOC	97m			Estimated TOC	550m			Estimated TOC			

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Halad-413L	15 gal/10bbl	130gals	CFR-3L	3 gal/10bbl	42gals			
Gascon-469	16 gal/10bbl	135gals						
CFR-3L	3 gal/10bbl	28gals	NF-6L	0.12 gal/10bbl	5			
SCR-100L	4 gal/10bbl	35gals						
NF6	0.1 gal/bbl	5gals						

END OF JOB DETAILS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
Nexus		17 August 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Exploration	Bass Strait	Australia	Nigel Lucas	Sean De Freitas/Stefan Schmidt	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	5	Perth	West Triton

JOB LOGS

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
17/08/2008	3:10					JSA, Pre Job safety Meetting with rig crew
	4:17	5	400	200	4	pump 5 bbl of drill water
	4:20		3200			Ptressure test lines to 3200 psi
	4:28	25	600		5	pump 25 bbl of drill water
	4:35	60	1500		4.8	Pump 60 BBL of tune spacer
	4:55	138	2000		5.4	Mix and pump 138 BBL @ 15 lb/gal
	5:30	10	1800		6	Pump 10 BBl drill water
	5:32	230.5	2894		8	Displace with SBM @8 BPM
	6:00		0			End Job and bleed off, 2 BBL flow back
	6:30					Wash up cement unit,
	9:30					stand down
						Chemicals used on job
						Cement HTB 620sx, 27 MT
						Halad 413====130 gallons
						Gascon=====140 gallons
						CFR-3L=====25 gallons
						SCR100L====40 Gallons

30"/24" CASING RUNNING TALLY

Australian Drilling Associates Pty Ltd ADA

Well :	**Longtom-4**	**Date :**	**21-Jun-08**	**Rig :**	**West Triton**
Grade :	**X52**	**Conn. :**	**Lynx**	**RKB - Seabed**	**97.03m**
Weight :	**310 lb/ft**	**Stick up on ML:**	**1.93m**	**Shoe:**	**128.8m**

Run No	Joint No	Length meter	Total Length, meter	Top Connection. Depth, meter	Comments
					TD 36" Hole 132.8m.
				128.80	Shoe set at 128.8m.
1	Shoe	11.51	11.51	117.29	Lynx conn.
2	Intermediate	11.51	23.02	105.78	Lynx conn.
3	Wellhead	10.68	33.70	95.10	Lynx conn.
R/Tool				95.10	
Drill Pipe				95.10	
DP Pup				95.10	

Nexus Longtom-4

16" Casing Tally

Casing:	16	in	Connection:	BTC	
Weight:	75.0	lb/ft	Vam M/U loss:		m
Grade:	NT80DE		BTC M/U loss:	0.122	m
Burst:	3,830	psi	Min MU torque:	-	ftlbs
Collapse:	1,015	psi	Opt MU torque:	7,528	ftlbs
Yield:	1,687	klbs	Max MU torque:	-	ftlbs
Wall Thick.:	0.438	in			
Nominal ID:	15.124	in			
Drift ID:	14.936	in	Top 18 3/4" WH:	93.97	m
Csg Cap.:	0.7290	bbl/m	Top 30" WH:	95.10	m
Metal Displ.:	0.0869	bbl/m			

16" BTC Thread Loss: 0.122

" Mic ID = "

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SHOE DEPTH / SETTING DEPTH (BTM)	TOTAL STICKUP / SETTING DEPTH (TOP)	COMMENTS
					750.07		
1	**Float Shoe A**	12.94	12.94	12.94	**750.07**	737.13	2X CENTRALISERS EVENLY SPACED
2	59	12.13	12.01	24.95	737.13	725.12	CENTR on stop collar mid jnt
3	58	12.19	12.07	37.02	725.12	713.05	CENTR on stop collar mid jnt
4	57	12.16	12.04	49.05	713.05	701.02	CENTR on stop collar mid jnt
5	56	12.16	12.04	61.09	701.02	688.98	CENTR on stop collar mid jnt
6	55	12.16	12.04	73.13	688.98	676.94	CENTR on stop collar mid jnt
7	54	12.16	12.04	85.17	676.94	664.90	CENTR on stop collar mid jnt
8	53	12.16	12.04	97.20	664.90	652.87	CENTR on stop collar mid jnt
9	52	12.81	12.69	109.89	652.87	640.18	CENTR on stop collar mid jnt
10	51	12.16	12.04	121.93	640.18	628.14	
11	50	12.16	12.04	133.97	628.14	616.10	
12	49	12.05	11.93	145.90	616.10	604.17	
13	48	11.82	11.70	157.59	604.17	592.48	
14	47	11.81	11.69	169.28	592.48	580.79	
15	46	12.11	11.99	181.27	580.79	568.80	
16	45	11.80	11.68	192.95	568.80	557.12	
17	44	12.18	12.06	205.00	557.12	545.07	
18	43	11.80	11.68	216.68	545.07	533.39	
19	42	12.11	11.99	228.67	533.39	521.40	
20	41	12.17	12.05	240.72	521.40	509.35	
21	40	12.16	12.04	252.76	509.35	497.32	
22	39	12.17	12.05	264.80	497.32	485.27	
23	38	11.82	11.70	276.50	485.27	473.57	
24	37	12.07	11.95	288.45	473.57	461.62	
25	36	12.09	11.97	300.42	461.62	449.65	
26	35	12.02	11.90	312.31	449.65	437.76	
27	34	11.81	11.69	324.00	437.76	426.07	
28	33	12.16	12.04	336.04	426.07	414.03	
29	32	12.16	12.04	348.08	414.03	401.99	
30	31	12.17	12.05	360.12	401.99	389.95	
31	30	12.16	12.04	372.16	389.95	377.91	
32	29	12.04	11.92	384.08	377.91	365.99	
33	28	12.15	12.03	396.11	365.99	353.96	
34	27	12.16	12.04	408.15	353.96	341.92	
35	26	12.17	12.05	420.19	341.92	329.88	
36	25	12.17	12.05	432.24	329.88	317.83	
37	24	12.16	12.04	444.28	317.83	305.79	
38	23	12.17	12.05	456.33	305.79	293.74	
39	22	12.17	12.05	468.37	293.74	281.70	
40	21	11.81	11.69	480.06	281.70	270.01	
41	20	11.81	11.69	491.75	270.01	258.32	
42	19	11.81	11.69	503.44	258.32	246.63	
43	18	12.10	11.98	515.42	246.63	234.65	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
44	17	11.80	11.68	527.09	234.65	222.98	
45	16	12.02	11.90	538.99	222.98	211.08	
46	15	12.16	12.04	551.03	211.08	199.04	
47	14	12.16	12.04	563.07	199.04	187.00	
48	13	12.16	12.04	575.10	187.00	174.97	
49	12	12.16	12.04	587.14	174.97	162.93	
50	11	12.16	12.04	599.18	162.93	150.89	
51	10	12.04	11.92	611.10	150.89	138.97	
52	9	12.16	12.04	623.14	138.97	126.93	
53	8	12.17	12.05	635.18	126.93	114.89	
54	7	12.16	12.04	647.22	114.89	102.85	
55	X Over	2.90	2.78	650.00	102.85	100.07	
56	Wellhead to LOP	4.97	4.97	654.97	100.07	95.10	
	Wellhead Stick UP	1.13	1.13	656.10	95.10	93.97	
	18 3/4" RT Stick Up & dp to surface	93.97	93.97	750.07	93.97	0.00	

JOINTS REMAINING ON LOCATION:

16" CASING ON DECK				JOINT SUMMARY			
No	Joint No	O/A Length	EFF Length	On Site	Ran	Spare	Details
1	**6**		-0.12			0	
2	**5**		-0.12			0	
3	**4**		-0.12			0	
4	**3**		-0.12			0	
5	**2**		-0.12			0	
6	**1**		-0.12			0	
7	**60**		-0.12			0	
8	**61**		-0.12			0	
9	**62**		-0.12			0	
10	**63**		-0.12				
11	**64**		-0.12				
12	**65**		-0.12				
13	**66**		-0.12				
14			-0.12				
15			-0.12				
16			-0.12				
17			-0.12				
18			-0.12				
19			-0.12				
20			-0.12				
21			-0.12				
22			-0.12				
23			-0.12				
24			-0.12				
25			0.00				
26			0.00				
27			0.00				
28			0.00				
29			0.00				
30			0.00				
31			0.00				

Nexus Longtom-4

10 3/4" Casing Tally

Casing:	10.75	in	Tenaris Blue M/U loss:	0.128	m
Weight:	55.5	lb/ft	NSCC M/U loss:	0.143	m
Grade:	L80				
Burst:	6,450	psi	Tenaris Blue Min MU TQ:	21,100	ftlbs
Collapse:	4,020	psi	Tenaris Blue Opt MU TQ:	23,500	ftlbs
Yield:	1,276	klbs	Tenaris Blue Max MU TQ:	25,800	ftlbs
Wall Thick.:	0.495	in	NSCC Min MU TQ:	10,200	ftlbs
Nominal ID:	9.76	in	NSCC Opt MU TQ:	11,700	ftlbs
Drift ID:	9.604	in	NSCC Max MU TQ:	13,300	ftlbs
Csg Cap.:	0.3036	bbl/m			
Metal Displ.:	0.0647	bbl/m	Top 18 3/4" WH:	93.97	m
			Top 30" WH:	95.10	m

		SHOE DEPTH	TOTAL STICKUP	
Tenaris Blue Thread Loss:	0.128			
NSCC Q125 Thread Loss:	0.143	2,590.78		" Mic ID Tenaris Blue= 9.789"

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
1	**Float Shoe Joint A**	12.08	12.08	12.08	**2,590.78**	2,578.70	2X CENTRALISERS EVENLY SPACED
2	Inter Jt	11.70	11.57	23.65	2,578.70	2,567.13	CENTER on stop collar mid jnt
3	Float Collar	0.36	0.36	24.01	2,567.13	2,566.77	
4	Float Collar Jt	11.54	11.54	35.55	2,566.77	2,555.23	CENTER on stop collar mid jnt
5	224	11.29	11.16	46.71	2,555.23	2,544.07	CENTER on stop collar mid jnt
6	223	11.75	11.62	58.34	2,544.07	2,532.44	CENTER on stop collar mid jnt
7	222	11.79	11.66	70.00	2,532.44	2,520.78	CENTER on stop collar mid jnt
8	221	11.78	11.65	81.65	2,520.78	2,509.13	CENTER on stop collar mid jnt
9	220	11.79	11.66	93.31	2,509.13	2,497.47	CENTER on stop collar mid jnt
10	219	11.73	11.60	104.91	2,497.47	2,485.87	CENTER on stop collar mid jnt
11	218	11.72	11.59	116.51	2,485.87	2,474.27	CENTER on stop collar mid jnt
12	217	11.73	11.60	128.11	2,474.27	2,462.67	CENTER on stop collar mid jnt
13	216	11.78	11.65	139.76	2,462.67	2,451.02	CENTER on stop collar mid jnt
14	215	11.72	11.59	151.35	2,451.02	2,439.43	CENTER on stop collar mid jnt INSTALL PIP TAG BETWEEN BOX OF JOINT #215 & PIN OF JOINT#214
15	214	11.75	11.62	162.97	2,439.43	2,427.81	CENTER on stop collar mid jnt
16	213	11.70	11.57	174.55	2,427.81	2,416.23	CENTER on stop collar mid jnt
17	212	11.76	11.63	186.18	2,416.23	2,404.60	CENTER on stop collar mid jnt
18	211	11.77	11.64	197.82	2,404.60	2,392.96	CENTER on stop collar mid jnt
19	210	11.76	11.63	209.45	2,392.96	2,381.33	CENTER on stop collar mid jnt
20	209	11.61	11.48	220.93	2,381.33	2,369.85	CENTER on stop collar mid jnt
21	208	11.77	11.64	232.58	2,369.85	2,358.20	CENTER on stop collar mid jnt
22	207	11.73	11.60	244.18	2,358.20	2,346.60	CENTER on stop collar mid jnt
23	206	11.77	11.64	255.82	2,346.60	2,334.96	CENTER on stop collar mid jnt
24	205	11.68	11.55	267.37	2,334.96	2,323.41	CENTER on stop collar mid jnt
25	204	11.77	11.64	279.01	2,323.41	2,311.77	CENTER on stop collar mid jnt
26	203	11.74	11.61	290.63	2,311.77	2,300.15	CENTER on stop collar mid jnt
27	202	11.79	11.66	302.29	2,300.15	2,288.49	CENTER on stop collar mid jnt
28	201	11.76	11.63	313.92	2,288.49	2,276.86	CENTER on stop collar mid jnt
29	200	11.79	11.66	325.58	2,276.86	2,265.20	CENTER on stop collar mid jnt
30	Tenaris Pin x NSCC Box X/O 2	2.20	2.07	327.65	2,265.20	2,263.13	
31	60.7# Q125 Jt 1	12.24	12.10	339.75	2,263.13	2,251.03	CENTER on stop collar mid jnt
32	60.7# Q125 Jt 2	12.15	12.01	351.76	2,251.03	2,239.02	CENTER on stop collar mid jnt
33	60.7# Q125 Jt 3	12.10	11.96	363.72	2,239.02	2,227.07	CENTER on stop collar mid jnt
34	NSCC Pin x Tenaris Box X/O 1	2.20	2.06	365.77	2,227.07	2,225.01	
35	199	11.75	11.62	377.39	2,225.01	2,213.39	CENTER on stop collar mid jnt
36	198	11.74	11.61	389.01	2,213.39	2,201.77	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
37	197	11.78	11.65	400.66	2,201.77	2,190.12	
38	196	11.79	11.66	412.32	2,190.12	2,178.46	
39	195	11.76	11.63	423.95	2,178.46	2,166.83	
40	194	11.77	11.64	435.59	2,166.83	2,155.19	
41	193	11.72	11.59	447.19	2,155.19	2,143.59	
42	192	11.78	11.65	458.84	2,143.59	2,131.94	
43	191	11.78	11.65	470.49	2,131.94	2,120.29	
44	190	11.53	11.40	481.89	2,120.29	2,108.89	
45	189	11.78	11.65	493.54	2,108.89	2,097.24	
46	188	11.68	11.55	505.10	2,097.24	2,085.68	
47	187	11.28	11.15	516.25	2,085.68	2,074.53	
48	186	11.78	11.65	527.90	2,074.53	2,062.88	
49	185	11.70	11.57	539.47	2,062.88	2,051.31	
50	184	11.77	11.64	551.11	2,051.31	2,039.67	
51	183	11.80	11.67	562.79	2,039.67	2,027.99	
52	182	11.73	11.60	574.39	2,027.99	2,016.39	
53	181	11.72	11.59	585.98	2,016.39	2,004.80	
54	180	11.78	11.65	597.63	2,004.80	1,993.15	
55	179	11.75	11.62	609.25	1,993.15	1,981.53	
56	178	11.79	11.66	620.92	1,981.53	1,969.86	
57	177	11.73	11.60	632.52	1,969.86	1,958.26	
58	176	11.75	11.62	644.14	1,958.26	1,946.64	
59	175	11.78	11.65	655.79	1,946.64	1,934.99	
60	174	11.34	11.21	667.00	1,934.99	1,923.78	
61	173	11.73	11.60	678.61	1,923.78	1,912.17	
62	172	11.75	11.62	690.23	1,912.17	1,900.55	
63	171	11.76	11.63	701.86	1,900.55	1,888.92	
64	170	11.76	11.63	713.49	1,888.92	1,877.29	
65	169	11.76	11.63	725.12	1,877.29	1,865.66	
66	168	11.79	11.66	736.79	1,865.66	1,853.99	
67	167	11.76	11.63	748.42	1,853.99	1,842.36	
68	166	11.78	11.65	760.07	1,842.36	1,830.71	
69	165	11.64	11.51	771.58	1,830.71	1,819.20	
70	164	11.72	11.59	783.17	1,819.20	1,807.61	
71	163	11.75	11.62	794.80	1,807.61	1,795.98	
72	162	11.79	11.66	806.46	1,795.98	1,784.32	
73	161	11.79	11.66	818.12	1,784.32	1,772.66	
74	160	11.76	11.63	829.75	1,772.66	1,761.03	
75	159	11.66	11.53	841.28	1,761.03	1,749.50	
76	158	11.73	11.60	852.89	1,749.50	1,737.89	
77	157	11.75	11.62	864.51	1,737.89	1,726.27	
78	156	11.76	11.63	876.14	1,726.27	1,714.64	
79	155	11.75	11.62	887.76	1,714.64	1,703.02	
80	154	11.76	11.63	899.39	1,703.02	1,691.39	
81	153	11.75	11.62	911.02	1,691.39	1,679.76	
82	152	11.78	11.65	922.67	1,679.76	1,668.11	
83	151	11.80	11.67	934.34	1,668.11	1,656.44	
84	150	11.77	11.64	945.98	1,656.44	1,644.80	
85	149	11.76	11.63	957.61	1,644.80	1,633.17	
86	148	11.78	11.65	969.27	1,633.17	1,621.51	
87	147	11.78	11.65	980.92	1,621.51	1,609.86	
88	146	11.78	11.65	992.57	1,609.86	1,598.21	
89	145	11.74	11.61	1,004.18	1,598.21	1,586.60	
90	144	11.78	11.65	1,015.83	1,586.60	1,574.95	
91	143	11.73	11.60	1,027.44	1,574.95	1,563.34	
92	142	11.79	11.66	1,039.10	1,563.34	1,551.68	
93	141	11.79	11.66	1,050.76	1,551.68	1,540.02	
94	140	11.74	11.61	1,062.37	1,540.02	1,528.41	
95	139	11.73	11.60	1,073.97	1,528.41	1,516.81	
96	138	11.77	11.64	1,085.62	1,516.81	1,505.16	
97	137	11.77	11.64	1,097.26	1,505.16	1,493.52	
98	136	11.77	11.64	1,108.90	1,493.52	1,481.88	
99	135	11.79	11.66	1,120.56	1,481.88	1,470.22	
100	134	11.74	11.61	1,132.17	1,470.22	1,458.61	
101	133	11.70	11.57	1,143.75	1,458.61	1,447.03	
102	132	11.77	11.64	1,155.39	1,447.03	1,435.39	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
103	131	11.77	11.64	1,167.03	1,435.39	1,423.75	
104	130	11.55	11.42	1,178.45	1,423.75	1,412.33	
105	129	11.77	11.64	1,190.09	1,412.33	1,400.69	
106	128	11.68	11.55	1,201.65	1,400.69	1,389.13	
107	127	11.76	11.63	1,213.28	1,389.13	1,377.50	
108	126	11.73	11.60	1,224.88	1,377.50	1,365.90	
109	125	11.78	11.65	1,236.53	1,365.90	1,354.25	
110	124	11.72	11.59	1,248.12	1,354.25	1,342.66	
111	123	11.79	11.66	1,259.79	1,342.66	1,330.99	
112	122	11.75	11.62	1,271.41	1,330.99	1,319.37	
113	121	11.75	11.62	1,283.03	1,319.37	1,307.75	
114	120	11.76	11.63	1,294.66	1,307.75	1,296.12	
115	119	11.76	11.63	1,306.29	1,296.12	1,284.49	
116	118	11.76	11.63	1,317.93	1,284.49	1,272.85	
117	117	11.78	11.65	1,329.58	1,272.85	1,261.20	
118	116	11.76	11.63	1,341.21	1,261.20	1,249.57	
119	115	11.75	11.62	1,352.83	1,249.57	1,237.95	
120	114	11.76	11.63	1,364.46	1,237.95	1,226.32	
121	113	11.74	11.61	1,376.08	1,226.32	1,214.70	
122	112	11.79	11.66	1,387.74	1,214.70	1,203.04	
123	111	11.69	11.56	1,399.30	1,203.04	1,191.48	
124	110	11.80	11.67	1,410.97	1,191.48	1,179.81	
125	109	11.69	11.56	1,422.53	1,179.81	1,168.25	
126	108	11.76	11.63	1,434.17	1,168.25	1,156.61	
127	107	11.75	11.62	1,445.79	1,156.61	1,144.99	
128	106	11.78	11.65	1,457.44	1,144.99	1,133.34	
129	105	11.79	11.66	1,469.10	1,133.34	1,121.68	
130	104	11.75	11.62	1,480.72	1,121.68	1,110.06	
131	103	11.76	11.63	1,492.36	1,110.06	1,098.42	
132	102	11.77	11.64	1,504.00	1,098.42	1,086.78	
133	101	11.74	11.61	1,515.61	1,086.78	1,075.17	
134	100	11.77	11.64	1,527.25	1,075.17	1,063.53	
135	99	11.75	11.62	1,538.87	1,063.53	1,051.91	
136	98	11.75	11.62	1,550.50	1,051.91	1,040.28	
137	97	11.75	11.62	1,562.12	1,040.28	1,028.66	
138	96	11.78	11.65	1,573.77	1,028.66	1,017.01	
139	95	11.75	11.62	1,585.39	1,017.01	1,005.39	
140	94	11.71	11.58	1,596.97	1,005.39	993.81	
141	93	11.74	11.61	1,608.59	993.81	982.19	
142	92	11.64	11.51	1,620.10	982.19	970.68	
143	91	11.74	11.61	1,631.71	970.68	959.07	
144	90	11.75	11.62	1,643.33	959.07	947.45	
145	89	11.74	11.61	1,654.94	947.45	935.84	
146	88	11.52	11.39	1,666.34	935.84	924.44	
147	87	11.75	11.62	1,677.96	924.44	912.82	
148	86	11.74	11.61	1,689.57	912.82	901.21	
149	85	11.75	11.62	1,701.19	901.21	889.59	
150	84	11.76	11.63	1,712.82	889.59	877.96	
151	83	11.74	11.61	1,724.44	877.96	866.34	
152	82	11.76	11.63	1,736.07	866.34	854.71	
153	81	11.75	11.62	1,747.69	854.71	843.09	
154	80	11.76	11.63	1,759.32	843.09	831.46	
155	79	11.74	11.61	1,770.93	831.46	819.85	
156	78	11.78	11.65	1,782.59	819.85	808.19	
157	77	11.74	11.61	1,794.20	808.19	796.58	
158	76	11.80	11.67	1,805.87	796.58	784.91	
159	75	11.74	11.61	1,817.48	784.91	773.30	
160	74	11.74	11.61	1,829.09	773.30	761.69	
161	73	11.74	11.61	1,840.71	761.69	750.07	
162	72	11.74	11.61	1,852.32	750.07	738.46	
163	71	11.77	11.64	1,863.96	738.46	726.82	
164	70	11.77	11.64	1,875.60	726.82	715.18	
165	69	11.78	11.65	1,887.25	715.18	703.53	
166	68	11.75	11.62	1,898.88	703.53	691.90	
167	67	11.78	11.65	1,910.53	691.90	680.25	
168	66	11.78	11.65	1,922.18	680.25	668.60	

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS
169	65	11.77	11.64	1,933.82	668.60	656.96	
170	64	11.73	11.60	1,945.42	656.96	645.36	
171	63	11.77	11.64	1,957.07	645.36	633.71	
172	62	11.73	11.60	1,968.67	633.71	622.11	
173	61	11.47	11.34	1,980.01	622.11	610.77	
174	60	11.75	11.62	1,991.63	610.77	599.15	
175	59	11.75	11.62	2,003.25	599.15	587.53	
176	58	11.54	11.41	2,014.67	587.53	576.11	
177	57	11.76	11.63	2,026.30	576.11	564.48	
178	56	11.71	11.58	2,037.88	564.48	552.90	
179	55	11.77	11.64	2,049.52	552.90	541.26	
180	54	11.76	11.63	2,061.15	541.26	529.63	
181	53	11.78	11.65	2,072.81	529.63	517.97	
182	52	11.81	11.68	2,084.49	517.97	506.29	
183	51	11.76	11.63	2,096.12	506.29	494.66	
184	50	11.73	11.60	2,107.72	494.66	483.06	
185	49	11.76	11.63	2,119.35	483.06	471.43	
186	48	11.75	11.62	2,130.98	471.43	459.80	
187	47	11.79	11.66	2,142.64	459.80	448.14	
188	46	11.70	11.57	2,154.21	448.14	436.57	
189	45	11.74	11.61	2,165.82	436.57	424.96	
190	44	11.72	11.59	2,177.41	424.96	413.37	
191	43	11.75	11.62	2,189.04	413.37	401.74	
192	42	11.75	11.62	2,200.66	401.74	390.12	
193	41	11.73	11.60	2,212.26	390.12	378.52	
194	40	11.76	11.63	2,223.89	378.52	366.89	
195	39	11.78	11.65	2,235.54	366.89	355.24	
196	38	11.74	11.61	2,247.16	355.24	343.62	
197	37	11.75	11.62	2,258.78	343.62	332.00	
198	36	11.72	11.59	2,270.37	332.00	320.41	
199	35	11.75	11.62	2,281.99	320.41	308.79	
200	34	11.78	11.65	2,293.64	308.79	297.14	
201	33	11.79	11.66	2,305.31	297.14	285.47	
202	32	11.77	11.64	2,316.95	285.47	273.83	
203	31	11.75	11.62	2,328.57	273.83	262.21	
204	30	11.77	11.64	2,340.21	262.21	250.57	
205	29	11.78	11.65	2,351.86	250.57	238.92	
206	28	11.72	11.59	2,363.46	238.92	227.32	
207	27	11.20	11.07	2,374.53	227.32	216.25	
208	26	11.75	11.62	2,386.15	216.25	204.63	
209	25	11.78	11.65	2,397.80	204.63	192.98	
210	24	11.76	11.63	2,409.43	192.98	181.35	
211	23	11.72	11.59	2,421.03	181.35	169.75	
212	22	11.76	11.63	2,432.66	169.75	158.12	
213	21	11.77	11.64	2,444.30	158.12	146.48	
214	20	11.74	11.61	2,455.91	146.48	134.87	
215	19	11.74	11.61	2,467.52	134.87	123.26	
216	18	11.71	11.58	2,479.11	123.26	111.67	
217	17	11.39	11.26	2,490.37	111.67	100.41	
	10 3/4" Csg Hgr below land off point	5.35	5.22	2,495.59	100.41	95.19	
	10 3/4" Csg Hgr above land off point	0.57	0.57	2,496.16	95.19	94.62	**Casing hanger LOP = 1.22m below top of 18 3/4" WH = 95.19m**
	Csg Hgr running tool stick up	1.41	1.41	2,497.57	94.62	93.21	
	X/O	1.20	1.20	2,498.77	93.21	92.01	
	Dbl HWDP above R/tool	18.80	18.80	2,517.57	92.01	73.21	
	1 Std HWDP	28.18	28.18	2,545.75	73.21	45.03	
	2 Std HWDP	28.21	28.21	2,573.96	45.03	16.82	
	Sgl HWDP from deck	9.40	9.40	2,583.36	16.82	7.42	
	Cmt stand down	7.42	7.42	2,590.78	7.42	0.00	**1.98m Stick Up**

NO JTS RUN	JOINT NO	O/A LENGTH	EFFECTIVE LENGTH	RUNNING LENGTH	SETTING DEPTH (BTM)	SETTING DEPTH (TOP)	COMMENTS

JOINTS REMAINING ON LOCATION:

10 3/4" CASING ON DECK				JOINT SUMMARY			
No	Joint No	O/A Length	EFF Length	On Site	Ran	Spare	Details
1	No number	N/A					Rec'd onboard damaged
2	16	11.71	11.58				
3	15	11.73	11.60				
4	14	11.05	10.92				
5	13	11.77	11.64				
6	12	11.79	11.66				
7	11	11.78	11.65				
8	10	11.77	11.64				
9	9	11.74	11.61				
10	8	11.72	11.59				
11	7	11.75	11.62				
12	6	11.78	11.65				
13	5	11.76	11.63				
14	4	11.77	11.64				
15	3	11.75	11.62				
16	2	11.75	11.62				
17	1	11.74	11.61				
18	Bakerlocked X/O A	12.20	12.07				
19	Bakerlocked X/O B	12.21	12.08				
20	Bakerlocked X/O C	12.17	12.04				
21	Tenaris Box x NSCC Pin X/O 3	2.00	1.87				
22	Tenaris Pin x NSCC Box X/O 4	2.00	1.87				
23	Q125 4	12.200	12.07				
24	Q125 5	12.210	12.08				
25	Q125 6	12.170	12.03				
26			-0.14				
27			-0.14				
28			-0.14				
29			-0.14				
30			-0.14				
31			-0.14				

APPENDIX 5: BIT RECORD

OPERATOR	Nexus Energy Ltd	WELL NAME	Longtom-4/Longtom-4P/Longtom-4H	LOCATION	VIC / L29	CONTRACTOR	Seadrill	RIG	West Triton

Mud Pump Data
Pumps 1, 2, and 3
165 mm 6.5" Liners
355 mm 14" Stroke
97% Efficiency, 26.5 litre/stk
(0.139 bbl/stk)

BIT DULL CHARACTERISTICS

BC - Broken Cone	CI - Cone Interference	JD - Junk Damage	PB - Pinched Bit	SS - Self-Sharpening
BT - Broken Teeth	CR - Cored	LC - Lost Cone	PN - Plugged Nozzle	TR - Tracking
BU - Balled Up	CT - Chipped Teeth	LN - Lost Nozzle	RG - Rounded Gauge	WO - Washed-Out Bit
CC - Cracked Cone	FC - Flat Crested Wear	LT - Lost Teeth	RO - Ring Out	WT - Worn Teeth
CD - Cone Dragged	HC - Heat Checking	OC - Off-Center Wear	SD - Shirttail Damage	NO - No Dull Charact.

REASONS PULLED

BHA - Bottomhole Assembly	LOG - Run Logs	FM - Formation Change	TD - Total / Csg depth
DMF - Downhole Motor failure	RIG - Rig repair	HP - Hole Problems	TQ - Torque
DSF - Drill String failure	CM - Condition Mud	HR - Hours	TW - Twist-Off
DST - Drill Stem Test	CP - Core Point	PP - Pump Pressure	WC - Weather Conditions
DTF - Downhole Tool Failure	DP - Drill Plug	PR - Penetration rate	WO - Washout - Drill String

BHA #	BIT No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	CIRC HRS	WOB klbf	RPM Surf/Motor	TBR krev	SPP psi	FLOW gpm	TQ kft.lb	GRADE I	O	D	L	B	G	O	R	MW SG	REMARKS
			Longtom-4																								
	914mm (36") Hole section 97.0m - 132.0m																										
1	RB1	Reed	Rock / Y11C	1.310	3x22, 1x16	34406	97.00	35.0	2.6	13.5	2.6	0.7 - 9.6	51 - 94	9.6	32 - 856	240 - 1014	0.02 - 1.9	1	1	WT	A	0	I	NO	TD	1.04 (SW)	30" Casing Point
	559mm (22") Hole Section 132.0 - 755.0 m																										
2	RB2	Smith	Rock / XR+C	1.286	3x22, 1x15	MZ3173	132.0	623.0	26.8	23.2	31.2	0.6 - 34.0	57 - 188	232.1	396 - 1927	599 - 1212	0 - 5.0	2	2	WT	A	1	I	NO	TD	1.04 (SW)	16" Casing Point
	375mm (14-3/4") Clean Out BHA 755.0 - 758.0 m																										
3	NB3	Reed	Rock / T11	1.117	3x20, 1x16	WC6252	755.0	3.0	0.2	15.0	2.4	6.1 - 6.7	78 - 79	1.1	1689 - 1691	1114 - 1115	0.03 - 0.07	0	0	NO	A	0	I	NO	BHA	1.04 (SW)	Clean out BHA
	343mm (13-1/2") Hole Section 758.0 - 2600.0 m																										
4	NB4	Reed	PDC/RSX616M-A3	1.335	3x18, 3x16	219224	758.0	1273.0	42.3	30.1	62.2	0.9 - 42.3	72 - 173	248.9	2719 - 3978	646 - 1205	0 - 18.3	2	4	CT	A	X	I	WT	BHA	1.43-1.45	
5	NB5	Smith	PDC/M516LSPX	1.359	3x18, 2x20	JY2593	2031.0	569.0	11.8	48.2	46.1	2.3 - 51.5	100 - 169	103.8	3251 - 4252	983 - 1222	0.2 - 18.3	0	0	NO	A	X	I	RR	TD	1.43-1.45	10.75" Casing Point
6	RB6	Smith	PDC/M516LSPX	1.359	3x18, 2x20	JY2593	2600.0	0.0	0.0	0.0	11.8	5.0	150	103.8	3900	1050	5.0 - 8.0	0	0	NO	A	X	I	NO	LOG	1.44	Wiper Trip
			Longtom-4 P																								
	241mm (9-1/2") Pilot Hole Section 2600.0 - 2987.0 m																										
7	NB7	Smith	PDC / M716SPXC	1.374	7 X 16	JY 2803	2600.0	241.0	9.4	25.6	21.3	3 - 33	160 - 209	88.4	2800 - 3150	700 - 770	5.1 - 15.2	2	4	BT	A	X	I	RO	CP	11.9 - 12.1	Coring point
8	CB8	HTC	Core Bit	0.750	No Jets	7212164	2841.0	55.0	3.6	15.3	4.8	1 - 9	59 - 70	14.5	830 - 1020	220 - 225	3.3 - 7.4	1	1	WT	A	X	I	NO	TD	12.0 - 12.1	Coring
9	NB9	Smith	PDC / M716SPXC	1.370	7x16	JY 2083	2896.0	91.0	6.8	13.4	13.8	7 - 28	110 - 162	5.4	2800 - 3130	650 - 725	4.9 - 14.6	1	7	WT	S	X	I	RO	TD	12.0 - 12.2	Pilot Hole TD
			Longtom-4 H																								
	241mm (9-1/2") Production Hole Section 2696.0 - 4648.0 m																										
10	NB10	Reed	PDC/RSR616M-B3	1.178	6 X 16	218795	2696.0	881.0	54.8	16.1	77.6	12.0 - 25.0	145 - 160	447.0	2800 - 3620	700 - 806	2.5 - 15.0	2	6	BT	S	X	I	JD	DTF	12.1	MWD Failure
11	NB11	Reed	PDC/RSX616M-A4	1.178	6 X 16	216535	3577.0	1071.0	41.1	26.1	76.2	4.0 - 22.0	148 - 153	364.0	3500 - 4200	740 - 790	8.0 - 15.0	1	1	WT	N	X	I	NO	TD	12.0	Well TD
					RT-AHD (m)			41.10 mMDRT																			

APPENDIX 6: DRILLING FLUIDS SUMMARY

HALLIBURTON

Fluid Systems

BAROID FLUID SERVICES RECAP

NEXUS ENERGY PTY LTD
WEST TRITON
BASS STRAIT, VICTORIA

Longtom 4

Prepared by: E Edwards
T Waldhuter
B Auckram
J Munford
G Lange
K Georgiou

Date: June/July/August/September, 2008

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8. DAILY MUD REPORTS

1. WELL SUMMARY

1.1 Well Data

Well Name	:	Longtom-4
Operator	:	Nexus Energy Pty Ltd
Well Type	:	Horizontal / Production
Bottom Hole Temperature	:	
Maximum Inclination	:	94.02°
Location	:	VIC/P54, Bass Straight, Victoria
Contractor/Rig	:	West Triton
Start Date (Rig)	:	19/06/2008
Baroid On Location	:	19/06/2008
Drill Out Date	:	21/06/2008
RT to Mud-line	:	97 m
Total Depth	:	4648 m
Date TD Reached	:	10/08/2008
Total Days Actual Drilling	:	33
Date Released	:	18/09/2008
Total Days on Well	:	92
Drilling Cuttings Volume	:	2882 bbls

Formation Tops

This well was Drilled "Tight Hole" – no formation data available.

Formation	MDRT (m)	TVDRT (m)	Length (m MD)
Confidential			
Total Depth			

1.3 Casing Program

30	Conductor	@	128.86 m MDRT
16	Intermediate Casing	@	749 m MDRT
10.75"	Casing	@	2583m MDRT
7"	Production Liner	@	4648m MDRT

1.4 Personnel

Drilling Supervisors	:	Bill Openshaw	Stefan Schmidt	
	:	Sean DeFreitas	Rocco Rossouw	
Baroid Field Service Reps.	:	Eugene Edwards	Tim Waldhuter	Gerald Lange
		James Munford	Brian Auckram	Kosta Georgiou

2. COST SUMMARY

2.1 Drilling Fluid Costs

	Drilling Fluid	Hole Size	MD From	MD To	Cost USD $
1.	Seawater and Viscous Sweeps	36”	97m (36”)	132m (36”)	22,743.44
2.	Pad Mud / Displacement Mud	x 22”	132m (22”)	755 m (22”)	
3.	Accolade	13.5”	755 m	2600 m	1,361,009.26
4.	Accolade	9.5” Pilot	2600m	2987m	288,264.86
5.	Accolade	9.5” Lateral	2600m	4648m	298,559.12
6	Completion	N/A	97 m	4648m	186,553.77
Mud Materials Used For Drilling				**USD $**	**1,972,832.21**
Mud Materials Used For Cementing				**USD $**	**14,198.18**
Mud Materials Used For Completion CaCl2 Brine				**USD $**	**186,553.77**
Other Materials Used (Cleaning Pits & Rig Cleaning)				**USD $**	**32,051.91**
Products Lost / Damaged				**USD $**	**339.72**
Solids Control / Waste Management Cost				**USD $**	**0**
Total Materials				**Total USD $**	**2,205,975.79**

2.2 Engineering Costs

Service Representatives	From (date)	To (date)	Days
James Munford	19/06/08	25/06/08	7
Eugene Edwards	19/06/08	02/07/08	14
Tim Waldhuter	26/06/08	09/07/08	14
Brian Auckram	03/07/08	18/07/08	16
James Munford	10/07/08	23/07/08	14
James Munford	05/08/08	12/08/08	8
Eugene Edwards	19/07/08	30/7/08	12
Gerald Lange	14/08/08	27/08/08	14
Tim Waldhuter	24/07/08	04/08/08	12
Brian Auckram	31/07/08	13/08/08	14
Tim Waldhuter	13/08/08	3/09/08	22
Brian Auckram	28/08/08	10/09/08	14
Kosta Georgiou	4/09/08	17/09/08	14
Gerald Lange	11/09/08	18/09/08	8
Tim Waldhuter	18/09/08	18/09/08	1
Total Days:			184
Service Cost	**@ USD $ 1250**	**USD $**	**230,000.00**
Total Cost of Materials & Engineering:		**USD $**	**2,435,975.79**

3. PERFORMANCE SUMMARY

3.1 Comments

The West Triton was moved from Garfish-1 to Longtom-4 location on the 19th June 2008.

3.2 Performance Indicators

Interval 1 and 2. (97m–755 m) – 36"x 22"	**Program**	**Actual**	**Achieved**
			(+/- 10 %)
• Drilled, m	663	658	Yes
• Volume Built, bbl	5667	4679	Yes
• Dilution Rate, bbl/m	NA	NA	NA
• Consumption Rate, bbl/m	8.54	7.11	Yes
• Mud Cost / bbl, US$	5.97	4.86	Yes
• Mud Cost / m, US$	51.10	34.56	Yes
• Interval Mud Cost, US$	33,882.54	22,743.44	Yes
Interval 3. (755m – 2,600m) – 13.5 " Interval	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	1725	1845	Yes
• Volume Built, bbl	3238	5317	No
• Dilution Rate, bbl/m	0.7	2.88	No
• Consumption Rate, bbl/m	1.91	.83	Yes
• Mud Cost / bbl, US$	429.58	255.97	Yes
• Mud Cost / m, US$	806.37	737.67	Yes
• Interval Mud Cost, US$	1,390,990.27	1,361,009.26	Yes
•			
Interval 4. (2,600m - 2987) – 9.5 "Pilot Interval	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	243	387	No
• Volume Built, bbl	483	539	No
• Dilution Rate, bbl/m	0.6	1.39	No
• Consumption Rate, bbl/m	1.70	.43	Yes
• Mud Cost / bbl, US$	388.32	534.81	No
• Mud Cost / m, US$	771.84	744.87	Yes
• Interval Mud Cost, US$	187,559.84	288,264.86	No
Interval 5. (2,600m - 4648) – 9.5 " Horizontal	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	3419	2048	No
• Volume Built, bbl	2060	1047	Yes
• Dilution Rate, bbl/m	0.6	0.5	Yes
• Consumption Rate, bbl/m	0.59	1.19	No
• Mud Cost / bbl, US$	703.56	285.15	Yes
• Mud Cost / m, US$	423.91	145.78	Yes
• Interval Mud Cost, US$	1,449,352.13	298,559.12	No
Interval 6. Completion	**Program**	**Actual**	**Achieved**
			(+/- 10 % or less than)
• Drilled, m	N/A	N/A	N/A
• Volume Built, bbl	-	4936	N/A
• Dilution Rate, bbl/m	N/A	N/A	N/A
• Consumption Rate, bbl/m	N/A	N/A	N/A
• Mud Cost / bbl, US$	N/A	N/A	N/A
• Mud Cost / m, US$	N/A	N/A	N/A
• Interval Mud Cost, US$	219,335.16	186,553.77	Yes

3.3 Explanation of Non-Conformance

Interval 1 and 2: 36" and 22"

The volume of Pre-Hydrated Bentonite (PHB) mud built for sweeps and the cost was lower then programmed.
This was due to 860 bbls of old KCL mud from Garfish 1, being used as displacement fluid.
The depth of hole drilled was 35m shallower.
The PHB was mixed at 30ppb and cut back with 30-50% sea water and 0.2 ppb lime to maintain programmed viscosity.

Interval 3: 13.5"
Programmed values were based on:
"Mud cost per barrel is calculated on the total volume required for each interval, and considers both the cost of whole mud and maintenance chemicals.
*Mud cost per metre is based on the **net** interval cost after considering the full value of salvaged whole mud to be used in the next interval.*
**Net interval mud cost is calculated using an indicative value only for return mud credit. For details refer to terms & conditions."*
(From Mud Program)

Interval 4: 9.5" Pilot
The interval cost was above programmed cost; however this was largely due to the use of 287 bbls of base oil. This was added to the premix pits to lift the oil water ratio above 70:30, so that when added to the active it would improve the oil water ratio, form 65:35 to specification.

The volume of premix added to the active was only approximately 250 bbls, leaving the remaining premix, 1341bbls for the horizontal section.

Interval 5: 9.5" Lateral
Comparisons of actual costs to programmed costs are not relevant as the drilling program varied from the planned drilling program.

Interval 6: Completion
The completion string had to be pulled and re-run. 6,000 bbls of 11.0 ppg $CaCl_2$ Brine were requested, 6,270 bbls of 11.0 ppg $CaCl_2$ Brine were mixed.

4. INTERVAL - 1

4.1 SUMMARY

36" Hole From 97m To 132 m In 1 Day

Drilling Fluid Seawater and Viscous Sweeps, Spud Mud
Formations Gippsland.

Longtom 4 was spudded at 18:30 on 21/06/2008.

The 36" interval was drilled riser-less, using seawater and unweighted hi-vis flocculated spud mud sweeps from 97 m to 132 m. The spud mud used for sweeps was built from pre-hydrated bentonite at 30 ppb, cut back with seawater once hydrated and flocculated by the addition of lime, prior to pumping. 75 bbl sweeps were pumped at each single to clean the hole.

After drilling to 132m, a 200bbl flocculated PHB sweep was pumped to clean the hole and the open hole was displaced with 280 bbls of old KCL /Polymer mud from the previous well.

The 30" conductor was run to 128.86m. It was then cemented as per program.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, sg	ALAP	ALAP	8.5	8.8	Yes
6 rpm, lb/100 ft²			55	60	
YP, lbs/100ft^2			70	70	
Viscosity, sec/qt	100	>100	155	180	Yes
pH	8	8.5	8.5	8.5	Yes

Maintenance

- The bentonite used was first prehydrated in drill water at a concentration of 30-35 ppb. This was then cut back to 20 ppb using seawater. Lime was added prior to use to enhance viscosity. Caustic soda was used to obtain required alkalinity.

- Sea water was used from Pit # 7 for drilling. The hi-vis sweeps were contained in pits 3, 4, and 8. The PHB was cut back with sea water in pit 5.

INTERVAL - 2

4.2 Summary

22" Hole From 132 m To 755 m In 3 Days

Drilling Fluid Flocculated Seawater/Bentonite and Guar gum sweeps
Formations Gippsland Limestone

The 22" section was drilled using flocculated seawater / pre-hydrated bentonite fluid. Pre-hydrated Bentonite at 30 ppb was prepared and pre-hydrated. The PHB was then cut back with seawater to approximately 15-20ppb. To achieve required viscosity Lime was added prior to pumping.

The sweep regime used was 1 x 50bbl sweep per single, with the last sweep timed to be around the BHA during the connection. The first sweep each stand was either Flocculated PHB or Guar Gum. The remaining sweeps pumped were PHB.

At TD 755m at 150 bbls PHB sweep was pumped and the hole circulated clean with seawater, followed by 400 bbls PHB. Approximately 700 bbl of 9.6 ppg inhibited, 4-5%KCl / PHB mud, was spotted on bottom, prior to pulling out of the hole to run casing. This was made with 580 bbls old KCL mud and 120 bbls PHB.

All mud returns to sea floor.

The 16" casing was run and cemented with no problems.

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Properties	**Programmed**		**Actual**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	ALAP	<9.5	8.5	8.8	Yes
Viscosity, sec/qt	80	>80	155	180	Yes
pH	8	8.5	8.5	8.5	Yes

Explanation of Non-Conformance

- The Funnel Viscosity quoted includes measurement for the unflocculated PHG.

Maintenance

- The fluid for this interval consisted of prehydrated gel built at 30 ppb and blended with seawater once hydrated at approximately 2:1 or less, depending on the funnel viscosity at the time of mixing dilution volume.
- Guar gum was mixed at 3 ppb and pumped at the start of each stand.

INTERVAL - 3

4.3 SUMMARY

13.5 ” Hole From 755m To 2600m In 16 Days

Drilling Fluid Accolade SBM
Formations Lakes Entrance, Latrobe

1692 bbls of Accolade was received and treatments began in order to increase the density to the required 12.0ppg and improve the properties of the SBM, prior to displacement.

A 14 ¾” BHA was run in the hole to 736m, the shoe track and cement was drilled out using sea water and left over HI Vis sweeps, from the previous interval.

Sweeps were pumped as required. 3m of new hole was drilled and a LOT performed to 13.7ppg EMW, using sea water.

The Accolade received was treated with Emulsifiers; 10ppb of sized Calcium Carbonate was added. The Accolade mud was weighed up to 12.0ppg, with Barite.

A 13.5" BHA was made up and RIH prior to displacement with SBM. A 50 bbl Hi Vis pill was mixed using the weighted SBM mud and RHEOMOD-L and pumped ahead of the SBM. A total of 50 bbls interface consisting of oily water was diverted into a slops pit.

A 13.5” BHA was then made up for drilling ahead from 758m to 2600 m.

The shakers were initially dressed with 89 mesh screens for the displacement to ensure zero losses over the screens. Once the mud was circulated even, the screens were upgraded to 255/280 mesh. A continual decrease in mud weight occurred and Barite was observed being stripped out of the mud on the shakers. The screens were then replaced with coarser 145/215/255 mesh screens and the mud weight remained steady at 12.0ppg.

There were some minor losses of 20 bbl an hour, shortly after entering the Latrobe formation at approximately 1300m. These were treated and cured with 0.5 ppb Omyacarb 5, 0.5ppb Circal 60/16 and 0.5 ppb **STEEL SEAL**. Intermittent seepage losses of 6-10bbl/hr continued to be a problem despite the continuous addition of sized Calcium Carbonate as a precautionary measure.

Drilling continued to 2346m with surveys where it was necessary to stop drilling due to a leak between standpipe manifold and mud hose. This was repaired and drilling continued to 2405m where the leak reoccurred. While attempting to pull out for repairs there was 25k over-pull and swabbing. A side entry sub was rigged up to circulate while the leak on the standpipe was repaired.

When the repairs were complete drilling resumed to 2434m and this time it was necessary to circulate through the cement hose and repair stand pipe manifold leak.

Drilling resumed without further problems to 2600m TD and the hole was circulated clean.

On pulling out of hole a tight spot was found at 2215m giving 20k over-pull and a second tight spot at 1741m was worked as were tight spots at 1888m, 1781m - 1752m and 1752m - 1727m. The hole was back-reamed from 1727m to 1604m and then tripped normally from 1604m to 1574m. The string was then run in again from 1547m to 1781m and the hole found to be in good condition.

A wiper trip was made to circulate the hole clean for wire-line logging and the hole was found to be in good condition with no evidence of Barite Sag.

After rigging up for wire-line logging the rig suffered several power failures which caused delays.

Wire-line logging experienced a number of problems including the tool not being able to reach bottom and the tool becoming stuck for a short while on two occasions. A wiper trip was run after the second failed logging run and the string ran straight to bottom, with the hole reportedly in good condition.

Following the logging the 10 3/4“casing was run to 2498m and circulated.
The job did not go well with a pressure spike of 2700psi observed shortly after the Spacer was pumped. After an assessment the ball was dropped in an attempt to launch the bottom plug, however no pressure increase was observed. The casing was then circulated at 71spm, until the plug was bumped.

A 9 1/2" BHA was made up to drill out the plugs and RIH. The plugs were found at 2566m and drilled out, as was the float. The shoe track was cleaned out and the string run in to TD at 2600m where the hole was circulated clean and flow checked. The drill string was then POOH.
Cementing equipment was made up and RIH with a 2 7/8" tail pipe on 5 1/2" DP.

An RTTS packer was made up, RIH and set at 140m and bottoms up was circulated. The RTTS was unseated and the cementing equipment was picked up. The cement was pumped and displaced with SBM then the hole was monitored whilst waiting on cement.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	10	15	Partial
HPHT		6	2	4	Yes
NAP / Water ratio	70/30	75/25	65/35	75/25	Yes
ES	>300		380	550	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		<8	3.3	9	No

Explanation of Non-Conformance

- The initial OW ratio of the SBM as checked on the rig was 65/35. This was treated gradually increased by additions of enriched base oil premixes, while drilling. The SBM was supplied by **BAROID** at a 74/26 Oil/Water ratio; it appears that some contamination may have occurred during transit and during initial displacement.
- The initial 6 rpm was 4. This was increased to 10 prior to displacement and then 12-16, with the addition of **RHEOMOD-L** directly to the active, once drilling had started.

BARRY BEACH LIQUID MUD PLANT
ACCOLADE Shipping Advice (Shipment)

Date: 13-Jun-08 **Shipping Advice No:** LMP - AS/545

ST No:

DT No: N/A

Ship from LMP Tanks: ST 4,5 & 6 **To Supply Boat Tank Nos:**

Ship to LMP Tanks: **From Supply Boat Tank Nos:**

Rig: West Triton **Well Name:** Nexus Longtom 4 **Supply Boat:** Via Road

Tank	Contents	Initial Tank Readings		Final Tank Readings		Volume
		cm (from top)	Volume, bbl	cm (from top)	Volume, bbl	Shipped
Mix	Accolade mud					
Accolade Base	Accolade Base					
ST1	Accolade mud					
ST2	Accolade mud					
ST3	Accolade mud					
ST4	Accolade mud	135.0	631.2	1240	6.4	624.8
ST5	Accolade mud	129.0	634.5	1240	6.4	628.1
ST6	Accolade mud	136.0	630.6	1100	85.5	545.1
Brine						
Totals						**1798**

Start Transfer: **End Transfer:** **Transfer Time:**

Completed by: Andy Macmeikan
Baroid LMP Representative

Verified by:
Esso BBMT Representative

Mud Properties

Transfer Sample			Before	During
Batch Reference			Nexus Blend	
Sample Time				
Density at 20 deg C		ppg	9	
Rheology at 120 deg F				
600 / 300		lb/100 sqft	42/24	
200 / 100		lb/100 sqft	19/12	
6 / 3		lb/100 sqft	4/3	
PV / YP			16/4	
Gels; 10 sec / 10 min		lb/100 sqft	5/6	
HTHP Filtrate at 250 deg F		ml/30 min	3.2	
HTHP Filter Cake		32nd inch	2	
Electrical Stability at 49 deg C		volts	224	
Retort-	Water	%	24	
	Base	%	68	
	Solids	%	8	
Base / Water Ratio			74/26	
Water Phase Salinity		ppm CaCl2	255668	
Low Gravity Solids		%	2.76	

One litre of each sample will be retained by Baroid.

Tested by: Andy Macmeikan & Hayden Butler

Note : Sent in 12 truck loads to Pacific Terminals

Maintenance

- The mud weight was increased from 9.1ppg to the required 12ppg, prior to displacing the well to SBM.
- Sized calcium carbonate, at 10ppb was added prior to weighing up.
- Seepage and spurt losses at +/-1300m were treated with a total of 2.5ppb steel seal, 1.5 ppb Omyacarb 5 and 0.9 ppb Circal 60/16.
- Initial 6rpm was very low. **RHEOMOD-L** was added directly to the active to raise the 6 rpm from 4 to 10 for the displacement. This was intentionally below programmed and once the Accolade had been circulated as drilling commenced, was increased to 12-16.
- The initial mud check on the Oil/Water ratio was 65/35. 2 ppb LE **SUPERMUL** was added to keep the water emulsified. The Oil/Water ratio was brought into programmed specification with base oil enriched premixes.
- Initial WPS was 195,000. The WPS was maintained above 200,000 by adding Calcium Chloride directly to the active, as required. Also by using uncut 34% by weight brine in the premixes with O/W ratios of 75/25 or greater.
- The wire line logs became stuck on two occasions during one run and were unable to run to bottom on another. The wiper trip showed that the hole was in good condition.

Solids Control Equipment

- The 4 VSM 300 shakers were dressed with 89 mesh screens, for the initial displacement of un-sheared Accolade SBM. Displacement circulation rate was approximately 500 gpm. The screens were replaced with 255 mesh screens as soon as possible.
- The screens were fined up to a combination of 215's and 255'. A trial was performed with 280 mesh screens; however the shakers were stripping out the barite causing the mud weight to fall from 12 ppg to 11.85 ppg. The 280's were removed.
- With slower drilling and subsequently less cuttings, the flow was directed over 3 shakers dressed with 215's and 255 mesh screens. The 4th shaker was dressed with 89's, then shut down and kept as a back up shaker in the case of an emergency.
- The scalper screens installed on the shakers were 20 mesh screens and were unchanged for the entire well.
- No centrifuges were run as a result the Drilled Solids which passed the shakers had to be controlled with dilution.

INTERVAL - 4

4.4 SUMMARY

9.5 ” Hole From 2600m To 2897m In 4 Days

Drilling Fluid Accolade SBM
Formations Latrobe- Kipper shale, Admiral Sands

An RTTS packer was set while installing the sub sea tree and nippling up the BOP’s. Upon completion of the nippling up operation the packer was retrieved and the riser was displaced back to SBM. The water from the displacement was dumped overboard until the oil/water interface was observed at the gumbo box and the returns lined up over the shakers. The shakers were dressed with 89 mesh screens to prevent any losses over the screens during the displacement.

The initial mud weights when circulation was resumed during drilling out cement were from 11.4ppg to 13.2ppg. This was indicative of Barite sag. There had been no circulation for 10 days during the installation of the sub-sea tree and nippling up BOP’s. Un-weighted premix at 8.7ppg was bled into the active and Barite was also added as necessary to achieve an even mud weight of 11.9+ ppg prior to conducting the FIT.

The rheology was maintained by the direct addition of **TAU-MOD** to the active system while drilling. The shaker screens were changed during the FIT to 280mesh on three shakers, as only three shakers were required due to the lower flow rate while drilling the 9 ½” hole.

The centrifuges were started when drilling resumed after the FIT. The solids discharge pipes became blocked due to insufficient water being used for flushing while operational. This caused the centrifuges to be off-line for 5 hours while unblocking and flushing the discharge lines. The centrifuges were not run again up to the coring point due to the extended down time.

Drilling progressed to Core Point at 2841 meters; a core was cut from 2841 meters to 2895 meters. The shaker screens were inspected while RIH with the 9 ½” coring assembly and any damaged screens were replaced prior to coring. 4x280 mesh new screens were used. The centrifuges were started while coring in order to lower the LGS content. The centrifuges again became blocked after only 20 minutes of operation, due to no water being utilized in flushing the solids discharge chute. The proper running of the centrifuges was discussed and measures taken to ensure the centrifuges would be available as needed.

RHEOMOD-L was added to the active in 0.1 ppb increments while coring to maintain the low end rheology. **LE SUPERMUL** was also added to the active at 1ppb, to ensure emulsion stability. These chemicals were added very slowly due to the very low pump rates while cutting the 54m core to 2895m.

The remaining pilot hole was drilled to 2987m, then logged and cemented.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	10	15	Partial
HPHT		6	2	4	Yes
NAP / Water ratio	70/30	75/25	65/35	75/25	Yes
ES	300		380	550	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		8	5.3	13.6	No

Explanation of Non-Conformance

- The initial mud check revealed an OW ratio of the SBM to be 65/35. This was treated by additions of enriched base oil premixes, while drilling to 70/30.
- The initial 6 rpm dropped from 13 to 10 once the mud heated up and sheared. This was increased to 14 prior to POOH to log, with the addition of **TAU-MOD** and **RHEOMOD-L** directly to the active.
- The starting LGS was 13.6% because the centrifuges were not run as the centrifuge hand was not onboard for the 13.5" section. The centrifuge was run in barite recovery mode for the 9.5" and coring sections, lowering the LGS to below 8%

Maintenance

- The mud weight was maintained by the addition of 11.9ppg and 11ppg premixes. The centrifuges were run in barite recovery mode and 280 fine mesh screens were installed on the shakers.
- Initial 6rpm reading dropped from 13 to 10, **TAU-MOD** and **RHEOMOD-L** were added directly to the active mud to raise the 6 rpm reading to 14.
- The initial Oil Water ratio was 65/35. 3.3 ppb LE **SUPERMUL** was added to keep the water emulsified. The ratio was brought into programmed specification with base oil enriched premixes.

Solids Control Equipment

- The 4 x VSM 300 shakers were dressed with 89 mesh screens, for the initial circulation after the well had been static for 10 days, while waiting on weather and installing the sub sea tree and BOP's. Displacement circulation rate was approximately 500gpm which increased to 700gpm. Three shakers were dressed with 280 mesh screens as soon as possible, while the fourth was dressed with 2 x 255 and 2 x 280 mesh screens. This fourth shaker was not run except for initial circulations after tripping in the hole with new BHA. It was shut down once circulation had been established and the 3 x 280 mesh dressed shakers were used.
- With slower circulating while coring, only 2 shakers were utilized.
- The scalper screens installed on the shakers were 20mesh and were unchanged for the entire well.
- The centrifuge was run in the barite recovery mode to reduce the LGS from >13% to <8%.
- The degasser was run while coring.

INTERVAL - 5

4.5 SUMMARY

9.5 ” Hole From 2600m To 4648m In 9 Days

Drilling Fluid Accolade SBM
Formations Confidential as per Nexus Geologist.

The 9 1/2" BHA was made up and ran in hole to 1452m. Wait on weather.
The mud was treated with **LE SUPERMUL**, **TAU-MOD** and **ADAPTA** as required to maintain desired mud properties.

The kick off plug was tagged at 2690m, the cement was drilled from 2690m to 2696m and reamed several times to cut the ledge in order to sidetrack.
Time drilling proceeded as per the directional driller’s instructions, from 2696m to 2719m.
TAU-MOD was added to the active to maintain the rheology.
The shaker screens were checked regularly for damage and replaced as necessary. The mud weight was maintained at 12.0ppg.

Drilling continued from 2719m to 3008m as per directional driller’s instructions.

Seepage losses of up to 10bbl/hr were observed in the “Admiral 50” sand and the addition of sized Calcium Carbonate at a rate of 100lb/5 min while drilling (added directly to the active) gave good results, in most cases stopping losses completely.

Weighted premix was added directly to the active system and the centrifuges were run in Barite recovery mode as required to maintain mud weight and reduce LGS.

Drilling continued as per the directional drillers instructions and recovered mud (Slops) was added back into the active mud to restore Oil Water Ratio to 70/30 (The ratio had changed to 75/25 due to evaporation and addition of Base Oil).

Drilling continued to 3577m where we circulated bottoms up and back reamed from 3577m to 3525m and then POOH as per K&M instructions

While running back in the tight spots were worked, washed and reamed from 3136m to 3289m.

When drilling resumed seepage losses of up to 14bbl/hr were observed in the Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Additional premixes were built using ‘slops’ (recovered mud) to reduce OWR in the active system.

Seepage losses of up to 15bbl/hr in the Admiral 100 sand from 3,600 meters MD were noted, 1ppb sized Calcium Carbonate was added to the active mud to minimize losses with good results. Continued drilling in the horizontal section saw seepage losses of up to 15bbl/hr, again in the Admiral 100 sand, 1ppb sized Calcium Carbonate was added to the active mud to minimize losses, again with good results.

Drilling continued to 4558m as per Directional Drillers instructions where the wash-pipe began leaking, the pipe was pulled back 5 stands for repairs and then drilled on to 4648m as per DD instructions.

At TD, 4648 meters, bottoms up was circulated 5 times and the hole reamed from 4648m to 4354m.
A total of 270bbl of reserve mud was mixed at TD to fill hole as contingency.

The 7" liner was run to 2047m where circulation was broken. The liner was run in on 5 1/2" drill pipe to 4648m. Equipment was rigged up for the cement job; a 60bbl Base Oil spacer and 60bbl tuned spacer were pumped ahead.
At this point an attempt to pump cement resulted in a pressure of 2500psi. The pressure was bled down to wait on instructions.

It was possible to circulate at 32spm/3500psi but pumping was stopped due to a partial pack off. It was possible to circulate to get spacer returns at 5000stks which indicated circulation from the top of liner. The cementing equipment was rigged down and the string pulled out of hole leaving the liner in place.

An RTTS was RIH and set. An attempt to circulate pressured up to 5000psi with no returns so the packer was unseated and POOH.

A 3 3/8" TCP gun assembly was made up and RIH with the intention of perforating to cement.

While running in the TCP assembly and picking up drill pipe at 2241m a back-flow was observed so the Top Drive was made up and circulated.

The RTTS packer was set 4560m and the TCP guns were fired with the cement unit. Returns were established by pumping with the cement unit and the liner/open hole volume was circulated with mud pumps at 5bpm/1500psi. The mud was circulated and conditioned, no losses were observed.

The string and liner was POOH from 4560m to 4189m. The RTTS was set and the toe of the liner was cemented.

The Schlumberger wire line unit was made up for the next TCP run on wire-line to 2675m.

Schlumberger was in hole to 2649m. The hole was circulated and the cement retainer set. The stinger was set and confirmed clear, then stung back in and the cement pumped as per program.

The cement was displaced with SBM, a slug pumped and then the string pulled out of the hole whilst laying out singles. An injectivity test was conducted on the cement plug at top of liner and a scraper run was carried out.

A 6" bit, motor and BHA were made up and RIH with 3 1/2" drill pipe to drill out the cement retainer. After tripping out the bit the cement retainer was worked and pushed down to 4490m. After circulating bottoms up the displacement program was carried out and the well displaced to 11.0ppg Calcium Chloride brine.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, ppg	12	12	11.8	12.3	Yes
PV, cp	ALAP	45	22	49	No
YP, lbs/100 ft^2			8	42	Yes
6 rpm, lbs/100 ft^2	12	16	12	15	Yes
HPHT		6	3	5.6	Yes
NAP / Water ratio	70/30	75/25	70/30	75/25	Yes
ES	300		450	750	Yes
Water Phase Salinity	200,000		194,000	302000	Yes
LGS, % vol		8	5.3	9.5	No

Explanation of Non-Conformance

- The LGS was 9.5% due to having added and maintaining a concentration of Calcium Carbonate to lower the seepage losses.

Maintenance

- The mud weight was maintained by the addition of 11.9ppg and 11ppg premixes, as well as the centrifuge being run in barite recovery mode and 280 fine mesh screens.
- The 6rpm was maintained from 12 to 14 with additions of **TAU-MOD** and **RHEOMOD-L** and added directly to the active.
- Initial 6rpm was allowed to drop from dropped from 16 to 12 on the instructions of the K&M consultant. **TAU-MOD** and **RHEOMOD-L** was added directly to the active to maintain rheology.
- **LE SUPERMUL** was added to keep the brine phase emulsified.
- When seepage losses were observed – Circal 60/16 and Omyacarb 5 were added directly to the active system at a rate of 5ppb each.

Solids Control Equipment

- The 4 x VSM 300 shakers were dressed with 280 mesh screens.
- The scalper screens installed on the shakers were 20mesh and were unchanged for the entire well.
- The centrifuge was run in the barite recovery mode to reduce the LGS.

4.5 EVALUATION

Comments

Problems, Causes, Remedial Action Taken or Recommended

Solids Control and Mud Mixing Equipment

1) Problem Unable to suck drums when mixing SBM
   Cause Hose too small
   Action Replaced 1 inch hose with 2 inch hose

Solids Control and Mud Mixing Equipment

2) Problem Barite surge tank automated mixing system overheated and stopped
   Cause Build up of Barite in bottom of surge tank
   Action Allowed to cool and functioned equipment on /off

Solids Control and Mud Mixing Equipment

3) Problem Falling mud weight
   Cause Fine shaker screens stripping out the barite
   Action Removed 280's and installed 215's and 255's

Solids Control and Mud Mixing Equipment

4) Problem Centrifuge discharge chute blocked up with cuttings
   Cause Operator error, no water run through chute
   Action Run water through the chute at all times while in use

Mud Properties

5) Problem Low initial oil water ratio
   Cause Possible water contamination in transit, possible separation of new invert
   Action Send mud out with +75/-25 OW ratio. This keeps ratio in specification if we pick up water during transport and/or displacement.

4.5 RECOMMENDATIONS FOR IMPROVEMENT

Drilling Fluid

- The initial properties of the SBM were as per the specification mud check. The required density for drilling out was 12.0ppg; as such ~190ppb of Barite was required to be added to achieve the desired density. Extra additions of **LE SUPERMUL** were required to maintain electrical stability. In future it would be a better practice to add the anticipated extra emulsifier and wetting agent, **LE SUPERMUL** @ 3 – 4ppb to the base blend at the SBM mud plant; this would potentially save rig time have the SBM in excellent condition much sooner.
- The original O/W ratio as checked on the rig was 65/35. This allows for any water contamination from transportation on the boat, transferring through drilling equipment and lines, which retained water-based fluid and also allows for some interface contamination upon the initial displacement. Again, it is recommended that an additional 3 – 4ppb of **LE SUPERMUL** be incorporated into the initial SBM blend that this problem may be eliminated. Attention should also be paid to possible sources of water contamination.
- The 6rpm was 4; the new SBM was showing signs of inadequate emulsification, as evidenced by the O/W ratio of the first 800bbls off the boat being 65/35 and the second 800bbls at 68/32. Recommended again, is to increase the initial concentration of **LE SUPERMUL** by 3 – 4ppb and to add an additional 2ppb of **TAU-MOD** as well.

Solids Control and Mud Mixing Equipment

- The coarsest scalper screens (10 or 20 mesh) were run. This ensured the mud passed through them straight away. This allowed the mud to traverse along the entire length of the bottom screens. The shakers were initially dressed with 89 mesh screens prior to any displacement taking place. This was to prevent any overflow of the screens during the oil water interface. When drilling the screens were fined up to 280 mesh to provide the best possible primary solids control. The screens were checked regularly for damage and any damaged screens were immediately replaced. The longevity of the finer screens was observed to be rather poor, with the 280 mesh screens generally lasting between 6-8 hours before becoming damaged and requiring replacement.

- The shakers performed well during the SBM intervals. For the 9.5 Pilot and coring intervals, generally only 2 to 3 shakers were operational with the 4th on standby. Shakers were dressed with 280 mesh screens

COMPLETION

4.6 SUMMARY

7" Csg. From 2583m To 4648m In 31 Days

Completion Fluid 11.0 ppg CaCl2 Brine, 11.0 ppg Inhibited CaCl2 Brine
Formations N/A

The TCP guns were made up and RIH on 5 1/2" DP to 4414m, where a correlation log was run. The guns were fired, the well initially took 44bbl of brine with losses settling at 18bbl/hr. Bottoms up was circulated through the choke and the well flow checked. At this point losses were 3bbl/hr. The continual reduction in "drink rate" to the formation was in part attributed to the use of **LIQUI-VIS EP**, an HEC polymer dispersed in water. The TCP guns were pulled out of the hole for a scraper run.

The well was displaced to filtered inhibited 11ppg brine and losses at 1.7bbl/hr were recorded.

The scraper and cleanout runs were completed and the completion assembly was run.

The flow head was installed and pressure tested.

The Tubing was displaced to diesel but at this point the attempt to pressure test the packer failed. There was apparent communication between annulus and tubing. So the annulus was bleed off and packer setting sequence repeated. An attempt to test top packer failed again.

An attempt to reverse circulate diesel out of tubing through Expro choke failed and it was bullheaded from the tubing to formation by pumping inhibited brine.
The well was monitored and a forward plan developed with town.

The well was displaced to brine to kill well and the test equipment rigged down. The decision was made to pull the completion string.

Make up Schlumberger wire line and RIH with chemical cutter. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger and landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well.

Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke. Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked well, down hole losses were 9 bbls per hour. Pumped HEC pill and displaced well with 230 bbls of brine, observed 20 bbl loss. Flow checked well and observed 6 bbl per hour loss. Pulled tubing hanger to the surface, removed control lines and laid out hanger. Laid out completion string.

Made up new completion string and RIH 7" tubing and tagged PBR with seal assembly to confirm space out then POOH to pick up SSSV.

The SSSV was made up and tested. Continued to RIH with 7" tubing.
Displaced the well to 11.0 ppg filtered inhibited CaCl2 brine.

Flowed and test well.

GRAPHS

HALLIBURTON

Fluid Systems

NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long

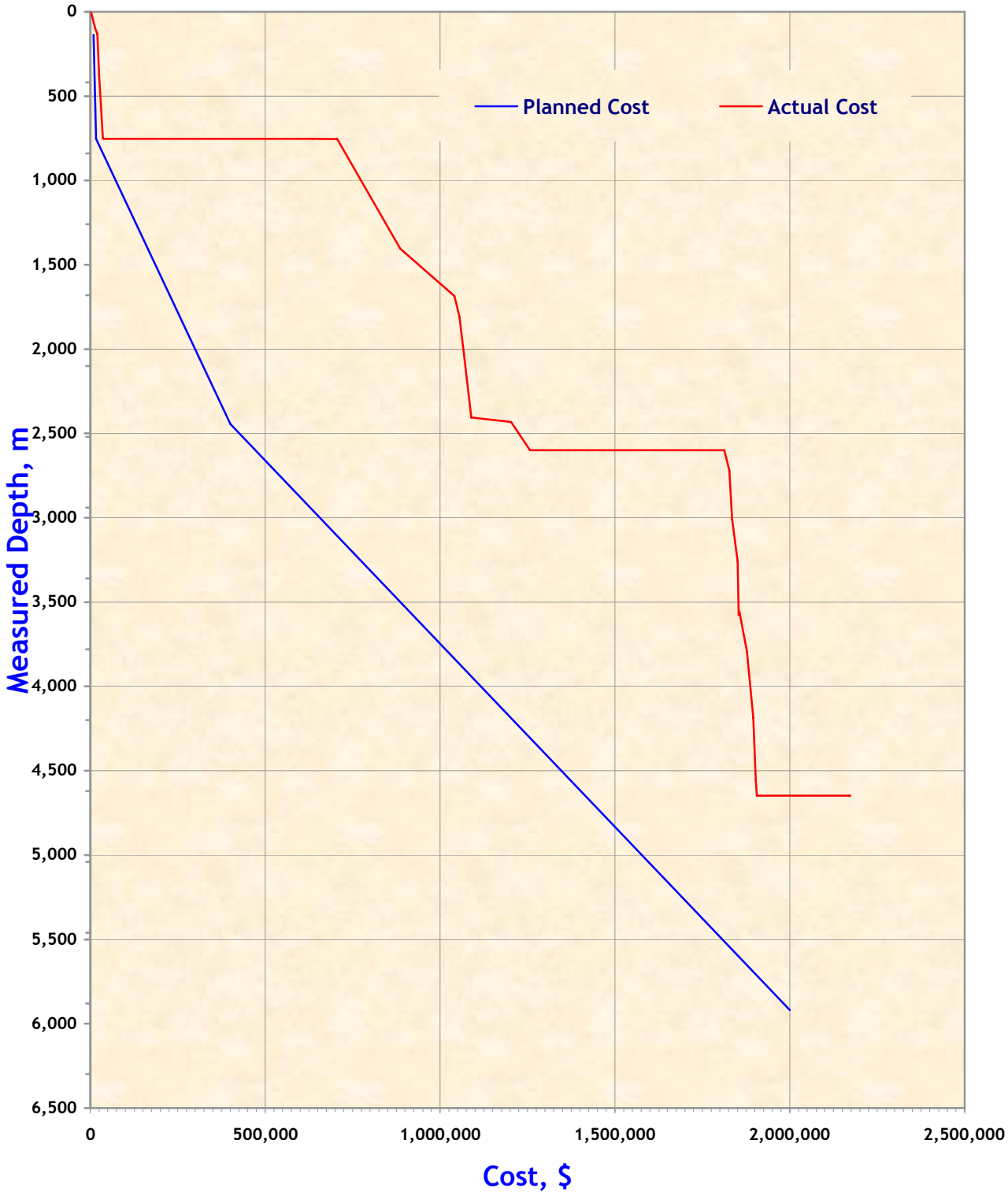
West Triton

Prepared by:
Wray MacKenzie
Senior Technical Professional - Fluid Solutions

October 9, 2008

Baroid Fluid Services

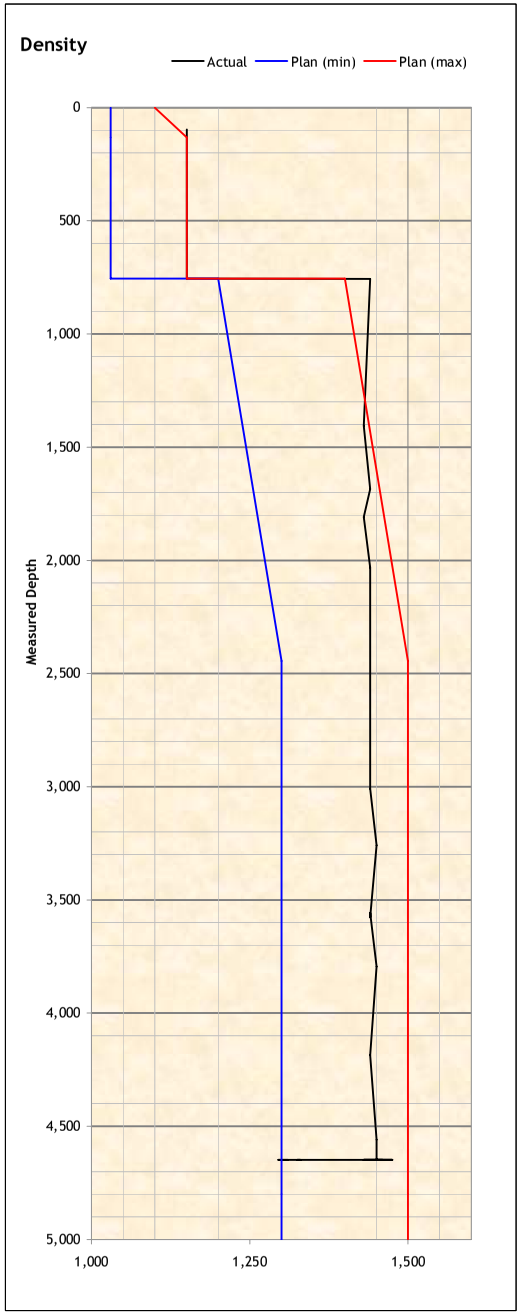
Cost vs Depth

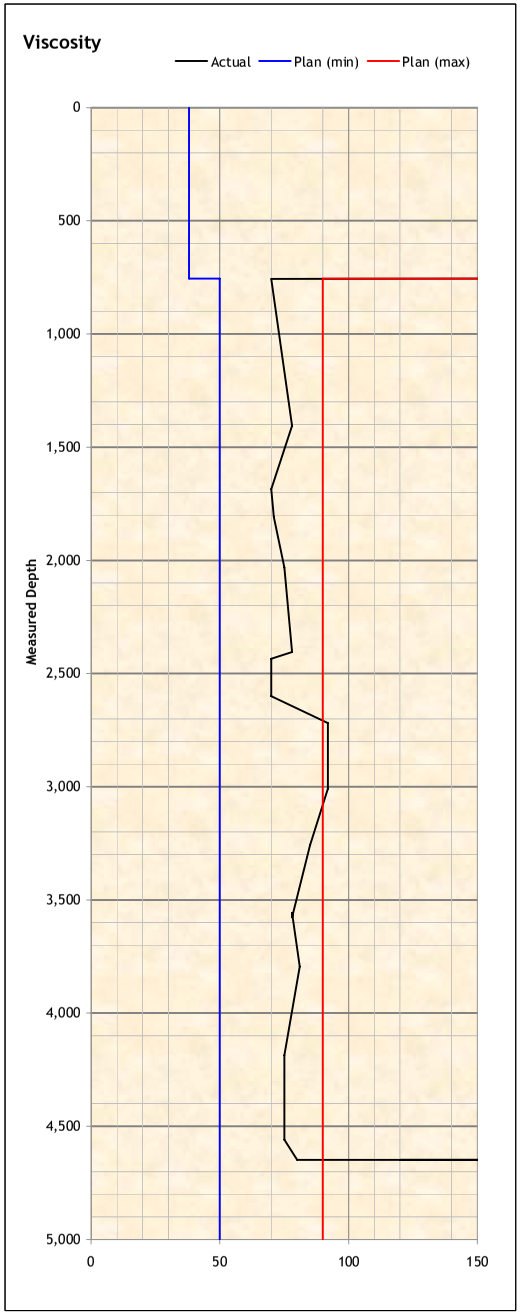


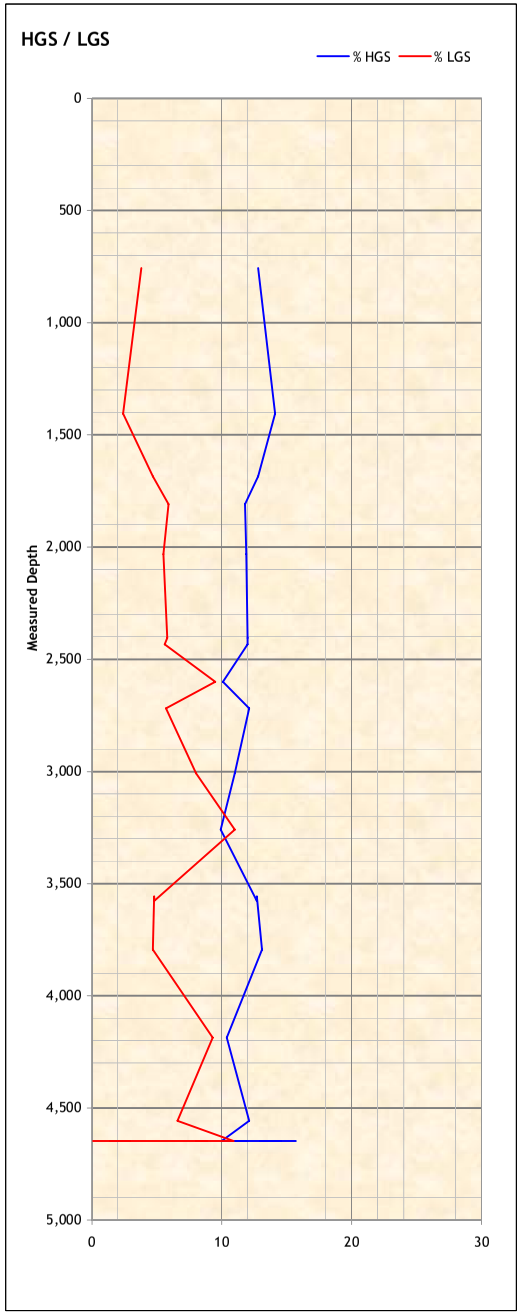
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

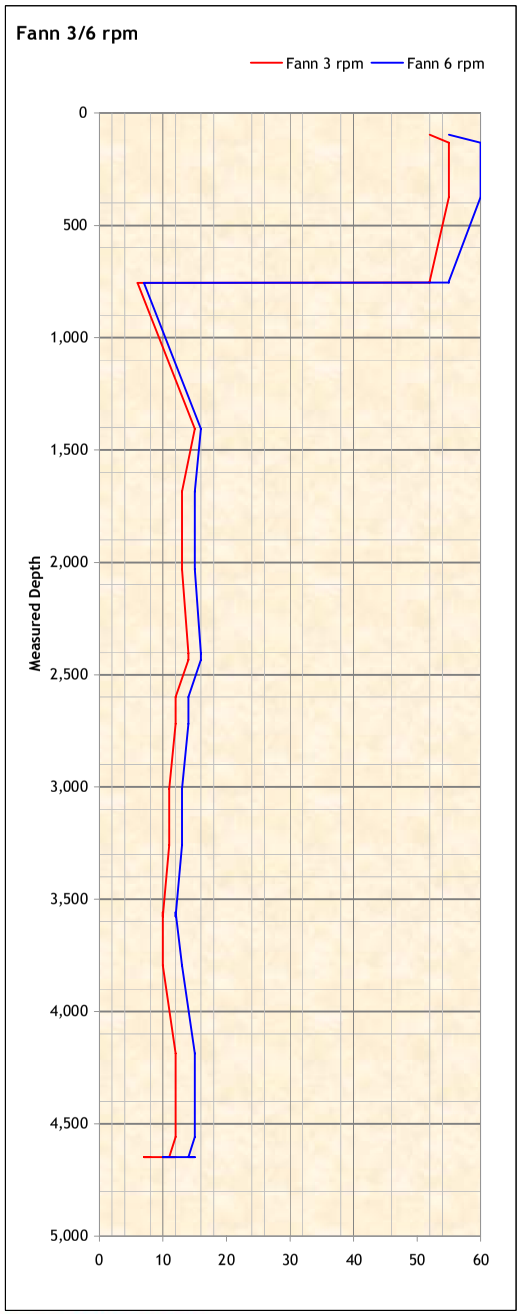
Physical Properties

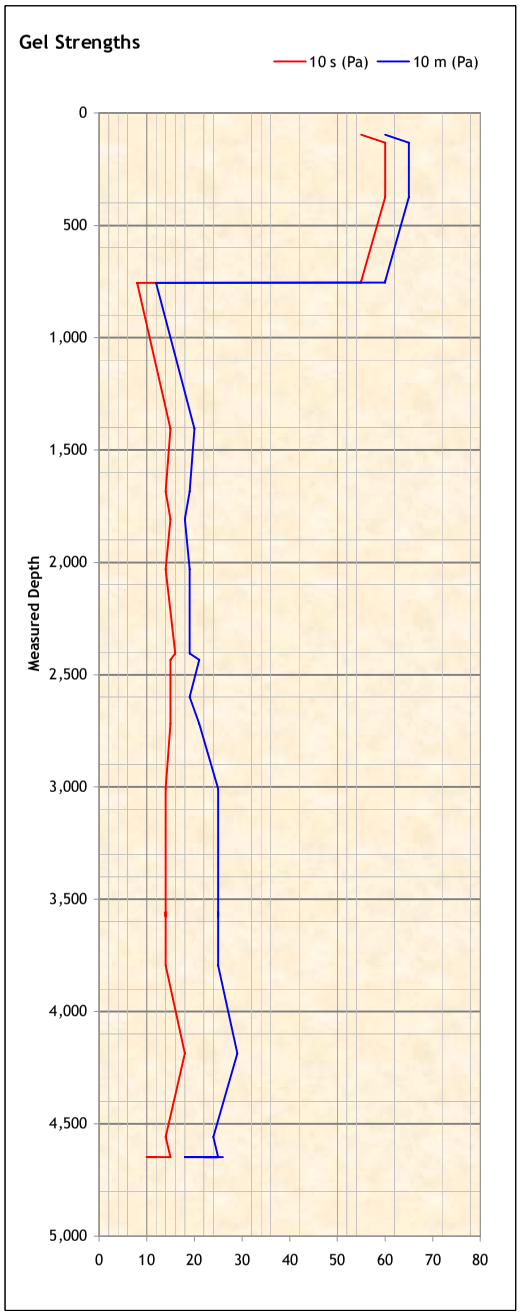
Baroid Fluid Services

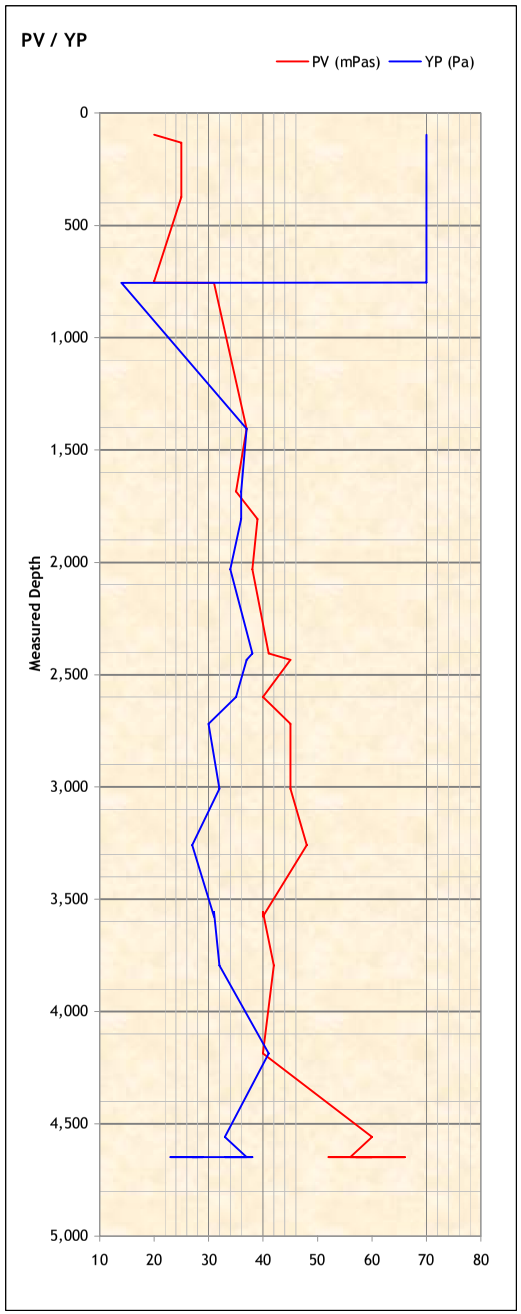
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

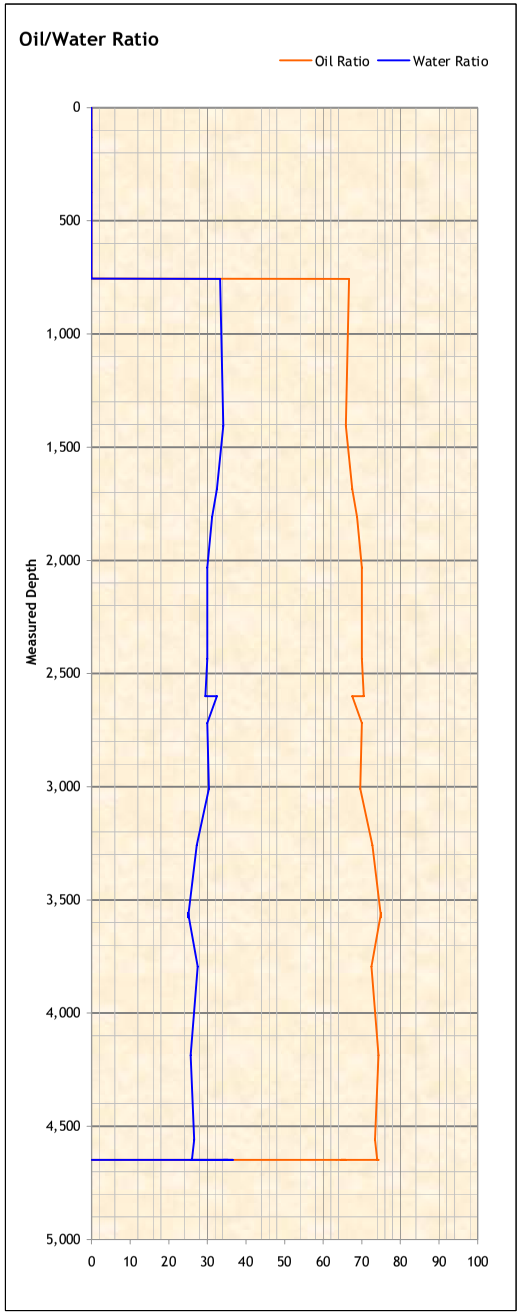
Physical Properties

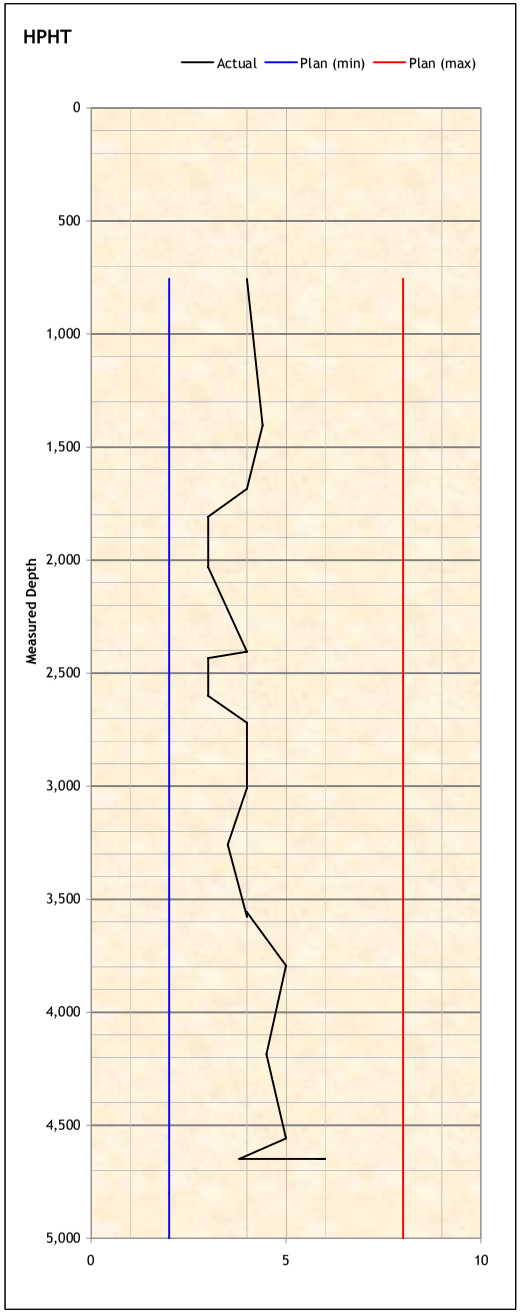
Baroid Fluid Services

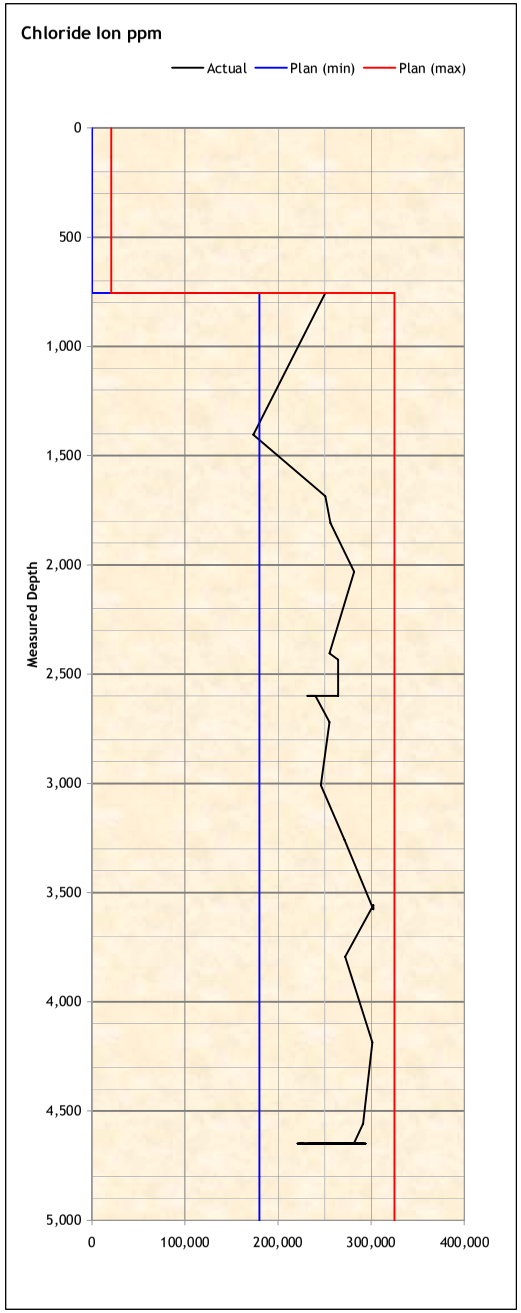
NEXUS ENERGY

Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long







HALLIBURTON
Fluid Systems

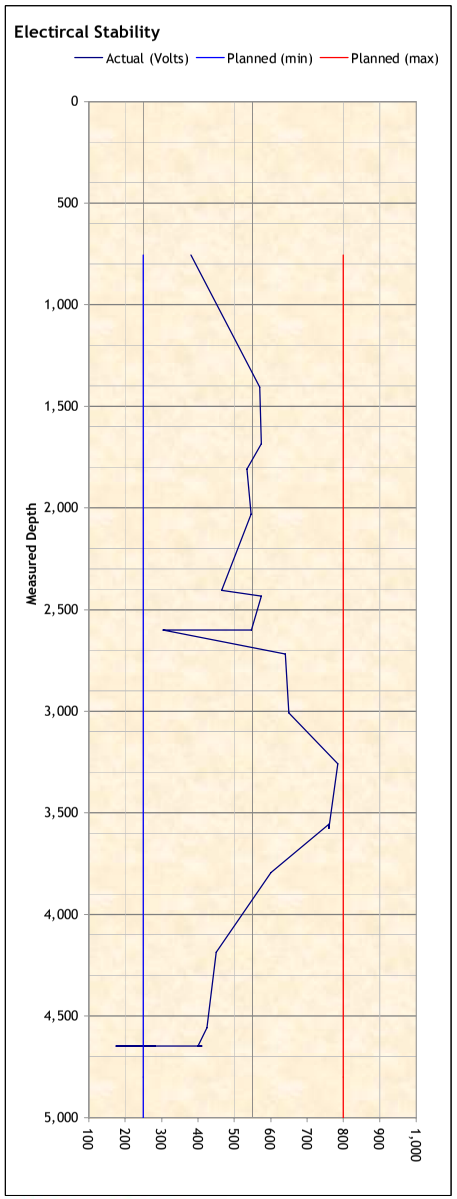
OBM Properties

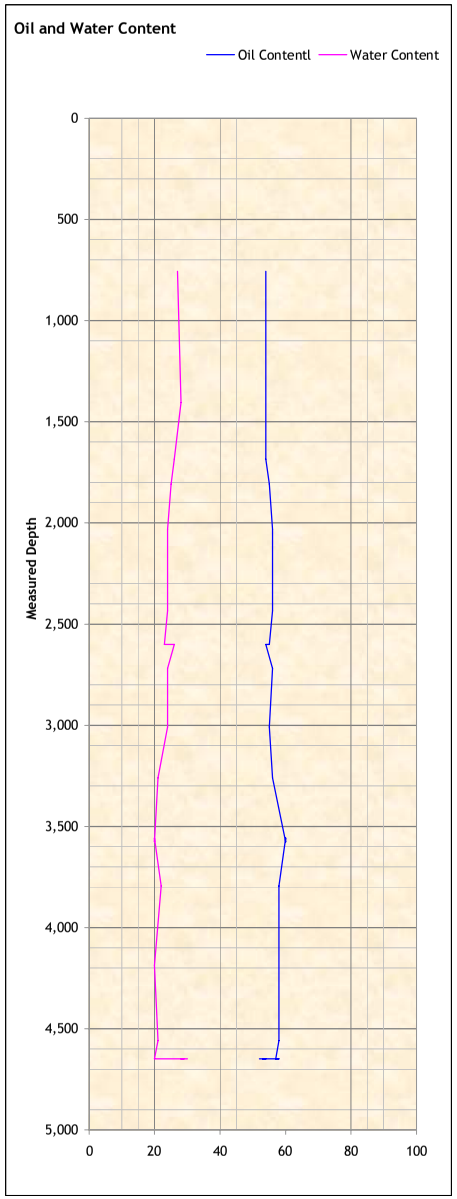
Baroid Fluid Services

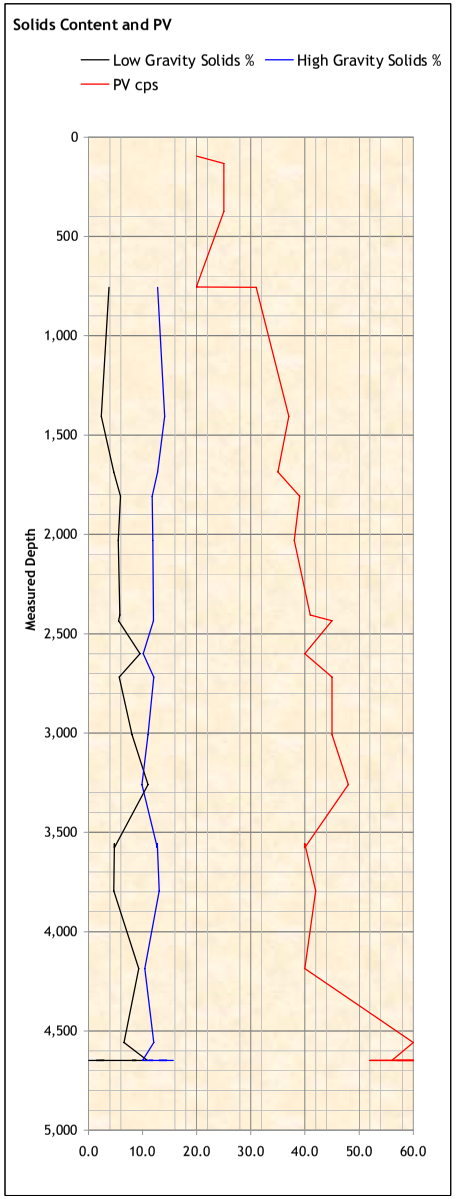
NEXUS ENERGY

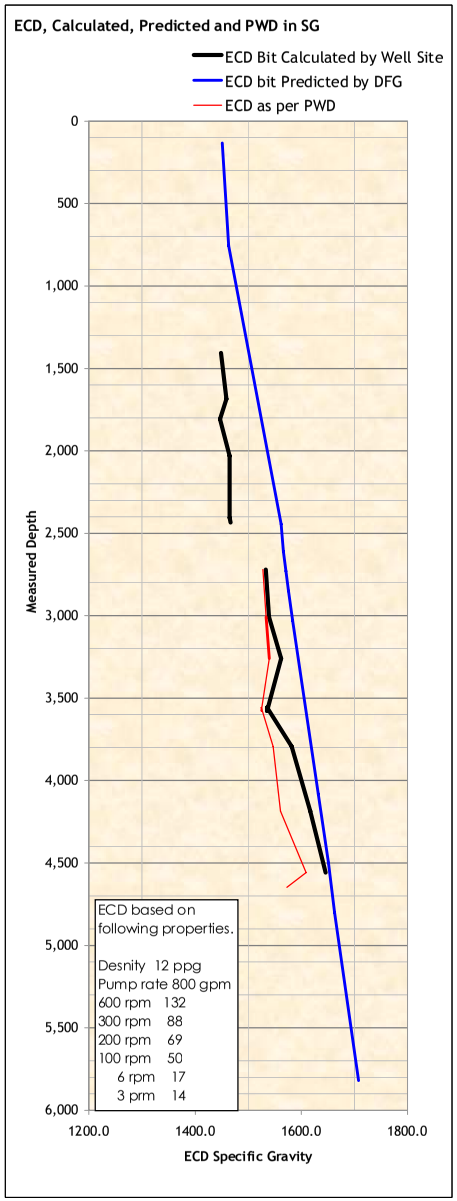
Longtom - 4

38o 6’ 17.85”S Lat X 148o 20’ 00.057”E Long









HALLIBURTON
Fluid Systems

OBM Properties

Baroid Fluid Services

POSTWELL AUDIT

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Well Summary Report

Well Data

Spud Date		06/20/2008	Fluids/Products: Drilling Cost	$	2,157,130.45
TD Date		08/10/2008	Fluids/Products: Completion Cost	$	2,255.52
Project			Solids Control/Waste Management Cost	$	0.00
Days on Well		92	Fluids/Products: Cementing Cost	$	14,198.18
From Date		06/19/2008	Prod Lost/Damaged Cost	$	339.72
To Date		09/18/2008	Engineer Services Cost	$	230,000.00
Drilling Days		24	Equipment Cost	$	0.00
Rotating / Drilling Hours		309.0/281.5	Transport/Packaging	$	0.00
Average ROP	m/hr	12.0	Other Cost	$	32,051.92
Maximum Density	ppg	12.30	Total Well Cost	$	2,435,975.79
Total Measured Depth	m	4,648	Planned Cost	$	0.00
True Vertical Depth	m	4,648	Fluid Cost Per Fluid Volume	$/bbl	86.57
Distance Drilled	m	3,374	Fluid Cost Per Length Drilled	$/m	623.02
Maximum Deviation	deg	91.46	Fluid Cost/Vol of Hole Drilled	$/bbl	792.31
Max. Horz. Displacement	m	2,823	Total Additions/Hole Drilled	bbl/bbl	9.152
Bottom Hole Temp			Total Additions/Length Drilled	bbl/m	7.196

Casing Design

Description	Set Date & Time	Top MD m	Top TVD m	End MD m	End TVD m	CSG OD in	CSG ID in	Max. Hole Size in	Hole MD m	Hole TVD m
30 X-52 157.5	06/21/2008 23:59	96	0	129		30.000	29.000	36.000	129	
16 J-55 75.0	06/25/2008 23:59	129	0	749		16.000	15.124	22.000	749	
10.75 L-80 55.5	07/16/2008 23:59	96	0	2,583		10.750	9.760	12.250	2,583	
7 L-80 26.0	08/17/2008 23:59	2,583	0	4,648		7.000	6.276	9.500	4,648	

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Well Summary Report

Fluid Program

Int #	Fluid Type	Interval Days	BHT Deg C	Max. Dens ppg	Whole fluid + Mix products	Other material charges	Other charges	Total Interval Cost $		
								Plan	Actual	Variance
1	KCl/Polymer PHB Seawater Guar Gum	8		9.60	22,743.44	671.40	20,000.00		43,414.84	
2	ACCOLADE Brine Base Oil	21		12.20	1,286,654.42	65,091.63	52,500.00		1,404,246.05	
3	ACCOLADE Base Oil	13		12.20	171,263.64	8,758.47	32,500.00		212,522.11	
4	ACCOLADE Brine Base Oil Slops	25		12.30	432,595.08	17,975.11	62,500.00		513,070.20	
5	Brine	25		11.10	188,809.29	11,413.30	62,500.00		262,722.59	
Total Well Cost $					**2,102,065.87**	**103,909.91**	**230,000.00**		**2,435,975.78**	**2,435,975.78**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	Nexus Energy

Total Cost Breakdown

	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	92.00	115,000.00
Drilling Fluids Engineer 2	day(s)	92.00	115,000.00
		SubTotal	**$ 230,000.00**
Fluids/Products: Cementing Cost			
barite	1000 kg bulk	29.200	13,866.50
calcium chloride flake 77%	25 kg bag	24.00	331.68
		SubTotal	**$ 14,198.18**
Fluid/Product: Lost Damage			
guar gum	25 kg bag	4.00	339.72
		SubTotal	**$ 339.72**
Other			
ACCOLADE BASE	1 bbl bulk	27.500	10,340.79
BARAKLEAN PLUS	1054 l bulk	4.000	18,488.56
BARAZAN D PLUS	25 kg bag	2.00	304.48
brine - CaCl2	42 gal bbl	58.81	2,817.59
salt	50 lb bag	3.00	100.50
		SubTotal	**$ 32,051.92**
Fluids/Products: Completion Cost			
CRW-24001	55 gal drum	4.00	2,255.52
		SubTotal	**$ 2,255.52**
Fluids/Products: Drilling Cost			
ACCOLADE	bbl	1,692.00	537,446.88
ACCOLADE BASE	1 bbl bulk	2,138.500	804,140.16
ADAPTA HP	25 kg sack	132.00	66,126.72
ALDACIDE G	5 gal can	9.00	629.10
BARACOR 100	55 gal drum	14.00	7,894.32
BARA-DEFOAM W300	5 gal can	2.00	111.84
BARAKLEAN PLUS	1054 l bulk	3.000	13,866.42
BARAZAN D PLUS	25 kg bag	3.00	456.72
barite	1000 kg bulk	441.970	209,882.71
bentonite	1000 kg bulk	35.570	17,602.88
brine - CaCl2	42 gal bbl	5,408.69	259,130.34
calcium chloride	1000 kg bag	52.00	28,748.72
Calcium chloride 94%	25 kg sack	393.00	5,431.26
calcium chloride flake 77%	25 kg bag	1.00	13.82
caustic soda	25 kg pail	16.00	707.04
Circal 60/16	25 kg sack	518.00	5,247.34
Circal Y	25 kg sack	27.00	345.60
FLO-CLEAN MD	55 gal drum	2.00	759.60
guar gum	25 kg bag	57.00	4,841.01

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	Nexus Energy

Total Cost Breakdown

LE SUPERMUL	55 gal drum	112.00	97,090.56
lime	25 kg bag	14.00	91.70
LIQUI-VIS EP	5 gal pail	136.00	26,962.00
NO-SULF	17 kg pail	11.00	1,299.32
N-VIS	25 lb bag	19.00	3,274.08
Omyacarb 5	25 kg bulk	504.000	4,732.56
OXYGON (plant)	6 gal pail	3.00	414.42
Radiagreen-EME	55 gal drum	7.00	10,185.00
RHEMOD L	55 gal drum	6.00	13,282.74
sapp	25 kg bag	21.00	1,039.71
STEELSEAL	25 kg sack	120.00	10,644.00
Tau Mod	50 lb sack	258.00	24,731.88
		SubTotal	**$ 2,157,130.45**
		Total Well Cost:	**$ 2,435,975.79**

Well	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Net Well Cost Breakdown

Cost Breakdown I $	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Fluid/Product: Drilling	22,743.44	1,361,009.26	288,264.86	298,559.12	186,553.77	2,157,130.45
Fluid/Product: Comp/Filtration					2,255.52	2,255.52
Solids Control/Waste Management Cost						
Fluids/Products: Cementing Cost	331.68	3,433.38		10,433.11		14,198.18
Engineering Services	20,000.00	52,500.00	32,500.00	62,500.00	62,500.00	230,000.00
Fluid/Product: Lost Damage	339.72					339.72
Other Cost		7,258.01	8,758.47	4,622.14	11,413.30	32,051.91
Equipment Cost						
Transport/Packaging Cost						
Total Cost	43,414.84	1,424,200.65	329,523.33	376,114.37	262,722.59	2,435,975.78

Cost Breakdown II $	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Total Products Cost	23,414.84	834,253.77	297,023.33	313,614.37	200,222.59	1,668,528.90
Total Fluids Cost		537,446.88				537,446.88
Total Charges Cost	20,000.00	52,500.00	32,500.00	62,500.00	62,500.00	230,000.00
Allocated To / From Other Interval	0.00	0.00			0.00	
Total Cost	43,414.84	1,424,200.65	329,523.33	376,114.37	262,722.59	2,435,975.78
Planned Cost						
Variance						

Volume Breakdown bbl	Interval 01	Interval 02	Interval 03	Interval 04	Interval 05	Total
Total Base Fluids Addition		1,320.5	652.0	2,213.7	3,216.0	7,402.2
Total Chemical Addition	96.0	294.6	34.9	106.9	59.4	591.8
Total Barite Addition		387.4	30.2	244.7		662.3
Total Water Addition	5,444.1	437.8	111.6	776.1	246.0	7,015.6
Total Fluid Built	5,540.1	2,440.3	828.6	3,341.5	3,521.4	15,671.9
Total Fluid Received	1,495.4	3,096.0	1,101.0	129.7	2,786.4	8,608.5
Total Influx Addition						
Not Used In Interval		-831.8	-2,282.8	-669.9	-2,061.1	
Total Fluid Volume	7,035.5	6,001.2	4,320.5	9,235.9	7,417.7	24,280.4

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 1	**Max Bit Size: 36.000 in**	**Hole Size Avg/Max**	**23.763 / 36.000 in**

Interval Start Date		06/19/2008	Planned Cost	$	0.00
Interval End Date		06/26/2008	Total Interval Cost	$	43,414.84
Interval TD Date		06/24/2008	Program Variance	$	43,414.84
Drilling Days		4.00	Other material charges	$	671.40
Rotating/Hours		37.50 / 37.00	Total Fluids Cost	$	22,743.44
Interval Top MD/TVD	m	0.0 / 0.0	Total Charges Cost	$	20,000.00
Interval End MD/TVD	m	755.0 / 755.0	Total Cementing Cost	$	331.68
Footage	m	755.0	Fluid Cost Per Vol Unit	$/bbl	3.23
Average ROP	m/hr	20.4	Fluid Cost/Hole Drilled	$/m	30.12
Max Hole Angle	degrees	0.00	Fluid Cost/Vol Drilled	$/bbl	16.74
Casing Size	in	16.000	Fluid Built	bbl	5,540.1
Casing Shoe MD	m	749.0	Total Additions/Vol Drilled	bbl/bbl	5.18
Casing Length	m	653.0	Total Additions/Hole Drilled	bbl/m	9.32
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	3.87
Max Fluid Density	ppg	9.60	Fluid Loss/Hole Drilled	bbl/m	6.97

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Viscosifier/Suspension Agent				
bentonite	Spud Mud	1000 kg bulk	35.570	17,602.88
guar gum	Gel Polymer	25 kg bag	57.000	4,841.01
guar gum	No Fluid	25 kg bag	4.000	339.72
			Total	**$ 22,783.61**
Alkalinity Control				
caustic soda	Spud Mud	25 kg pail	5.000	220.95
lime	Spud Mud	25 kg bag	12.000	78.60
			Total	**$ 299.55**
Weighting Material				
calcium chloride flake 77%	No Fluid	25 kg bag	24.000	331.68
			Total	**$ 331.68**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 2	**Max Bit Size: 22.000 in**	**Hole Size Avg/Max**	**13.500 / 22.000 in**

Interval Start Date		06/27/2008	Planned Cost	$	0.00
Interval End Date		07/17/2008	Total Interval Cost	$	1,404,246.05
Interval TD Date		07/15/2008	Program Variance	$	1,404,246.05
Drilling Days		7.00	Other material charges	$	65,091.63
Rotating/Hours		73.00 / 71.50	Total Fluids Cost	$	1,286,654.42
Interval Top MD/TVD	m	755.0 / 755.0	Total Charges Cost	$	52,500.00
Interval End MD/TVD	m	2,600.0 / 2,369.3	Total Cementing Cost	$	3,433.38
Footage	m	1,845.0	Fluid Cost Per Vol Unit	$/bbl	214.40
Average ROP	m/hr	25.8	Fluid Cost/Hole Drilled	$/m	697.37
Max Hole Angle	degrees	37.70	Fluid Cost/Vol Drilled	$/bbl	1,200.60
Casing Size	in	10.750	Fluid Built	bbl	2,440.3
Casing Shoe MD	m	2,583.0	Total Additions/Vol Drilled	bbl/bbl	5.60
Casing Length	m	2,487.0	Total Additions/Hole Drilled	bbl/m	3.25
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	1.43
Max Fluid Density	ppg	12.20	Fluid Loss/Hole Drilled	bbl/m	0.83

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	258.530	122,770.73
barite	No Fluid	1000 kg bulk	7.230	3,433.38
calcium chloride	Brine	1000 kg bag	52.000	28,748.72
calcium chloride flake 77%	ACCOLADE	25 kg bag	1.000	13.82
Calcium chloride 94%	ACCOLADE	25 kg sack	80.000	1,105.60
			Total	**$ 156,072.25**
Viscosifier/Suspension Agent				
BARAZAN D PLUS	No Fluid	25 kg bag	5.000	761.20
RHEMOD L	ACCOLADE	55 gal drum	3.000	6,641.37
Tau Mod	ACCOLADE	50 lb sack	137.000	13,132.82
			Total	**$ 20,535.39**
Lost Circulation/Bridging Agent				
STEELSEAL	ACCOLADE	25 kg sack	120.000	10,644.00
Circal Y	ACCOLADE	25 kg sack	27.000	345.60
Circal 60/16	ACCOLADE	25 kg sack	261.000	2,643.93
Omyacarb 5	ACCOLADE	25 kg bulk	260.000	2,441.40
			Total	**$ 16,074.93**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	56.000	48,545.28
			Total	**$ 48,545.28**
Alkalinity Control				
lime	ACCOLADE	25 kg bag	2.000	13.10
			Total	**$ 13.10**
Corrosion Inhibitor				
NO-SULF	No Fluid	17 kg pail	11.000	1,299.32
			Total	**$ 1,299.32**
Filtration Control				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

ADAPTA HP	ACCOLADE	25 kg sack	71.000	35,568.16
			Total	**$ 35,568.16**
Base Fluid				
ACCOLADE BASE	ACCOLADE	1 bbl bulk	933.500	351,024.01
ACCOLADE BASE	Base Oil	1 bbl bulk	387.000	145,523.61
ACCOLADE BASE	No Fluid	1 bbl bulk	146.200	54,975.59
			Total	**$ 551,523.20**
Other				
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 4,622.14**
Whole Fluid				
ACCOLADE	ACCOLADE	bbl	1,692.000	537,446.88
			Total	**$ 537,446.88**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 3	**Max Bit Size: 13.500 in**	**Hole Size Avg/Max**	**9.500 / 13.500 in**

Interval Start Date		07/18/2008	Planned Cost	$	0.00
Interval End Date		07/30/2008	Total Interval Cost	$	212,522.11
Interval TD Date		07/28/2008	Program Variance	$	212,522.11
Drilling Days		4.00	Other material charges	$	8,758.47
Rotating/Hours		34.00 / 32.00	Total Fluids Cost	$	171,263.64
Interval Top MD/TVD	m	2,600.0 / 2,369.3	Total Charges Cost	$	32,500.00
Interval End MD/TVD	m	2,987.0 / 2,604.7	Total Cementing Cost	$	0.00
Footage	m	387.0	Fluid Cost Per Vol Unit	$/bbl	39.64
Average ROP	m/hr	12.1	Fluid Cost/Hole Drilled	$/m	442.54
Max Hole Angle	degrees	45.10	Fluid Cost/Vol Drilled	$/bbl	1,538.53
Casing Size	in	10.750	Fluid Built	bbl	828.6
Casing Shoe MD	m	2,583.0	Total Additions/Vol Drilled	bbl/bbl	38.81
Casing Length	m	2,487.0	Total Additions/Hole Drilled	bbl/m	11.16
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	1.52
Max Fluid Density	ppg	12.20	Fluid Loss/Hole Drilled	bbl/m	0.44

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	20.120	9,554.59
			Total	**$ 9,554.59**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	20.000	17,337.60
			Total	**$ 17,337.60**
Lost Circulation/Bridging Agent				
Circal 60/16	ACCOLADE	25 kg sack	14.000	141.82
Omyacarb 5	ACCOLADE	25 kg bulk	13.000	122.07
			Total	**$ 263.89**
Filtration Control				
ADAPTA HP	ACCOLADE	25 kg sack	18.000	9,017.28
			Total	**$ 9,017.28**
Viscosifier/Suspension Agent				
RHEMOD L	ACCOLADE	55 gal drum	2.000	4,427.58
Tau Mod	ACCOLADE	50 lb sack	26.000	2,492.36
			Total	**$ 6,919.94**
Base Fluid				
ACCOLADE BASE	ACCOLADE	1 bbl bulk	35.000	13,161.05
ACCOLADE BASE	Base Oil	1 bbl bulk	617.000	232,010.51
ACCOLADE BASE	No Fluid	1 bbl bulk	11.000	4,136.33
			Total	**$ 249,307.89**
Other				
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 4,622.14**

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 4	**Max Bit Size: 9.500 in**	**Hole Size Avg/Max**	**9.500 / 9.500 in**

Interval Start Date		07/31/2008	Planned Cost	$	0.00
Interval End Date		08/24/2008	Total Interval Cost	$	513,070.20
Interval TD Date		08/11/2008	Program Variance	$	513,070.20
Drilling Days		9.00	Other material charges	$	17,975.11
Rotating/Hours		164.50 / 141.00	Total Fluids Cost	$	432,595.08
Interval Top MD/TVD	m	2,600.0 / 2,369.0	Total Charges Cost	$	62,500.00
Interval End MD/TVD	m	4,648.0 / 2,768.0	Total Cementing Cost	$	10,433.11
Footage	m	387.0	Fluid Cost Per Vol Unit	$/bbl	46.84
Average ROP	m/hr	2.7	Fluid Cost/Hole Drilled	$/m	1,117.82
Max Hole Angle	degrees	91.46	Fluid Cost/Vol Drilled	$/bbl	3,886.18
Casing Size	in	7.000	Fluid Built	bbl	3,341.5
Casing Shoe MD	m	4,647.8	Total Additions/Vol Drilled	bbl/bbl	82.97
Casing Length	m	4,551.8	Total Additions/Hole Drilled	bbl/m	23.87
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	12.47
Max Fluid Density	ppg	12.30	Fluid Loss/Hole Drilled	bbl/m	3.59

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	ACCOLADE	1000 kg bulk	163.320	77,557.40
barite	No Fluid	1000 kg bulk	21.970	10,433.11
Calcium chloride 94%	ACCOLADE	25 kg sack	40.000	552.80
			Total	**$ 88,543.32**
Base Fluid				
brine - CaCl2	ACCOLADE	42 gal bbl	90.000	4,311.90
brine - CaCl2	Brine	42 gal bbl	2,102.690	100,739.88
ACCOLADE BASE	Base Oil	1 bbl bulk	21.000	7,896.63
ACCOLADE BASE	No Fluid	1 bbl bulk	5.000	1,880.15
			Total	**$ 114,828.56**
Emulsifier				
LE SUPERMUL	ACCOLADE	55 gal drum	36.000	31,207.68
			Total	**$ 31,207.68**
Viscosifier/Suspension Agent				
LIQUI-VIS EP	Brine	5 gal pail	70.000	13,877.50
N-VIS	Brine	25 lb bag	5.000	861.60
RHEMOD L	ACCOLADE	55 gal drum	1.000	2,213.79
Tau Mod	ACCOLADE	50 lb sack	95.000	9,106.70
			Total	**$ 26,059.59**
Lost Circulation/Bridging Agent				
Circal 60/16	ACCOLADE	25 kg sack	243.000	2,461.59
Omyacarb 5	ACCOLADE	25 kg bulk	231.000	2,169.09
			Total	**$ 4,630.68**
Thinner/Deflocculant				
sapp	No Fluid	25 kg bag	21.000	1,039.71
			Total	**$ 1,039.71**
Filtration Control				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

ADAPTA HP	ACCOLADE	25 kg sack	43.000	21,541.28
			Total	**$ 21,541.28**
Lubricant				
Radiagreen-EME	Brine	55 gal drum	5.000	7,275.00
			Total	**$ 7,275.00**
Other				
BARAKLEAN PLUS	Brine	1054 l bulk	3.000	13,866.42
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 18,488.56**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Interval # 5	**Max Bit Size: 9.500 in**	**Hole Size Avg/Max**	**9.500 / 9.500 in**

Interval Start Date		08/25/2008	Planned Cost	$	0.00
Interval End Date		09/18/2008	Total Interval Cost	$	262,722.59
Interval TD Date			Program Variance	$	262,722.59
Drilling Days		0.00	Other material charges	$	11,413.30
Rotating/Hours		0.00 / 0.00	Total Fluids Cost	$	188,809.29
Interval Top MD/TVD	m	4,648.0 / 2,768.0	Total Charges Cost	$	62,500.00
Interval End MD/TVD	m	4,648.0 / 2,768.0	Total Cementing Cost	$	0.00
Footage	m	0.0	Fluid Cost Per Vol Unit	$/bbl	25.45
Average ROP	m/hr	0.0	Fluid Cost/Hole Drilled	$/m	0.00
Max Hole Angle	degrees	0.00	Fluid Cost/Vol Drilled	$/bbl	0.00
Casing Size	in	7.000	Fluid Built	bbl	3,521.4
Casing Shoe MD	m	4,647.8	Total Additions/Vol Drilled	bbl/bbl	0.00
Casing Length	m	4,551.8	Total Additions/Hole Drilled	bbl/m	0.00
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	0.00
Max Fluid Density	ppg	11.10	Fluid Loss/Hole Drilled	bbl/m	0.00

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Bactericides				
ALDACIDE G	Brine	5 gal can	9.000	629.10
			Total	**$ 629.10**
Defoamer				
BARA-DEFOAM W300	Brine	5 gal can	2.000	111.84
			Total	**$ 111.84**
Corrosion Inhibitor				
BARACOR 100	Brine	55 gal drum	14.000	7,894.32
CRW-24001	Brine	55 gal drum	4.000	2,255.52
OXYGON (plant)	Brine	6 gal pail	3.000	414.42
			Total	**$ 10,564.26**
Base Fluid				
brine - CaCl2	Brine	42 gal bbl	3,216.000	154,078.56
brine - CaCl2	No Fluid	42 gal bbl	58.810	2,817.59
ACCOLADE BASE	No Fluid	1 bbl bulk	10.300	3,873.07
			Total	**$ 160,769.22**
Alkalinity Control				
caustic soda	Brine	25 kg pail	11.000	486.09
			Total	**$ 486.09**
Weighting Material				
salt	No Fluid	50 lb bag	3.000	100.50
Calcium chloride 94%	Brine	25 kg sack	273.000	3,772.86
			Total	**$ 3,873.36**
Viscosifier/Suspension Agent				
LIQUI-VIS EP	Brine	5 gal pail	66.000	13,084.50
N-VIS	Brine	25 lb bag	14.000	2,412.48
			Total	**$ 15,496.98**
Lubricant				

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Summary

Radiagreen-EME	Brine	55 gal drum	2.000	2,910.00
			Total	**$ 2,910.00**
Flocculant				
FLO-CLEAN MD	Brine	55 gal drum	2.000	759.60
			Total	**$ 759.60**
Other				
BARAKLEAN PLUS	No Fluid	1054 l bulk	1.000	4,622.14
			Total	**$ 4,622.14**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**01**	**From Date**	**06/19/2008**	**Top of Interval**	**0.0 m**
Max. Hole Size / Bit Size	**36.000 / 36.000 in**	**To Date**	**06/26/2008**	**Bottom of Interval**	**755.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	8.00	10000.00
Drilling Fluids Engineer 2	day(s)	8.00	10000.00
		SubTotal	**$ 20,000.00**
Fluids/Products: Cementing Cost			
calcium chloride flake 77%	25 kg bag	24.00	331.68
		SubTotal	**$ 331.68**
Fluid/Product: Lost Damage			
guar gum	25 kg bag	4.00	339.72
		SubTotal	**$ 339.72**
Fluids/Products: Drilling Cost			
bentonite	1000 kg bulk	35.570	17602.88
caustic soda	25 kg pail	5.00	220.95
guar gum	25 kg bag	57.00	4841.01
lime	25 kg bag	12.00	78.60
		SubTotal	**$ 22,743.44**
		Interval Total Cost	**$ 43,414.84**
	Charged To/From Other Interval		**$**
	Net Description Total Cost		**$ 43,414.84**
	Programmed Cost		**$ 0.00**
	Program Variance		**$ 43,414.84**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**02**	**From Date**	**06/27/2008**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size	**22.000 / 22.000 in**	**To Date**	**07/17/2008**	**Bottom of Interval**	**2,600.0 m**

Material	Unit Size	Quantity		Total Cost
Engineering/Services				
Drilling Fluids Engineer	day(s)	21.00		26250.00
Drilling Fluids Engineer 2	day(s)	21.00		26250.00
		SubTotal	**$**	**52,500.00**
Fluids/Products: Cementing Cost				
barite	1000 kg bulk	7.230		3433.38
		SubTotal	**$**	**3,433.38**
Other				
ACCOLADE BASE	1 bbl bulk	6.200		2331.39
BARAKLEAN PLUS	1054 l bulk	1.000		4622.14
BARAZAN D PLUS	25 kg bag	2.00		304.48
		SubTotal	**$**	**7,258.01**
Fluids/Products: Drilling Cost				
ACCOLADE	bbl	1,692.00		537446.88
ACCOLADE BASE	1 bbl bulk	1,460.500		549191.82
ADAPTA HP	25 kg sack	71.00		35568.16
BARAZAN D PLUS	25 kg bag	3.00		456.72
barite	1000 kg bulk	258.530		122770.73
calcium chloride	1000 kg bag	52.00		28748.72
Calcium chloride 94%	25 kg sack	80.00		1105.60
calcium chloride flake 77%	25 kg bag	1.00		13.82
Circal 60/16	25 kg sack	261.00		2643.93
Circal Y	25 kg sack	27.00		345.60
LE SUPERMUL	55 gal drum	56.00		48545.28
lime	25 kg bag	2.00		13.10
NO-SULF	17 kg pail	11.00		1299.32
Omyacarb 5	25 kg bulk	260.000		2441.40
RHEMOD L	55 gal drum	3.00		6641.37
STEELSEAL	25 kg sack	120.00		10644.00
Tau Mod	50 lb sack	137.00		13132.82
		SubTotal	**$**	**1,361,009.26**
		Interval Total Cost	**$**	**1,424,200.65**
		Charged To/From Other Interval	**$**	**-19,954.60**
		Net Description Total Cost	**$**	**1,404,246.05**
		Programmed Cost	**$**	**0.00**
		Program Variance	**$**	**1,404,246.05**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**03**	**From Date**	**07/18/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**13.500 / 13.500 in**	**To Date**	**07/30/2008**	**Bottom of Interval**	**2,987.0 m**

Material	Unit Size	Quantity	Total Cost
Engineering/Services			
Drilling Fluids Engineer	day(s)	13.00	16250.00
Drilling Fluids Engineer 2	day(s)	13.00	16250.00
		SubTotal	**$ 32,500.00**
Other			
ACCOLADE BASE	1 bbl bulk	11.000	4136.33
BARAKLEAN PLUS	1054 l bulk	1.000	4622.14
		SubTotal	**$ 8,758.47**
Fluids/Products: Drilling Cost			
ACCOLADE BASE	1 bbl bulk	652.000	245171.56
ADAPTA HP	25 kg sack	18.00	9017.28
barite	1000 kg bulk	20.120	9554.59
Circal 60/16	25 kg sack	14.00	141.82
LE SUPERMUL	55 gal drum	20.00	17337.60
Omyacarb 5	25 kg bulk	13.000	122.07
RHEMOD L	55 gal drum	2.00	4427.58
Tau Mod	50 lb sack	26.00	2492.36
		SubTotal	**$ 288,264.86**
		Interval Total Cost	**$ 329,523.33**
	Charged To/From Other Interval		**$ -117,001.22**
	Net Description Total Cost		**$ 212,522.11**
	Programmed Cost		**$ 0.00**
	Program Variance		**$ 212,522.11**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**04**	**From Date**	**07/31/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Date**	**08/24/2008**	**Bottom of Interval**	**4,648.0 m**

Material	Unit Size	Quantity		Total Cost
Engineering/Services				
Drilling Fluids Engineer	day(s)	25.00		31250.00
Drilling Fluids Engineer 2	day(s)	25.00		31250.00
		SubTotal	**$**	**62,500.00**
Fluids/Products: Cementing Cost				
barite	1000 kg bulk	21.970		10433.11
		SubTotal	**$**	**10,433.11**
Other				
BARAKLEAN PLUS	1054 l bulk	1.000		4622.14
		SubTotal	**$**	**4,622.14**
Fluids/Products: Drilling Cost				
ACCOLADE BASE	1 bbl bulk	26.000		9776.78
ADAPTA HP	25 kg sack	43.00		21541.28
BARAKLEAN PLUS	1054 l bulk	3.000		13866.42
barite	1000 kg bulk	163.320		77557.40
brine - CaCl2	42 gal bbl	2,192.69		105051.78
Calcium chloride 94%	25 kg sack	40.00		552.80
Circal 60/16	25 kg sack	243.00		2461.59
LE SUPERMUL	55 gal drum	36.00		31207.68
LIQUI-VIS EP	5 gal pail	70.00		13877.50
N-VIS	25 lb bag	5.00		861.60
Omyacarb 5	25 kg bulk	231.000		2169.09
Radiagreen-EME	55 gal drum	5.00		7275.00
RHEMOD L	55 gal drum	1.00		2213.79
sapp	25 kg bag	21.00		1039.71
Tau Mod	50 lb sack	95.00		9106.70
		SubTotal	**$**	**298,559.12**
		Interval Total Cost	**$**	**376,114.37**
	Charged To/From Other Interval		**$**	**136,955.83**
	Net Description Total Cost		**$**	**513,070.20**
	Programmed Cost		**$**	**0.00**
	Program Variance		**$**	**513,070.20**

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Cost Breakdown

Interval #	**05**	**From Date**	**08/25/2008**	**Top of Interval**	**4,648.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Date**	**09/18/2008**	**Bottom of Interval**	**4,648.0 m**

Material	Unit Size	Quantity		Total Cost
Engineering/Services				
Drilling Fluids Engineer	day(s)	25.00		31250.00
Drilling Fluids Engineer 2	day(s)	25.00		31250.00
		SubTotal	**$**	**62,500.00**
Other				
ACCOLADE BASE	1 bbl bulk	10.300		3873.07
BARAKLEAN PLUS	1054 l bulk	1.000		4622.14
brine - CaCl2	42 gal bbl	58.81		2817.59
salt	50 lb bag	3.00		100.50
		SubTotal	**$**	**11,413.30**
Fluids/Products: Completion Cost				
CRW-24001	55 gal drum	4.00		2255.52
		SubTotal	**$**	**2,255.52**
Fluids/Products: Drilling Cost				
ALDACIDE G	5 gal can	9.00		629.10
BARACOR 100	55 gal drum	14.00		7894.32
BARA-DEFOAM W300	5 gal can	2.00		111.84
brine - CaCl2	42 gal bbl	3,216.00		154078.56
Calcium chloride 94%	25 kg sack	273.00		3772.86
caustic soda	25 kg pail	11.00		486.09
FLO-CLEAN MD	55 gal drum	2.00		759.60
LIQUI-VIS EP	5 gal pail	66.00		13084.50
N-VIS	25 lb bag	14.00		2412.48
OXYGON (plant)	6 gal pail	3.00		414.42
Radiagreen-EME	55 gal drum	2.00		2910.00
		SubTotal	**$**	**186,553.77**
		Interval Total Cost	**$**	**262,722.59**
	Charged To/From Other Interval		**$**	**0.00**
	Net Description Total Cost		**$**	**262,722.59**
	Programmed Cost		**$**	**0.00**
	Program Variance		**$**	**262,722.59**

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 01																				
Fluid Name:	**KCl/Polymer**																			
002	06/20/08		857.0							857.0									857.0	857.0
003	06/21/08	857.0												237.0		237.0			620.0	620.0
005	06/23/08	620.0				134.0				134.0									754.0	754.0
006	06/24/08	754.0		556.0					568.5	1,124.5	824.7					824.7	485.3			485.3
007	06/25/08	485.3							64.0	64.0							476.8			476.8
008	06/26/08	476.8											476.7			476.7				
Cumulative Volume			857.0	556.0		134.0			632.5	2,179.5	824.7		476.7	237.0		1,538.4				
Fluid Name:	**PHB**																			
002	06/20/08					1,638.0		43.0		1,681.0									1,681.0	1,681.0
003	06/21/08	1,681.0				100.0		9.8		109.8				284.8		284.8			1,506.0	1,506.0
004	06/22/08	1,506.0				614.7		15.4		630.1				752.1		752.1			1,384.0	1,384.0
005	06/23/08	1,384.0				897.4		22.6		920.0				1,441.0		1,441.0			863.0	863.0
006	06/24/08	863.0												556.0		556.0			307.0	307.0
Cumulative Volume						3,250.1		90.8		3,340.9				3,033.9		3,033.9				
Fluid Name:	**Seawater**																			
002	06/20/08					466.0				466.0								466.0		466.0
003	06/21/08	466.0		521.8						521.8	420.6					420.6	95.2	466.0		561.2
004	06/22/08	561.2		804.0						804.0	527.3					527.3	432.9	399.0		831.9
005	06/23/08	831.9		2,207.4		394.0			5.9	2,607.3	1,663.2					1,663.2	986.3	399.0	374.0	1,759.3
006	06/24/08	1,759.3		67.0						67.0	1,826.3					1,826.3				
Cumulative Volume				3,600.2		860.0			5.9	4,466.1	4,437.4					4,437.4				
Fluid Name:	**Guar Gum**																			

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
004	06/22/08					450.0		1.9		451.9				51.9		51.9			400.0	400.0
005	06/23/08	400.0				750.0		3.4		753.4				766.4		766.4			387.0	387.0
006	06/24/08	387.0												67.0		67.0			320.0	320.0
Cumulative Volume						1,200.0		5.3		1,205.3				885.3		885.3				

Fluid Name: **Brine**

009	06/27/08							148.8		148.8									148.8	148.8
Cumulative Volume								148.8		148.8										

Baroid Fluid Services

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 02																				
Fluid Name: PHB																				
011	06/29/08	307.0									307.0					307.0				
Cumulative Volume											307.0					307.0				
Fluid Name: Guar Gum																				
011	06/29/08	320.0									320.0					320.0				
Cumulative Volume											320.0					320.0				
Fluid Name: ACCOLADE																				
010	06/28/08		1,692.0		53.0					1,745.0									1,745.0	1,745.0
011	06/29/08	1,745.0					167.4	21.4		188.8			16.8			16.8		348.0	1,569.0	1,917.0
012	06/30/08	1,917.0		398.0			46.4	31.6	64.0	540.0	153.0	82.6				235.6	932.3	234.0	991.0	2,157.3
013	07/01/08	2,157.3	64.0	220.0	170.0		13.0	25.3		492.3	91.0	72.5	28.0			191.5	1,072.2	272.0	1,050.0	2,394.2
014	07/02/08	2,394.2	64.0	272.0			18.2	10.8		365.0	102.0	91.7	19.0			212.7	1,250.5	321.0	911.0	2,482.5
015	07/03/08	2,482.5	64.0		14.0			4.6		82.6	4.0	23.9	20.0			47.9	1,240.3	273.0	940.0	2,453.3
016	07/04/08	2,453.3	64.0		20.0		33.7			117.7	106.0	8.6				114.6	1,424.3	288.0	680.0	2,392.3
017	07/05/08	2,392.3	64.0	82.1	284.0			7.0		437.1	18.0	45.2	23.0	0.1		86.3	1,454.2	253.0	972.0	2,679.2
018	07/06/08	2,679.2	64.0		30.0		74.0	15.7		183.7	55.0	33.5	6.0			94.5	1,699.3	213.0	792.0	2,704.3
019	07/07/08	2,704.3	64.0		335.0		3.5	26.8		429.3		12.3				12.3	1,699.3	210.0	1,148.0	3,057.3
020	07/08/08	3,057.3	64.0	90.0				1.1		155.1		10.1				10.1	1,699.3	205.0	1,234.0	3,138.3
021	07/09/08	3,138.3	64.0				6.6	1.6		72.2	20.0	14.2	19.0			53.2	1,699.3	342.0	1,052.0	3,093.3
022	07/10/08	3,093.3	64.0							64.0		12.0	24.0			36.0	1,699.3	253.0	1,105.0	3,057.3
023	07/11/08	3,057.3	64.0							64.0							1,699.3	240.0	1,118.0	3,057.3
024	07/12/08	3,057.3	64.0							64.0							1,699.3	220.0	1,138.0	3,057.3
025	07/13/08	3,057.3	64.0			30.2				94.2							1,548.9	346.6	1,192.0	3,087.5
026	07/14/08	3,087.5	64.0			69.6				133.6							1,535.1	380.0	1,242.0	3,157.1

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
027	07/15/08	3,157.1	64.0				6.6			70.6			18.6			18.6	1,531.0	226.0	1,388.0	3,145.0
028	07/16/08	3,145.0			17.5					17.5			402.4			402.4	746.3	270.0	1,744.0	2,760.3
029	07/17/08	2,760.3			10.0	29.8	17.9			57.7							764.9	366.0	1,687.0	2,817.9
Cumulative Volume			2,652.0	1,062.1	933.5	129.6	387.3	145.9	64.0	5,374.4	549.0	406.6	576.8	0.1		1,532.5				

Fluid Name: Brine

011	06/29/08	148.8				308.2				308.2									457.0	457.0
012	06/30/08	457.0												100.0		100.0			357.0	357.0
013	07/01/08	357.0												50.0		50.0			307.0	307.0
014	07/02/08	307.0												50.0		50.0			257.0	257.0
017	07/05/08	257.0		0.1						0.1				82.1		82.1			175.0	175.0
020	07/08/08	175.0												90.0		90.0			85.0	85.0
Cumulative Volume				0.1		308.2				308.3				372.1		372.1				

Fluid Name: Base Oil

012	06/30/08				379.0					379.0				298.0		298.0			81.0	81.0
013	07/01/08	81.0	311.0							311.0				170.0		170.0			222.0	222.0
014	07/02/08	222.0												222.0		222.0				
019	07/07/08		69.0							69.0									69.0	69.0
028	07/16/08	69.0			8.0					8.0									77.0	77.0
Cumulative Volume			380.0		387.0					767.0				690.0		690.0				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 04																				
Fluid Name:	**ACCOLADE**																			
043	07/31/08	3,128.2					2.2			2.2			44.3			44.3	861.1	374.0	1,851.0	3,086.1
045	08/02/08	3,086.2					9.4	9.3		18.7	6.0		12.0			18.0	721.8	406.0	1,959.0	3,086.8
046	08/03/08	3,086.8					15.7	0.4		16.1	96.0	20.7	20.0		435.0	571.7	785.2	471.0	1,275.0	2,531.2
047	08/04/08	2,531.2					25.5	10.9		36.4	81.0	44.0	20.0			145.0	840.6	410.0	1,172.0	2,422.6
048	08/05/08	2,422.6				40.0		5.6		45.6	82.0	18.8	15.0			115.8	940.4	429.0	983.0	2,352.4
049	08/06/08	2,352.4										7.8	22.0			29.8	977.6	478.0	867.0	2,322.6
050	08/07/08	2,322.6		171.0	50.0		8.5	16.8		246.3	88.0	55.0	20.0			163.0	958.9	377.0	1,070.0	2,405.9
051	08/08/08	2,405.9					37.8	3.5		41.3	155.0	47.2	20.0			222.2	1,053.0	386.0	786.0	2,225.0
052	08/09/08	2,225.0				17.0		7.9		24.9	143.0	63.6	20.0			226.6	1,136.3	384.0	503.0	2,023.3
053	08/10/08	2,023.3			40.0	10.0				50.0	69.0	28.7	7.0			104.7	1,202.6	368.0	398.0	1,968.6
054	08/11/08	1,968.6		174.0			43.0	15.9		232.9		3.0				3.0	1,459.5	283.0	456.0	2,198.5
055	08/12/08	2,198.5				44.0				44.0					433.0	433.0	1,373.1	343.0	93.4	1,809.5
056	08/13/08	1,809.5		53.0		54.1	20.2			127.3							1,258.0	271.0	407.8	1,936.8
057	08/14/08	1,936.8												244.7		244.7	1,370.4	262.0	59.7	1,692.1
058	08/15/08	1,692.1					3.6			3.6							1,360.5	272.0	63.2	1,695.7
059	08/16/08	1,695.7					33.0			33.0							1,260.2	365.0	103.5	1,728.7
060	08/17/08	1,728.7					24.0	2.6		26.6			31.1			31.1	1,124.8	491.6	107.9	1,724.3
061	08/18/08	1,724.2					4.9	1.3		6.2				274.0		274.0	1,042.0	89.6	324.9	1,456.5
062	08/19/08	1,456.4		60.0			9.7	4.3		74.0							1,124.8		405.7	1,530.5
063	08/20/08	1,530.5						11.6		11.6				11.3	200.0	211.3	1,062.6	203.5	64.5	1,330.6
064	08/21/08	1,330.7				0.2	7.3	1.3		8.8				15.3		15.3	1,095.7	188.0	40.5	1,324.2
065	08/22/08	1,324.2						0.7		0.7							968.5	291.0	65.4	1,324.9
066	08/23/08	1,324.9											21.0	10.0	809.8	840.8			484.0	484.0
067	08/24/08	484.0												6.0	470.0	476.0			8.0	8.0
Cumulative Volume				458.0	90.0	165.3	244.8	92.1		1,050.2	720.0	288.8	252.4	561.3	2,347.8	4,170.3				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
Fluid Name:		**Brine**																		
046	08/03/08	1,186.0													1,186.0	1,186.0				
056	08/13/08				694.0	155.2		13.8		863.0									863.0	863.0
057	08/14/08	863.0											127.0			127.0			736.0	736.0
058	08/15/08	736.0			760.0	13.0				773.0									1,509.0	1,509.0
061	08/18/08	1,509.0												75.0		75.0			1,434.0	1,434.0
063	08/20/08	1,434.0			189.7	70.0		1.3		261.0				10.0		10.0			1,685.0	1,685.0
065	08/22/08	1,685.0			70.0	7.0				77.0									1,762.0	1,762.0
066	08/23/08	1,762.0			389.0	40.0				429.0			456.7	289.1		745.8	1,124.8	62.0	258.5	1,445.3
067	08/24/08	1,445.3											254.1	44.1		298.2	1,037.7		109.4	1,147.1
Cumulative Volume					2,102.7	285.2		15.1		2,403.0			837.8	418.2	1,186.0	2,442.0				
Fluid Name:		**Base Oil**																		
043	07/31/08	427.0			21.0					21.0									448.0	448.0
050	08/07/08	448.0												171.0		171.0			277.0	277.0
054	08/11/08	277.0												174.0		174.0			103.0	103.0
056	08/13/08	103.0												53.0		53.0			50.0	50.0
062	08/19/08	50.0												50.0		50.0				
Cumulative Volume					21.0					21.0				448.0		448.0				
Fluid Name:		**Slops**																		
057	08/14/08			244.7		17.3				262.0									262.0	262.0
058	08/15/08	262.0				51.0				51.0									313.0	313.0
060	08/17/08	313.0													301.0	301.0			12.0	12.0
061	08/18/08	12.0	129.7	349.0						478.7									490.7	490.7
062	08/19/08	490.7												10.0	465.7	475.7			15.0	15.0

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
063	08/20/08	15.0		21.3		88.7				110.0					125.0	125.0				
064	08/21/08			15.3		11.7				27.0									27.0	27.0
065	08/22/08	27.0				9.0				9.0									36.0	36.0
066	08/23/08	36.0		299.1		147.9				447.0									483.0	483.0
067	08/24/08	483.0		50.1						50.1					230.1	230.1			303.0	303.0
Cumulative Volume			129.7	979.5		325.6				1,434.8				10.0	1,121.8	1,131.8				

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 05																				
Fluid Name:	**Seawater**																			
078	09/04/08		623.0							623.0									623.0	623.0
079	09/05/08	623.0											308.0			308.0			315.0	315.0
080	09/06/08	315.0											315.0			315.0				
084	09/10/08		405.0							405.0									405.0	405.0
085	09/11/08	405.0	414.0							414.0									819.0	819.0
088	09/14/08	819.0											819.0			819.0				
Cumulative Volume			1,442.0							1,442.0			1,442.0			1,442.0				
Fluid Name:	**ACCOLADE**																			
068	08/25/08	8.0												8.0		8.0				
Cumulative Volume														8.0		8.0				
Fluid Name:	**Brine**																			
068	08/25/08	1,147.1			1,105.0	95.0		8.7		1,208.7	5.0	26.0	179.1	100.0		310.1	984.8	275.0	785.8	2,045.6
069	08/26/08	2,045.6			704.0	76.0				780.0		28.4	25.0			53.4	1,124.8	265.0	1,382.5	2,772.3
070	08/27/08	2,772.2			602.0	40.0		29.0		671.0		52.0	819.8			871.8	1,051.9	680.0	839.5	2,571.4
071	08/28/08	2,571.4			145.0	14.0		13.9		172.9		48.0	76.0			124.0	1,124.8	206.0	1,289.5	2,620.3
072	08/29/08	2,620.2										38.6				38.6	1,095.2	160.0	1,326.5	2,581.7
073	08/30/08	2,581.6										48.0				48.0	1,042.2	194.5	1,297.0	2,533.7
074	08/31/08	2,533.7										37.0	17.0			54.0	1,042.2	145.0	1,292.5	2,479.7
075	09/01/08	2,479.7							270.0	270.0		40.5	15.0			55.5	1,042.2	114.0	1,538.0	2,694.2
076	09/02/08	2,694.2			660.0					660.0			223.0			223.0	1,042.2	45.0	2,044.0	3,131.2
077	09/03/08	3,131.2											333.0			333.0	1,042.2	111.0	1,645.0	2,798.2
079	09/05/08	2,798.2						2.5		2.5			243.0			243.0	964.6	332.0	1,261.0	2,557.6
080	09/06/08	2,557.6											62.0			62.0	964.6	332.0	1,199.0	2,495.6

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume bbl	Received bbl	Mixed bbl	Base bbl	Water bbl	Barite bbl	Chemicals bbl	Other bbl	Daily Total bbl	SCE bbl	Downhole bbl	Misc bbl	Mixed bbl	Returned bbl	Daily Total bbl	Hole Volume bbl	Active Pit Volume bbl	Reserve Volume bbl	Final Volume bbl
081	09/07/08	2,495.6	660.0							660.0			199.8			199.8	1,124.8	333.0	1,498.0	2,955.8
082	09/08/08	2,955.8											26.0			26.0	1,124.8	333.0	1,472.0	2,929.8
083	09/09/08	2,929.8											7.0			7.0	1,124.8	333.0	1,465.0	2,922.8
084	09/10/08	2,922.8						5.2		5.2			365.7			365.7	918.3	345.0	1,299.0	2,562.3
085	09/11/08	2,562.3	410.4							410.4							1,124.8	357.0	1,491.0	2,972.8
086	09/12/08	2,972.8	4.0							4.0							1,124.8		1,852.0	2,976.8
088	09/14/08	2,976.8											1,852.0			1,852.0	1,124.8			1,124.8
Cumulative Volume			1,074.4		3,216.0	225.0		59.3	270.0	4,844.7	5.0	318.5	4,443.4	100.0		4,866.9				

Fluid Name: Slops

068	08/25/08	303.0		108.0		21.0				129.0									432.0	432.0
069	08/26/08	432.0											32.0			32.0			400.0	400.0
070	08/27/08	400.0											32.0			32.0			368.0	368.0
071	08/28/08	368.0													357.0	357.0			11.0	11.0
072	08/29/08	11.0											11.0			11.0				
Cumulative Volume				108.0		21.0				129.0			75.0		357.0	432.0				

Baroid Fluid Services

Company	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Volume Record Report

			Additions								Losses						Volumes			
Report No	Date	Initial Volume	Received	Mixed	Base	Water	Barite	Chemicals	Other	Daily Total	SCE	Downhole	Misc	Mixed	Returned	Daily Total	Hole Volume	Active Pit Volume	Reserve Volume	Final Volume
		bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl	bbl
Interval # 03																				
Fluid Name:	**ACCOLADE**																			
030	07/18/08	2,817.9			18.0					18.0							764.9	384.0	1,687.0	2,835.9
033	07/21/08	2,835.9				20.0				37.0							764.9	363.0	1,745.0	2,872.9
034	07/22/08	2,872.9				10.0				10.0							764.9	363.0	1,755.0	2,882.9
036	07/24/08	2,882.9		108.0		52.4				160.4							810.3	474.0	1,759.0	3,043.3
037	07/25/08	3,043.3					13.0	0.9		13.9	68.0		0.5			68.5	812.7	382.0	1,794.0	2,988.7
038	07/26/08	2,988.7					6.1			6.1	4.0	1.9				5.9	855.9	397.0	1,736.0	2,988.9
039	07/27/08	2,988.9						6.5		6.5							955.5	346.0	1,694.0	2,995.5
040	07/28/08	2,995.5					9.5	17.0		26.5	60.0	18.3	16.0			94.3	815.0	409.0	1,704.0	2,928.0
041	07/29/08	2,928.0				29.2	1.5			30.7							981.7	335.0	1,642.0	2,958.7
042	07/30/08	2,958.7		159.0				10.4		169.4							981.7	347.5	1,799.0	3,128.2
Cumulative Volume				267.0	18.0	111.6	30.1	34.8		478.5	132.0	20.2	16.5			168.7				
Fluid Name:	**Brine**																			
030	07/18/08	85.0	84.0							102.0									169.0	169.0
033	07/21/08	169.0	12.0							12.0									181.0	181.0
038	07/26/08	181.0	289.0							289.0									470.0	470.0
042	07/30/08	470.0	716.0							716.0									1,186.0	1,186.0
Cumulative Volume			1,101.0							1,119.0										
Fluid Name:	**Base Oil**																			
034	07/22/08	77.0			330.0					330.0									407.0	407.0
036	07/24/08	407.0												108.0		108.0			299.0	299.0
042	07/30/08	299.0			287.0					287.0				159.0		159.0			427.0	427.0
Cumulative Volume					617.0					617.0				267.0		267.0				

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval #	**01**	**From Report Date**	**06/19/2008**	**Top of Interval**	**0.0 m**
Max. Hole Size / Bit Size	**36.000 / 36.000 in**	**To Report Date**	**06/26/2008**	**Bottom of Interval**	**755.0 m**

Fluid Name: KCl/Polymer

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	9.86	6.79	12.92
caustic soda	0.03	0.02	0.04
lime	0.10	0.07	0.14

Fluid Name: PHB

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	23.50	22.30	25.61
caustic soda	0.09	0.07	0.12
lime	0.18	0.06	0.24

Fluid Name: Seawater

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	12.61	7.38	16.39
caustic soda	0.05	0.04	0.08
guar gum	0.46	0.09	0.68
lime	0.08	0.02	0.12

Fluid Name: Guar Gum

Material	Average ppb	Minimum ppb	Maximum ppb
guar gum	2.57	2.44	2.61

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 02		**From Report Date**	**06/27/2008**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size	**22.000 / 22.000 in**	**To Report Date**	**07/17/2008**	**Bottom of Interval**	**2,600.0 m**

Fluid Name: PHB

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	22.96	22.96	22.96
caustic soda	0.07	0.07	0.07
lime	0.24	0.24	0.24

Fluid Name: Guar Gum

Material	Average ppb	Minimum ppb	Maximum ppb
guar gum	2.61	2.61	2.61

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
barite	110.04	95.66	134.64
calcium chloride	18.32	10.27	23.42
Calcium chloride 94%	1.00	0.72	1.66
calcium chloride flake 77%	0.01	0.01	0.03
Circal 60/16	2.78	1.05	3.57
Circal Y	0.40	0.23	0.46
LE SUPERMUL	3.62	2.70	4.54
lime	0.03	0.02	0.04
Omyacarb 5	2.82	1.05	3.42
RHEMOD L	0.26	0.18	0.32
STEELSEAL	1.38	1.12	1.75
Tau Mod	1.25	0.10	1.80

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
barite	0.05	0.05	0.05
calcium chloride	301.90	252.12	774.60
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
LE SUPERMUL	0.00	0.00	0.00
lime	0.00	0.00	0.00
Omyacarb 5	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 03		**From Report Date**	**07/18/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**13.500 / 13.500 in**	**To Report Date**	**07/30/2008**	**Bottom of Interval**	**2,987.0 m**

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
barite	132.13	124.67	136.28
calcium chloride	22.09	19.94	23.27
Calcium chloride 94%	0.93	0.84	0.98
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	3.38	3.21	3.54
Circal Y	0.41	0.37	0.43
lime	0.02	0.02	0.03
Omyacarb 5	3.25	3.08	3.40
RHEMOD L	0.35	0.29	0.55
STEELSEAL	1.41	1.27	1.48
Tau Mod	1.82	1.66	1.94

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
barite	0.02	0.00	0.03
calcium chloride	416.31	114.73	751.77
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
lime	0.00	0.00	0.00
Omyacarb 5	0.00	0.00	0.00
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 04		**From Report Date**	**07/31/2008**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Report Date**	**08/24/2008**	**Bottom of Interval**	**4,648.0 m**

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	0.00	0.00	0.00
barite	178.01	129.20	224.28
calcium chloride	15.84	12.53	20.45
Calcium chloride 94%	0.95	0.53	1.96
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	5.78	3.28	7.47
Circal Y	0.29	0.23	0.38
LE SUPERMUL	2.62	0.36	4.68
lime	0.02	0.01	0.02
LIQUI-VIS EP	0.00	0.00	0.00
N-VIS	0.00	0.00	0.00
Omyacarb 5	5.51	3.14	7.13
Radiagreen-EME	0.00	0.00	0.00
RHEMOD L	0.49	0.34	0.67
STEELSEAL	1.01	0.80	1.30
Tau Mod	2.46	1.93	3.17

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	3.11	2.22	5.38
barite	0.00	0.00	0.00
calcium chloride	73.81	36.41	114.73
Calcium chloride 94%	0.00	0.00	0.00
calcium chloride flake 77%	0.00	0.00	0.00
Circal 60/16	0.00	0.00	0.00
lime	0.00	0.00	0.00
LIQUI-VIS EP	1.92	1.16	3.65
N-VIS	0.08	0.05	0.14
Omyacarb 5	0.00	0.00	0.00
Radiagreen-EME	1.00	0.72	1.74
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Fluid Name:	**Slops**		
Material	**Average ppb**	**Minimum ppb**	**Maximum ppb**
BARAKLEAN PLUS	0.63	0.00	1.73
barite	99.01	11.75	158.54
calcium chloride	12.95	5.33	23.50
Calcium chloride 94%	0.44	0.10	1.10
calcium chloride flake 77%	0.00	0.00	0.01
Circal 60/16	3.17	0.30	5.86
Circal Y	0.13	0.01	0.24
LE SUPERMUL	1.26	0.24	2.63
lime	0.01	0.00	0.01
LIQUI-VIS EP	0.30	0.00	0.72
N-VIS	0.01	0.00	0.03
Omyacarb 5	3.03	0.29	5.61
Radiagreen-EME	0.18	0.00	0.45
RHEMOD L	0.22	0.04	0.38
STEELSEAL	0.44	0.04	0.81
Tau Mod	1.28	0.15	2.26

Baroid Fluid Services

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

Interval # 05		**From Report Date**	**08/25/2008**	**Top of Interval**	**4,648.0 m**
Max. Hole Size / Bit Size	**9.500 / 9.500 in**	**To Report Date**	**09/18/2008**	**Bottom of Interval**	**4,648.0 m**

Fluid Name: Seawater

Material	Average ppb	Minimum ppb	Maximum ppb
bentonite	9.79	6.48	13.11
caustic soda	0.03	0.02	0.05
guar gum	0.51	0.34	0.68
lime	0.09	0.06	0.11

Fluid Name: ACCOLADE

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	0.00	0.00	0.00
barite	224.28	224.28	224.28
calcium chloride	12.55	12.55	12.55
Calcium chloride 94%	1.95	1.95	1.95
calcium chloride flake 77%	0.01	0.01	0.01
Circal 60/16	5.73	5.73	5.73
Circal Y	0.23	0.23	0.23
LE SUPERMUL	4.65	4.65	4.65
lime	0.01	0.01	0.01
LIQUI-VIS EP	0.00	0.00	0.00
N-VIS	0.00	0.00	0.00
Omyacarb 5	5.48	5.48	5.48
Radiagreen-EME	0.00	0.00	0.00
RHEMOD L	0.67	0.67	0.67
STEELSEAL	0.80	0.80	0.80
Tau Mod	3.17	3.17	3.17

Fluid Name: Brine

Material	Average ppb	Minimum ppb	Maximum ppb
ALDACIDE G	0.10	0.07	0.13
BARACOR 100	1.54	0.80	2.09
BARA-DEFOAM W300	0.02	0.01	0.02
BARAKLEAN PLUS	0.63	0.43	1.35
barite	0.00	0.00	0.00
calcium chloride	8.22	5.68	17.73
Calcium chloride 94%	2.79	0.00	3.81
calcium chloride flake 77%	0.00	0.00	0.00

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval Chemical Concentration

caustic soda	0.12	0.03	0.18
Circal 60/16	0.00	0.00	0.00
CRW-24001	0.52	0.51	0.59
FLO-CLEAN MD	0.19	0.15	0.27
lime	0.00	0.00	0.00
LIQUI-VIS EP	0.85	0.59	1.83
N-VIS	0.08	0.05	0.17
Omyacarb 5	0.00	0.00	0.00
OXYGON (plant)	0.04	0.03	0.05
Radiagreen-EME	0.34	0.21	0.47
RHEMOD L	0.00	0.00	0.00
STEELSEAL	0.00	0.00	0.00
Tau Mod	0.00	0.00	0.00

Fluid Name: Slops

Material	Average ppb	Minimum ppb	Maximum ppb
BARAKLEAN PLUS	1.53	1.53	1.53
barite	13.39	13.39	13.39
calcium chloride	20.81	20.81	20.81
Calcium chloride 94%	0.12	0.12	0.12
calcium chloride flake 77%	0.00	0.00	0.00
caustic soda	0.01	0.01	0.01
Circal 60/16	0.34	0.34	0.34
Circal Y	0.01	0.01	0.01
LE SUPERMUL	0.28	0.28	0.28
lime	0.00	0.00	0.00
LIQUI-VIS EP	0.93	0.93	0.93
N-VIS	0.06	0.06	0.06
Omyacarb 5	0.33	0.33	0.33
Radiagreen-EME	0.40	0.40	0.40
RHEMOD L	0.04	0.04	0.04
STEELSEAL	0.05	0.05	0.05
Tau Mod	0.18	0.18	0.18

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : Water-Based Fluid

Date	Depth	FL Temp	Density	Funn Visc	Rheology 25 Deg C					Filtration					Filtrate Analysis						MBT	Sand	Retort Analysis				Rheometer Dial Readings					
					PV	lbs/100 ft2				API	HTHP	Cake API	Cake HTHP	Temp	pH	Pm	Pf	Mf	Cl	Total Hardness	ppb Eq.	% by vol	% by vol				600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	ml/30 min	32nd in		Deg C		ml	ml	ml	mg/l	mg/l			Corr Solid	LGS	NAP Base	Water						
Interval # 01										**From Date**				**06/19/2008**						**Top of Interval**			**0.0**		**m**						
Max. Hole Size / Bit Size		**36.000 / 36.000 in**								**To Date**				**06/27/2008**						**Bottom of Interval**			**755.0**		**m**						
06/21/2008	0		9.60	180	25	70																			99	120.0	95.0	85.0	75.0	60.0	55.0
06/22/2008	0		9.60	180	25	70																			99	120.0	95.0	85.0	75.0	60.0	55.0
06/23/2008	0		9.60	155	20	70	55	60	70																99	110.0	90.0	85.0	75.0	55.0	52.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 02										**From Date**				**06/28/2008**						**Top of Interval**			**755.0**		**m**					
Max. Hole Size / Bit Size 22.000 / 22.000 in										**To Date**				**07/17/2008**						**Bottom of Interval**			**2,600.0**		**m**					
06/30/2008	758	25	12.00	70	31	14	8	12	14	4.0	1	120	380			273,577	29.12	2.56			17.5	5.4	56.0	24.0	70/30	76.0	45.0	35.0	23.0	7.0	6.0
06/30/2008	1,038	32	11.90	85	32	24	11	12	12	2.0	1	120	535			194,058	17.47	6.16			18.1	6.7	52.0	28.0	65/35	88.0	56.0	43.0	31.0	10.0	9.0
06/30/2008	1,244	49	11.90	76	35	33	15	19		4.0		120	580			215,968	26.07				15.1	0.7	56.0	27.0	67.5/32.5	103.0	68.0	55.0	40.0	16.0	14.0
06/30/2008	1,424	52	12.00	78	37	37	15	20		4.4	1	120	570			173,349	20.58				16.5	2.4	54.0	28.0	65.9/34.1	111.0	74.0	60.0	43.0	16.0	15.0
07/01/2008	1,505	60	12.10	76	35	38	10	17	19	4.2	1	120	590			302,408	40.77	3.30			16.5	4.7	51.0	29.0	63.7/36.3	108.0	73.0	59.0	41.0	16.0	15.0
07/01/2008	1,542	61	12.10	78	45	40	17	19	19	2.4	1	120	573			206,954	24.70				17.2	3.5	54.0	27.0	66.7/33.3	130.0	85.0	67.0	47.0	17.0	15.0
07/01/2008	1,599	64	12.00	70	46	39	16	18	19	2.8	1	120	596			231,424	27.44				17.0	4.0	55.0	26.0	67.9/32.1	131.0	85.0	67.0	47.0	17.0	14.0
07/01/2008	1,685	66	12.10	78	35	36	14	19	19	4.0	1	120	574			250,717	24.27	6.23			17.5	4.7	54.0	26.0	67.5/32.5	106.0	71.0	56.0	39.0	15.0	13.0
07/02/2008	1,808	69	12.00	71	39	36	15	18		3.0	1	120	516			256,211	30.18				17.7	5.9	55.0	25.0	68.8/31.2	114.0	75.0	60.0	42.0	15.0	13.0
07/02/2008	1,904	71	12.00	74	48	43	17	21	21	3.0	1	120	520			283,783	25.24	8.09			17.2	4.9	56.0	24.0	70/30	139.0	91.0	73.0	51.0	17.0	15.0
07/02/2008	2,003	74	11.90	69	49	42	18	21	20	3.0	1	120	535			284,097	24.27	9.12			17.1	5.6	56.0	24.0	70/30	140.0	91.0	76.0	52.0	18.0	15.0
07/02/2008	2,031	67	12.00	72	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94			17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/03/2008	2,031		12.00	75	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94			17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/03/2008	2,031		12.00	126	38	34	14	19	19	3.0	1	120	546			281,581	32.03	0.94		0.2	17.4	5.5	56.0	24.0	70/30	110.0	72.0	56.0	39.0	15.0	13.0
07/04/2008	2,140	67	12.00	71	41	33	15	19	19	3.0		120	460			264,068	30.18			1.0	18.7	7.9	55.0	24.0	69.6/30.4	115.0	74.0	58.0	40.0	16.0	14.0
07/04/2008	2,347	70	12.00	78	43	38	16	19	20	3.0	1	120	490			255,127	28.81			0.5	18.8	7.9	55.0	24.0	69.6/30.4	124.0	81.0	62.0	44.0	16.0	13.0
07/04/2008	2,405	70	12.00	84	41	38	16	19	19	4.0	1	120	495			245,966	27.44			0.5	18.0	5.9	56.0	24.0	70/30	120.0	79.0	60.0	42.0	16.0	14.0
07/04/2008	2,405	70	12.00	78	41	38	16	19	19	4.0	1	120	465			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	120.0	79.0	62.0	42.0	16.0	14.0
07/05/2008	2,405	70	12.00	71	38	38	14	19	19	4.0	1	120	545			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	114.0	76.0	58.0	40.0	15.0	13.0
07/05/2008	2,433	70	12.00	74	49	41	16	19	21	3.0	1	120	530			255,127	28.81			0.5	17.8	5.8	56.0	24.0	70/30	139.0	90.0	72.0	49.0	16.0	14.0
07/05/2008	2,434	70	12.00	74	45	37	15	21	21	3.0	1	120	574			264,401	29.12	1.12		0.5	17.7	5.6	56.0	24.0	70/30	127.0	82.0	65.0	45.0	16.0	14.0
07/06/2008	2,578	71	12.00	71	43	36	15	20	20	3.0	1	120	570			282,116	29.12	2.56		0.8	19.5	9.5	55.0	23.0	70.5/29.5	122.0	79.0	62.0	43.0	16.0	14.0
07/06/2008	2,600	70	12.00	63	40	35	15	19	20	3.0	2	120	550			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0
07/06/2008	2,600		12.00	70	40	35	15	19	19	3.0	1	120	547			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0
07/07/2008	2,600		12.00	84	40	35	15	19	19	3.0	1	120	556			264,542	25.24	3.76		0.5	19.7	9.5	55.0	23.0	70.5/29.5	115.0	75.0	57.0	40.0	14.0	12.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
07/07/2008	2,600		12.10	90	37	36	15	19	19	3.0	2	120	550			272,761	29.12	1.12		0.5	19.7	9.0	55.0	23.0	70.5/29.5	110.0	73.0	60.0	42.0	14.0	12.0
07/07/2008	2,600		12.20	135	37	36	14	19	19	2.5	2	120	629			281,667	29.12	1.12		0.5	19.6	8.1	56.0	22.0	71.8/28.2	110.0	73.0	60.0	42.0	14.0	12.0
07/08/2008	2,600		12.20	135	37	36	14	19	19	3.0	2	120	574			272,761	29.12	1.12		0.5	19.7	8.2	55.0	23.0	70.5/29.5	110.0	73.0	60.0	42.0	14.0	12.0
07/08/2008	2,600		12.20	135	34	29	14	18	19	3.0	2	120	700			300,493	29.12	4.01		0.3	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/08/2008	2,600		12.20	135	34	29	14	19	19	3.0	2	120	657			300,493	29.12	4.01		0.5	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/09/2008	2,600		12.20	135	34	29	14	19	19	3.0	2	120	684			300,493	29.12	4.01		0.5	17.3	3.4	58.0	22.0	72.5/27.5	97.0	63.0	50.0	34.0	13.0	11.0
07/09/2008	2,600	41	12.10	96	46	32	15	19	20	3.0	2	120	500			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/09/2008	2,600		12.10	112	44	32	15	19	19	3.0	2	120	476			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	59.0	40.0	15.0	13.0
07/10/2008	2,600		12.10	120	44	32	15	19	19	3.0	2	120	547			320,899	29.12	4.01		0.5	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	59.0	40.0	15.0	13.0
07/10/2008	2,600		12.10	150	46	32	15	19	20	3.0	2	120	520			320,899	29.12	4.01		0.3	19.3	8.1	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/10/2008	2,600		12.10	120	44	32	15	19	20	3.0	2	120	520			320,899	29.12	4.01		0.3	19.3	8.1	58.0	20.0	74.4/25.6	120.0	76.0	60.0	41.0	15.0	14.0
07/11/2008	2,600		12.20	98	46	32	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	124.0	78.0	61.0	42.0	15.0	13.0
07/11/2008	2,600		12.20	100	44	45	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/12/2008	2,600		12.20	98	44	44	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	132.0	88.0	69.0	50.0	17.0	14.0
07/12/2008	2,600		12.20	100	44	45	15	20	22	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/13/2008	2,600		12.20	100	44	45	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	133.0	89.0	70.0	49.0	17.0	14.0
07/13/2008	2,600		12.20	98	44	44	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	19.3	7.3	58.0	20.0	74.4/25.6	132.0	88.0	69.0	50.0	17.0	14.0
07/14/2008	2,600		12.15	96	46	32	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	20.3	9.8	57.0	20.0	74/26	124.0	78.0	61.0	42.0	15.0	13.0
07/14/2008	2,600		12.15	98	45	33	15	19	20	3.0	2	120	550			320,899	29.12	4.01		0.3	20.3	9.8	57.0	20.0	74/26	123.0	78.0	62.0	41.0	15.0	13.0
07/15/2008	2,600		12.10	133	34	29	13	17	18	3.0	2	120	490			283,156	27.18	6.05		0.3	21.3	12.8	52.0	24.0	68.4/31.6	97.0	63.0	50.0	34.0	13.0	11.0
07/15/2008	2,600		12.10	130	32	31	13	17	18	3.0	2	120	490			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	95.0	63.0	50.0	34.0	13.0	11.0
07/16/2008	2,600		12.15	126	50	30	13	19	21	4.0	2	120	450			282,526	29.12	4.01		0.3	21.3	12.6	52.0	24.0	68.4/31.6	130.0	80.0	60.0	40.0	14.0	11.0
07/16/2008	2,600		12.15	125	44	31	13	18	20	3.0	2	120	400			273,577	29.12	2.56		0.3	21.5	12.8	52.0	24.0	68.4/31.6	119.0	75.0	54.0	36.0	13.0	11.0
07/17/2008	2,600		12.10	125	45	32	13	18	20	3.0	2	120	400			264,401	29.12	1.12		0.3	21.7	13.3	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	14.0	11.0
07/17/2008	2,600		12.10	123	43	34	13	18	21	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	120.0	77.0	55.0	36.0	13.0	11.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 03										**From Date**				**07/18/2008**							**Top of Interval**			**2,600.0**	**m**					
Max. Hole Size / Bit Size			**13.500 / 13.500 in**							**To Date**				**07/30/2008**							**Bottom of Interval**			**2,987.0**	**m**					
07/18/2008	2,600		12.10	122	45	32	13	18	20	3.0	2	120	400			255,127	28.81			0.3	21.8	13.5	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	13.0	11.0
07/18/2008	2,600		12.10	123	43	35	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	121.0	78.0	58.0	40.0	13.0	11.0
07/19/2008	2,600		12.10	122	43	35	13	18	20	3.0	2	120	400			264,070	30.09	0.10			21.7	13.4	52.0	24.0	68.4/31.6	121.0	78.0	58.0	40.0	13.0	11.0
07/19/2008	2,600		12.10	122	44	34	13	19	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	122.0	78.0	60.0	40.0	13.0	11.0
07/20/2008	2,600		12.10	120	45	32	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	13.4	52.0	24.0	68.4/31.6	122.0	77.0	58.0	43.0	13.0	11.0
07/20/2008	2,600		12.10	123	44	33	13	18	20	3.0	2	120	400			264,401	29.12	1.12		0.3	21.7	13.3	52.0	24.0	68.4/31.6	121.0	77.0	59.0	43.0	13.0	11.0
07/21/2008	2,600		12.10	122	43	34	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	120.0	77.0	58.0	37.0	13.0	11.0
07/21/2008	2,600		12.10	120	45	32	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	122.0	77.0	59.0	35.0	13.0	11.0
07/22/2008	2,600		12.10	122	45	32	13	18	20	3.0	2	120	400			245,966	27.44			0.3	22.0	13.6	52.0	24.0	68.4/31.6	122.0	77.0	60.0	40.0	13.0	11.0
07/22/2008	2,600		12.10	121	43	34	13	18	20	3.0	2	120	400			278,930	19.41	13.13	9.77	0.3	21.1	12.2	52.0	24.0	68.4/31.6	120.0	77.0	55.0	36.0	13.0	11.0
07/23/2008	2,600		12.20	128	45	32	13	18	20	3.0	2	120	400			264,070	30.09	0.10			21.7	12.7	52.0	24.0	68.4/31.6	122.0	77.0	61.0	41.0	14.0	11.0
07/23/2008	2,600		12.20	125	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/24/2008	2,600		12.20	125	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/24/2008	2,600		12.20	125	45	33	15	18	20	3.0	2	120	400			281,320	30.18			0.3	21.7	12.4	54.0	22.0	71.1/28.9	123.0	78.0	61.0	42.0	14.0	11.0
07/25/2008	2,600		12.20	128	45	33	13	18	20	3.0	2	120	400			264,070	30.09	0.10		0.3	21.7	12.7	52.0	24.0	68.4/31.6	123.0	78.0	61.0	42.0	14.0	11.0
07/25/2008	2,600		12.20	125	44	34	13	18	21	3.0		120	400			264,070	30.09	0.10			21.7	12.7	52.0	24.0	68.4/31.6	122.0	78.0	61.0	42.0	13.0	11.0
07/25/2008	2,642	110	12.00	108	37	21	12	18	21	2.0	2	120	397			232,486	24.27	3.34			18.8	8.0	53.0	26.0	67.1/32.9	95.0	58.0	44.0	29.0	10.0	8.0
07/25/2008	2,790	57	12.00	85	42	36	15	18	21	2.0	2	120	417			360,481	49.39			0.3	18.0	8.9	53.0	25.0	67.9/32.1	120.0	78.0	58.0	39.0	13.0	11.0
07/26/2008	2,841		12.00	83	42	37	15	18	21	2.0	2	120	408			340,675	45.28			0.3	18.4	9.2	53.0	25.0	67.9/32.1	121.0	79.0	61.0	40.0	13.0	11.0
07/26/2008	2,841		12.00	86	43	35	14	18	21	2.0	1	120	400			326,775	42.53				18.6	9.4	53.0	25.0	67.9/32.1	121.0	78.0	61.0	40.0	13.0	12.0
07/27/2008	2,849	48	12.00	120	44	29	12	15	18	3.5	2	120	309			342,936	43.90			0.3	18.5	9.2	54.0	24.0	69.2/30.8	117.0	73.0	53.0	32.0	11.0	10.0
07/27/2008	2,896	50	12.10	84	48	19	12	15	18	4.0	2	120	331			264,068	30.18			0.3	20.7	11.3	53.0	24.0	68.8/31.2	115.0	67.0	50.0	34.0	11.0	8.0
07/27/2008	2,895		12.15	128	45	20	12	15	18	4.0	2	120	328			272,796	31.56			0.3	19.6	8.8	54.0	24.0	69.2/30.8	110.0	65.0	49.0	34.0	11.0	8.0
07/28/2008	2,895		12.15	128	40	22	12	16	18	5.0	2	120	431			313,508	38.42			0.3	18.0	6.3	55.0	24.0	69.6/30.4	102.0	62.0	49.0	30.0	11.0	8.0
07/28/2008	2,896		12.00	110	40	26	13	17	19	5.0	2	120	360			272,796	31.56				18.6	7.8	55.0	24.0	69.6/30.4	106.0	66.0	50.0	31.0	12.0	8.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
07/28/2008	2,960	53	12.10	95	42	36	13	17	20	4.0	2	120	398			264,068	30.18				19.7	9.2	54.0	24.0	69.2/30.8	120.0	78.0	52.0	37.0	13.0	11.0
07/28/2008	2,987	59	12.00	78	44	32	15	18	21	4.0	2	120	510			264,068	30.18				18.7	7.9	55.0	24.0	69.6/30.4	120.0	76.0	59.0	41.0	14.0	12.0
07/29/2008	2,987		12.00	83	44	32	15	18	21	4.0	2	120	507			255,127	28.81				18.8	7.9	55.0	24.0	69.6/30.4	120.0	76.0	59.0	41.0	14.0	12.0
07/29/2008	2,987		12.10	102	45	31	14	18	21	4.0	2	120	498			245,966	27.44				19.0	7.2	55.0	24.0	69.6/30.4	121.0	76.0	60.0	40.0	14.0	12.0
07/29/2008	2,987		12.20	130	36	31	13	16	19	4.0	2	120	491			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	103.0	67.0	50.0	34.0	13.0	11.0
07/30/2008	2,987		12.20	130	36	31	13	16	19	4.0	2	120	493			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	103.0	67.0	50.0	34.0	13.0	11.0
07/30/2008	2,987		12.20	132	36	32	13	16	18	4.0	2	120	481			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	104.0	68.0	51.0	36.0	14.0	12.0
07/30/2008	2,987		12.20	132	36	33	13	16	18	4.0	2	120	490			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	105.0	69.0	51.0	37.0	14.0	12.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
Interval # 04										**From Date**				**07/31/2008**							**Top of Interval**			**2,600.0**		**m**				
Max. Hole Size / Bit Size 9.500 / 9.500 in										**To Date**				**08/24/2008**							**Bottom of Interval**			**4,648.0**		**m**				
07/31/2008	2,987		12.20	132	36	33	13	16	18	4.0	2	120	492			255,127	28.81				18.8	6.4	55.0	24.0	69.6/30.4	105.0	69.0	51.0	37.0	14.0	12.0
07/31/2008	2,987		9.50	100	70	35	9	15	23			120	12			73,162	3.40	13.76		0.1	6.2	2.4	30.0	62.0	32.6/67.4	175.0	105.0	77.0	47.0	11.0	8.0
07/31/2008	2,987		12.00	110	37	36	12	18	21	5.0	2	120	310			231,424	27.44				18.0	6.1	54.0	26.0	67.5/32.5	110.0	73.0	50.0	32.0	12.0	10.0
08/01/2008	2,600		12.00	118	38	36	12	18	21	5.0	2	120	307			231,424	27.44				18.0	6.1	54.0	26.0	67.5/32.5	112.0	74.0	49.0	33.0	12.0	10.0
08/01/2008	2,600		12.00	123	37	36	12	18	21	5.0	2	120	304			240,216	28.81				17.9	6.1	54.0	26.0	67.5/32.5	110.0	73.0	50.0	34.0	13.0	11.0
08/02/2008	2,600		12.10	125	37	36	12	18	21	5.0	2	120	310			240,216	28.81				17.9	5.3	54.0	26.0	67.5/32.5	110.0	73.0	50.0	34.0	13.0	11.0
08/02/2008	2,702	36	12.10	86	47	24	10	19	26	4.0	2	120	480			238,538	27.18	0.27			18.0	5.2	55.0	25.0	68.8/31.2	118.0	71.0	54.0	35.0	12.0	10.0
08/02/2008	2,714	59	12.00	92	45	30	15	21	26	4.0	2	120	640			255,329	28.15	0.70			17.8	5.7	56.0	24.0	70/30	120.0	75.0	59.0	39.0	14.0	12.0
08/03/2008	2,724	60	12.00	96	45	33	15	23	27	4.0	2	120	702			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	123.0	78.0	60.0	40.0	14.0	12.0
08/03/2008	2,841	60	12.00	96	45	35	14	25	29	4.0	2	120	710			256,007	26.21	2.74		0.3	18.7	7.7	55.0	24.0	69.6/30.4	125.0	80.0	62.0	41.0	16.0	13.0
08/03/2008	2,976	63	12.00	92	45	32	14	25	29	4.0	2	120	650			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	122.0	77.0	60.0	40.0	13.0	11.0
08/04/2008	3,037	63	12.00	93	44	34	15	26	29	4.0	2	120	652			245,966	27.44			0.3	19.0	8.0	55.0	24.0	69.6/30.4	122.0	78.0	61.0	41.0	14.0	12.0
08/04/2008	3,169	63	12.00	81	52	35	15	27	31	5.0	2	120	750			272,222	28.15	0.70		0.3	20.8	11.8	55.0	22.0	71.4/28.6	139.0	87.0	67.0	44.0	14.0	11.0
08/04/2008	3,288	64	12.10	85	48	27	14	25	29	3.5	2	120	785			271,562	27.44			0.5	20.9	11.0	56.0	21.0	72.7/27.3	123.0	75.0	58.0	38.0	13.0	11.0
08/05/2008	3,337	64	12.00	80	47	31	14	25	29	3.0	2	120	759			281,320	27.44			0.5	19.9	9.5	58.0	20.0	74.4/25.6	125.0	78.0	60.0	40.0	13.0	10.0
08/05/2008	3,525	64	12.00	80	44	27	14	22	27	4.0	2	120	760			281,320	27.44			0.3	19.9	9.5	58.0	20.0	74.4/25.6	115.0	71.0	54.0	36.0	13.0	11.0
08/05/2008	2,577	64	12.00	78	40	31	14	25	29	4.0	2	120	760			302,419	26.21	4.18		0.5	17.5	4.8	60.0	20.0	75/25	111.0	71.0	55.0	37.0	12.0	10.0
08/06/2008	3,577		12.00	100	40	31	14	25	29	4.0	2	120	760			302,419	26.21	4.18		0.5	17.5	4.8	60.0	20.0	75/25	111.0	71.0	55.0	37.0	12.0	10.0
08/06/2008	3,577		12.10	120	45	31	14	22	27	5.0	2	120	750			291,877	27.18	1.72		0.1	17.7	4.3	60.0	20.0	75/25	121.0	76.0	59.0	39.0	13.0	11.0
08/06/2008	3,577		12.10	110	43	31	14	23	27	5.0	2	120	750			291,877	27.18	1.72		0.5	17.7	4.3	60.0	20.0	75/25	117.0	74.0	57.0	38.0	13.0	11.0
08/07/2008	3,577	40	11.90	105	49	26	13	25	29	5.0	2	120	760			291,509	28.15	0.70		0.5	17.8	5.9	60.0	20.0	75/25	124.0	75.0	56.0	36.0	11.0	9.0
08/07/2008	3,678	63	12.00	80	44	27	14	22	27	5.0	2	120	600			272,222	28.15	0.70		0.3	17.8	5.5	58.0	22.0	72.5/27.5	115.0	71.0	54.0	35.0	12.0	10.0
08/07/2008	3,737	57	12.10	81	42	32	14	25		5.0	2	120	600			272,222	28.15	0.70		0.3	17.8	4.7	58.0	22.0	72.5/27.5	116.0	74.0	58.0	39.0	13.0	10.0
08/08/2008	3,864	52	12.00	80	44	33	15	25	29	5.6	2	120	540			272,011	28.81			0.3	17.8	5.5	58.0	22.0	72.5/27.5	121.0	77.0	59.0	39.0	13.0	11.0
08/08/2008	4,086	66	12.00	71	41	33	14	24	27	5.4	2	120	500			282,011	28.15	2.14		0.3	19.6	9.5	56.0	22.0	71.8/28.2	115.0	74.0	56.0	37.0	12.0	9.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
08/08/2008	4,161	66	12.00	75	40	41	18	29	35	4.5	2	120	450			301,346	29.12	1.12		0.3	19.6	9.3	58.0	20.0	74.4/25.6	121.0	81.0	74.0	44.0	15.0	12.0
08/09/2008	4,289	66	12.00	73	47	40	18	32	34	4.0	2	120	430			301,704	28.15	2.14		0.3	19.6	9.2	58.0	20.0	74.4/25.6	134.0	87.0	68.0	45.0	15.0	12.0
08/09/2008	4,521	66	12.10	77	60	35	15	24	27	5.0	2	120	425			291,174	29.12	1.12		0.3	18.6	6.6	58.0	21.0	73.4/26.6	155.0	95.0	74.0	49.0	14.0	12.0
08/09/2008	4,558	66	12.10	75	60	33	15	24	27	5.0	2	120				291,174	29.12	1.12		0.3	18.6	6.6	58.0	21.0	73.4/26.6	153.0	93.0	72.0	48.0	15.0	12.0
08/10/2008	4,648	66	12.00	71	56	42	17	27	33	3.6	2	120	400			281,320	27.44			0.3	20.9	11.6	57.0	20.0	74/26	154.0	98.0	84.0	56.0	18.0	14.0
08/10/2008	4,648	33	12.10	77	56	38	15	23	29	4.0	2	120	410			291,289	28.81			0.3	19.8	8.7	58.0	20.0	74.4/25.6	150.0	94.0	75.0	50.0	14.0	11.0
08/10/2008	4,648		12.10	80	56	37	15	25	29	3.8	2	120	400			281,320	27.44			0.3	20.9	10.9	57.0	20.0	74/26	149.0	93.0	77.0	53.0	14.0	11.0
08/11/2008	4,648		12.10	78	57	36	15	25	30	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	150.0	93.0	73.0	53.0	15.0	11.0
08/11/2008	4,648		12.10	77	60	35	14	23	27	4.0	2	120	410			281,320	27.44			0.3	19.9	8.8	58.0	20.0	74.4/25.6	155.0	95.0	74.0	49.0	14.0	12.0
08/11/2008	4,648		12.20	85	60	33	15	24	27	3.9	2	120	400			281,320	27.44			0.3	19.9	8.0	58.0	20.0	74.4/25.6	153.0	93.0	72.0	48.0	15.0	12.0
08/12/2008	4,648		12.10	110	60	35	15	23	27	4.0	2	120	400			281,320	27.44			0.1	19.9	8.8	58.0	20.0	74.4/25.6	155.0	95.0	74.0	49.0	14.0	12.0
08/12/2008	4,648		12.10	110	59	35	15	24	29	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	153.0	94.0	73.0	52.0	15.0	12.0
08/13/2008	4,648		12.10	110	55	35	15	22	26	4.0	2	120	400			281,320	27.44			0.2	19.9	8.8	58.0	20.0	74.4/25.6	145.0	90.0	69.0	45.0	14.0	11.0
08/13/2008	4,648		12.20	123	52	38	15	22	26	4.0	2	120	410			291,509	28.15	0.70		0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/14/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	407			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/14/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	410			291,509	28.15	0.70		0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/15/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	406			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/15/2008	4,648		12.20	125	52	38	15	22	26	4.0	2	120	412			291,289	28.81			0.2	19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/16/2008	4,648		12.20	125	52	39	15	21	25	4.0	2	120	407			291,509	28.15	0.70		0.1	19.8	7.9	58.0	20.0	74.4/25.6	143.0	91.0	69.0	44.0	14.0	11.0
08/16/2008	4,648		12.20	125	52	38	15	22	25	4.0	2	120	408			291,289	28.81				19.8	7.9	58.0	20.0	74.4/25.6	142.0	90.0	69.0	45.0	14.0	11.0
08/16/2008	4,648	38	12.30	134	55	35	14	25	29	4.0	2	120	305			262,458	27.44			0.2	19.9	7.6	56.0	22.0	71.8/28.2	145.0	90.0	68.0	40.0	13.0	11.0
08/17/2008	4,648		12.30	134	55	35	14	25	29	4.0	2	120	306			262,526	27.18	0.27		0.2	19.9	7.5	56.0	22.0	71.8/28.2	145.0	90.0	69.0	41.0	13.0	11.0
08/17/2008	4,648		12.10	135	58	34	10	19	20	5.0	2	120	250			231,487	27.18	0.27			18.0	5.4	54.0	26.0	67.5/32.5	150.0	92.0	67.0	40.0	11.0	8.0
08/18/2008	4,648		12.00	146	58	23	10	19	21	5.8	2	120	242			233,396	28.81				17.9	6.2	53.0	27.0	66.2/33.8	139.0	81.0	59.0	35.0	10.0	8.0
08/18/2008	4,648		11.90	163	63	23	10	18	20	6.0	2	120	175			220,854	28.81				15.9	3.0	53.0	29.0	64.6/35.4	149.0	86.0	62.0	36.0	10.0	7.0
08/19/2008	4,648		12.00	163	63	23	10	18	20	6.0	2	120	174			220,854	28.81				15.9	2.3	53.0	29.0	64.6/35.4	149.0	86.0	62.0	36.0	10.0	8.0
08/19/2008	4,648		12.10	159	66	23	10	22	25	6.0	2	120	180			226,952	28.81				15.9	1.4	54.0	28.0	65.9/34.1	155.0	89.0	64.0	38.0	10.0	7.0

Operator	**NEXUS ENERGY**
Well Name	**Longtom - 4**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Fluid Property Recap : NAP-Based Fluid (Baroid Titrations)

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 Deg C					Filtration			Elec. Stability	Excess Lime Content	Alk (Pom)	Water Phase Salinity	CaCl2	NaCl Sol	NaCl Insol	Sand	Retort Analysis					Rheometer Dial Readings					
					PV	lbs/100 ft2				HTHP	Cake	Temp									% by vol				NAP/Water Ratio	600	300	200	100	6	3
	m	Deg C	ppg	sec/qt	cP	YP	10S	10M	30M	ml/30 min	32nd in	Deg C	volt	ppb	ml	ppm	ppb	ppb	ppb	% by vol	Corr Solid	LGS	NAP	Water							
08/19/2008	4,648		11.55		94	112	13	24	29				31			169,124	35.67				11.5	0.1	36.0	50.0	41.9/58.1	300.0	206.0	140.0	82.0	13.0	9.0
08/20/2008	4,648		12.00	159	66	23	10	22	25	6.0	2	120	179			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	155.0	89.0	64.0	38.0	10.0	7.0
08/20/2008	4,648	40	12.00	120	60	23	10	22	25	6.0	2	120	218			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	143.0	83.0	60.0	37.0	10.0	7.0
08/21/2008	4,648	40	11.90	120	60	23	10	22	25	6.0	2	120	224			226,952	28.81				15.9	2.9	54.0	28.0	65.9/34.1	143.0	83.0	60.0	37.0	10.0	7.0
08/21/2008	4,648	40	11.90	122	57	29	10	22	25	6.0	2	120	236			226,952	28.81				15.9	2.9	54.0	28.0	65.9/34.1	143.0	86.0	61.0	39.0	11.0	8.0
08/22/2008	4,648		12.00	124	58	27	1	22	25	6.0	2	120	228			218,506	27.44				16.0	2.2	54.0	28.0	65.9/34.1	143.0	85.0	61.0	40.0	11.0	8.0
08/22/2008	4,648		12.00	128	58	27	10	22	25	6.0	2	120	230			226,952	28.81				15.9	2.1	54.0	28.0	65.9/34.1	143.0	85.0	61.0	40.0	11.0	8.0

Company	NEXUS ENERGY
Well Name	Longtom - 4
Contractor	Seadrill
Rig Name	West Triton
Unit System	Nexus Energy

Fluid Program Exception Report

Report No	Date	Time	Depth m	Property Name	Unit System	Actual Value	Exception	Program Min	Program Max
011	06/29/2008	10:00	755	Density	ppg	9.10	Low	12.00	12.20
013	07/01/2008	4:15	1,505	Density	ppg	12.10	High	9.50	12.00
013	07/01/2008	13:30	1,542	Density	ppg	12.10	High	9.50	12.00
013	07/01/2008	21:30	1,685	Density	ppg	12.10	High	9.50	12.00
019	07/07/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
019	07/07/2008	21:30	2,600	Density	ppg	12.20	High	9.50	12.00
019	07/07/2008	21:30	2,600	Electrical Stability	volt	629	High	300	600
020	07/08/2008	16:00	2,600	Density	ppg	12.20	High	9.50	12.00
020	07/08/2008	21:00	2,600	Density	ppg	12.20	High	9.50	12.00
020	07/08/2008	21:00	2,600	Electrical Stability	volt	657	High	300	600
020	07/08/2008	16:00	2,600	Electrical Stability	volt	700	High	300	600
020	07/08/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
021	07/09/2008	20:00	2,600	Density	ppg	12.10	High	9.50	12.00
021	07/09/2008	2:00	2,600	Density	ppg	12.20	High	9.50	12.00
021	07/09/2008	2:00	2,600	Electrical Stability	volt	684	High	300	600
021	07/09/2008	15:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	2:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
022	07/10/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
023	07/11/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
023	07/11/2008	22:00	2,600	Density	ppg	12.20	High	9.50	12.00
024	07/12/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
024	07/12/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
025	07/13/2008	12:00	2,600	Density	ppg	12.20	High	9.50	12.00
025	07/13/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
026	07/14/2008	15:00	2,600	Density	ppg	12.15	High	9.50	12.00
026	07/14/2008	22:00	2,600	Density	ppg	12.15	High	9.50	12.00
027	07/15/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
027	07/15/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00

Company	NEXUS ENERGY
Well Name	Longtom - 4
Contractor	Seadrill
Rig Name	West Triton
Unit System	Nexus Energy

Fluid Program Exception Report

Report No	Date	Time	Depth m	Property Name	Unit System	Actual Value	Exception	Program Min	Program Max
028	07/16/2008	11:00	2,600	Density	ppg	12.15	High	9.50	12.00
028	07/16/2008	22:00	2,600	Density	ppg	12.15	High	9.50	12.00
029	07/17/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
029	07/17/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00
030	07/18/2008	14:00	2,600	Density	ppg	12.10	High	9.50	12.00
030	07/18/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
031	07/19/2008	14:30	2,600	Density	ppg	12.10	High	9.50	12.00
031	07/19/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
032	07/20/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
032	07/20/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
033	07/21/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
033	07/21/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
034	07/22/2008	12:00	2,600	Density	ppg	12.10	High	9.50	12.00
034	07/22/2008	22:00	2,600	Density	ppg	12.10	High	9.50	12.00
035	07/23/2008	22:00	2,600	Density	ppg	12.20	High	9.50	12.00
035	07/23/2008	8:00	2,600	Density	ppg	12.20	High	9.50	12.00
036	07/24/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
036	07/24/2008	20:00	2,600	Density	ppg	12.20	High	9.50	12.00
037	07/25/2008	3:00	2,600	Density	ppg	12.20	High	9.50	12.00
037	07/25/2008	7:00	2,600	Density	ppg	12.20	High	9.50	12.00

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval		**01**		**From Date**	**001**	**Top of Interval**	**.0 m**
Max. Hole Size / Bit Size		**36.000 / 36.000 in**		**To Date**	**008**	**Bottom of Interval**	**755.0 m**
For Report	**# 001**	**On**	**06/19/2008**	**Operation at Depth**		**.0 m**	
Rig Activity				Rig on tow to location. Jacking @ preload air gap. Start preload. Release Pacific Valkyrie. Slip and cut drilling line 86ft. Draw works calibration, finish preload. Hold for 2 hrs 100%. Dump preload. Release Pacific Battler from Bow.			
Activity				Pre load			
Fluid Treatment				.			
For Report	**# 002**	**On**	**06/20/2008**	**Operation at Depth**		**96.0 m**	
Rig Activity				Dump pre-load. Jack up rig to 17ft air gap. Prepare rig for skidding. Skid cantilever out. Install gumbo hose. Cont. skidding in to drilling position. Install HP mud hoses. Pick up BHA. Make 30" running tool. Pick up and make up BHA & lay out stabilizer. Sea level @ 39.9m			
Activity				Pick up BHA			
Fluid Treatment				Build 1680 bbls of 35 ppb PBH. Took 860 bbls KCL /Polymer mud from the Battler. To be used as displacement fluid. Received and dumped +/- 100bbls dirty water from the boat, used for flushing boats tanks. Flocculated PHB with sea water (75/25 or 67/33 to required viscosity) and added 0.275 ppb lime, prior to pumping as sweeps.			
For Report	**# 003**	**On**	**06/21/2008**	**Operation at Depth**		**132.0 m**	
Rig Activity				Cont. RIH with 26" BHA to 97m. Drill ahead from 97m to 132m, pumping 75 bbl sweeps. Pump 200 bbl gel and displace hole with 280 bbl Inhibited mud @ TD. POOH to surface. Install 30" conductor handling tools. Pick up 30" conductor and wellhead and RIH. Set @ 128.86m. Wellhead stick up 1.93m. Rig up cement lines, pump cement slurry @ 15.8ppg. Wait on cement. Release 30" conductor running tool.			
Activity				Rig up and rig down			
Fluid Treatment				Made 160 bbls cement mix water, 8.25 ppb calcium chloride.			
For Report	**# 004**	**On**	**06/22/2008**	**Operation at Depth**		**374.0 m**	
Rig Activity				Cont. break out running tool. Lay out BHA. Pick up and make up 22" BHA. RIH to 95m and shallow test MWD tools. Attempt to stab in. No success. Launch ROV unit, guide to stab in well head @ 95.13m. Install master bushing. Cont. RIH with 22" BHA, tag cement @ 124.87m. Drill cement from 124.87m to 132.8m. Drilled 22" hole from 132.8m to 374m, pumping 50 bbl gel sweeps.			
Activity				Drilling			
Fluid Treatment				Cut back 35ppb PHB with sea water 7:3 and add 0.3ppb lime for viscosity prior to pumping as sweeps. Mixed 450 bbl Guar Gum, 630 bbl PHB today.			
For Report	**# 005**	**On**	**06/23/2008**	**Operation at Depth**		**749.0 m**	
Rig Activity				Cont. drilling 22" hole from 374m to 749m. Pumping 3 X 50 bbl sweeps per stand. Using guar gum sweeps in the middle of the stand.			
Activity				Drilling			
Fluid Treatment				Cut back 35ppb PHB with sea water 7:3 and add 0.1-0.3 ppb lime for viscosity prior to pumping as sweeps.			

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval		**01**			**From Date**	**001**	**Top of Interval**	**.0 m**
Max. Hole Size / Bit Size		**36.000 / 36.000**	**in**		**To Date**	**008**	**Bottom of Interval**	**755.0 m**
				Mixed 750 bbls Guar gum Mixed 920 bbl PHB mud.				
For Report	**# 006**	**On**	**06/24/2008**	**Operation at Depth**		**755.0 m**		
Rig Activity				Cont. drilling 22" hole from 749m to 755m. Pumped 150 bbl PHB sweep. Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer mud. POOH to 741m, 30k overpull. Work through tight spots with pumps. POOH to 402m. Service top drive. POOH and lay down BHA. Make up 18 3/4" wellhead. RIH to 90m, try to stab 16" casing in the wellhead. Launch ROV, stabb in well head. RIH to 145m. Bend bails latches on top drive. Rig them down for repair.				
Activity				Repair rig				
Fluid Treatment				Pumped 150 bbl PHB sweep @ TD Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer to completely displace hole.				
For Report	**# 007**	**On**	**06/25/2008**	**Operation at Depth**		**755.0 m**		
Rig Activity				Cont. repairs on top drive bail latches. RIH with 16" casing to 647m. Pick up 20 X 16" crossover and make up to 16" casing. Land off. RIH with 5 1/2" drill pipe from surface to 613m. Cont. to run 16" casing on 5 1/2" DP landing string. Land out well head @ 95.13m. Cement casing. Rig down cement lines. POOH 5 1/2" DP to surface.				
Activity				Run casing and cement				
Fluid Treatment				Dumped and cleaned pits. Hydro-tested same. Back load WBM chemicals to make room for SBM chemicals.				
For Report	**# 008**	**On**	**06/26/2008**	**Operation at Depth**		**755.0 m**		
Rig Activity				Hold JSA and lift H4 connector and set in C-plate. Make up and run 22" riser. Wait on weather.				
Activity				Wait on weather				

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval		**02**		**From Date**	**009**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size		**22.000 / 22.000 in**		**To Date**	**029**	**Bottom of Interval**	**2,600.0 m**
For Report	**# 009**	**On**	**06/27/2008**	**Operation at Depth**		**755.0 m**	
Rig Activity				Continue to wait on weather. Continue to run 22" riser. Nipple up BOP.			
Activity				Wait on weather			
Fluid Treatment				Received 1064bbl of base oil and SBM chemicals from Ocean Battler.			
For Report	**# 010**	**On**	**06/28/2008**	**Operation at Depth**		**755.0 m**	
Rig Activity				Continue to nipple up BOP and pressure test. Make up 14 3/4" BHA and RIH.			
Activity				Nipple up B.O.P.			
Fluid Treatment				Received 1692bbl of SBM ACCOLADE mud. 160bbl remaining on Ocean Valkyrie. Adjust oil/water ratio to 70/30 and treat to ensure properties within specifications. Weight SBM with Barite to 12.0ppg.			
For Report	**# 011**	**On**	**06/29/2008**	**Operation at Depth**		**755.0 m**	
Rig Activity				Continue to RIH. Tag cement at 736m, drill out cement and shoe track with seawater. Drill 3m new formation, circulate hole clean and conduct LOT. EMW 13.7ppg at 650psi. POOH and lay out 14 3/4" BHA. Make up 13 1/2" BHA and RIH.			
Activity				Tripping			
Fluid Treatment				Continue to adjust active mud properties and weight to 12.0ppg. Added 5 ppb Omyacarb 5 and 5 ppb Circal 60/16 to displacement volume. Drill out cement and shoe track with seawater and Guar Gum/PHB sweeps, returns overboard. Received 457bbl, 11.3ppg brine.			
For Report	**# 012**	**On**	**06/30/2008**	**Operation at Depth**		**1,448.0 m**	
Rig Activity				Continue to RIH. Hold PJSM and JSA for displacement to SBM. Displace lines and well to SBM. Drill 13 1/2" hole from 758m to 1448m. Vol% Oil on cuttings: 6.21%			
Activity				Drilling			
Fluid Treatment				Prepare 50bbl high vis spacer for displacement with Rheomod L. Pump 50bbl spacer and displace lines and well to ACCOLADE mud. Added Barite direct to active to maintain mud weight 12.0ppg after displacement. Screened up shakers to 255's and 280's. Barite being stripped out, mud weight dropping to 11.7 - 11-9 ppg. Screened down shakers to 215's to control mud weight at 12 ppg. Added LE Supermul to active to ensure barite oil wet. Downhole losses in Latrobe formation of 10-20bbl/hr. Treated by direct addition of Steelseal, Circal 60/16 and Omyacarb 5 to active. Prepare 400bbl SBM premix using Base Oil/Brine.			
For Report	**# 013**	**On**	**07/01/2008**	**Operation at Depth**		**1,720.0 m**	
Rig Activity				Continue to drill 13 1/2" hole from 1448m to 1720m with surveys.			
Activity				Drilling			
Fluid Treatment				Added Calcium Chloride to active to increase WPS. Continue to mix premix. Built 241 bbls premix for volume. Added 0.1ppb No sulf H2S scavenger.			

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

	Added 1 sx each of Circal 60/16, Omyacarb 5 and Steel Seal per stand. Added Barite to active as necessary to maintain mud weight and added LE Supermul to active to ensure Barite oil wet.
For Report # 014 On 07/02/2008	**Operation at Depth 2,031.0 m**
Rig Activity	Continue to drill 13 1/2" hole from 1720m to 1928m. Troubleshoot camera screen on cyberbase, circ and work string. Continue drilling 13 1/2" hole from 1928m to 2017m Troubleshoot top-drive problem. Continue to drill 13 1/2" hole from 2017m to 2031m. Circ hole clean, flow check and POOH wet 5 stands. Pump 30bbl slug and continue to POOH.
Activity	Drilling
Fluid Treatment	Weighted 235bbl of premix with Barite to 10.6ppg to allow addition to active without reduction in mud weight. Continue to add 1sx each Steel Seal, Circal 60/16 and Omyacarb 5 each stand and increased rate of addition to every 30 minutes as required. Prepared 285bbl premix with Base Oil/Brine for volume. Prepared HW slug for POOH. No dynamic losses prior to POOH. Upgraded shaker #4 to 145/215 mesh to aid solids control.
For Report # 015 On 07/03/2008	**Operation at Depth 2,047.0 m**
Rig Activity	Continue to POOH. Change bit and BHA. RIH and continue drilling 13 1/2" hole from 2031m to 2047m.
Activity	Tripping
Fluid Treatment	Continue to mix premix in pit 7 for volume. Base Oil Volumes: Rig: 270bbl Valkyrie: 635bbl Battler: 440bbl
For Report # 016 On 07/04/2008	**Operation at Depth 2,405.0 m**
Rig Activity	Continue drilling 13 1/2" hole from 2047m to 2346m with surveys. Stop drilling due to leak between standpipe manifold and mud hose. Replace hose. Continue drilling 13 1/2" hole from from 2346m to 2405m. Repair leak on standpipe 1. Attempt to POOH 4 stands - no go, 25k overpull and swabbing. Rig up side entry sub and hoses to circulate. Continue to repair leak on standpipe while circulating.
Activity	Drilling
Fluid Treatment	Weight 250bbl premix to 12.0ppg to allow addition to active without reduction in mud weight. Increase in LGS indicative of damaged screens. Immediately checked all screens and replaced damaged screens. 4x280 mesh, 2x215 mesh. Received: 75MT Barite. 460bbl Base Oil Oil cutiings average: 8.68%
For Report # 017 On 07/05/2008	**Operation at Depth 2,463.0 m**
Rig Activity	Continue to repair stand pipe. Continue drilling 13 1/2" hole from 2405m to 2434m. Circulate through cement hose and repair stand pipe manifold leak. Continue drilling 13 1/2" hole from 2434m to 2464m.

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**

Activity	Drilling
Fluid Treatment	Added Circal 60/16, Omyacarb 5 and Steel Seal to active while circulating during repairs to minimize seepage losses and maintain concentrations. Prepare further 420bbl premix for volume if required or to be used on next hole section. Recd chemicals on manifest WT-0068 OUT Base Oil volumes: Rig 626bbl Valkyrie 81bbl Battler 440bbl

For Report	**# 018**	**On**	**07/06/2008**	**Operation at Depth**	**2,600.0 m**

Rig Activity	Continue drill 13 1/2" hole from 2464m to 2600m TD. Circ hole clean. POOH 10 stds wet. Pump HW slug. Continue to POOH from 2316m to 2049m, tight spot @2215m, 20k overpull. Cont to POOH from 2049m to 1741m Worked tight spots at 1888m, 1781m - 1752m, 1752m - 1727m. Unable to wipe @1741m. Circ and work string from 1752m to 1727m. Attempt to POOH on elevators from 1727m to 1715m, 20-25k overpull. Backream from 1727m to 1604m. POOH from 1604m to 1574m. Make up TDS and circ bottoms up. RIH from 1547m to 1781m, hole good. Continue to POOH to surface. Break bit and rack back BHA.
Activity	Tripping
Fluid Treatment	Continue to mix premix in pit 5. Weighted 200bbl premix to 12.0ppg with Barite to build volume prior to POOH for logging. LGS increase due to degasser pumping sand trap 1 into the active system on connections. Prepare HW slug x2 in slug pit for POOH. Weighting remaining premix with Barite to 12.0ppg. Base Oil volumes: Rig 596bbl Valkyrie 81bbl Battler 452bbl

For Report	**# 019**	**On**	**07/07/2008**	**Operation at Depth**	**2,600.0 m**

Rig Activity	Rig up Schluberger and run wire-line logs as per program.
Activity	Wire Line logs
Fluid Treatment	Dressed shakers with all 255/280 mesh for next hole section, 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr. Received: Part delivery of manifest WT-0069 OUT 79MT Barite Base Oil volumes: Rig 261bbl Valkyrie 81bbl Battler 452bbl

For Report	**# 020**	**On**	**07/08/2008**	**Operation at Depth**	**2,600.0 m**

Rig Activity	Continue wireline logging. Rig down Schlumberger and make up BHA for wiper trip.
Activity	Wire Line logs

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval		**02**		**From Date**	**009**	**Top of Interval**	**755.0 m**
Max. Hole Size / Bit Size		**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0 m**
Fluid Treatment				Continue to mix unweighted premix in pit 7.			
For Report	**# 021**	**On**	**07/09/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Continue to make up BHA and RIH for wiper trip. Circ hole clean and POOH for wire-line log. Hole found to be in good condition with no evidence of Barite Sag.			
Activity				Tripping			
Fluid Treatment				Prepare HW slug for POOH on wiper trip. No evidence of Barite Sag monitored on bottoms up from wiper trip.			
For Report	**# 022**	**On**	**07/10/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Continue to POOH. Rig up Schlumberger and run wire-line log. Test BOP. Power Failure - troubleshoot same. Monitoring well on trip tank, static.			
Activity				Wire Line logs			
Fluid Treatment				Flushed standpipe and lines with water/Baraklean, returns to slops pit.			
For Report	**# 023**	**On**	**07/11/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Troubleshoot power failures with engines. Perform general maintenance and cleaning whilst mechanic works on fuel injections on engines.			
Activity				Repair rig			
Fluid Treatment				Prepare and clean slug pit for cement displacement.			
For Report	**# 024**	**On**	**07/12/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. monitor hole on trip tank whilst waiting on rig engines. Jetting BOP retrieve wear bushing, cont. jetting wellhead. Make up cement head. Make up 10 3/4" casing running tool. Held JSA for rigging up 10 3/4" casing.			
Activity				Run casing and cement			
Fluid Treatment				Prepare and clean slug pit for cement displacement.			
For Report	**# 025**	**On**	**07/13/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. rig up 10 3/4" casing equipment. Run casing into hole to 2328m as per casing tally, filling up each joint with mud.			
Activity				Run casing and cement			
For Report	**# 026**	**On**	**07/14/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. run 10 3/4" casing to 2498m. Circulate 150% casing volume at 57 spm. Held pjsm for cement job as per programme. Pumped 5 bbl water, followed by 50 bbl tuned spacer @ 12.5ppg. Observed pressure spike of 2700psi. Assess situation, drop ball, pump 3.5bbl in attempt to launch bottom plug. No pressure increase. Circulate @ 71spm, bumped plug. Release casing handling equipment. Make up 9 1/2" BHA, RIH to 358m.			
Activity				Tripping			
Fluid Treatment				Pumped tuned spacer into active system.			
For Report	**# 027**	**On**	**07/15/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. RIH from 358m to 2550m filling pipe every 20 stds. Break circulation at 2550m and establish parameters. Tap plug @ 2566m. Drill out top, bottom plugs and float.			

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**02**		**From Date**	**009**	**Top of Interval**	**755.0**	**m**
Max. Hole Size / Bit Size	**22.000 / 22.000**	**in**	**To Date**	**029**	**Bottom of Interval**	**2,600.0**	**m**
	Work string through, clean out shoe track to top of shoe, drill out 10 3/4" casing shoe from 2590m and tag bottom @ 2600m. Circulate hole clean. Flow check, POOH. Make up cementing equipment. RIH with 2 7/8" tail pipe on 5 1/2" DP, RIH to 769m.						
Activity	Run casing and cement						
Fluid Treatment	Made and pumped 14.5 ppg slug for tripping out of hole.						
For Report	**# 028**	**On**	**07/16/2008**	**Operation at Depth**	**2,600.0 m**		
Rig Activity	Cont. RIH from 769m to 2350m. Remove diverter packer inserts. Make up wear bushing retrival tool, retreive same. Make up RTTS packer, RIH and set @ 140m. Circ. bottom up @ 2490m. Unseat RTTS, pick up cementing equipment. Pump 200 bbl 13.5ppg cement. Displaced cement with SBM. Monitor hole whist waiting on cement. Attempt to bleed off pressure below TIW, unable to open valve. Attempt below TIW with pressure bled, no success. Closed annular, pumped 350 psi @ backside. Unseat RTTS with 60k overpull.						
Activity	Tripping						
Fluid Treatment	Made water based Hi Vis spacer for riser displacement						
For Report	**# 029**	**On**	**07/17/2008**	**Operation at Depth**	**2,600.0 m**		
Rig Activity	Perform 10min flow check & TOOH 149m with RTTS, L/O some tail pipe @2350m. Cont. TOOH from 2350m to 917m, pumped 30bbl slug @ 1422m. M/U assay running tool, RIH & set assy @95.19m. Release Cameron wellhead running tool. TIH with RTTS with storm valve to 155m. Set RTTS, pumped 50 bbl spacer, displaced hole from 150m to surface with SW. Nipple down BOP.						
Activity	Nipple down B.O.P.						
Fluid Treatment	NOTE: Actual Volume is 150 bbl more due to displacement and Volumetric adjustments to balance volumes.						

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval		**03**		**From Date**	**030**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size		**13.500 / 13.500 in**		**To Date**	**042**	**Bottom of Interval**	**2,987.0 m**
For Report	**# 030**	**On**	**07/18/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Removed BOP work platform, set under cantilever. Make up clutch type running tool. Remove CTU. Layout 22" riser. Skid Rig approx. 25'. Lowered H4 connector to main deck.			
Activity				Wellhead Operations			
For Report	**# 031**	**On**	**07/19/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Skid out cantilever. Remove tension deck stairs & raise, set back tension deck. Skid cantilever in line with subsea tree. Pick up subsea tree, weight 142k. Skid the rig to 25', lowered subsea tree below the hull. Skid the transverse to well center. Skid rig forward to reach the string to clamp umbilical cord. Lowered tree to 90m on HWDP. Skid rig to well center. ROV not functioning, troubleshoot. Jumped ROV into water, removed debris cover. Skid the rig, position tree over the wellbore.			
Activity				Installing Subsea Tree			
For Report	**# 032**	**On**	**07/20/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Lowered tree onto wellhead. Lock SST D&W hydraulic connector. Wellhead take 50k overpull. Cameron pressure test vx gasket 5000psi. Skid rig and pick up lower stress joints. Fold tension deck down. Make up, torque and run 22" riser with umbilical strapped.			
Activity				Run 22" Riser			
For Report	**# 033**	**On**	**07/21/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. run 22" riser. Change out handling equipment. Land out riser on to tree. Set down and lock with 90k overpull. Fill riser with seawater with fluoresent dye. Lower CTU into position. Suspend operations due to rough weather. Wait on weather, wind speed 50-55 knots.			
Activity				Wait on Weather			
Fluid Treatment				Received 368 bbl of ACCOLADE base oil from boat. Note: Water addition to Accolade is from emptying Tasman Oil tools Mud-Vacs, Accolade charged is a balance of figures.			
For Report	**# 034**	**On**	**07/22/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Wait on weather, wind speeds 33-39 knots, sea state 3.5m. Wind & Sea acceptable, call in stand by boat. Install CTU. Install clexton clamp, torque same tensioned CTU 72 bar. Release clutch type running tool. Nipple up 18 5/8" BOP. Test BOP connection against shear rams. Install overshot & diverter packer. Nipple choke line.			
Activity				Nipple up B.O.P.			
For Report	**# 035**	**On**	**07/23/2008**	**Operation at Depth**		**2,600.0 m**	
Rig Activity				Cont. hook up choke line, change saver sub. Attempt to remove dolly roller, no success. Slip on 90ft of drill line. Remove pipe handler, lowered dolly. Replace rollers and bearings. Slip & cut 90ft drilling line. Calibrate travelling block settings. Make up RTTS retrieving tool to retrieve RTTS packer and cement string.			
Activity				Tripping			
Fluid Treatment				Base Oil Rig 37m3		Brine Rig -	

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Battler 116m3 Battler - Valkyrie 13m3 Valkyrie 50m3
For Report # 036 On 07/24/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Pressure test BOP. Change wash-pipe. Make up 9 1/2" BHA and RIH to 153m. Displace water from hole with SBM. Continue to RIH.
Activity	Tripping
Fluid Treatment	RIH to 153m and displace water from hole with SBM. Base Oil: Brine: Rig 314bbl Rig 181bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie 314bbl
For Report # 037 On 07/25/2008	**Operation at Depth 2,819.0 m**
Rig Activity	Continue to RIH. Tag cement at 2551m. Drill out cement and shoe track. Drill 3m new hole and conduct FIT. Drill 9 1/2" hole to 2818m at time of report. Base Oil: Brine: Rig 308bbl Rig 181bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie 314bbl
Activity	Drilling
Fluid Treatment	Initial mud weights while drilling cement 11.4ppg to 13.2ppg, due to barite sag from 10 days no circulating. Bled in 8.7ppg premix and dusted in barite to even mud weight 11.9+ppg for FIT. Added 0.7ppb TauMod to active to maintain rheology. Fined Up screens to 280 mesh, running 3 shakers only. Centrifuge shut down at 18.00 hours due to cuttings discharge chute blockage. Offlined for 5 hours while unblocking/cleaning.
For Report # 038 On 07/26/2008	**Operation at Depth 2,841.0 m**
Rig Activity	Continue drilling 9 1/2" hole from 2818m to 2841m. Circulate hole clean. POOH pumping and logging while tripping. Lay out BHA. Make up 9 1/2" coring BHA and RIH.
Activity	Tripping
Fluid Treatment	Prepare HW slug for POOH. Recieved approx. 289bbl brine from Ocean Valkyrie. Base Oil: Brine: Rig 303bbl Rig 470bbl Battler 729bbl Battler 748bbl Valkyrie - Valkyrie -
For Report # 039 On 07/27/2008	**Operation at Depth 2,896.0 m**
Rig Activity	Continue to RIH. Cut core from 2841m to 2895m. POOH and lay out coring assembly. Make up 9 1/2" BHA.

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Base Oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Checked and replaced damaged screens. New screens used 4 x 280 mesh. Discarded 2x280 mesh screens. Dresssed shaker #1 with 255mesh, for drilling next interval. Intended to run centrifuge while coring, in barite recovery mode, to reduce LGS, overboard discharge line blocked after 20 minutes operation resulting in insufficient operation to reduce LGS. Added to the active, 0.1ppb Rheomod-L to maintain rheology and 0.2 ppb LE Supermul to improve ES.
For Report # 040 On 07/28/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to make up 9 1/2" BHA and RIH. Was down and log from 2620m to 2637m. RIH from 2637m to 2841m. Ream cored section from 2841m to 2896m. Continue drilling 9 1/2" hole from 2896m to 2987m, survey every connection. Circ hole clean. Flow check and POOH. Base oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Added 1ppb Le Supermul to premix pits 1 and 2. Added 1.2 ppb Le Supermul, 0.3ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties. Dusted in Barite to active to maintain mud weight 12.0ppg while drilling rat hole. Prepared HW slug for POOH. Run centrifuge in barite recovery mode to reduce LGS.
For Report # 041 On 07/29/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to POOH for wire-line logging. Rig up Shlumberger and run log #1.
Activity	Wire Line logs
Fluid Treatment	Added premix weighted to 12.0ppg to maintain volume. Base Oil: Brine: Rig 303bbl 470bbl Battler 729bbl 748bbl Valkyrie - -
For Report # 042 On 07/30/2008	**Operation at Depth 2,987.0 m**
Rig Activity	Continue to run log #1. Lay out tools. Make up tools and run log #2. Lay out tools and rig down Shlumberger. Make up cement stinger and RIH.
Activity	Tripping
Fluid Treatment	Built additional premix using 70 bbls from slops pit. Cleaned slug pit and mixed cementers tuned spacer. Received 754bbl Base Oil and 716bbl Brine from Ocean Battler.

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**03**		**From Date**	**030**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**13.500 / 13.500**	**in**	**To Date**	**042**	**Bottom of Interval**	**2,987.0**	**m**

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

For Report # 043 On 07/31/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to RIH with cement stinger to 253m. Power failure due to loss of engine. Continue to RIH from 253m to 785m. Loss of engine, power failure. Continue to RIH from 785m to 2591m. Unable to continue RIH with 2 engines in open hole. Work on engines. Continue to RIH from 2591m to 2858m. Pump cement plugs as per programmed. POOH from 2858m to 2681m. Circ hole clean. Continue to POOH.
Activity	Tripping
Fluid Treatment	N.B. Mud check #2 for slops pit (Pit #3), not indicative of active mud properties. Prepare HW slug with Barite for POOH. Rec'd LE Supermul, Tau Mod, Baraklean and Calcium Chloride from Ocean Battler. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 044 On 08/01/2008	**Operation at Depth 2,600.0 m**
Rig Activity	Continue to POOH and lay out 2 7/8" cement stinger. Make up 9 1/2" BHA and RIH to 214m Shallow test MWD tools. Continue RIH from 214m to 293m picking up drillpipe from deck. Change burst hose on iron roughneck. Continue to RIH picking up drill pipe from 293m to 1246m. Rig service. Install oil cooler fan and motor to top drive. Commence RIH with stands from 1246m to 1452m. Wait on weather.
Activity	Wait on weather
Fluid Treatment	Prepare chemicals and check shakers for next hole section. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 045 On 08/02/2008	**Operation at Depth 2,719.0 m**
Rig Activity	Continue to wait on weather. Continue to RIH. Tag kick off plug at 2690m. Clean out cement from 2690m to 2693m. Drill out cement from 2693m to 2696m, ream several times to cut ledge to sidetrack. Time drill from 2696m to 2719m.
Activity	Drilling
Fluid Treatment	Added Barite to active as required to maintain mud weight 12.0ppg. Added 1.6ppb LE Supermul, 0.4ppb Tau Mod and 0.3ppb Adadpta to active to maintain mud properties. Adding premix at 10.0ppg to maintain volume and mud weight. Checked shaker screens regularly and replaced damaged screens as required. Base Oil: Brine: Rig 1197bbl 1186bbl Battler - - Valkyrie - -
For Report # 046 On 08/03/2008	**Operation at Depth 3,008.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 2719m to 3008m as per directional drillers instrauctions. ACCOLADE Mud shown as returned (435bbls) is 'slops' (O/W Ratio of approx 35/65) returned to the Valkyre. Run centrifuges in Barite recovery mode to reduce LGS. Base Oil: Brine:

Operations Log Recap

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Rig 1197bbl 1186bbl Battler - - Valkyrie - -
Activity	Drilling
Fluid Treatment	Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (4x280 mesh new screens used). Added Barite as required to maintain mud weight 12.0ppg. Fluid Volume Notes: Brine shown as returned (1186bbls) has been placed on the inventory as per request. Brine shown on inventory is in the Rig Brine Storage Tank (13P). Base Oil shown on inventory is in the Rig Base Oil Storage Tank (13S). Base Oil shown in the "Fluid Types" section of the report (bottom right - second box in) is in the Mud Pits (Pit 4).
For Report # 047 On 08/04/2008	**Operation at Depth 3,259.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 3008m to 3259m as per directional drillers instructions. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - - Valkyrie - -
Activity	Drilling
Fluid Treatment	Check shaker screens regularly and replace damaged screens as required (5x 280 mesh new screens used). Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results. Weighted premix with Barite to 12.0ppg to enable addition without reduction in mud weight. Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Added 0.3ppb Tau Mod to active to maintain rheology.
For Report # 048 On 08/05/2008	**Operation at Depth 3,577.0 m**
Rig Activity	Continue to drill 9 1/2" hole from 3259m to 3525m as per directional drillers instructions. Problem with MWD tool. Break out topdrive, rack back stand, reciprocate string and work. Cont. drill ahead to 3577m. Circ. bottoms up and ream from 3577mto 3525m. Commence POOH as per K&M instructions from 3525m to 3149m. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - 740bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Run centrifuges in Barite recovery mode and add premix to active to reduce LGS. Checked shaker screens regularly and replaced any damaged screens immediately. Will begin bleeding recovered mud (Slops) back into mud to restore Oil Water Ratio to 70/30.
For Report # 049 On 08/06/2008	**Operation at Depth 3,577.0 m**
Rig Activity	Cont. POOH as per K&M instructions from 3149m to surface. Change out BHA. RIH with 9 1/2" BHA to 273m. Shallow test MWD tools as per DD instuctions. Commence slip and cut. Service top drive. Cont. RIH from 273m to 2577m. Base Oil: Brine: Rig 1192bbl 1186bbl Battler - 740bbl

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Valkyrie - -
Activity	Tripping

For Report	**# 050**	**On**	**08/07/2008**	**Operation at Depth**	**3,794.0 m**

Rig Activity	Change out saver sub. Rig service. Cont. RIH from 2577m to 3136m. Working through tight spots, wash and ream from 3136m to 3289m. Cont. RIH from 3289m to 3555m. Wash down to bottom @ 3557m. Commence drilling 9 1/2" hole from 3577m to 3791m as per DD instructions. Base Oil: Brine: Rig 1192bbl 1136bbl Battler - 740bbl Valkyrie - -
Activity	Drilling
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 14bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results. Built 350 bbl of premix using 80 bbls of slops to reduce OWR in active. 3bbl of mud was lost over the shakers during circulation.

For Report	**# 051**	**On**	**08/08/2008**	**Operation at Depth**	**4,220.0 m**

Rig Activity	Cont. drill 9 1/2" hole from 3791m to 4220m as per DD instructions. Base Oil: Brine: Rig 1192bbl 1136bbl Battler - 740bbl Valkyrie - -
Activity	Drilling
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

For Report	**# 052**	**On**	**08/09/2008**	**Operation at Depth**	**4,582.0 m**

Rig Activity	Cont. drill 9 1/2" hole from 4220m to 4558m as per DD instructions. Washpipe leaking. POOH 5 stds from 4558m to 4411m. Pick up XTSS DP. RIH and back ream tight spot at 4412m. Pick up 10 joints XTSS DP and 2 joints of XT57. Cont. to drill from 4558m to 4582m. Base Oil: Brine: Rig 237bbl 1136bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Drilling
Fluid Treatment	Added 0.5ppb LE Supermul and 0.2ppb Adadpta to active to maintain mud properties. Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	734 bbls (117m3) Base Oil returned to Pacific Valkyrie.
For Report # 053 On 08/10/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. drill 9 1/2" hole from 4582m to 4648m as per DD instructions. Reached TD. Circ. 5 times bottoms up and ream from 4648m to 4354m. Washpipe leaking, change out washpipe. Cont. back ream from 4354m to 3823m. Base Oil: Brine: Rig 237bbl 1096bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Backreaming
Fluid Treatment	Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.
For Report # 054 On 08/11/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. back ream from 3823m to 3469m. Observed backflow, circulate and condition mud. Cont. backream 3469m to 2607m. Circ. 2X bottoms up. Perform flow check, static. POOH wet from 2607m to 2163m. Pumped 30 bbl slug, chased with 10 bbl mud. Cont. POOH dry from 2163m to 214m. Break out and lay out BHA. Rig up weatherford equipment, make up cement head. Base Oil: Brine: Rig 113bbl 1096bbl Battler - 740bbl Valkyrie 734bbl -
Activity	Rig up and rig down
Fluid Treatment	Mixed 270bbl reserve mud to fill hole as contingency.
For Report # 055 On 08/12/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. rig up cement head stand as per BOT instructions. Change out bails, rig up 7" handling equipment and weatherford equipment. Commence picking up and RIH 7" liner from surface to 2017m. Filling liner every 5 joints. Base Oil: Brine: Rig 113bbl 1200bbl Battler - 636bbl Valkyrie 734bbl -
Activity	Run casing and cement
Fluid Treatment	Returned 433bbls of SBM to pacific Valkyrie. Mixed 6ppb SAPP solution to clean mud pits. Received completion fluid chemicals off boat. NOTE: 8 Drums of RADIAGREEN EME SALT & 80 pails of LIQUI-VIS EP is not shown in inventory due to lack of pricing infomation.
For Report # 056 On 08/13/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Cont. run 7" liner from 2017m to 2047m, filling liner every 5 joints. Rig down 500T bails and 7" handling gear and install 5 1/2" handling gear. Make up 7" setting sleeve running tool and break circ. Continue to RIH with 7" liner on 5 1/2" drillpipe to 4648m

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Pick up to 4647m. Rig up for cement job. Pump 60bbl Base Oil spacer and 60bbl tuned spacer Attempt to pump cement pressure up to 2500psi. Bleed down and await instruction. Circ at 32spm/3500psi, stop pumping partial pack off. Manage to circ, spacer returns at 5000stks indicating circulating from top of liner. Rig down cement line and head. POOH from 4648m to 4584m.
Activity	Tripping
Fluid Treatment	Clean mud pits #4, #8 and #7. Note on rheology of Liqui-Vis EP sweep: FV 120sec/qt, 140/100/85/60/13/8 gels 8/14. Prepare 393bbl 11.0ppg brine with 1.5% Radiagreen EME and 1gal/bbl Liqui-vis EP in pit #8. Prepared 383bbl 11.0ppg brine with 5% Baraklean NS in pit #4. Prepared 70bbl brine with 1.8ppb N-Vis in slug pit. Rec'd approx. 554bbl 11.3ppg Brine from Ocean Battler. Circulate Base Oil and Tuned spacers out of hole and direct spacer returns to slops pit (pit #2). Transferred slug pit to pit #8 to allow preparation of HW slug for POOH.
For Report # 057 On 08/14/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Sand Traps - 150bbl SBM Trip Tank - 32bbl SBM Continue to POOH from 4584m to surface. Break out 7" liner running tool. Test BOP. Make up RTTS and RIH. Base Oil: Brine: Rig 50bbl 1056bbl Battler - 566bbl Valkyrie 742bbl 748bbl
Activity	Tripping
Fluid Treatment	Cleaned pit #7. Transferred dead volume from pit #6 and slug pit to active tank with wilden pump for volume. Slops pit (pit #2) O/W ratio 25/75. Slops pit now set as separate fluid set. Current Mud Pit Volumes: Pit #1 - 50bbl Base Oil Pit #2 - 262bbl "Slops" Pit #3 - 354bbl SAPP/water Pit #4 - 285bbl 11.0ppg Brine/Baraklean Pit #5 - 152bbl SBM (Active Pit) Pit #6 - 12bbl SBM Pit #7 - Clean Pit #8 - 450bbl 11.0ppg Brine/Radiagreen/Liqui-vis
For Report # 058 On 08/15/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to RIH with RTTS to 2735m. Set Packer and attempt to circulate. No returns, max pressure 5000psi. Unseat packer and POOH. Pick up 3 3/8" TCP gun assembly and make up same. Pick up 3 1/2" drill pipe from deck and RIH to 498m.
Activity	Tripping
Fluid Treatment	Transfer dead volume from pit #6 to active and clean pit #6. Transfer SBM from slug pit to pit #5 and clean slug pit. Transfer 382bbl 11.3ppg brine from bulk storage tank to pit #7 and 378bbl 11.3ppg Brine to pit #6 to allow unloading of Brine from Valkyrie to bulk brine tank. Base Oil: Brine: Rig 50bbl 1056bbl

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

	Battler - 566bbl Valkyrie 742bbl 748bbl
For Report # 059 On 08/16/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to RIH with TCP gun, picking up 3 1/2" drill pipe from deck to 2003m. Change bails and elevators and RIH with 5 1/2" drill pipe to 2241m. Observed back-flow. Make up TDS and circ mud. Continue to RIH from 2241m to 4560m. Set RTTS packer. Test cement line. Fire TCP gun with cement unit. Establish returns with cement unit. Circulate liner/open hole volume with mud pumps 5bpm/1500psi. No losses.
Activity	Tripping
Fluid Treatment	Prepare 60bbl cementers tuned spacer in slug pit weighted to 13.0ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg - 11.8ppg. Added Barite to maintain mud weight and circulate until mud weight consistent. Received approx. 692bbl of 11.3ppg Brine from Valkyrie. Base Oil: Brine: Rig 50bbl 992bbl Battler - 566bbl Valkyrie 742bbl -
For Report # 060 On 08/17/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to circ and condition mud until weight even. POOH from 4560m to 4189m Set RTTS and rig up cement line. Hold JSA and cement liner as programmed. Break circ. Rack back cement stand. Continue to circ bottoms up. Continue to POOH to 1592m. Service break RTTS. Continue to POOH to top of guns. Base Oil: Brine: Rig 50bbl 992bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Continue to add Barite to active system while circulating to ensure mud weight 12.2ppg out and 12.3ppg in. Prepare 30bbl pumpable 13.0ppg Slug for cement job. Clean pit #3. Added LE Supermul to active pit to maintain ES. Received 35 MT Barite from Valkyrie. Back-loaded 705bbl slops (Slops pit and SAPP waste) to Valkyrie in port tank #2 and starboard tank #2 on vessel. Backloaded 2x Bulk bags of KCl Tech Grade.
For Report # 061 On 08/18/2008	**Operation at Depth 4,648.0 m**
Rig Activity	POOH TCP guns and lay out same. Rig up Schlumberger and run TCP guns on wire-line to 2675m. Fire gun and POOH. Lay down tools and rig down Schlumberger. Make up 7" cement retainer BHA. RIH to 2649m, lay out top single and pick up cement stand. Circulate at 500gpm. Set cement retainer. Release stinger and confirm clear. Sting back into retainer and slowly establish circ. Test cement line and pump cement as per program. Displace cement with SBM. Rig down cement line, pump HW slug and POOH to 1938m laying out pipe.
Activity	Tripping
Fluid Treatment	Clean slug pit in preparation for mixing tuned spacer. Prepare 13.5ppg slug in slug pit. Increase in water percentage due to contamination from water/spacers used in previous cement jobs. Cementing through the perforations in the top of the 7" liner, 274bbl of Accolade mud was contaminated with the cement spacer train and was disposed to slops pit.

Interval		**04**		**From Date**	**043**	**Top of Interval**	**2,600.0 m**
Max. Hole Size / Bit Size		**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0 m**

	Accolade volume transferred to slops pit was contaminated with 35bbl water, 60bbl tuned spacer, 10bbl water, 5-10bbl cement and a further 10bbl water from cement job.
For Report # 062 On 08/19/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH laying out singles. Carry out injectivity test on cement plug at top of liner. Continue to POOH to surface. Made up 9 1/2" bit, RIH and cleaned out the 10 3/4" csg to the top of 7" liner. Circ bottoms up, pump slug and POOH. Base Oil: Brine: Rig - 992bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Back-loaded 465 bbl of 11.6 ppg contaminated "slops" SBM mud with cement spacer and water from the slops pit to Vessel Battler in Port tank #2 and Stbd tank #2, to be offloaded for conditioning. SEE MUD CHECK #3. Backloaded 8 drums of OMC-42 to Vessel Battler. Added 50bbl Base Oil and 10bbl Slops to active and treated with LE Supermul and Tau Mod to maintain properties and weighted to 12.0ppg with Barite. Transferred volume from soilds control tanks to active. Rec'd 160x Liqui-vis and 9x Oxygon as per manifest WT-0079 OUT. 3rd Mud Check is slops backloaded to Battler. Not indicative of mud properties.
For Report # 063 On 08/20/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Backloaded surplus SBM chemicals to Valkyrie. Continue to POOH. Make up 6 " bit, motor and BHA and RIH with 3 1/2" drill pipe to 2535m. Slip and cut drill line. Continue to RIH from 2535m to 2641m. Drill out cement retainer to 2669m at time of report. Base Oil: Brine: Rig - 802bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Drill out
Fluid Treatment	Backloaded onto the Vessel Battler, 125 bbls of slops (waste mud) into Port tank #1 and 200 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #1. Topped up 11.3ppg Brine volume in pits #3 and #7. cut back with water to 11.0ppg to have 450bbl in pit #7 and 475bbl in pit #3. Added 1 drum of Radiagreen EME into pit #8 to maintain 1.5% v/v concentration. Also added 50 bbls of 11.0 ppg brine and 110 gal of BARAKLEAN into pit #4 to increase the volume required for displacement. Added LE Supermul, Tau Mod and Calcium Chloride to active while drilling cement retainer to maintain properties.
For Report # 064 On 08/21/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to drill out retainer. Pump HW slug and POOH. Lay out motor, change bit and BHA and RIH. Drill out retainer and circ bottoms up. Pump HW slug and POOH. Base Oil: Brine: Rig - 802bbl Battler - 566bbl Valkyrie 742bbl -
Activity	Tripping

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

Fluid Treatment	Prepare HW slug for POOH. Added Rheomod-L to active when circulating to minimize Barite slump when Accolade mud backloaded on boats. Prepare further HW slug for POOH.
For Report # 065 On 08/22/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH to 117m. Check 3 1/2" drill pipe. RIH 2777m. Take continuous weight 5-9K. Work and push down cement retainer to 4490m. Circulate bottoms up. Commence displacement program. Base Oil: Brine: Rig - 732bbl Battler - 471bbl Valkyrie - 717bbl
Activity	Cond. mud & Circ.
Fluid Treatment	Backloaded 2 drums of RHEOMOD L and 12 sx of TAU-MOD to Vessel Valkyrie. Added Tau Mod to active to prevent Barite slump when back-loading the SBM mud to the boat. Added 70 bbl of 11.3 ppg brine, 7 bbls of drill water and BARAKLEAN into pit #4 to increase the volume required to clean the lines. Displacement of well to brine on following daily report.
For Report # 066 On 08/23/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to displace well to brine and flush surface lines. POOH and layout 3 1/2" drill pipe. Break out BHA and layout same. Make up RTTS BHA and RIH to 200m. Rec'd 750bbl 11.3ppg brine from Valkyrie. Environmental Incident: When backloading SBM to the Ocean Valkyrie the transfer hose to the boat split, discharging 21bbl of SBM to the ocean. Base Oil: Brine: Rig - 1093bbl Battler - 471bbl Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Displace well to brine. Pumped 75bbl 11.0ppg Radiagreen Hi-vis, 250bbl 11.0ppg Baraklean brine, 800bbl 11.0ppg brine, 325bbl 11.0ppg Radiagreen Hi-vis brine and displaced string with 175bbl 11.3ppg brine. All mud pumps flushed while pumping Baraklean brine. Flushed all surface lines when Baraklean brine returned to surface. 289bbl of dirty brine was diverted to the slops pit. 50bbl water/SBM was dumped to slops pit from rig floor scalper tank. When brine returns clean at shakers, 457bbl clean brine returns dumped overboard. Backloaded onto the Vessel Valkyrie, 809 bbls of 12.0 ppg good ACCOLADE SBM into Port and Stbd tank #3.
For Report # 067 On 08/24/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Set RTTS and pressure test wellhead seals. POOH laying out HW drill pipe and drill collars. Rig up and make up TCP guns and RIH. Base Oil: Brine: Rig - 1093bbl Battler - 471bbl Valkyrie 742bbl -

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**04**		**From Date**	**043**	**Top of Interval**	**2,600.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**067**	**Bottom of Interval**	**4,648.0**	**m**

Activity	Make up TCP Guns
Fluid Treatment	Clean flowline, shakers and shaker troughs. Backloaded onto the Vessel Battler, 470 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #2 and Stbd tank #1and also backloaded into Port tank #1 230 bbls of Slops (waste mud). Cleaning mixing lines and mud pits. Brine volume dumped due to dead volume in pits when re-cleaning after initial displacement.

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

For Report # 068 On 08/25/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up and RIH TCP guns. RIH with 5 1/2" DP to 4414m. Rig up Schlumberger wire-line and run correlation log. Preesure test cement line, drop ball then pressure up to 2750psi with cement unit. Good indication of guns fire. Well takes 44bbl of brine. Losses 18bbl/hr. Circ bottoms up through choke. Flow check (losses 3bbl/hr). POOH. Base Oil: Brine: Rig - 762bbl Battler - - Valkyrie 742bbl -
Activity	Tripping
Fluid Treatment	Function test brine filtration system with seawater. Continue to clean mud pits. Filtered 900bbl 11.3ppg brine and cut back with water to 11.0ppg. Received 774 bbls of 11.3 ppg Brine from Vessel Battler into rig main brine storage tank. Mixed 260 bbls of filtered brine HEC pill in pit #7. Volume of unfiltered 11.3 ppg brine in Main rig tank 762 bbls. Volume of Filtered brine 11.0 ppg 484 bbls Pit #3. Volume of 11.0 ppg unfiltered brine in pit #6, 223 bbls 69 bbls of 11.0 ppg brine in slug pit for LCM pill.
For Report # 069 On 08/26/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH. POOH and lay out TCP guns. Make up 10 3/4" scraper BHA and RIH. Base Oil: Brine: Rig - 57bbl Battler - - Valkyrie 742bbl 717bbl
Activity	Tripping
Fluid Treatment	Filtered 450bbl of 11.3ppg brine into pit #4 and cut back with water to 11.0ppg to 495bbl total. Transferred filtered brine from pit #3 to pit #8 and added 57bbl filtered 11.3ppg brine and cut back with water to 11.0ppg to 485bbl total. Filtered remaining 197bbl of 11.3ppg brine from rig storage tank into pit #3 and cut back with water to 11.0ppg to 302bbl total volume. Transferred slops volume from pit #1 to pit #2. Flushed pit #1 with seawater and Baraklean.
For Report # 070 On 08/27/2008	**Operation at Depth 4,648.0 m**
Rig Activity	inhibited brine. Displacement to inhibited brine: Pumped 222bbl of inhibited 11.0ppg brine. Prepared further 447bbl of inhibited 11.0ppg brine and pumped 415bbl. Take returns of filtered brine from second displacement to pit #5 and #3. Filter further 160bbl brine from pit #3 to pit #4. Rec'd 748bbl brine from Ocean Valkyrie. Continue to RIH with scraper BHA. Brush through BOP and riser. Scrape AHC setting depth from 2526m to 2564m. Displace well to filtered brine. Monitor losses, losses at 1.7bbl/hr. POOH to 2273m. Displace well with inhibited brine. Continue to POOH laying out drillpipe.
Activity	Tripping
Fluid Treatment	Prepared 70bbl 11.0ppg brine using sacks in slug pit for extra unfiltered brine volume and used to mix 75bbl Baraklean brine pill for displacement. Added 46bbl of 11.0ppg filtered brine from pit #3 to active pit #6 to allow sufficient volume for circulating. Initial displacement: Pumped 75bbl Baraklean pill. Prepared 75bbl, 3% Flo-clean pill in slug pit and pumped. Pumped 75bbl HEC pill from pit #7 then displaced with 917bbl

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

	of filtered 11.0ppg brine. Prepared 239bbl inhibited brine in pit #8. Attempt to filter contaminated brine, unable to filter. Dumped unfiltered contaminated brine from displacement of well to filtered brine and then to
For Report # 071 On 08/28/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to POOH laying out drill pipe. Pumped 30bbl unfiltered brine at 1073m (backflow). Continue to POOH laying out DP. Lay out clean out BHA. Make up BHA, well patroller, ball catcher, circ valve and bore protector retrieval tool. RIH to 92.38m and jet at 10bpm. Retrieve bore protector. Pick up and rig up liner handling equipment and prepare to run completion assy. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
Activity	Tripping
Fluid Treatment	Prepared further 166bbl of 11.0ppg inhibited brine in pit #8. Filled slug pit with 56bbl unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr. Backloaded 357bbl slops to Ocean Valkyrie, Port tank #2 and Stbd tank #2.
For Report # 072 On 08/29/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up and RIH 5 1/2" and 7" completion string.
Activity	Run completion string
Fluid Treatment	Fill trip tank as required with inhibited brine from pit #8. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 073 On 08/30/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to run 7" tubing and completion assembly.
Activity	Run Completion String
Fluid Treatment	Continue to fill trip tank from pit #8 if required. Returns from casing displacement to pit #8. Clean mud pits #1 and #2. Backloaded 3 drums Radiagreen EME and SBM Mud Samples on Ocean Valkyrie (FM 044). Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 074 On 08/31/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to run completion and testing assembly. Install flow head and pressure test. Hold JSA. Rig up Expro slickline and run as per program.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Activity	Run completion
Fluid Treatment	Continue to clean pit #2. Fill trip tank as required from inhibited brine in pit #8. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 075 On 09/01/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to make up well testing equipment. Run plugs. Displace tubing to diesel. Attempt ot pressure test to packer - no success. Communication between annulus and tubing. Bleed of annulus, line up down tubing and repeat packer setting sequence. Line up on annular and attempt to test top packer - no success. Pressure up tubing and sttempt to reset packer.
Activity	Pressure Test Packers
Fluid Treatment	Fill trip tank as required with inhibited brine from pit #8. Displace competion string to diesel. Returns taken to pit #5. Base Oil: Brine: Rig - 58bbl Battler - 600bbl Valkyrie - -
For Report # 076 On 09/02/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue to attempt to pressure test packer - no success. Attempt to reverse circulate diesel out of tubing through Expro choke. Bullhead diesel from tubing to formation by pumping inhibited brine. Hold pressure on tubing. Bled off pressures - no test on packer. Monitor well while dicussed and developed forward plan with town. Hold PJSM. Expro prepare tools and re-terminate rope. RIH with slickline to set protection sleeve.
Activity	Retrieve completion string
Fluid Treatment	Transfer inhibited brine from pit #8 to cement unit for pressure testing as required. Rec'd approx. 660bbl of 11.3ppg brine from Ocean Battler. Bullheaded diesel from production tubing into formation at 5bpm with 223bbl of inhibited brine from pit #8 and pit #5. Brine: Rig 776bbl (unfiltered in mud pits) Battler - Valkyrie -
For Report # 077 On 09/03/2008	**Operation at Depth 4,648.0 m**
Rig Activity	Continue slickline operations to attempt to retrieve packers. Displace well to brine to kill well. Flow check well. Commence rigging down well test equipment. Rig up slick-line and RIH and set plug at 2552m. POOH with plug running tool. Check tool for confirmation plug set.
Activity	Retrieve Completion String
Fluid Treatment	Transfer brine from pit #5 to cement unit as required for pumping/pressure testing operations. Circulated well with 11.0ppg brine to kill well. 333bbl of brine dumped. Brine: Rig 776bbl (unfiltered in mud pits) Battler - Valkyrie -

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval		**05**		**From Date**	**068**	**Top of Interval**	**4,648.0 m**
Max. Hole Size / Bit Size		**9.500 / 9.500 in**		**To Date**	**092**	**Bottom of Interval**	**4,648.0 m**
For Report	**# 078**	**On**	**09/04/2008**	**Operation at Depth**		**4,648.0 m**	
Rig Activity				Preesure test plug to confirm set. Rig down well testing equipment. Remove chiksan lines & hydraulics from flow head. Make up Schlumberger wire line, rig up cement line, and pressure test. Install stuffing box assembly and RIH with chemical cutter. Fire guns andPOOH with chemical cutter to surface. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger.		
Activity				RIH with XT 57 DP from Derreck to top of tubing hanger			
Fluid Treatment				Continue to pump brine to cement unit as required for pressure testing operations.			
For Report	**# 079**	**On**	**09/05/2008**	**Operation at Depth**		**4,648.0 m**	
Rig Activity				RIH & landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, Had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well. Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke.Broke off 1 stand of DP and installed TIW Continued to pick up string 23m total stripping through annular while pumping @ 1.3 bpm & 300 psi, pressure remained constant.Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked well, down hole losses were 9 bbls per hour. Pumped HEC pill and displaced well with 230 bbls of brine, observed 20 bbl loss. Flow checked well and observed 6 bbl per hour loss. Pulled tbg hanger surface, removed control lines and laid out hanger. Laid out completion string as per tally F 2478m to 2466m. Observed backflow from string, installed TIW v/v and pumped 30 bbls of 11 ppg brine then layed out TIW and monitored flow- no flow back. Continued to POOH with completion string F 2466 to 2378m, at 2438 laid out TRSSV assembly.		
Activity				Lay out TRSSV assembly			
Fluid Treatment				Added 35 Sx of CaCl to make an additional 57 bbls and weight up brine in pit 2 from 10.7+ to 11.0 ppg.			
For Report	**# 080**	**On**	**09/06/2008**	**Operation at Depth**		**4,648.0 m**	
Rig Activity				Flushed pits 4, 7 and 8 with see water. Washed clean in preparation for completion brine. POOH 7" completion tubing F 2378m to surface. Made up Cameron test tool.			
Activity				Make up Cameron test tool			
Fluid Treatment				Transffered Volume from pit # 7 into pits # 1, 2, & 3.			
For Report	**# 081**	**On**	**09/07/2008**	**Operation at Depth**		**4,648.0 m**	
Rig Activity				Continued to RIH with ws test tool on 5.5" drill Pipe. Flushed lines, tested both tool and BOP and POOH. Laid down 12 joints. Rig up Schlumberger wire line equipment, gauge ring, bore protector and RIH. POOH and pressure test. Made up TIW v/v to water bushings, changed elevators and RIH with 7" tubing F 369m to 965m,			
Activity				RIH 7" completion tubing.			
Fluid Treatment				Received 660bbls of CaCl2 completion brine (at 10.9ppg) from the Pacific Battler. Filtered 660 bbls of 10.9 ppg completion brine to 14 NTU. 387 bbls of completion brine is in pit # 7 and 249 bbls is in pit# 8. 24 bbls of completion brine used to prime the pit lines.			
For Report	**# 082**	**On**	**09/08/2008**	**Operation at Depth**		**4,648.0 m**	
Rig Activity				Used 26 bbls for Halliburton Cementers pressure testing. RIH 7" tubing F 965m to 2576m, tagged PBR with seal assembly to confirm space out. POOH to pick up SSSV at 2321m. Pick and made up SSSV and terminate and test control lines, no initial test change out 2 x needle valves. Continued to RIH with 7" tubing F 2321 to 2472m. aab			

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Activity	RIH 7" Completion Tubing
Fluid Treatment	No Treatments today. Brine 16 NTU's according to Scotch Tech Filtration personal.

For Report	**# 083**	**On**	**09/09/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Pick and make up tubing hanger- Terminate TR SSV control lines through TH and pressure test control lines to 4000 psi/ 5 min. Baker installed and test quest E-Line connection through TH to 7500 psi perform pre-submergence check. Install spilt bushing into rotary table & land out TH & table. Laid down THHTT. Picked up & made up MTHRT to TH & perform final checks prior to running. Up WT 192 K, down WT 174K. Run landing string & completion F 2477m to 2570.77m Take up & down weight 5m above SST. Up weight 194K, down WT 175K. ROV open CSM & test rotary valves + PMV, XOV, AAV, AMW. Land TH with 30 K down. TH orientation helix engage. Land off TBG string weight & hold land string weight (N 8 K). Close AAV, AMV. Lock test Th at 500 psi/ 5 min, 4000 psi/ 10 min, with landing string at neutral weight. rotated 3.8 turns CW to lock TH. rotate back 3.8 turns CCW perform over pull of 130 K.Pressure test SST valves as per program.
Activity				Shut in well and monitor pressure	
Fluid Treatment				CRW24100 received at $563.88 / drum (this is a placeholder price only - to be revised). Transfered 26 bbls of filtered completion brine to Halliburton Cementing unit. Monitored fluid levels in pits.	

For Report	**# 084**	**On**	**09/10/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Made up 4.5" GS pulling tool. Pressure test lubricator to 4000psi and RIH and open sliding sleeve at 2476m. POOH with shifting tool left tool in lubricator and close swab valve. Close annular and line up to Circulate down choke line, taking returns through Expro choke and down to the downwind flare boom. Returns will be discharged and vented via the flare boom. Lined up and circulated 300 bbls of 10.9 filtered, inhibited brine down tubing string with cementing unit and took returns back to pits. Removed lubricator and laid out sliding sleeve tool. Pressure test tag above XX plug I 5000 psi to 5 minutes. Bled off pressure I 500 psi close SSSL and bled off pressure in TBG, I 1000psi. Perform 15 mon in flow test. Open FMV, RIH with 4.562" retrieval tool and latch plug.
Activity				RIH with 4.562" retrieval tool.	
Fluid Treatment				Stock correction - zeroed out Base Oil and Stored Brine figures. The storage tanks were cleaned out some time ago and recovered fluid was returned to town with slops. Used 4X crw 24100 inhibitor (double concentration) in filtered brine in Pit # 8.	

For Report	**# 085**	**On**	**09/11/2008**	**Operation at Depth**	**4,648.0 m**
Rig Activity				Continue to RIH with $.562" Plug retrieval tool. Break off lubricator and laid down Retrieval tool, made GS tool and pressure test to 4000 psi for 5 minutes. Then latch plug at 2450m and POOH to surface. Break off Lubricator, laid down 4.562" plug, changed out tool to 3.813" shifting tool, installed lubricator and pressure tested to 4000psi / 5 minutes. Pumped 205 bbls of Diesel, Expro RIH with shifting tool and retrieved sliding sleeve at 2467m and POOH.RIH and tested Expro tool at 2457m. Continued to POOH with RX running tool, break lubricator and made up G5 pulling tool and tested. Setpacker with 5500 psi and bled off pressure. Rig up to test packer, closed annular and increased pressure in stages I 3800 psi. POOH RX plug after we bled off pressure.Pressure test to 4000 psi.
Activity				Pressure testing to 4000 psi.	
Fluid Treatment				No treatments today. Retort results for Pits # 1, 2 and 5 were less than 1% Diesel. Reported to results to Rocco Company Man.	

For Report	**# 086**	**On**	**09/12/2008**	**Operation at Depth**	**4,648.0 m**

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**

Rig Activity	RIH with Slick line and confirmed 2473m depth. POOH, break off and change out tools. Test Lubricator to 4000 psi RIH with Expro tool latch plug and remove. POOH to surface. Installed otis cap and test to 4000 psi and prepare to flow well. Perform ESD function test. Commence to flow well.Maintained pressure between 200 - 400 psi to trip tank through choke as required.
Activity	Flow the Well and Flaring
Fluid Treatment	Charged for 2 bulk containers of BARAKLEAN NL plus used for pit, tank, shakers and rig cleaning. Transfered brine from pits # 1, 2 and 5 into pit # 3 and Contaminated Brine into Pit # 1 for flaring.

For Report	**# 087**	**On**	**09/13/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Flowed well between 200-400 psi Bled off annulus pressure to zero, shut well wait on pressure build up. Closed SSSV, Bled off pressure to zero. Flushing the lines and pumping 20 bbls of Glycol down hole.
Activity	Pumped 20 bbls of Glycol Down Hole
Fluid Treatment	Transfer of 150 bbls of brine into pit 1 and Dilute with 270 bbls of sea water and dump. The process is being continued until brine is empty of pits.

For Report	**# 088**	**On**	**09/14/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Pumped contaminated brine to flare 67 bbls and 20 bbls of filtered brine from Halliburton cementers and burned off. Rig up slick line and flushed flare boom. RIH and set tubing hanger, test failed twice before 4000 psi. Conducted SSSV test and test passed above 3400 psi. Flushed all lines. continued to rig down and back load.
Activity	Rig Down
Fluid Treatment	Continued to dilute 1/3 Brine to 2/3 Sea Water and Dumped. Whilst dumping Continued to add Sea Water to further dilute brine. Also used the same process to dump the trip and sand traps.

For Report	**# 089**	**On**	**09/15/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Flushed landing string. Laid down side entry assembly and changed out elevators, RIH to 92m and reverse circulate 50 bbls at 5 minutes. POOH with setting assembly. Change out elevators, and reset ITC running tool, test and POOH. Continued to rig down.
Activity	Rig Down.
Fluid Treatment	Back Loaded, 36 Pails LIQUI-VIS in Container (030), 36 Pails LIQUI-VIS in Container (032) and 48 Sx N-VIS in Container (032. Received, 36 Sx of BARAZAN D PLUS, 40 Sx Guar Gum and 40 Sx OF Soda Ash. Will charge off these chemicals when we reach Bazzard-1 location. Continued to Clean Pits 1 thought to 8 including sand and slug pits.

For Report	**# 090**	**On**	**09/16/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Rig Down.
Activity	Rig Down
Fluid Treatment	3 sx of Salt used at the end of testing the well.

For Report	**# 091**	**On**	**09/17/2008**	**Operation at Depth**	**4,648.0 m**

Rig Activity	Continue to rig down, prepare for move to new location. Stuart Petroleum, Bazzard-1 well.
Activity	Continue to Rig Down.

Operations Log Recap

Well Name	**Longtom - 4**
Operator	**NEXUS ENERGY**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Nexus Energy**

Interval	**05**		**From Date**	**068**	**Top of Interval**	**4,648.0**	**m**
Max. Hole Size / Bit Size	**9.500 / 9.500**	**in**	**To Date**	**092**	**Bottom of Interval**	**4,648.0**	**m**
Fluid Treatment			Returned to Corio Quay for Nexus credit 72 pails of LIQUI-VIS EP and 48 sx of N-VIS. Credit well for 2 x 1054 lt BARAKLEAN NS Plus not used, to be returned to Corio Quay. Prepare Well Sight for Stuart Petroleum, Bazzard-1 well. clean and Maintain pits, sand traps, pump room, repaire valves in pump room.				
For Report	**# 092**	**On**	**09/18/2008**	**Operation at Depth**	**4,648.0 m**		
Rig Activity			End of Nexus Energy Project, moving Seadrill rig West Triton to Stuart Petroleum Bazzard-1 Location.				
Activity			Moving rig to Bazzard-1 location				

Well Name	Longtom - 4
Operator	NEXUS ENERGY
Contractor	Seadrill
Rig No	West Triton
Unit System	Nexus Energy

Deviation Actual

Survey Date	MD m	TVD m	Angle	Direction	Horiz Displ. m
07/02/2008	1,998	1,868	27.26	181.7	129.6
07/05/2008	2,414	2,222	37.70	183.2	191.8
07/28/2008	2,971	2,593	45.10	184.6	377.4
07/30/2008	1,405	1,353	30.04	18.3	51.3
08/04/2008	3,254	2,633	84.40	184.0	1,440.0
08/07/2008	3,595	2,625	91.46	181.0	1,779.0
08/07/2008	3,740	2,623	88.50	184.9	1,926.0
08/08/2008	4,183	2,671	81.40	187.3	2,364.7
08/09/2008	4,507	2,681	84.60	193.0	2,683.8
08/10/2008	4,648	2,696	80.20	185.5	2,822.6

DAILY MUD REPORTS

Baroid Fluid Services

Report No 001

Daily Drilling Fluid Report

Date 06/19/2008		Depth 0.0 m	
Spud Date 06/20/2008		Rig Activity Pre-Load	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m) OD ID Length	in Casing m OD Set MD	Circulation/Hydraulics Data		
Bit Size	in			Model		
Make/Type				Bore in		
Jets				Strokes in		
TFA	sq-in			Eff(%)		
Jets Velocity	m/sec			bbl/strk		
Jet Impact Force	lbf			SPM		
Bit HHSI	hhp/in2			gpm|bbl/min		
Press Drop @ Bit	psi			Total GPM	AV, Riser	Circ Press psi
Bit Depth	m			Total Circ Time	AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg			BU Time , min	AV max DC	Press Drop DP
ECD @ Bit	ppg			Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

.

Rig Activity

Rig on tow to location. Jacking @ preload air gap. Start preload. Release Pacific Valkyrie. Slip and cut drilling line 86ft. Draw works calibration, finish preload. Hold for 2 hrs 100%. Dump preload. Release Pacific Battler from Bow.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can		9		9	
Amodrill 1235	1500 l drum		2		2	
BARACOR 100	55 gal drum		4		4	
BARA-DEFOAM W300	5 gal can		17		17	
BARAZAN D PLUS	25 kg bag		107		107	
barite	1000 kg bulk		88.980		88.980	
BAROFIBRE FINE	25 lb bag		50		50	
bentonite	1000 kg bulk		51.570		51.570	
calcium chloride flake 77%	25 kg bag		39		39	
caustic soda	25 kg pail		31		31	
Circal 60/16	25 kg sack		143		143	
Circal Y	25 kg sack		286		286	
citric acid	25 kg bag		21		21	
CLAYSEAL PLUS	216 kg drum		29		29	
CON DET	5 gal can		32		32	
CON DET	55 gal drum		8		8	
DEXTRID LTE	25 kg sack		75		75	
EZ SPOT	55 gal drum		8		8	
EZ-MUD	25 kg pail		109		109	
EZ-MUD DP	25 kg bag		14		14	
guar gum	25 kg bag		70		70	
KCL Tech Grade (bulk)	1000 kg bulk		2.000		2.000	
Kwikseal Fine	40 lb bag		38		38	
lime	25 kg bag		66		66	
N-DRIL HT PLUS	50 lb bag		55		55	
NO-SULF	17 kg pail		48		48	
Omyacarb 5	25 kg bulk		33.000		33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	3.5
Logging	
Dir Work	
Repair	2.0
Other	9.5
Total	15.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol		Total		Total Losses	

Fluid Types	Vol bbl

Deviation Information

Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$0.00	Total Cumulative Cost	$2,500.00

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

HALLIBURTON | Fluid Systems

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Baroid Fluid Services

Report No 002

Daily Drilling Fluid Report

Date 06/20/2008		Depth 96.0 m	
Spud Date 06/20/2008		Rig Activity Pick up BHA	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	26.000	in
Make/Type	REED/Y11CC	
Jets	3x22|1x16	
TFA	1.310	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	96.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	18.7
Drill Collar	8.250	2.813	40.0
Drill Collar	9.500	3.000	30.0
Other	36.000	0.000	3.7
Other	36.000	0.000	3.7

in Casing m

OD	Set	MD

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	0.000	0.000	0.000
Strokes in	14.000	14.000	14.000
Eff(%)	0	0	0
bbl/strk	0.000	0.000	0.000
SPM	0	0	0
gpm|bbl/min			

Total GPM		AV, Riser	Circ Press psi
Total Circ Time		AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #4					
Time		20:00					
Depth	m	0					
FL Temp	Deg C						
Density @ Deg C	ppg	9.60 @ 25					
FV @ Deg C	sec/qt	155 @ 25					
PV @ Deg C	cP	20 @ 25					
YP	lbs/100 ft2	70					
GELS	lbs/100 ft2	55/60/70					
600/300		110.0/90.0					
200/100		85.0/75.0					
6/3		55.0/52.0					
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol	-/99.0					
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Build 1680 bbls of 35 ppb PBH.
Took 860 bbls KCL /Polymer mud from the Battler. To be used as displacement fluid.
Received and dumped +/- 100bbls dirty water from the boat, used for flushing boats tanks.

Flocculated PHB with sea water (75/25 or 67/33 to required viscosity) and added 0.275 ppb lime, prior to pumping as sweeps.

Rig Activity

Dump pre-load. Jack up rig to 17ft air gap. Prepare rig for skidding. Skid cantilever out. Install gumbo hose. Cont. skidding in to drilling position. Install HP mud hoses. Pick up BHA. Make 30" running tool. Pick up and make up BHA & lay out stabilizer. Sea level @ 39.9m

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	51.570	22.000	17.000	56.570	$8,412.96
caustic soda	25 kg pail	31		3	28	$132.57
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	88.980			88.980	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	39			39	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	70			70	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	66			66	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3004.0	Total		Total Losses	

Fluid Types	Vol bbl
KCl/Polymer	857.0
PHB	1681.0
Seawater	466.0

Deviation Information

Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

Daily Products Cost	$8,545.53	Total Daily Cost	$11,045.53
Cumulative Products Cost	$8,545.53	Total Cumulative Cost	$13,545.53

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 003

Daily Drilling Fluid Report

Date 06/21/2008		Depth 132.0 m	
Spud Date 06/20/2008		Rig Activity Rig up and rig down	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	36.000		36.0

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	0.000	0.000	0.000
Strokes in	14.000	14.000	14.000
Eff(%)	0	0	0
bbl/strk	0.000	0.000	0.000
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #4						
Time		22:00						
Depth	m	0						
FL Temp	Deg C							
Density @ Deg C	ppg	9.60					8.33	10.00
FV @ Deg C	sec/qt	180 @ 25					100	300
PV @ Deg C	cP	25 @ 25						
YP	lbs/100 ft2	70					40	150
GELS	lbs/100 ft2							
600/300		120.0/95.0						
200/100		85.0/75.0						
6/3		60.0/55.0						
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/99.0						
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Fluid Treatments

Fluid Type Seawater

Made 160 bbls cement mix water, 8.25 ppb calcium chloride.

Rig Activity

Cont. RIH with 26" BHA to 97m. Drill ahead from 97m to 132m, pumping 75 bbl sweeps. Pump 200 bbl gel and displace hole with 280 bbl Inhibited mud @ TD. POOH to surface. Install 30" conductor handling tools. Pick up 30" conductor and wellhead and RIH. Set @ 128.86m. Wellhead stick up 1.93m. Rig up cement lines, pump cement slurry @ 15.8ppg. Wait on cement. Release 30" conductor running tool.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	56.570		3.800	52.770	$1,880.54
calcium chloride flake 77%	25 kg bag	39		24	15	$331.68
caustic soda	25 kg pail	28		1	27	$44.19
lime	25 kg bag	66		2	64	$13.10
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	88.980	76.720		165.700	
BAROFIBRE FINE	25 lb bag	50			50	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	70			70	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.5
Circulating	0.5
Trips	8.5
Rig	
Surveys	
Fishing	
Run Casing	5.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	7.0
Total	24.0
Rotating	2.5
ROP	14.4
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	466.0	Dewatering		SCE	-426.6
Total Hole	95.2	Sea Water		Evaporation	
Total Circ	466.0	Whole Mud	521.8	Trips	
Reserve		Barite		Other	
Prev Vol	3004.0	Chemicals		Total Surface	
Net Change	95.2	Other		Downhole	
Total Vol	561.2	Total	521.8	Total Losses	-426.6

Fluid Types	Vol bbl
KCl/Polymer	620.0
PHB	1506.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$2,269.51	Total Daily Cost	$4,769.51
Cumulative Products Cost	$10,815.04	Total Cumulative Cost	$18,315.04

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 004

Daily Drilling Fluid Report

Date 06/22/2008		Depth 374.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	22.000	in
Make/Type	SMITH/XR+C	
Jets	3x22|1x15	
TFA	1.286	sq-in
Jets Velocity	90.6	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	374.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	301.0
Drill Collar	8.250	2.813	30.0
Drill Collar	9.500	3.000	43.0
Open Hole	22.000		245.2

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	100	100	0
gpm|bbl/min	597 14.22	597 14.22	

Total GPM	1,195	AV, Riser	Circ Press psi
Total Circ Time	29	AV min DP 11.8	Tot Pres Loss
BU Time , min	15	AV max DC 22.7	Press Drop DP
Total Strokes	5,849	BU Strokes 2,958	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #5						
Time		22:00						
Depth	m	0						
FL Temp	Deg C							
Density @ Deg C	ppg	9.60					8.33	10.00
FV @ Deg C	sec/qt	180 @ 25				X	80	
PV @ Deg C	cP	25 @ 25						
YP	lbs/100 ft2	70				X	30	
GELS	lbs/100 ft2							
600/300		120.0/95.0						
200/100		85.0/75.0						
6/3		60.0/55.0						
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/99.0						
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Fluid Treatments

Fluid Type Seawater

Cut back 35ppb PHB with sea water 7:3 and add 0.3ppb lime for viscosity prior to pumping as sweeps.

Mixed 450 bbl Guar Gum, 630 bbl PHB today.

Rig Activity

Cont. break out running tool. Lay out BHA. Pick up and make up 22" BHA. RIH to 95m and shallow test MWD tools. Attempt to stab in. No success. Launch ROV unit, guide to stab in well head @ 95.13m. Install master bushing. Cont. RIH with 22" BHA, tag cement @ 124.87m. Drill cement from 124.87m to 132.8m. Drilled 22" hole from 132.8m to 374m, pumping 50 bbl gel sweeps.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	52.770		6.000	46.770	$2,969.28
guar gum	25 kg bag	70		20	50	$1,698.60
caustic soda	25 kg pail	27		1	26	$44.19
lime	25 kg bag	64		3	61	$19.65
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	15			15	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	10.0
Circulating	0.5
Trips	10.0
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.5
Total	24.0
Rotating	10.0
ROP	24.2
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus	420.7	Base		Fluid Dumped	
Pipe Cap	12.1	Drill Water		Transferred	
Active Pits	399.0	Dewatering		SCE	-533.3
Total Hole	432.9	Sea Water		Evaporation	
Total Circ	831.9	Whole Mud	804.0	Trips	
Reserve		Barite		Other	
Prev Vol	561.2	Chemicals		Total Surface	
Net Change	270.7	Other		Downhole	
Total Vol	831.9	Total	804.0	Total Losses	-533.3

Fluid Types	Vol bbl
KCl/Polymer	620.0
PHB	1384.0
Guar Gum	400.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$4,731.72	Total Daily Cost	$7,231.72
Cumulative Products Cost	$15,546.76	Total Cumulative Cost	$25,546.76

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 005

Daily Drilling Fluid Report

Date 06/23/2008		Depth 749.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	22.000	in
Make/Type	SMITH/XR+C	
Jets	3x22|1x15	
TFA	1.286	sq-in
Jets Velocity	90.2	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	749.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	676.0
Drill Collar	8.250	2.813	30.0
Drill Collar	9.500	3.000	43.0
Open Hole	22.000		620.2

in Casing m

OD	Set	MD
30.000	@	128.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	99	100	0
gpm|bbl/min	591 14.08	597 14.22	
Total GPM	1,189	AV, Riser	Circ Press psi
Total Circ Time	49	AV min DP 11.8	Tot Pres Loss
BU Time , min	34	AV max DC 22.6	Press Drop DP
Total Strokes	9,741	BU Strokes 6,761	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #8						
Time		20:00						
Depth	m	0						
FL Temp	Deg C							
Density @ Deg C	ppg	9.60					8.33	10.00
FV @ Deg C	sec/qt	155 @ 25				X	80	
PV @ Deg C	cP	20 @ 25						
YP	lbs/100 ft2	70				X	30	
GELS	lbs/100 ft2	55/60/70						
600/300		110.0/90.0						
200/100		85.0/75.0						
6/3		55.0/52.0						
API Filt	ml/30 min							
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in							
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/99.0						
Sand	% by vol							
MBT	ppb Eq.							
pH @ Deg C								
ALK Mud	Pm							
ALK Filt	Pf/Mf							
Chlorides	mg/l							
Tot. Hardness	mg/l							
LGS/HGS	% by Vol							
LGS/HGS	ppb							
ASG	SG							
Additional Properties								

Fluid Treatments

Fluid Type Seawater

Cut back 35ppb PHB with sea water 7:3 and add 0.1-0.3 ppb lime for viscosity prior to pumping as sweeps.

Mixed 750 bbls Guar gum
Mixed 920 bbl PHB mud.

Rig Activity

Cont. drilling 22" hole from 374m to 749m.
Pumping 3 X 50 bbl sweeps per stand. Using guar gum sweeps in the middle of the stand.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
bentonite	1000 kg bulk	46.770	7.000	8.770	45.000	$4,340.10
guar gum	25 kg bag	50		41	9	$3,482.13
lime	25 kg bag	61		7	54	$45.85
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			29	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	15.6
Dil Rate	0.00

Fluid Volume Breakdown — Seawater

Active	bbl	Additions	bbl	Losses	bbl
Annulus	961.6	Base		Fluid Dumped	
Pipe Cap	24.7	Drill Water		Transferred	
Active Pits	399.0	Dewatering		SCE	-1653.9
Total Hole	986.3	Sea Water	374.0	Evaporation	
Total Circ	1385.3	Whole Mud	2207.4	Trips	
Reserve	374.0	Barite		Other	
Prev Vol	831.9	Chemicals		Total Surface	
Net Change	927.5	Other		Downhole	
Total Vol	1759.3	Total	2581.4	Total Losses	-1653.9

Daily Products Cost	$7,868.08	Total Daily Cost	$10,368.08
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$35,914.84

Fluid Types

	Vol bbl
KCl/Polymer	754.0
Guar Gum	387.0
PHB	863.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Baroid Representatives Eugene Edwards James Munford
Office 90 Talinga Rd Melbourne Telephone 61-03-9581-7555
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Baroid Fluid Services

Report No 006

Daily Drilling Fluid Report

Date 06/24/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Repair rig	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Carlos Carvajal	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source					
Time					
Depth	m				
FL Temp	Deg C				
Density @ Deg C	ppg				
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol				
NAP/Water	% by Vol				
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l				
Tot. Hardness	mg/l				
LGS/HGS	% by Vol				
LGS/HGS	ppb				
ASG	SG				
Additional Properties					

Targets

Program

Fluid Treatments

Fluid Type KCl/Polymer

Pumped 150 bbl PHB sweep @ TD
Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer to completely displace hole.

Rig Activity

Cont. drilling 22" hole from 749m to 755m. Pumped 150 bbl PHB sweep. Followed by 400 bbl pure PHB gel and 700 bbl inhibited KCL/Polymer mud. POOH to 741m, 30k overpull. Work through tight spots with pumps. POOH to 402m. Service top drive. POOH and lay down BHA. Make up 18 3/4" wellhead. RIH to 90m, try to stab 16" casing in the wellhead. Launch ROV, stabb in well head. RIH to 145m. Bend bails latches on top drive. Rig them down for repair.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4			4	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			107	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	29			9	
CON DET	5 gal can	32			32	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			109	
EZ-MUD DP	25 kg bag	14			14	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	0.5
Circulating	1.0
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	13.0
Coring	
Reaming	0.5
Testing	
Logging	
Dir Work	
Repair	2.0
Other	2.0
Total	24.0
Rotating	1.0
ROP	12.0
Dil Rate	0.00

Fluid Volume Breakdown KCl/Polymer

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	-825.5
Total Hole	484.5	Sea Water		Evaporation	
Total Circ		Whole Mud	556.0	Trips	
Reserve		Barite		Other	
Prev Vol	754.0	Chemicals		Total Surface	
Net Change	-269.5	Other		Downhole	
Total Vol	484.5	Total	556.0	Total Losses	-825.5

Fluid Types

	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$38,414.84

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 007

Daily Drilling Fluid Report

Date 06/25/2008	**Depth** 755.0 m		
Spud Date 06/20/2008	**Rig Activity** Run casing and cement		
Operator NEXUS ENERGY	**Report For** Sean DeFreitas/Stefan Schmidt	**Well Name** Longtom - 4	
Contractor Seadrill	**Report For** Carlos Carvajal	**Rig Name** West Triton	**Unit System** Nexus Energy
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Strait	**Field or Block** VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD
Bit Size	in				30.000 @		128.8
Make/Type					16.000 @		750.0
Jets							
TFA	sq-in						
Jets Velocity	m/sec						
Jet Impact Force	lbf						
Bit HHSI	hhp/in2						
Press Drop @ Bit	psi						
Bit Depth	755.0 m	Open Hole	22.000	6.0			
ECD @ Csg Shoe	ppg						
ECD @ Bit	ppg						

Circulation/Hydraulics Data			
Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			
Total GPM	AV, Riser	Circ Press psi	
Total Circ Time	AV min DP	Tot Pres Loss	
BU Time , min	AV max DC	Press Drop DP	
Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type KCl/Polymer

Dumped and cleaned pits. Hydro-tested same.

Back load WBM chemicals to make room for SBM chemicals.

Rig Activity

Cont. repairs on top drive bail latches. RIH with 16" casing to 647m. Pick up 20 X 16" crossover and make up to 16" casing. Land off. RIH with 5 1/2" drill pipe from surface to 613m. Cont. to run 16" casing on 5 1/2" DP landing string. Land out well head @ 95.13m. Cement casing. Rig down cement lines. POOH 5 1/2" DP to surface.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	4				
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	107			47	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	9			1	
CON DET	5 gal can	32				
CON DET	55 gal drum	8				
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	109			13	
EZ-MUD DP	25 kg bag	14				
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	55			15	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	7.5
Rig	
Surveys	
Fishing	
Run Casing	10.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	3.0
Other	3.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown KCl/Polymer

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	484.5	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	82.0	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	484.5	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$40,914.84

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 008

Daily Drilling Fluid Report

Date 06/26/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Wait on weather	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	755.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Rig Activity

Hold JSA and lift H4 connector and set in C-plate. Make up and run 22" riser. Wait on weather.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	165.700			165.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26			26	
Circal 60/16	25 kg sack	143			143	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
DEXTRID LTE	25 kg sack	75			75	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	54			54	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	33.000			33.000	
PAC-L	25 kg bag	18			18	
potassium hydroxide	25 kg bag	73			73	
sapp	25 kg bag	40			40	
sodium bicarbonate	25 kg bag	32			32	

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$23,414.84	Total Cumulative Cost	$43,414.84

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	627.0	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
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Baroid Fluid Services

Report No 009

Daily Drilling Fluid Report

Date 06/27/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Wait on weather	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	755.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Received 1064bbl of base oil and SBM chemicals from Ocean Battler.

Rig Activity

Continue to wait on weather. Continue to run 22" riser. Nipple up BOP.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
calcium chloride	1000 kg bag		52	52		$28,748.72
ACCOLADE BASE	1 bbl bulk		1,046.000		1,046.000	
ADAPTA HP	25 kg sack		72		72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum		8		8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	165.700	45.000		210.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack		160		160	
calcium chloride flake 77%	25 kg bag	15			15	
caustic soda	25 kg pail	26				
Circal 60/16	25 kg sack	143	192		335	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum		4		4	
DEXTRID LTE	25 kg sack	75				
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum		36		36	

Daily Products Cost	$28,748.72	Total Daily Cost	$31,248.72
Cumulative Products Cost	$52,163.56	Total Cumulative Cost	$74,663.56

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	775.8	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0
brine	148.8

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 010

Daily Drilling Fluid Report

Date 06/28/2008	**Depth** 755.0 m		
Spud Date 06/20/2008	**Rig Activity** Nipple up B.O.P.		
Operator NEXUS ENERGY	**Report For** Sean DeFreitas/Stefan Schmidt	**Well Name** Longtom - 4	
Contractor Seadrill	**Report For** Mike Barry	**Rig Name** West Triton	**Unit System** Nexus Energy
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Strait	**Field or Block** VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	750.0	Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	99	99	99
Jets Velocity	m/sec							bbl/strk	0.142	0.142	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM	AV, Riser	Circ Press psi	
Bit Depth	755.0 m	Open Hole	22.000	6.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	ppg							BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	ppg							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type

Received 1692bbl of SBM ACCOLADE mud. 160bbl remaining on Ocean Valkyrie. Adjust oil/water ratio to 70/30 and treat to ensure properties within specifications. Weight SBM with Barite to 12.0ppg.

Rig Activity

Continue to nipple up BOP and pressure test. Make up 14 3/4" BHA and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE	bbl		1,692.0	1,692.0		$537,446.88
ACCOLADE BASE	1 bbl bulk	1,046.000		53.000	993.000	$19,929.59
ADAPTA HP	25 kg sack	72			72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	210.700			210.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	15			15	
Circal 60/16	25 kg sack	335			335	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	36			36	
lime	25 kg bag	6			6	
N-DRIL HT PLUS	50 lb bag	15			15	

Daily Products Cost	$557,376.47	Total Daily Cost			$559,876.47
Cumulative Products Cost	$609,540.03	Total Cumulative Cost			$634,540.03
Baroid Representatives	Eugene Edwards		Tim Waldhuter		
Office	90 Talinga Rd Melbourne		Telephone	61-03-9581-7555	
Warehouse	c/o of Esso Australia Ltd		Telephone	61-3-56-881-445	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	89	
VSM-300	89	
VSM-300	89	
VSM-300	89	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	2.0
Logging	
Dir Work	
Repair	
Other	16.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2520.8	Total		Total Losses	

Fluid Types	Vol bbl
Guar Gum	320.0
PHB	307.0
brine	148.8
ACCOLADE	1745.0

Deviation Information		
Survey MD		m
Survey TVD		m
Angle		Deg
Direction		
Horiz Displ.		m

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Baroid Fluid Services

Report No 011

Daily Drilling Fluid Report

Date 06/29/2008		Depth 755.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	22.000		6.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	750.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program		Fluid Treatments
Source		Pit #6	Pit #6						**Fluid Type**
Time		10:00	22:00						Continue to adjust active mud properties and weight to 12.0ppg.
Depth	m	755	755						
FL Temp	Deg C								
Density @ Deg C	ppg	9.10 @ 20	12.00 @ 20			X	12.00	12.20	Added 5 ppb Omyacarb 5 and 5 ppb Circal 60/16 to displacement volume.
FV @ Deg C	sec/qt	70 @ 20	70 @ 20						
PV @ Deg C	cP	22 @ 49	31 @ 49						Drill out cement and shoe track with seawater and Guar Gum/PHB sweeps, returns overboard.
YP	lbs/100 ft2	8	14						
GELS	lbs/100 ft2		8/12/15						Received 457bbl, 11.3ppg brine.
600/300		52.0/30.0	76.0/45.0						
200/100		23.0/14.0	35.0/23.0						
6/3		4.0/3.0	7.0/6.0						
NAP/Water Ratio		65.2/34.8	66.7/33.3						
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120						
Cake API/HTHP	32nd in	-/1	-/1						
Corr Solid	% by Vol	6.0	16.5						
NAP/Water	% by Vol	60.0/32.0	54.0/27.0						
Sand	% by vol								
Alkalinity Pom	ml								**Rig Activity**
AgNO3	ml	2.00	2.30						Continue to RIH. Tag cement at 736m, drill out cement and shoe track with seawater. Drill 3m new formation, circulate hole clean and conduct LOT. EMW 13.7ppg at 650psi. POOH and lay out 14 3/4" BHA. Make up 13 1/2" BHA and RIH.
THTS	ml	3.10	3.00						
CaCl2	ppb	27.44	29.12						
NaCl(Sol/Insol)	ppb		2.56/-						
WPS	ppm	196,562	250,803						
Excess Lime	ppb								
Elec Stability	volt	220	380						
LGS/HGS	% by vol	3.3/2.7	3.8/12.8						
LGS/HGS	ppb	30.06/40.00	34.36/188.01						
ASG	SG	3.323	3.835						
Additional Properties									
Density at Flow Line	ppg	9.10	12.00						

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	210.700		111.720	98.980	$53,053.59
LE SUPERMUL	55 gal drum	36		11	25	$9,535.68
ADAPTA HP	25 kg sack	72		6	66	$3,005.76
RHEMOD L	55 gal drum	8		1	7	$2,213.79
Tau Mod	50 lb sack	60		5	55	$479.30
Circal 60/16	25 kg sack	335		37	298	$374.81
Omyacarb 5	25 kg bulk	321.000		37.000	284.000	$347.43
calcium chloride flake 77%	25 kg bag	15		1	14	$13.82
ACCOLADE BASE	1 bbl bulk	993.000			993.000	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	89	
VSM-300	89	
VSM-300	89	
VSM-300	89	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	22.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	1.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole		Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol		Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2374.0	Total		Total Losses	

Fluid Types	Vol bbl
ACCOLADE	1917.0
brine	457.0

Deviation Information

Survey MD	m
Survey TVD	m
Angle	Deg
Direction	
Horiz Displ.	m

Daily Products Cost	$69,024.18	Total Daily Cost	$71,524.18
Cumulative Products Cost	$678,564.22	Total Cumulative Cost	$706,064.22

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 012

Daily Drilling Fluid Report

Date 06/30/2008		Depth 1,448.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	REED/RSH616M-A3	
Jets	3x18|3x16	
TFA	1.335	sq-in
Jets Velocity	83.8	m/sec
Jet Impact Force	1958.1	lbf
Bit HHSI	3.78	hhp/in2
Press Drop @ Bit	810	psi
Bit Depth	1,448.0	m
ECD @ Csg Shoe	12.17	ppg
ECD @ Bit	12.09	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,264.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		693.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	99		99		99	
bbl/strk	0.142		0.142		0.142	
SPM	96		96		0	
gpm|bbl/min	573	13.65	573	13.65		
Total GPM	1,147	AV, Riser	18.9	Circ Press psi	3800	
Total Circ Time	30	AV min DP	43.2	Tot Pres Loss	6787	
BU Time , min	20	AV max DC		Press Drop DP	5812	
Total Strokes	5,847	BU Strokes	3,860	Press Drop An	22	

Properties		1	2	Hyd 3	4	Targets		Program	
Source		Flow Line	Pit #6	Pit #6	Flow Line				
Time		9:00	16:00	22:00	3:00				
Depth	m	1,038	1,244	1,424	758				
FL Temp	Deg C	32	49	52	25				
Density @ Deg C	ppg	11.90 @ 20	11.90 @ 49	12.00 @ 52	12.00 @ 20	X	X	12.00	12.20
FV @ Deg C	sec/qt	85 @ 20	76 @ 49	78 @ 52	70 @ 20				
PV @ Deg C	cP	32 @ 49	35 @ 49	37 @ 49	31 @ 49				
YP	lbs/100 ft2	24	33	37	14				
GELS	lbs/100 ft2	11/12/12	15/19/-	15/20/-	8/12/14				
600/300		88.0/56.0	103.0/68.0	111.0/74.0	76.0/45.0				
200/100		43.0/31.0	55.0/40.0	60.0/43.0	35.0/23.0				
6/3		10.0/9.0	16.0/14.0	16.0/15.0	7.0/6.0				
NAP/Water Ratio		65.0/35.0	67.5/32.5	65.9/34.1	70.0/30.0				
HTHP @ Deg C	ml/30 min	2.0 @ 120	4.0 @ 120	4.4 @ 120	4.0 @ 120				
Cake API/HTHP	32nd in	-/1		-/1	-/1				
Corr Solid	% by Vol	18.1	15.1	16.5	17.5				
NAP/Water	% by Vol	52.0/28.0	56.0/27.0	54.0/28.0	56.0/24.0				
Sand	% by vol								
Alkalinity Pom	ml								
AgNO3	ml	1.70	1.90	1.50	2.30				
THTS	ml	1.80	2.70	3.00	3.00				
CaCl2	ppb	17.47	26.07	20.58	29.12				
NaCl(Sol/Insol)	ppb	6.16/-			2.56/-				
WPS	ppm	194,058	215,968	173,349	273,577				
Excess Lime	ppb								
Elec Stability	volt	535	580	570	380				
LGS/HGS	% by vol	6.7/11.4	0.7/14.4	2.4/14.1	5.4/12.1				
LGS/HGS	ppb	61.18/167.27	6.77/211.26	21.73/208.23	49.64/177.49				
ASG	SG	3.606	4.121	3.969	3.702				
Additional Properties									
Density at Flow Line	ppg	11.95	11.90	12.00	11.95				

Fluid Treatments

Fluid Type ACCOLADE

Prepare 50bbl high vis spacer for displacement with Rheomod L.

Pump 50bbl spacer and displace lines and well to ACCOLADE mud. Added Barite direct to active to maintain mud weight 12.0ppg after displacement. Screened up shakers to 255's and 280's. Barite being stripped out, mud weight dropping to 11.7 - 11-9 ppg. Screened down shakers to 215's to control mud weight at 12 ppg. Added LE Supermul to active to ensure barite oil wet. Downhole losses in Latrobe formation of 10-20bbl/hr. Treated by direct addition of Steelseal, Circal 60/16 and Omyacarb 5 to active. Prepare 400bbl SBM premix using Base Oil/Brine.

Rig Activity

Continue to RIH. Hold PJSM and JSA for displacement to SBM. Displace lines and well to SBM. Drill 13 1/2" hole from 758m to 1448m.

Vol% Oil on cuttings: 6.21%

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	993.000		379.000	614.000	$142,515.37
LE SUPERMUL	55 gal drum	25		17	8	$14,736.96
barite	1000 kg bulk	98.980	102.000	30.980	170.000	$14,711.78
STEELSEAL	25 kg sack	180		60	120	$5,322.00
Omyacarb 5	25 kg bulk	284.000		44.000	240.000	$413.16
Circal 60/16	25 kg sack	298		22	276	$222.86
ADAPTA HP	25 kg sack	66			66	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	6			6	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	23.0
VSM-300	215 255	23.0
VSM-300	215 255	23.0
VSM-300	89	23.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	20.5
Circulating	2.5
Trips	1.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	20.5
ROP	33.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base		Fluid Dumped	
Pipe Cap	48.5	Drill Water		Transferred	
Active Pits	234.0	Dewatering		SCE	-153.0
Total Hole	597.5	Sea Water		Evaporation	
Total Circ	831.5	Whole Mud	398.0	Trips	
Reserve	991.0	Barite	46.4	Other	
Prev Vol	2374.0	Chemicals	31.5	Total Surface	
Net Change	240.3	Other		Downhole	-82.6
Total Vol	1822.5	Total	475.9	Total Losses	-235.6

Fluid Types	Vol bbl
brine	357.0
Base Oil	81.0

Deviation Information

Survey MD	1,404.6	m
Survey TVD	1,353.3	m
Angle	30.04	Deg
Direction	18	
Horiz Displ.	51.3	m

Daily Products Cost	$177,922.13	Total Daily Cost	$180,422.13
Cumulative Products Cost	$856,486.35	Total Cumulative Cost	$886,486.35

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 013

Daily Drilling Fluid Report

Date 07/01/2008		Depth 1,720.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	REED/RSH616M-A3	
Jets	3x18|3x16	
TFA	1.335	sq-in
Jets Velocity	78.6	m/sec
Jet Impact Force	1735.3	lbf
Bit HHSI	3.14	hhp/in2
Press Drop @ Bit	718	psi
Bit Depth	1,720.0	m
ECD @ Csg Shoe	12.26	ppg
ECD @ Bit	12.17	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,536.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		965.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220		
Bore in	6.500	6.500	6.500		
Strokes in	14.000	14.000	14.000		
Eff(%)	99	99	99		
bbl/strk	0.142	0.142	0.142		
SPM	90	0	90		
gpm|bbl/min	538	12.80	538	12.80	
Total GPM	1,075	AV, Riser	17.7	Circ Press psi	3100
Total Circ Time	34	AV min DP	40.5	Tot Pres Loss	7152
BU Time , min	21	AV max DC		Press Drop DP	6283
Total Strokes	6,178	BU Strokes	3,860	Press Drop An	20

Properties		1	Hyd 2	3	4	Targets	Program	
Source		Flow Line	Flow Line	Pit #6	Flow Line			
Time		4:15	21:30	13:30	16:30			
Depth	m	1,505	1,685	1,542	1,599			
FL Temp	Deg C	60	66	61	64			
Density @ Deg C	ppg	12.10 @ 57	12.10 @ 61	12.10 @ 58	12.00 @ 60		12.00	12.20
FV @ Deg C	sec/qt	76 @ 57	78 @ 61	78 @ 58	70 @ 60			
PV @ Deg C	cP	35 @ 49	35 @ 49	45 @ 49	46 @ 49			
YP	lbs/100 ft2	38	36	40	39			
GELS	lbs/100 ft2	10/17/19	14/19/19	17/19/19	16/18/19			
600/300		108.0/73.0	106.0/71.0	130.0/85.0	131.0/85.0			
200/100		59.0/41.0	56.0/39.0	67.0/47.0	67.0/47.0			
6/3		16.0/15.0	15.0/13.0	17.0/15.0	17.0/14.0			
NAP/Water Ratio		63.8/36.3	67.5/32.5	66.7/33.3	67.9/32.1			
HTHP @ Deg C	ml/30 min	4.2 @ 120	4.0 @ 120	2.4 @ 120	2.8 @ 120			
Cake API/HTHP	32nd in	-/1	-/1	-/1	-/1			
Corr Solid	% by Vol	16.5	17.5	17.2	17.0			
NAP/Water	% by Vol	51.0/29.0	54.0/26.0	54.0/27.0	55.0/26.0			
Sand	% by vol							
Alkalinity Pom	ml							
AgNO3	ml	3.20	2.20	1.80	2.00			
THTS	ml	4.20	2.50	3.20	3.40			
CaCl2	ppb	40.77	24.27	24.70	27.44			
NaCl(Sol/Insol)	ppb	3.30/-	6.23/-					
WPS	ppm	302,408	250,717	206,954	231,424			
Excess Lime	ppb							
Elec Stability	volt	590	574	573	596			
LGS/HGS	% by vol	4.7/11.7	4.7/12.8	3.5/13.7	4.0/12.9			
LGS/HGS	ppb	43.25/172.54	43.03/188.22	32.03/201.52	36.77/190.46			
ASG	SG	3.739	3.768	3.873	3.820			
Additional Properties								
Density at Flow Line	ppg	12.10	12.10	0.00	12.10			

Fluid Treatments

Fluid Type ACCOLADE

Added Calcium Chloride to active to increase WPS. Continue to mix premix.

Built 241 bbls premix for volume.

Added 0.1ppb No sulf H2S scavenger.
Added 1 sx each of Circal 60/16, Omyacarb 5 and Steel Seal per stand. Added Barite to active as necessary to maintain mud weight and added LE Supermul to active to ensure Barite oil wet.

Rig Activity

Continue to drill 13 1/2" hole from 1448m to 1720m with surveys.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	614.000		310.000	304.000	$116,569.30
ADAPTA HP	25 kg sack	66		26	40	$13,024.96
Tau Mod	50 lb sack	55		50	5	$4,793.00
BARAKLEAN PLUS	1054 l bulk	1.000		1.000		$4,622.14
barite	1000 kg bulk	170.000		8.700	161.300	$4,131.46
LE SUPERMUL	55 gal drum	8		3	5	$2,600.64
RHEMOD L	55 gal drum	7		1	6	$2,213.79
NO-SULF	17 kg pail	48		10	38	$1,181.20
Calcium chloride 94%	25 kg sack	160		80	80	$1,105.60
STEELSEAL	25 kg sack	120		11	109	$975.70
Circal 60/16	25 kg sack	276		51	225	$516.63
Omyacarb 5	25 kg bulk	240.000		54.000	186.000	$507.06
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	215 255	24.0
VSM-300	215 255	24.0
VSM-300	89	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	11.3
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base	170.0	Fluid Dumped	
Pipe Cap	57.7	Drill Water		Transferred	
Active Pits	272.0	Dewatering		SCE	-91.0
Total Hole	606.6	Sea Water		Evaporation	-28.0
Total Circ	878.6	Whole Mud	220.0	Trips	
Reserve	1050.0	Barite	13.0	Other	
Prev Vol	1822.5	Chemicals	25.4	Total Surface	
Net Change	236.9	Other		Downhole	-72.5
Total Vol	1928.6	Total	428.4	Total Losses	-191.5

Fluid Types	Vol bbl
Base Oil	222.0
brine	307.0

Deviation Information

Survey MD	1,404.6	m
Survey TVD	1,353.3	m
Angle	30.04	Deg
Direction	18	
Horiz Displ.	51.3	m

Daily Products Cost	$152,241.48	Total Daily Cost	$154,741.48
Cumulative Products Cost	$1,008,727.82	Total Cumulative Cost	$1,041,227.82

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 014

Daily Drilling Fluid Report

Date 07/02/2008		Depth 2,031.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500 in
Make/Type	REED/RSH616M-A3
Jets	3x18|3x16
TFA	1.335 sq-in
Jets Velocity	78.6 m/sec
Jet Impact Force	1721.0 lbf
Bit HHSI	3.12 hhp/in2
Press Drop @ Bit	712 psi
Bit Depth	1,754.0 m
ECD @ Csg Shoe	12.15 ppg
ECD @ Bit	12.07 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,570.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,276.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	90	0	90
gpm|bbl/min	538 | 12.80		538 | 12.80
Total GPM	1,075	AV, Riser 17.7	Circ Press psi 2400
Total Circ Time	36	AV min DP 40.5	Tot Pres Loss 7565
BU Time , min	21	AV max DC	Press Drop DP 6696
Total Strokes	6,531	BU Strokes 3,860	Press Drop An 20

Properties		1	2	3	Hyd 4	Targets		Program	
Source		Pit #6	Pit #6	Flow Line	Pit #6				
Time		11:30	16:30	4:30	21:30				
Depth	m	1,904	2,003	1,808	2,031				
FL Temp	Deg C	71	74	69	67				
Density @ Deg C	ppg	12.00 @ 60	11.90 @ 60	12.00 @ 60	12.00 @ 60			9.50	12.00
FV @ Deg C	sec/qt	74 @ 60	69 @ 60	71 @ 60	72 @ 60				
PV @ Deg C	cP	48 @ 49	49 @ 49	39 @ 49	38 @ 49	X	X		45
YP	lbs/100 ft2	43	42	36	34				
GELS	lbs/100 ft2	17/21/21	18/21/20	15/18/-	14/19/19				
600/300		139.0/91.0	140.0/91.0	114.0/75.0	110.0/72.0				
200/100		73.0/51.0	76.0/52.0	60.0/42.0	56.0/39.0				
6/3		17.0/15.0	18.0/15.0	15.0/13.0	15.0/13.0				
NAP/Water Ratio		70.0/30.0	70.0/30.0	68.8/31.3	70.0/30.0				
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/1	-/1	-/1	-/1				
Corr Solid	% by Vol	17.2	17.1	17.7	17.4				
NAP/Water	% by Vol	56.0/24.0	56.0/24.0	55.0/25.0	56.0/24.0				
Sand	% by vol								
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40	2.20	2.40				
THTS	ml	2.60	2.50	3.30	3.30				
CaCl2	ppb	25.24	24.27	30.18	32.03				
NaCl(Sol/Insol)	ppb	8.09/-	9.12/-		0.94/-				
WPS	ppm	283,783	284,097	256,211	281,581				
Excess Lime	ppb								
Elec Stability	volt	520	535	516	546				
LGS/HGS	% by vol	4.9/12.3	5.6/11.6	5.9/11.8	5.5/11.9				
LGS/HGS	ppb	44.60/180.88	50.63/170.60	53.69/174.30	50.33/175.51				
ASG	SG	3.744	3.682	3.668	3.693				
Additional Properties									
Density at Flow Line	ppg	12.10	12.00	12.00	12.00				

Fluid Treatments

Fluid Type ACCOLADE

Weighted 235bbl of premix with Barite to 10.6ppg to allow addition to active without reduction in mud weight.

Continue to add 1sx each Steel Seal, Circal 60/16 and Omyacarb 5 each stand and increased rate of addition to every 30 minutes as required.
Prepared 285bbl premix with Base Oil/Brine for volume. Prepared HW slug for POOH. No dynamic losses prior to POOH.

Upgraded shaker #4 to 145/215 mesh to aid solids control.

Rig Activity

Continue to drill 13 1/2" hole from 1720m to 1928m. Troubleshoot camera screen on cyberbase, circ and work string. Continue drilling 13 1/2" hole from 1928m to 2017m Troubleshoot top-drive problem. Continue to drill 13 1/2" hole from 2017m to 2031m. Circ hole clean, flow check and POOH wet 5 stands. Pump 30bbl slug and continue to POOH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	161.300		12.170	149.130	$5,779.29
LE SUPERMUL	55 gal drum	5		3	2	$2,600.64
STEELSEAL	25 kg sack	109		27	82	$2,394.90
Circal 60/16	25 kg sack	225		36	189	$364.68
Omyacarb 5	25 kg bulk	186.000		37.000	149.000	$347.43
NO-SULF	17 kg pail	38		1	37	$118.12
Tau Mod	50 lb sack	5		1	4	$95.86
lime	25 kg bag	6		2	4	$13.10
ACCOLADE BASE	1 bbl bulk	304.000			304.000	
ADAPTA HP	25 kg sack	40			40	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	21.0
VSM-300	215 255	21.0
VSM-300	215 255	21.0
VSM-300	145 215	21.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	5.0
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	7.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	548.9	Base		Fluid Dumped	
Pipe Cap	58.8	Drill Water		Transferred	
Active Pits	321.0	Dewatering		SCE	-102.0
Total Hole	607.8	Sea Water		Evaporation	-19.0
Total Circ	928.8	Whole Mud	272.0	Trips	
Reserve	911.0	Barite	18.2	Other	
Prev Vol	1928.6	Chemicals	10.8	Total Surface	
Net Change	88.3	Other		Downhole	-91.7
Total Vol	1839.8	Total	301.0	Total Losses	-212.7

Fluid Types	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0 m
Survey TVD	1,868.4 m
Angle	27.26 Deg
Direction	182
Horiz Displ.	129.6 m

Daily Products Cost	$11,714.02	Total Daily Cost	$14,214.02
Cumulative Products Cost	$1,020,441.84	Total Cumulative Cost	$1,055,441.84

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 015

Daily Drilling Fluid Report

Date 07/03/2008		Depth 2,047.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	SMITH/M516LSPX	
Jets	3x18|2x20	
TFA	1.359	sq-in
Jets Velocity	80.6	m/sec
Jet Impact Force	1844.2	lbf
Bit HHSI	3.43	hhp/in2
Press Drop @ Bit	749	psi
Bit Depth	2,047.0	m
ECD @ Csg Shoe	12.16	ppg
ECD @ Bit	12.22	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,863.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,282.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220		
Bore in	6.500	6.500	6.500		
Strokes in	14.000	14.000	14.000		
Eff(%)	99	99	99		
bbl/strk	0.142	0.142	0.142		
SPM	94	94	0		
gpm|bbl/min	561 13.37	561 13.37			
Total GPM	1,123	AV, Riser	18.5	Circ Press psi	3300
Total Circ Time	56	AV min DP	42.3	Tot Pres Loss	9343
BU Time , min	44	AV max DC	74.1	Press Drop DP	8374
Total Strokes	10,600	BU Strokes	8,198	Press Drop An	72

Properties		Hyd 1	2	3	4	Targets	Program	
Source		Pit #6	Pit #6					
Time		2:30	20:00					
Depth	m	2,031	2,031					
FL Temp	Deg C							
Density @ Deg C	ppg	12.00 @ 60	12.00 @ 30				9.50	12.00
FV @ Deg C	sec/qt	75 @ 60	126 @ 30					
PV @ Deg C	cP	38 @ 49	38 @ 49					45
YP	lbs/100 ft2	34	34					
GELS	lbs/100 ft2	14/19/19	14/19/19					
600/300		110.0/72.0	110.0/72.0					
200/100		56.0/39.0	56.0/39.0					
6/3		15.0/13.0	15.0/13.0					
NAP/Water Ratio		70.0/30.0	70.0/30.0					
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120					8.0
Cake API/HTHP	32nd in	-/1	-/1					
Corr Solid	% by Vol	17.4	17.4					
NAP/Water	% by Vol	56.0/24.0	56.0/24.0					
Sand	% by vol		0.20					
Alkalinity Pom	ml							
AgNO3	ml	2.40	2.40					
THTS	ml	3.30	3.30					
CaCl2	ppb	32.03	32.03					
NaCl(Sol/Insol)	ppb	0.94/-	0.94/-					
WPS	ppm	281,581	281,581					
Excess Lime	ppb							
Elec Stability	volt	546	546					
LGS/HGS	% by vol	5.5/11.9	5.5/11.9					
LGS/HGS	ppb	50.33/175.51	50.33/175.51					
ASG	SG	3.693	3.693					
Additional Properties								
Density at Flow Line	ppg	0.00	0.00					

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix premix in pit 7 for volume.

Base Oil Volumes:
Rig: 270bbl
Valkyrie: 635bbl
Battler: 440bbl

Rig Activity

Continue to POOH. Change bit and BHA. RIH and continue drilling 13 1/2" hole from 2031m to 2047m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	304.000		14.000	290.000	$5,264.42
ADAPTA HP	25 kg sack	40		8	32	$4,007.68
LE SUPERMUL	55 gal drum	2		1	1	$866.88
Tau Mod	50 lb sack	4		4		$383.44
Circal 60/16	25 kg sack	189		15	174	$151.95
Omyacarb 5	25 kg bulk	149.000		15.000	134.000	$140.85
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	149.130			149.130	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	215 255	24.0
VSM-300	215 255	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.0
Circulating	
Trips	22.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	2.0
ROP	8.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1165.8	Base	14.0	Fluid Dumped	
Pipe Cap	68.7	Drill Water		Transferred	
Active Pits	273.0	Dewatering		SCE	-4.0
Total Hole	1234.5	Sea Water		Evaporation	
Total Circ	1507.5	Whole Mud		Trips	-20.0
Reserve	940.0	Barite		Other	
Prev Vol	1839.8	Chemicals	4.5	Total Surface	
Net Change	-29.3	Other		Downhole	-23.9
Total Vol	2447.5	Total	18.5	Total Losses	-47.9

Fluid Types	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0	m
Survey TVD	1,868.4	m
Angle	27.26	Deg
Direction	182	
Horiz Displ.	129.6	m

Daily Products Cost	$10,815.22	Total Daily Cost	$13,315.22
Cumulative Products Cost	$1,031,257.06	Total Cumulative Cost	$1,068,757.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 016

Daily Drilling Fluid Report

Date 07/04/2008		Depth 2,405.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	SMITH/M516LSPX	
Jets	3x18|2x20	
TFA	1.359	sq-in
Jets Velocity	53.2	m/sec
Jet Impact Force	802.3	lbf
Bit HHSI	0.98	hhp/in2
Press Drop @ Bit	326	psi
Bit Depth	2,405.0	m
ECD @ Csg Shoe	12.15	ppg
ECD @ Bit	12.22	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,221.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,656.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	62	62
gpm|bbl/min		370 8.82	370 8.82

Total GPM	741	AV, Riser	12.2	Circ Press psi	2945
Total Circ Time	97	AV min DP	27.9	Tot Pres Loss	5456
BU Time , min	76	AV max DC	48.9	Press Drop DP	4973
Total Strokes	12,041	BU Strokes	9,448	Press Drop An	83

Properties		1	2	3	Hyd 4	Targets		Program	
Source		Flow Line	Flow Line	Flow Line	Pit #6				
Time		2:20	10:10	17:00	22:00				
Depth	m	2,140	2,347	2,405	2,405				
FL Temp	Deg C	67	70	70	70				
Density @ Deg C	ppg	12.00 @ 60	12.00 @ 60	12.00 @ 65	12.00 @ 65			9.50	12.00
FV @ Deg C	sec/qt	71 @ 60	78 @ 60	84 @ 65	78 @ 65				
PV @ Deg C	cP	41 @ 49	43 @ 49	41 @ 49	41 @ 49				45
YP	lbs/100 ft2	33	38	38	38				
GELS	lbs/100 ft2	15/19/19	16/19/20	16/19/19	16/19/19				
600/300		115.0/74.0	124.0/81.0	120.0/79.0	120.0/79.0				
200/100		58.0/40.0	62.0/44.0	60.0/42.0	62.0/42.0				
6/3		16.0/14.0	16.0/13.0	16.0/14.0	16.0/14.0				
NAP/Water Ratio		69.6/30.4	69.6/30.4	70.0/30.0	70.0/30.0				
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	4.0 @ 120	4.0 @ 120				8.0
Cake API/HTHP	32nd in		-/1	-/1	-/1				
Corr Solid	% by Vol	18.7	18.8	18.0	17.8				
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	56.0/24.0	56.0/24.0				
Sand	% by vol	1.00	0.50	0.50	0.50				
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.10	2.00	2.10				
THTS	ml	3.30	3.10	3.00	3.10				
CaCl2	ppb	30.18	28.81	27.44	28.81				
NaCl(Sol/Insol)	ppb								
WPS	ppm	264,068	255,127	245,966	255,127				
Excess Lime	ppb								
Elec Stability	volt	460	490	495	465				
LGS/HGS	% by vol	7.9/10.9	7.9/10.9	5.9/12.1	5.8/12.0				
LGS/HGS	ppb	71.61/159.89	72.19/160.68	53.49/177.88	52.94/177.05				
ASG	SG	3.528	3.527	3.677	3.679				
Additional Properties									
Density at Flow Line	ppg	12.00	12.00	12.00	12.05				

Fluid Treatments

Fluid Type ACCOLADE

Weight 250bbl premix to 12.0ppg to allow addition to active without reduction in mud weight. Increase in LGS indicative of damaged screens. Immediately checked all screens and replaced damaged screens. 4x280 mesh, 2x215 mesh.

Received: 75MT Barite.
460bbl Base Oil

Oil cutiings average: 8.68%

Rig Activity

Continue drilling 13 1/2" hole from 2047m to 2346m with surveys. Stop drilling due to leak between standpipe manifold and mud hose. Replace hose. Continue drilling 13 1/2" hole from from 2346m to 2405m. Repair leak on standpipe 1. Attempt to POOH 4 stands - no go, 25k overpull and swabbing. Rig up side entry sub and hoses to circulate. Continue to repair leak on standpipe while circulating.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	149.130	75.000	22.480	201.650	$10,675.30
ACCOLADE BASE	1 bbl bulk	290.000	640.000	20.000	910.000	$7,520.60
ADAPTA HP	25 kg sack	32			32	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	174			174	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	1			1	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	
OMC	55 gal drum	8			8	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	11.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	13.0
Other	
Total	24.0
Rotating	11.0
ROP	32.5
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1343.6	Base	20.0	Fluid Dumped	
Pipe Cap	80.7	Drill Water		Transferred	
Active Pits	288.0	Dewatering		SCE	-106.0
Total Hole	1424.3	Sea Water		Evaporation	
Total Circ	1712.3	Whole Mud		Trips	
Reserve	680.0	Barite	33.7	Other	
Prev Vol	2453.3	Chemicals		Total Surface	
Net Change	-61.0	Other		Downhole	-8.6
Total Vol	2392.3	Total	53.7	Total Losses	-114.6

Fluid Types	Vol bbl
brine	257.0

Deviation Information

Survey MD	1,998.0	m
Survey TVD	1,868.4	m
Angle	27.26	Deg
Direction	182	
Horiz Displ.	129.6	m

Daily Products Cost	$18,195.90	Total Daily Cost	$20,695.90
Cumulative Products Cost	$1,049,452.97	Total Cumulative Cost	$1,089,452.97

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 017

Daily Drilling Fluid Report

Date 07/05/2008		Depth 2,463.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	13.500	in
Make/Type	SMITH/M516LSPX	
Jets	3x18|2x20	
TFA	1.359	sq-in
Jets Velocity	80.6	m/sec
Jet Impact Force	1844.2	lbf
Bit HHSI	3.43	hhp/in2
Press Drop @ Bit	749	psi
Bit Depth	2,463.0	m
ECD @ Csg Shoe	12.17	ppg
ECD @ Bit	12.25	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,279.9
Drill Pipe	5.000	3.000	153.1
Drill Collar	8.313	4.000	30.0
Riser	22.000		96.0
Open Hole	13.500		1,685.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	99		99		99	
bbl/strk	0.142		0.142		0.142	
SPM	94		94		0	
gpm|bbl/min	561	13.37	561	13.37		
Total GPM	1,123	AV, Riser	18.5	Circ Press psi	3960	
Total Circ Time	63	AV min DP	42.3	Tot Pres Loss	11352	
BU Time , min	51	AV max DC	74.1	Press Drop DP	10353	
Total Strokes	11,931	BU Strokes	9,570	Press Drop An	98	

Properties		1	2	Hyd 3	4	Targets	Program	
Source		Pit #6	Flow Line	Flow Line				
Time		2:30	13:00	21:00				
Depth	m	2,405	2,433	2,434				
FL Temp	Deg C	70	70	70				
Density @ Deg C	ppg	12.00 @ 68	12.00 @ 70	12.00 @ 70			9.50	12.00
FV @ Deg C	sec/qt	71 @ 68	74 @ 70	74 @ 70				
PV @ Deg C	cP	38 @ 49	49 @ 49	45 @ 49		X		45
YP	lbs/100 ft2	38	41	37				
GELS	lbs/100 ft2	14/19/19	16/19/21	15/21/21				
600/300		114.0/76.0	139.0/90.0	127.0/82.0				
200/100		58.0/40.0	72.0/49.0	65.0/45.0				
6/3		15.0/13.0	16.0/14.0	16.0/14.0				
NAP/Water Ratio		70.0/30.0	70.0/30.0	70.0/30.0				
HTHP @ Deg C	ml/30 min	4.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/1	-/1	-/1				
Corr Solid	% by Vol	17.8	17.8	17.7				
NAP/Water	% by Vol	56.0/24.0	56.0/24.0	56.0/24.0				
Sand	% by vol	0.50	0.50	0.50				
Alkalinity Pom	ml							
AgNO3	ml	2.10	2.10	2.20				
THTS	ml	3.20	3.20	3.00				
CaCl2	ppb	28.81	28.81	29.12				
NaCl(Sol/Insol)	ppb			1.12/-				
WPS	ppm	255,127	255,127	264,401				
Excess Lime	ppb							
Elec Stability	volt	545	530	574				
LGS/HGS	% by vol	5.8/12.0	5.8/12.0	5.6/12.0				
LGS/HGS	ppb	52.94/177.05	52.94/177.05	51.43/177.14				
ASG	SG	3.679	3.679	3.689				
Additional Properties								
Density at Flow Line	ppg	12.05	12.00	12.05				

Fluid Treatments

Fluid Type ACCOLADE

Added Circal 60/16, Omyacarb 5 and Steel Seal to active while circulating during repairs to minimize seepage losses and maintain concentrations.

Prepare further 420bbl premix for volume if required or to be used on next hole section.

Recd chemicals on manifest WT-0068 OUT

Base Oil volumes:
Rig 626bbl
Valkyrie 81bbl
Battler 440bbl

Rig Activity

Continue to repair stand pipe. Continue drilling 13 1/2" hole from 2405m to 2434m. Circulate through cement hose and repair stand pipe manifold leak. Continue drilling 13 1/2" hole from 2434m to 2464m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	910.000		284.000	626.000	$106,792.52
STEELSEAL	25 kg sack	82	60	22	120	$1,951.40
LE SUPERMUL	55 gal drum	1	20	2	19	$1,733.76
Circal 60/16	25 kg sack	174		20	154	$202.60
Omyacarb 5	25 kg bulk	134.000		20.000	114.000	$187.80
ADAPTA HP	25 kg sack	32	120		152	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	201.650			201.650	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	286			286	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	2.5
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	21.5
Other	
Total	24.0
Rotating	2.5
ROP	23.2
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1361.0	Base	284.0	Fluid Dumped	
Pipe Cap	82.7	Drill Water		Transferred	-0.1
Active Pits	253.0	Dewatering		SCE	-18.0
Total Hole	1443.7	Sea Water		Evaporation	-23.0
Total Circ	1696.7	Whole Mud	82.1	Trips	
Reserve	972.0	Barite		Other	
Prev Vol	2392.3	Chemicals	6.9	Total Surface	
Net Change	286.7	Other		Downhole	-45.2
Total Vol	2668.7	Total	373.0	Total Losses	-86.3

Fluid Types	Vol bbl
brine	175.0

Deviation Information

Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$110,868.08	Total Daily Cost	$113,368.08
Cumulative Products Cost	$1,160,321.05	Total Cumulative Cost	$1,202,821.05

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 018

Daily Drilling Fluid Report

Date 07/06/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			
Total GPM	AV, Riser	Circ Press psi	
Total Circ Time	AV min DP	Tot Pres Loss	
BU Time , min	AV max DC	Press Drop DP	
Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program	
Source		Flow Line	Flow Line	Pit #6				
Time		4:30	8:00	20:00				
Depth	m	2,578	2,600	2,600				
FL Temp	Deg C	71	70					
Density @ Deg C	ppg	12.00 @ 70	12.00 @ 60	12.00 @ 45			9.50	12.00
FV @ Deg C	sec/qt	71 @ 70	63 @ 60	70 @ 45				
PV @ Deg C	cP	43 @ 49	40 @ 49	40 @ 49				45
YP	lbs/100 ft2	36	35	35				
GELS	lbs/100 ft2	15/20/20	15/19/20	15/19/19				
600/300		122.0/79.0	115.0/75.0	115.0/75.0				
200/100		62.0/43.0	57.0/40.0	57.0/40.0				
6/3		16.0/14.0	14.0/12.0	14.0/12.0				
NAP/Water Ratio		70.5/29.5	70.5/29.5	70.5/29.5				
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/1	-/2	-/1				
Corr Solid	% by Vol	19.5	19.7	19.7				
NAP/Water	% by Vol	55.0/23.0	55.0/23.0	55.0/23.0				
Sand	% by vol	0.75	0.50	0.50				
Alkalinity Pom	ml							
AgNO3	ml	2.30	2.10	2.10				
THTS	ml	3.00	2.60	2.60				
CaCl2	ppb	29.12	25.24	25.24				
NaCl(Sol/Insol)	ppb	2.56/-	3.76/-	3.76/-				
WPS	ppm	282,116	264,542	264,542				
Excess Lime	ppb							
Elec Stability	volt	570	550	547				
LGS/HGS	% by vol	9.5/10.0	9.5/10.1	9.5/10.1				
LGS/HGS	ppb	86.76/146.74	87.01/149.18	87.01/149.18				
ASG	SG	3.418	3.424	3.424				
Additional Properties								
Density at Flow Line	ppg	12.10	12.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix premix in pit 5. Weighted 200bbl premix to 12.0ppg with Barite to build volume prior to POOH for logging. LGS increase due to degasser pumping sand trap 1 into the active system on connections. Prepare HW slug x2 in slug pit for POOH. Weighting remaining premix with Barite to 12.0ppg.

Base Oil volumes:
Rig 596bbl
Valkyrie 81bbl
Battler 452bbl

Rig Activity

Continue drill 13 1/2" hole from 2464m to 2600m TD. Circ hole clean. POOH 10 stds wet. Pump HW slug. Continue to POOH from 2316m to 2049m, tight spot @2215m, 20k overpull. Cont to POOH from 2049m to 1741m Worked tight spots at 1888m, 1781m - 1752m, 1752m - 1727m. Unable to wipe @1741m. Circ and work string from 1752m to 1727m. Attempt to POOH on elevators from 1727m to 1715m, 20-25k overpull. Backream from 1727m to 1604m. POOH from 1604m to 1574m. Make up TDS and circ bottoms up. RIH from 1547m to 1781m, hole good. Continue to POOH to surface. Break bit and rack back BHA.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	201.650		49.410	152.240	$23,463.82
ACCOLADE BASE	1 bbl bulk	626.000		30.000	596.000	$11,280.90
ADAPTA HP	25 kg sack	152		14	138	$7,013.44
LE SUPERMUL	55 gal drum	19		6	13	$5,201.28
Tau Mod	50 lb sack		60	35	25	$3,355.10
Circal 60/16	25 kg sack	154		30	124	$303.90
Omyacarb 5	25 kg bulk	114.000		18.000	96.000	$169.02
Circal Y	25 kg sack	286		12	274	$153.60
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80			80	
calcium chloride flake 77%	25 kg bag	14			14	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 215	24.0
VSM-300	215 280	24.0
VSM-300	215 280	24.0
VSM-300	145 215	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	6.0
Circulating	2.5
Trips	14.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	1.5
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	7.5
ROP	22.8
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	30.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	213.0	Dewatering		SCE	-55.0
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	213.0	Whole Mud		Trips	-6.0
Reserve	792.0	Barite	74.0	Other	
Prev Vol	2679.2	Chemicals	15.8	Total Surface	
Net Change	25.3	Other		Downhole	-33.5
Total Vol	2704.3	Total	119.9	Total Losses	-94.5

Fluid Types	Vol bbl
brine	175.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$50,941.06	Total Daily Cost	$53,441.06
Cumulative Products Cost	$1,211,262.11	Total Cumulative Cost	$1,256,262.11

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 019

Daily Drilling Fluid Report

Date 07/07/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets			Program	
Source		Pit #6	Pit #6	Pit #6						
Time		3:00	12:00	21:30						
Depth	m	2,600	2,600	2,600						
FL Temp	Deg C									
Density @ Deg C	ppg	12.00 @ 40	12.10 @ 30	12.20 @ 18			X	X	9.50	12.00
FV @ Deg C	sec/qt	84 @ 40	90 @ 30	135 @ 18						
PV @ Deg C	cP	40 @ 49	37 @ 49	37 @ 49						45
YP	lbs/100 ft2	35	36	36						
GELS	lbs/100 ft2	15/19/19	15/19/19	14/19/19						
600/300		115.0/75.0	110.0/73.0	110.0/73.0						
200/100		57.0/40.0	60.0/42.0	60.0/42.0						
6/3		14.0/12.0	14.0/12.0	14.0/12.0						
NAP/Water Ratio		70.5/29.5	70.5/29.5	71.8/28.2						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	2.5 @ 120						8.0
Cake API/HTHP	32nd in	-/1	-/2	-/2						
Corr Solid	% by Vol	19.7	19.7	19.6						
NAP/Water	% by Vol	55.0/23.0	55.0/23.0	56.0/22.0						
Sand	% by vol	0.50	0.50	0.50						
Alkalinity Pom	ml									
AgNO3	ml	2.10	2.20	2.20						
THTS	ml	2.60	3.00	3.00						
CaCl2	ppb	25.24	29.12	29.12						
NaCl(Sol/Insol)	ppb	3.76/-	1.12/-	1.12/-						
WPS	ppm	264,542	272,761	281,667						
Excess Lime	ppb									
Elec Stability	volt	556	550	629						
LGS/HGS	% by vol	9.5/10.1	9.0/10.7	8.1/11.6						
LGS/HGS	ppb	87.01/149.18	81.76/157.39	73.55/170.43						
ASG	SG	3.424	3.470	3.543						
Additional Properties										
Density at Flow Line	ppg	0.00	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Dressed shakers with all 255/280 mesh for next hole section, 7x255 and 3x280 new screens used. Prepare 400bbl unweighted premix in pit 7 for next hole section. Average seepage losses while logging 0.5bbl/hr.

Received:
Part delivery of manifest WT-0069 OUT
79MT Barite

Base Oil volumes:
Rig 261bbl
Valkyrie 81bbl
Battler 452bbl

Rig Activity

Rig up Schluberger and run wire-line logs as per program.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	596.000		335.000	261.000	$125,970.05
LE SUPERMUL	55 gal drum	13		12	1	$10,402.56
ADAPTA HP	25 kg sack	138		17	121	$8,516.32
Tau Mod	50 lb sack	25		25		$2,396.50
RHEMOD L	55 gal drum	14		1	13	$2,213.79
barite	1000 kg bulk	152.240	79.320	2.350	229.210	$1,115.97
Circal 60/16	25 kg sack	124	48	45	127	$455.85
Omyacarb 5	25 kg bulk	96.000	96.000	35.000	157.000	$328.65
Circal Y	25 kg sack	274		15	259	$192.00
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	80	80		160	
calcium chloride flake 77%	25 kg bag	14			14	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	255 280	
VSM-300	255 280	
VSM-300	255 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	24.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	335.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	210.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	210.0	Whole Mud		Trips	
Reserve	1148.0	Barite	3.5	Other	
Prev Vol	2704.3	Chemicals	26.8	Total Surface	
Net Change	353.0	Other		Downhole	-12.3
Total Vol	3057.3	Total	365.3	Total Losses	-12.3

Fluid Types	Vol bbl
brine	175.0
Base Oil	69.0

Deviation Information

Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$151,591.69	Total Daily Cost	$154,091.69
Cumulative Products Cost	$1,362,853.79	Total Cumulative Cost	$1,410,353.79

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 020

Daily Drilling Fluid Report

Date 07/08/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets			Program	
Source		Pit #6	Pit #6	Pit #6						
Time		3:00	16:00	21:00						
Depth	m	2,600	2,600	2,600						
FL Temp	Deg C									
Density @ Deg C	ppg	12.20 @ 18	12.20 @ 18	12.20 @ 18		X	X	X	9.50	12.00
FV @ Deg C	sec/qt	135 @ 18	135 @ 18	135 @ 18						
PV @ Deg C	cP	37 @ 49	34 @ 49	34 @ 49						45
YP	lbs/100 ft2	36	29	29						
GELS	lbs/100 ft2	14/19/19	14/18/19	14/19/19						
600/300		110.0/73.0	97.0/63.0	97.0/63.0						
200/100		60.0/42.0	50.0/34.0	50.0/34.0						
6/3		14.0/12.0	13.0/11.0	13.0/11.0						
NAP/Water Ratio		70.5/29.5	72.5/27.5	72.5/27.5						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2						
Corr Solid	% by Vol	19.7	17.3	17.3						
NAP/Water	% by Vol	55.0/23.0	58.0/22.0	58.0/22.0						
Sand	% by vol	0.50	0.25	0.50						
Alkalinity Pom	ml									
AgNO3	ml	2.20	2.40	2.40						
THTS	ml	3.00	3.00	3.00						
CaCl2	ppb	29.12	29.12	29.12						
NaCl(Sol/Insol)	ppb	1.12/-	4.01/-	4.01/-						
WPS	ppm	272,761	300,493	300,493						
Excess Lime	ppb									
Elec Stability	volt	574	700	657						
LGS/HGS	% by vol	8.2/11.4	3.4/13.9	3.4/13.9						
LGS/HGS	ppb	74.94/168.42	31.36/203.98	31.36/203.98						
ASG	SG	3.531	3.882	3.882						
Additional Properties										
Density at Flow Line	ppg	0.00	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Continue to mix unweighted premix in pit 7.

Rig Activity

Continue wireline logging. Rig down Schlumberger and make up BHA for wiper trip.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Tau Mod	50 lb sack		30	17	13	$1,629.62
ACCOLADE BASE	1 bbl bulk	261.000			261.000	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	229.210			229.210	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	127			127	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	1			1	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	1.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	23.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	205.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	205.0	Whole Mud	90.0	Trips	
Reserve	1234.0	Barite		Other	
Prev Vol	3057.3	Chemicals	1.1	Total Surface	
Net Change	81.0	Other		Downhole	-10.1
Total Vol	3138.3	Total	91.1	Total Losses	-10.1

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$1,629.62	Total Daily Cost	$4,129.62
Cumulative Products Cost	$1,364,483.41	Total Cumulative Cost	$1,414,483.41

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 021

Daily Drilling Fluid Report

Date 07/09/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #6	Flow Line	Pit #6				
Time		2:00	15:00	20:00				
Depth	m	2,600	2,600	2,600				
FL Temp	Deg C		41					
Density @ Deg C	ppg	12.20 @ 18	12.10 @ 30	12.10 @ 24		X X X	9.50	12.00
FV @ Deg C	sec/qt	135 @ 18	96 @ 30	112 @ 24				
PV @ Deg C	cP	34 @ 49	46 @ 49	44 @ 49		X		45
YP	lbs/100 ft2	29	32	32				
GELS	lbs/100 ft2	14/19/19	15/19/20	15/19/19				
600/300		97.0/63.0	124.0/78.0	120.0/76.0				
200/100		50.0/34.0	61.0/42.0	59.0/40.0				
6/3		13.0/11.0	15.0/13.0	15.0/13.0				
NAP/Water Ratio		72.5/27.5	74.4/25.6	74.4/25.6				
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120				8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2				
Corr Solid	% by Vol	17.3	19.3	19.3				
NAP/Water	% by Vol	58.0/22.0	58.0/20.0	58.0/20.0				
Sand	% by vol	0.50	0.50	0.50				
Alkalinity Pom	ml							
AgNO3	ml	2.40	2.40	2.40				
THTS	ml	3.00	3.00	3.00				
CaCl2	ppb	29.12	29.12	29.12				
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-	4.01/-				
WPS	ppm	300,493	320,899	320,899				
Excess Lime	ppb							
Elec Stability	volt	684	500	476				
LGS/HGS	% by vol	3.4/13.9	8.1/11.2	8.1/11.2				
LGS/HGS	ppb	31.36/203.98	73.72/164.43	73.72/164.43				
ASG	SG	3.882	3.528	3.528				
Additional Properties								
Density at Flow Line	ppg	0.00	12.10	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH on wiper trip.

No evidence of Barite Sag monitored on bottoms up from wiper trip.

Rig Activity

Continue to make up BHA and RIH for wiper trip. Circ hole clean and POOH for wire-line log. Hole found to be in good condition with no evidence of Barite Sag.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	261.000		6.200	254.800	$2,331.39
barite	1000 kg bulk	229.210		4.380	224.830	$2,079.97
LE SUPERMUL	55 gal drum	1	20	1	20	$866.88
Circal 60/16	25 kg sack	127		5	122	$50.65
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160			160	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	8.0
VSM-300	255 280	8.0
VSM-300	255 280	8.0
VSM-300	255 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	22.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	342.0	Dewatering		SCE	-20.0
Total Hole	1699.3	Sea Water		Evaporation	-2.0
Total Circ	342.0	Whole Mud		Trips	-17.0
Reserve	1052.0	Barite	6.6	Other	
Prev Vol	3138.3	Chemicals	1.6	Total Surface	
Net Change	-45.0	Other		Downhole	-14.2
Total Vol	3093.3	Total	8.2	Total Losses	-53.2

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$5,328.89	Total Daily Cost	$7,828.89
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,422,312.30

Baroid Representatives	Brian Auckram	Tim Waldhuter	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 022

Daily Drilling Fluid Report

Date 07/10/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets			Program	
Source		Pit #6	Flow Line	Pit #6						
Time		2:00	12:00	22:00						
Depth	m	2,600	2,600	2,600						
FL Temp	Deg C									
Density @ Deg C	ppg	12.10 @ 20	12.10 @ 30	12.10 @ 20		X	X	X	9.50	12.00
FV @ Deg C	sec/qt	120 @ 20	150 @ 30	120 @ 20						
PV @ Deg C	cP	44 @ 49	46 @ 49	44 @ 49			X			45
YP	lbs/100 ft2	32	32	32						
GELS	lbs/100 ft2	15/19/19	15/19/20	15/19/20						
600/300		120.0/76.0	124.0/78.0	120.0/76.0						
200/100		59.0/40.0	61.0/42.0	60.0/41.0						
6/3		15.0/13.0	15.0/13.0	15.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	58.0/20.0						
Sand	% by vol	0.50	0.25	0.25						
Alkalinity Pom	ml									
AgNO3	ml	2.40	2.40	2.40						
THTS	ml	3.00	3.00	3.00						
CaCl2	ppb	29.12	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-	4.01/-						
WPS	ppm	320,899	320,899	320,899						
Excess Lime	ppb									
Elec Stability	volt	547	520	520						
LGS/HGS	% by vol	8.1/11.2	8.1/11.2	8.1/11.2						
LGS/HGS	ppb	73.72/164.43	73.72/164.43	73.72/164.43						
ASG	SG	3.528	3.528	3.528						
Additional Properties										
Density at Flow Line	ppg	0.00	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Flushed standpipe and lines with water/Baraklean, returns to slops pit.

Rig Activity

Continue to POOH. Rig up Schlumberger and run wire-line log. Test BOP. Power Failure - troubleshoot same. Monitoring well on trip tank, static.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	160	80		240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	122	96		218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	3.0
Logging	11.5
Dir Work	
Repair	7.5
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	253.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	253.0	Whole Mud		Trips	-24.0
Reserve	1105.0	Barite		Other	
Prev Vol	3093.3	Chemicals		Total Surface	
Net Change	-36.0	Other		Downhole	-12.0
Total Vol	3057.3	Total		Total Losses	-36.0

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,424,812.30

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 023

Daily Drilling Fluid Report

Date 07/11/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Repair rig	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m)			in Casing m			Circulation/Hydraulics Data			
		OD	ID	Length	OD	Set	MD				
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	99	99	99
Jets Velocity	m/sec							bbl/strk	0.142	0.142	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM		AV, Riser	Circ Press psi
Bit Depth 2,600.0	m	Riser	22.000	96.0				Total Circ Time		AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg	Open Hole	13.500	1,851.0				BU Time , min		AV max DC	Press Drop DP
ECD @ Bit	ppg							Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program		Fluid Treatments
Source		Pit #6	Pit #6							Fluid Type ACCOLADE
Time		12:00	22:00							Prepare and clean slug pit for cement displacement.
Depth	m	2,600	2,600							
FL Temp	Deg C									
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00	
FV @ Deg C	sec/qt	98 @ 20	100 @ 25							
PV @ Deg C	cP	46 @ 49	44 @ 49			X			45	
YP	lbs/100 ft2	32	45							
GELS	lbs/100 ft2	15/19/20	15/20/22							
600/300		124.0/78.0	133.0/89.0							
200/100		61.0/42.0	70.0/49.0							
6/3		15.0/13.0	17.0/14.0							
NAP/Water Ratio		74.4/25.6	74.4/25.6							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0	
Cake API/HTHP	32nd in	-/2	-/2							
Corr Solid	% by Vol	19.3	19.3							
NAP/Water	% by Vol	58.0/20.0	58.0/20.0							
Sand	% by vol	0.25	0.25							
Alkalinity Pom	ml									Rig Activity
AgNO3	ml	2.40	2.40							Troubleshoot power failures with engines. Perform general maintenance and cleaning whilst mechanic works on fuel injections on engines.
THTS	ml	3.00	3.00							
CaCl2	ppb	29.12	29.12							
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-							
WPS	ppm	320,899	320,899							
Excess Lime	ppb									
Elec Stability	volt	550	550							
LGS/HGS	% by vol	7.3/11.9	7.3/11.9							
LGS/HGS	ppb	66.90/175.45	66.90/175.45							
ASG	SG	3.590	3.590							
Additional Properties										
Density at Flow Line	ppg	0.00	0.00							

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment			
Shaker	Screens	Hrs	
VSM-300			
VSM-300			
VSM-300			
VSM-300			
Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		
Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time	
Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	24.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown		ACCOLADE			
Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	240.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	240.0	Whole Mud		Trips	
Reserve	1118.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3057.3	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information		
Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,427,312.30

Baroid Representatives Brian Auckram James Munford

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Baroid Fluid Services

Report No 024

Daily Drilling Fluid Report

Date 07/12/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		12:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	98 @ 25	100 @ 25						
PV @ Deg C	cP	44 @ 49	44 @ 49						45
YP	lbs/100 ft2	44	45						
GELS	lbs/100 ft2	15/20/22	15/20/22						
600/300		132.0/88.0	133.0/89.0						
200/100		69.0/50.0	70.0/49.0						
6/3		17.0/14.0	17.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	7.3/11.9	7.3/11.9						
LGS/HGS	ppb	66.90/175.45	66.90/175.45						
ASG	SG	3.590	3.590						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Prepare and clean slug pit for cement displacement.

Rig Activity

Cont. monitor hole on trip tank whilst waiting on rig engines. Jetting BOP retrieve wear bushing, cont. jetting wellhead. Make up cement head. Make up 10 3/4" casing running tool. Held JSA for rigging up 10 3/4" casing.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	224.830			224.830	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	7.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	17.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	220.0	Dewatering		SCE	
Total Hole	1699.3	Sea Water		Evaporation	
Total Circ	220.0	Whole Mud		Trips	
Reserve	1138.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3057.3	Total		Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,369,812.30	Total Cumulative Cost	$1,429,812.30

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 025

Daily Drilling Fluid Report

Date 07/13/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,324.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,324.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		12:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 25	12.20 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	100 @ 25	98 @ 25						
PV @ Deg C	cP	44 @ 49	44 @ 49						45
YP	lbs/100 ft2	45	44						
GELS	lbs/100 ft2	15/19/20	15/19/20						
600/300		133.0/89.0	132.0/88.0						
200/100		70.0/49.0	69.0/50.0						
6/3		17.0/14.0	17.0/14.0						
NAP/Water Ratio		74.4/25.6	74.4/25.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	19.3	19.3						
NAP/Water	% by Vol	58.0/20.0	58.0/20.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	7.3/11.9	7.3/11.9						
LGS/HGS	ppb	66.90/175.45	66.90/175.45						
ASG	SG	3.590	3.590						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Cont. rig up 10 3/4" casing equipment. Run casing into hole to 2328m as per casing tally, filling up each joint with mud.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	224.830		7.230	217.600	$3,433.38
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	23.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	1.0
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	683.0	Base		Fluid Dumped	
Pipe Cap	705.6	Drill Water	30.2	Transferred	
Active Pits	346.6	Dewatering		SCE	
Total Hole	1548.9	Sea Water		Evaporation	
Total Circ	1735.2	Whole Mud		Trips	
Reserve	1192.0	Barite		Other	
Prev Vol	3057.3	Chemicals		Total Surface	
Net Change	30.2	Other		Downhole	
Total Vol	3087.5	Total	30.2	Total Losses	

Fluid Types

	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$3,433.38	Total Daily Cost	$5,933.38
Cumulative Products Cost	$1,373,245.69	Total Cumulative Cost	$1,435,745.69

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 026

Daily Drilling Fluid Report

Date 07/14/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,538.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,538.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		15:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.15 @ 25	12.15 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	96 @ 25	98 @ 25						
PV @ Deg C	cP	46 @ 49	45 @ 49			X			45
YP	lbs/100 ft2	32	33						
GELS	lbs/100 ft2	15/19/20	15/19/20						
600/300		124.0/78.0	123.0/78.0						
200/100		61.0/42.0	62.0/41.0						
6/3		15.0/13.0	15.0/13.0						
NAP/Water Ratio		74.0/26.0	74.0/26.0						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	20.3	20.3						
NAP/Water	% by Vol	57.0/20.0	57.0/20.0						
Sand	% by vol	0.25	0.30						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.40						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	4.01/-						
WPS	ppm	320,899	320,899						
Excess Lime	ppb								
Elec Stability	volt	550	550						
LGS/HGS	% by vol	9.8/10.4	9.8/10.4						
LGS/HGS	ppb	89.56/153.56	89.56/153.56						
ASG	SG	3.424	3.424						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Pumped tuned spacer into active system.

Rig Activity

Cont. run 10 3/4" casing to 2498m. Circulate 150% casing volume at 57 spm. Held pjsm for cement job as per programme. Pumped 5 bbl water, followed by 50 bbl tuned spacer @ 12.5ppg. Observed pressure spike of 2700psi. Assess situation, drop ball, pump 3.5bbl in attempt to launch bottom plug. No pressure increase. Circulate @ 71spm, bumped plug. Release casing handling equipment. Make up 9 1/2" BHA, RIH to 358m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
barite	1000 kg bulk	217.600			217.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	3.5
Rig	
Surveys	
Fishing	
Run Casing	18.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	728.5	Base		Fluid Dumped	
Pipe Cap	770.5	Drill Water	69.6	Transferred	
Active Pits	380.0	Dewatering		SCE	
Total Hole	1535.1	Sea Water		Evaporation	
Total Circ	1879.0	Whole Mud		Trips	
Reserve	1242.0	Barite		Other	
Prev Vol	3087.5	Chemicals		Total Surface	
Net Change	69.6	Other		Downhole	
Total Vol	3157.1	Total	69.6	Total Losses	

Fluid Types	Vol bbl
Base Oil	69.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,373,245.69	Total Cumulative Cost	$1,438,245.69

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 027

Daily Drilling Fluid Report

Date 07/15/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	10.750	in
Make/Type	CASING/10 3/4" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Collar	10.750	9.760	2,600.0
Riser	22.000		96.0
Open Hole	13.500		1,851.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Flow Line	Pit #5						
Time		14:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 30	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	133 @ 25	130 @ 25						
PV @ Deg C	cP	34 @ 49	32 @ 49						45
YP	lbs/100 ft2	29	31						
GELS	lbs/100 ft2	13/17/18	13/17/18						
600/300		97.0/63.0	95.0/63.0						
200/100		50.0/34.0	50.0/34.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.3	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.20						
THTS	ml	2.80	3.10						
CaCl2	ppb	27.18	30.09						
NaCl(Sol/Insol)	ppb	6.05/-	0.10/-						
WPS	ppm	283,156	264,070						
Excess Lime	ppb								
Elec Stability	volt	490	490						
LGS/HGS	% by vol	12.8/8.5	13.4/8.3						
LGS/HGS	ppb	116.39/124.89	122.47/121.86						
ASG	SG	3.239	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Made and pumped 14.5 ppg slug for tripping out of hole.

Rig Activity

Cont. RIH from 358m to 2550m filling pipe every 20 stds. Break circulation at 2550m and establish parameters. Tap plug @ 2566m. Drill out top, bottom plugs and float. Work string through, clean out shoe track to top of shoe, drill out 10 3/4" casing shoe from 2590m and tag bottom @ 2600m. Circulate hole clean. Flow check, POOH. Make up cementing equipment. RIH with 2 7/8" tail pipe on 5 1/2" DP, RIH to 769m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	217.600		4.400	213.200	$2,089.47
ACCOLADE BASE	1 bbl bulk	254.800			254.800	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	47			47	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	5.5
Circulating	1.5
Trips	17.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	5.5
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	741.7	Base		Fluid Dumped	
Pipe Cap	789.4	Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1531.0	Sea Water		Evaporation	
Total Circ	1531.0	Whole Mud		Trips	-16.6
Reserve		Barite	6.6	Other	-2.0
Prev Vol	3157.1	Chemicals		Total Surface	
Net Change	-12.0	Other		Downhole	
Total Vol	1531.0	Total	6.6	Total Losses	-18.6

Fluid Types Vol bbl

Deviation Information

Survey MD	2,413.6	m
Survey TVD	2,221.8	m
Angle	37.7	Deg
Direction	183	
Horiz Displ.	191.8	m

Daily Products Cost	$2,089.47	Total Daily Cost	$4,589.47
Cumulative Products Cost	$1,375,335.16	Total Cumulative Cost	$1,442,835.16

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 028

Daily Drilling Fluid Report

Date 07/16/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	HOC/RTTS PKR	
Jets	1x12	
TFA	0.110	sq-in
Jets Velocity	301.9	m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,499.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,499.0
Riser	22.000		96.0
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	57	0	0
gpm|bbl/min	340	8.11	
Total GPM	340	AV, Riser 5.6	Circ Press psi
Total Circ Time	121	AV min DP 39.1	Tot Pres Loss
BU Time , min	77	AV max DC	Press Drop DP
Total Strokes	6,897	BU Strokes 4,407	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		11:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.15 @ 30	12.15 @ 30			X	X	9.50	12.00
FV @ Deg C	sec/qt	126 @ 30	125 @ 30						
PV @ Deg C	cP	50 @ 49	44 @ 49			X			45
YP	lbs/100 ft2	30	31						
GELS	lbs/100 ft2	13/19/21	13/18/20						
600/300		130.0/80.0	119.0/75.0						
200/100		60.0/40.0	54.0/36.0						
6/3		14.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	4.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.3	21.5						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.40	2.30						
THTS	ml	3.00	3.00						
CaCl2	ppb	29.12	29.12						
NaCl(Sol/Insol)	ppb	4.01/-	2.56/-						
WPS	ppm	282,526	273,577						
Excess Lime	ppb								
Elec Stability	volt	450	400					300	600
LGS/HGS	% by vol	12.6/8.8	12.8/8.7						
LGS/HGS	ppb	114.61/128.87	116.41/128.52						
ASG	SG	3.257	3.250						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Made water based Hi Vis spacer for riser displacement

Rig Activity

Cont. RIH from 769m to 2350m. Remove diverter packer inserts. Make up wear bushing retrival tool, retreive same. Make up RTTS packer, RIH and set @ 140m. Circ. bottom up @ 2490m. Unseat RTTS, pick up cementing equipment. Pump 200 bbl 13.5ppg cement. Displaced cement with SBM. Monitor hole whist waiting on cement. Attempt to bleed off pressure below TIW, unable to open valve. Attempt below TIW with pressure bled, no success. Closed annular, pumped 350 psi @ backside. Unseat RTTS with 60k overpull.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	254.800		25.500	229.300	$9,588.77
BARAZAN D PLUS	25 kg bag	47		2	45	$304.48
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
barite	1000 kg bulk	213.200			213.200	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	6.5
Rig	
Surveys	
Fishing	
Run Casing	7.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	8.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	626.8	Base	17.5	Fluid Dumped	
Pipe Cap	84.1	Drill Water		Transferred	
Active Pits	270.0	Dewatering		SCE	
Total Hole	746.3	Sea Water		Evaporation	
Total Circ	980.9	Whole Mud		Trips	
Reserve	1744.0	Barite		Other	-362.4
Prev Vol	1531.0	Chemicals		Total Surface	-40.0
Net Change	-384.9	Other		Downhole	
Total Vol	2760.3	Total	17.5	Total Losses	-402.4

Fluid Types	Vol bbl
Base Oil	77.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$9,893.25	Total Daily Cost	$12,393.25
Cumulative Products Cost	$1,385,228.40	Total Cumulative Cost	$1,455,228.40

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 029

Daily Drilling Fluid Report

Date 07/17/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Nipple down B.O.P.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		14:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	125 @ 25	123 @ 25						
PV @ Deg C	cP	45 @ 49	43 @ 49						45
YP	lbs/100 ft2	32	34						
GELS	lbs/100 ft2	13/18/20	13/18/21						
600/300		122.0/77.0	120.0/77.0						
200/100		60.0/40.0	55.0/36.0						
6/3		14.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.00	3.10						
CaCl2	ppb	29.12	30.09						
NaCl(Sol/Insol)	ppb	1.12/-	0.10/-						
WPS	ppm	264,401	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.3/8.3	13.4/8.3						
LGS/HGS	ppb	121.61/122.66	122.47/121.86						
ASG	SG	3.215	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

NOTE: Actual Volume is 150 bbl more due to displacement and Volumetric adjustments to balance volumes.

Rig Activity

Perform 10min flow check & TOOH 149m with RTTS, L/O some tail pipe @2350m. Cont. TOOH from 2350m to 917m, pumped 30bbl slug @ 1422m. M/U assay running tool, RIH & set assy @95.19m. Release Cameron wellhead running tool. TIH with RTTS with storm valve to 155m. Set RTTS, pumped 50 bbl spacer, displaced hole from 150m to surface with SW. Nipple down BOP.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	213.200		11.940	201.260	$5,670.07
ACCOLADE BASE	1 bbl bulk	229.300		10.000	219.300	$3,760.30
BARAZAN D PLUS	25 kg bag	45		3	42	$456.72
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	10.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	8.0
Logging	
Dir Work	
Repair	
Other	5.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	10.0	Fluid Dumped	
Pipe Cap		Drill Water	29.8	Transferred	
Active Pits	366.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	366.0	Whole Mud		Trips	
Reserve	1687.0	Barite	17.9	Other	
Prev Vol	2760.3	Chemicals		Total Surface	
Net Change	57.7	Other		Downhole	
Total Vol	2817.9	Total	57.7	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	85.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$9,887.09	Total Daily Cost	$12,387.09
Cumulative Products Cost	$1,395,115.49	Total Cumulative Cost	$1,467,615.49

Baroid Representatives	Brian Auckram	James Munford	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 030

Daily Drilling Fluid Report

Date 07/18/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wellhead Operations	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	99	99	99
Jets Velocity	m/sec							bbl/strk	0.142	0.142	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM		AV, Riser	Circ Press psi
Bit Depth 2,600.0	m	Open Hole	13.500	17.0				Total Circ Time		AV min DP	Tot Pres Loss
ECD @ Csg Shoe	ppg							BU Time , min		AV max DC	Press Drop DP
ECD @ Bit	ppg							Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program		Fluid Treatments
Source		Pit #5	Pit #5							Fluid Type ACCOLADE
Time		14:00	22:00							
Depth	m	2,600	2,600							
FL Temp	Deg C									
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00	
FV @ Deg C	sec/qt	122 @ 25	123 @ 25							
PV @ Deg C	cP	45 @ 49	43 @ 49						45	
YP	lbs/100 ft2	32	35							
GELS	lbs/100 ft2	13/18/20	13/18/20							
600/300		122.0/77.0	121.0/78.0							
200/100		60.0/40.0	58.0/40.0							
6/3		13.0/11.0	13.0/11.0							
NAP/Water Ratio		68.4/31.6	68.4/31.6							
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0	
Cake API/HTHP	32nd in	-/2	-/2							
Corr Solid	% by Vol	21.8	21.7							
NAP/Water	% by Vol	52.0/24.0	52.0/24.0							
Sand	% by vol	0.25	0.25							
Alkalinity Pom	ml									
AgNO3	ml	2.10	2.20							
THTS	ml	3.10	3.10							
CaCl2	ppb	28.81	30.09							
NaCl(Sol/Insol)	ppb		0.10/-							
WPS	ppm	255,127	264,070							
Excess Lime	ppb									
Elec Stability	volt	400	400					300	600	
LGS/HGS	% by vol	13.5/8.3	13.4/8.3							
LGS/HGS	ppb	123.12/122.57	122.47/121.86							
ASG	SG	3.210	3.210							
Additional Properties										
Density at Flow Line	ppg	0.00	0.00							

Rig Activity

Removed BOP work platform, set under cantilever. Make up clutch type running tool. Remove CTU. Layout 22" riser. Skid Rig approx. 25'. Lowered H4 connector to main deck.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	219.300		18.000	201.300	$6,768.54
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time	
Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	18.0	Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2817.9	Chemicals		Total Surface	
Net Change	18.0	Other		Downhole	
Total Vol	2835.9	Total	18.0	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$6,768.54	Total Daily Cost	$9,268.54
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,476,884.03

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 031

Daily Drilling Fluid Report

Date 07/19/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Installing Subsea Tree	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #5						
Time		22:00	14:30						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	122 @ 25						
PV @ Deg C	cP	44 @ 49	43 @ 49						45
YP	lbs/100 ft2	34	35						
GELS	lbs/100 ft2	13/19/20	13/18/20						
600/300		122.0/78.0	121.0/78.0						
200/100		60.0/40.0	58.0/40.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25							
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.10						
CaCl2	ppb	30.09	30.09						
NaCl(Sol/Insol)	ppb	0.10/-	0.10/-						
WPS	ppm	264,070	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.4/8.3	13.4/8.3						
LGS/HGS	ppb	122.47/121.86	122.47/121.86						
ASG	SG	3.210	3.210						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Skid out cantilever. Remove tension deck stairs & raise, set back tension deck. Skid cantilever in line with subsea tree. Pick up subsea tree, weight 142k. Skid the rig to 25', lowered subsea tree below the hull. Skid the transverse to well center. Skid rig forward to reach the string to clamp umbilical cord. Lowered tree to 90m on HWDP. Skid rig to well center. ROV not functioning, troubleshoot. Jumped ROV into water, removed debris cover. Skid the rig, position tree over the wellbore.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300			201.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2835.9	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,479,384.03

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 032

Daily Drilling Fluid Report

Date 07/20/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Run 22" Riser	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #5	Pit #5						
Time		12:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	120 @ 25	123 @ 25						
PV @ Deg C	cP	45 @ 49	44 @ 49						45
YP	lbs/100 ft2	32	33						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		122.0/77.0	121.0/77.0						
200/100		58.0/43.0	59.0/43.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.00						
CaCl2	ppb	30.09	29.12						
NaCl(Sol/Insol)	ppb	0.10/-	1.12/-						
WPS	ppm	264,070	264,401						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.4/8.3	13.3/8.3						
LGS/HGS	ppb	122.47/121.86	121.61/122.66						
ASG	SG	3.210	3.215						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Lowered tree onto wellhead. Lock SST D&W hydraulic connector. Wellhead take 50k overpull. Cameron pressure test vx gasket 5000psi. Skid rig and pick up lower stress joints. Fold tension deck down. Make up, torque and run 22" riser with umbilical strapped.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300			201.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	384.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	384.0	Whole Mud		Trips	
Reserve	1687.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2835.9	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	77.0
brine	169.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,401,884.03	Total Cumulative Cost	$1,481,884.03

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 033

Daily Drilling Fluid Report

Date 07/21/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wait on Weather	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #5	Flow Line						
Time		12:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	120 @ 25						
PV @ Deg C	cP	43 @ 49	45 @ 49						45
YP	lbs/100 ft2	34	32						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		120.0/77.0	122.0/77.0						
200/100		58.0/37.0	59.0/35.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	22.0	22.0						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.00	2.00						
THTS	ml	3.00	3.00						
CaCl2	ppb	27.44	27.44						
NaCl(Sol/Insol)	ppb								
WPS	ppm	245,966	245,966						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.6/8.4	13.6/8.4						
LGS/HGS	ppb	123.67/123.39	123.67/123.39						
ASG	SG	3.211	3.211						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Received 368 bbl of ACCOLADE base oil from boat.

Note: Water addition to Accolade is from emptying Tasman Oil tools Mud-Vacs, Accolade charged is a balance of figures.

Rig Activity

Cont. run 22" riser. Change out handling equipment. Land out riser on to tree. Set down and lock with 90k overpull. Fill riser with seawater with fluoresent dye. Lower CTU into position. Suspend operations due to rough weather. Wait on weather, wind speed 50-55 knots.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	201.300	368.000	17.000	552.300	$6,392.51
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	17.0	Fluid Dumped	
Pipe Cap		Drill Water	20.0	Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1745.0	Barite		Other	
Prev Vol	2835.9	Chemicals		Total Surface	
Net Change	37.0	Other		Downhole	
Total Vol	2872.9	Total	37.0	Total Losses	

Fluid Types	Vol bbl
Base Oil	77.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$6,392.51	Total Daily Cost	$8,892.51
Cumulative Products Cost	$1,408,276.54	Total Cumulative Cost	$1,490,776.54

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 034

Daily Drilling Fluid Report

Date 07/22/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Nipple up B.O.P.	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #5	Pit #5						
Time		12:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25			X	X	9.50	12.00
FV @ Deg C	sec/qt	122 @ 25	121 @ 25						
PV @ Deg C	cP	45 @ 49	43 @ 49						45
YP	lbs/100 ft2	32	34						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		122.0/77.0	120.0/77.0						
200/100		60.0/40.0	55.0/36.0						
6/3		13.0/11.0	13.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	22.0	21.1						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.00	3.00						
THTS	ml	3.00	2.00						
CaCl2	ppb	27.44	19.41						
NaCl(Sol/Insol)	ppb		13.13/9.77						
WPS	ppm	245,966	278,930						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	13.6/8.4	12.2/8.9						
LGS/HGS	ppb	123.67/123.39	111.40/130.57						
ASG	SG	3.211	3.273						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Wait on weather, wind speeds 33-39 knots, sea state 3.5m. Wind & Sea acceptable, call in stand by boat. Install CTU. Install clexton clamp, torque same tensioned CTU 72 bar. Release clutch type running tool. Nipple up 18 5/8" BOP. Test BOP connection against shear rams. Install overshot & diverter packer. Nipple choke line.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	552.300		330.000	222.300	$124,089.90
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	0.5
Logging	
Dir Work	
Repair	
Other	23.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water	10.0	Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1755.0	Barite		Other	
Prev Vol	2872.9	Chemicals		Total Surface	
Net Change	10.0	Other		Downhole	
Total Vol	2882.9	Total	10.0	Total Losses	

Fluid Types

	Vol bbl
Base Oil	407.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$124,089.90	Total Daily Cost	$126,589.90
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,617,366.44

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 035

Daily Drilling Fluid Report

Date 07/23/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Moussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,600.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #5						
Time		8:00	22:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 20	12.20 @ 20			X	X	9.50	12.00
FV @ Deg C	sec/qt	128 @ 20	125 @ 20						
PV @ Deg C	cP	45 @ 49	45 @ 49						45
YP	lbs/100 ft2	32	33						
GELS	lbs/100 ft2	13/18/20	13/18/20						
600/300		122.0/77.0	123.0/78.0						
200/100		61.0/41.0	61.0/42.0						
6/3		14.0/11.0	14.0/11.0						
NAP/Water Ratio		68.4/31.6	68.4/31.6						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	52.0/24.0						
Sand	% by vol		0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.10						
CaCl2	ppb	30.09	30.09						
NaCl(Sol/Insol)	ppb	0.10/-	0.10/-						
WPS	ppm	264,070	264,070						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	12.7/9.0	12.7/9.0						
LGS/HGS	ppb	115.64/132.88	115.64/132.88						
ASG	SG	3.265	3.265						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

Base Oil		Brine	
Rig	37m3	Rig	-
Battler	116m3	Battler	-
Valkyrie	13m3	Valkyrie	50m3

Rig Activity

Cont. hook up choke line, change saver sub. Attempt to remove dolly roller, no success. Slip on 90ft of drill line. Remove pipe handler, lowered dolly. Replace rollers and bearings. Slip & cut 90ft drilling line. Calibrate travelling block settings. Make up RTTS retrieving tool to retrieve RTTS packer and cement string.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	222.300			222.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	0.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	15.5
Other	8.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	363.0	Dewatering		SCE	
Total Hole	764.9	Sea Water		Evaporation	
Total Circ	363.0	Whole Mud		Trips	
Reserve	1755.0	Barite		Other	
Prev Vol	2882.9	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2882.9	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	407.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,619,866.44

Baroid Representatives	Eugene Edwards	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 036

Daily Drilling Fluid Report

Date 07/24/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	SMITH/M716PXC
Jets	7x16
TFA	1.374 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,220.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,005.0
Drill Pipe	5.500	3.250	180.9
Drill Collar	6.750	2.813	34.1
Riser	20.500		96.0
Open Hole	13.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM		AV, Riser	Circ Press psi
Total Circ Time		AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets		Program	
Source		Pit #6	Pit #6						
Time		3:00	20:00						
Depth	m	2,600	2,600						
FL Temp	Deg C								
Density @ Deg C	ppg	12.20 @ 20	12.20 @ 20			X	X	9.50	12.00
FV @ Deg C	sec/qt	125 @ 20	125 @ 20						
PV @ Deg C	cP	45 @ 49	45 @ 49						45
YP	lbs/100 ft2	33	33						
GELS	lbs/100 ft2	13/18/20	15/18/20						
600/300		123.0/78.0	123.0/78.0						
200/100		61.0/42.0	61.0/42.0						
6/3		14.0/11.0	14.0/11.0						
NAP/Water Ratio		68.4/31.6	71.1/28.9						
HTHP @ Deg C	ml/30 min	3.0 @ 120	3.0 @ 120						8.0
Cake API/HTHP	32nd in	-/2	-/2						
Corr Solid	% by Vol	21.7	21.7						
NAP/Water	% by Vol	52.0/24.0	54.0/22.0						
Sand	% by vol	0.25	0.25						
Alkalinity Pom	ml								
AgNO3	ml	2.20	2.20						
THTS	ml	3.10	3.20						
CaCl2	ppb	30.09	30.18						
NaCl(Sol/Insol)	ppb	0.10/-							
WPS	ppm	264,070	281,320						
Excess Lime	ppb								
Elec Stability	volt	400	400					300	600
LGS/HGS	% by vol	12.7/9.0	12.4/9.3						
LGS/HGS	ppb	115.64/132.88	112.98/136.81						
ASG	SG	3.265	3.286						
Additional Properties									
Density at Flow Line	ppg	0.00	0.00						

Fluid Treatments

Fluid Type ACCOLADE

RIH to 153m and displace water from hole with SBM.

Base Oil:		Brine:	
Rig	314bbl	Rig	181bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	314bbl

Rig Activity

Pressure test BOP. Change wash-pipe. Make up 9 1/2" BHA and RIH to 153m. Displace water from hole with SBM. Continue to RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	222.300	92.000		314.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	201.260			201.260	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	0.5
Trips	9.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	14.0
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	345.7	Base		Fluid Dumped	
Pipe Cap	41.0	Drill Water	52.4	Transferred	
Active Pits	474.0	Dewatering		SCE	
Total Hole	810.3	Sea Water		Evaporation	
Total Circ	860.6	Whole Mud	108.0	Trips	
Reserve	1759.0	Barite		Other	
Prev Vol	2882.9	Chemicals		Total Surface	
Net Change	160.4	Other		Downhole	
Total Vol	3043.3	Total	160.4	Total Losses	

Fluid Types	Vol bbl
Base Oil	299.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,532,366.44	Total Cumulative Cost	$1,622,366.44
Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 037

Daily Drilling Fluid Report

Date 07/25/2008		Depth 2,819.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	SMITH/M716PXC
Jets	7x16
TFA	1.374 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	845.6 lbf
Bit HHSI	2.14 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	2,819.0 m
ECD @ Csg Shoe	12.80 ppg
ECD @ Bit	12.78 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,604.0
Drill Pipe	5.500	3.250	180.9
Drill Collar	6.750	2.813	34.1
Riser	19.000		96.0
Open Hole	13.500		236.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	64	64	0
gpm|bbl/min	382 | 9.10	382 | 9.10	
Total GPM	765	AV, Riser 17.3	Circ Press psi 3113
Total Circ Time	66	AV min DP 37.6	Tot Pres Loss 6985
BU Time , min	39	AV max DC 41.8	Press Drop DP 6235
Total Strokes	8,401	BU Strokes 5,048	Press Drop An 330

Properties		1	2	Hyd 3	4
Source		Pit #6	Pit #6	Flow Line	Pit #6
Time		7:00	14:00	22:20	3:00
Depth	m	2,600	2,642	2,790	2,600
FL Temp	Deg C		110	57	
Density @ Deg C	ppg	12.20 @ 20	12.00 @ 20	12.00 @ 40	12.20 @ 20
FV @ Deg C	sec/qt	125 @ 20	108 @ 20	85 @ 40	128 @ 20
PV @ Deg C	cP	44 @ 49	37 @ 49	42 @ 49	45 @ 49
YP	lbs/100 ft2	34	21	36	33
GELS	lbs/100 ft2	13/18/21	12/18/21	15/18/21	13/18/20
600/300		122.0/78.0	95.0/58.0	120.0/78.0	123.0/78.0
200/100		61.0/42.0	44.0/29.0	58.0/39.0	61.0/42.0
6/3		13.0/11.0	10.0/8.0	13.0/11.0	14.0/11.0
NAP/Water Ratio		68.4/31.6	67.1/32.9	67.9/32.1	68.4/31.6
HTHP @ Deg C	ml/30 min	3.0 @ 120	2.0 @ 120	2.0 @ 120	3.0 @ 120
Cake API/HTHP	32nd in		-/2	-/2	-/2
Corr Solid	% by Vol	21.7	18.8	18.0	21.7
NAP/Water	% by Vol	52.0/24.0	53.0/26.0	53.0/25.0	52.0/24.0
Sand	% by vol			0.25	0.25
Alkalinity Pom	ml				
AgNO3	ml	2.20	2.00	3.60	2.20
THTS	ml	3.10	2.50	5.50	3.10
CaCl2	ppb	30.09	24.27	49.39	30.09
NaCl(Sol/Insol)	ppb	0.10/-	3.34/-		0.10/-
WPS	ppm	264,070	232,486	360,481	264,070
Excess Lime	ppb				
Elec Stability	volt	400	397	417	400
LGS/HGS	% by vol	12.7/9.0	8.0/10.9	8.9/9.0	12.7/9.0
LGS/HGS	ppb	115.64/132.88	72.45/160.36	81.55/132.98	115.64/132.88
ASG	SG	3.265	3.525	3.404	3.265
Additional Properties					
Density at Flow Line	ppg	0.00	12.00	12.00	0.00
ECD from PWD	ppg		12.57	12.69	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Initial mud weights while drilling cement 11.4ppg to 13.2ppg, due to barite sag from 10 days no circulating. Bled in 8.7ppg premix and dusted in barite to even mud weight 11.9+ppg for FIT.

Added 0.7ppb TauMod to active to maintain rheology.
Fined Up screens to 280 mesh, running 3 shakers only. Centrifuge shut down at 18.00 hours due to cuttings discharge chute blockage. Offlined for 5 hours while unblocking/cleaning.

Rig Activity

Continue to RIH. Tag cement at 2551m. Drill out cement and shoe track. Drill 3m new hole and conduct FIT. Drill 9 1/2" hole to 2818m at time of report.

Base Oil:		Brine:	
Rig	308bbl	Rig	181bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	314bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	201.260		8.660	192.600	$4,112.46
ACCOLADE BASE	1 bbl bulk	314.300		6.000	308.300	$2,256.18
Tau Mod	50 lb sack	43		13	30	$1,246.18
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	89 89	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	8.0
Centrifuge	3,000	40.00	8.0

Time

Drilling	14.0
Circulating	1.0
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.0
Total	24.0
Rotating	14.0
ROP	15.6
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	717.9	Base		Fluid Dumped	
Pipe Cap	94.8	Drill Water		Transferred	
Active Pits	382.0	Dewatering		SCE	-68.0
Total Hole	812.7	Sea Water		Evaporation	-0.5
Total Circ	1194.7	Whole Mud		Trips	
Reserve	1794.0	Barite	13.0	Other	
Prev Vol	3043.3	Chemicals	0.9	Total Surface	
Net Change	-54.7	Other		Downhole	
Total Vol	2988.7	Total	13.8	Total Losses	-68.5

Fluid Types	Vol bbl
Base Oil	299.0
brine	181.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$7,614.82	Total Daily Cost	$10,114.82
Cumulative Products Cost	$1,539,981.26	Total Cumulative Cost	$1,632,481.26

Baroid Representatives Eugene Edwards Tim Waldhuter
Office 90 Talinga Rd Melbourne Telephone 61-03-9581-7555
Warehouse c/o of Esso Australia Ltd Telephone 61-3-56-881-445

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Baroid Fluid Services

Report No 038

Daily Drilling Fluid Report

Date 07/26/2008		Depth 2,841.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	HTC/BHC-406	
Jets		
TFA	0.750	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,061.7
Drill Pipe	5.500	3.250	181.3
Drill Collar	6.500	2.813	56.1
Drill Collar	6.760	5.378	68.9
Riser	19.000		96.0
Open Hole	13.500		258.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		3:00	20:00				
Depth	m	2,841	2,841				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 40	12.00 @ 20				
FV @ Deg C	sec/qt	83 @ 40	86 @ 20				
PV @ Deg C	cP	42 @ 49	43 @ 49				
YP	lbs/100 ft2	37	35				
GELS	lbs/100 ft2	15/18/21	14/18/21				
600/300		121.0/79.0	121.0/78.0				
200/100		61.0/40.0	61.0/40.0				
6/3		13.0/11.0	13.0/12.0				
NAP/Water Ratio		67.9/32.1	67.9/32.1				
HTHP @ Deg C	ml/30 min	2.0 @ 120	2.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/1				
Corr Solid	% by Vol	18.4	18.6				
NAP/Water	% by Vol	53.0/25.0	53.0/25.0				
Sand	% by vol	0.25					
Alkalinity Pom	ml						
AgNO3	ml	3.30	3.10				
THTS	ml	4.80	4.60				
CaCl2	ppb	45.28	42.53				
NaCl(Sol/Insol)	ppb						
WPS	ppm	340,675	326,775				
Excess Lime	ppb						
Elec Stability	volt	408	400				
LGS/HGS	% by vol	9.2/9.1	9.4/9.2				
LGS/HGS	ppb	84.24/134.41	85.91/135.48				
ASG	SG	3.395	3.390				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH.

Recieved approx. 289bbl brine from Ocean Valkyrie.

Base Oil:		Brine:	
Rig	303bbl	Rig	470bbl
Battler	729bbl	Battler	748bbl
Valkyrie	-	Valkyrie	-

Rig Activity

Continue drilling 9 1/2" hole from 2818m to 2841m. Circulate hole clean. POOH pumping and logging while tripping. Lay out BHA. Make up 9 1/2" coring BHA and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	192.600		4.100	188.500	$1,947.01
ACCOLADE BASE	1 bbl bulk	308.300			308.300	
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	20			20	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	89 89	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	3.0
Circulating	
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	3.0
ROP	7.3
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	557.3	Base		Fluid Dumped	
Pipe Cap	83.4	Drill Water		Transferred	
Active Pits	397.0	Dewatering		SCE	-4.0
Total Hole	855.9	Sea Water		Evaporation	
Total Circ	1037.8	Whole Mud		Trips	
Reserve	1736.0	Barite	6.1	Other	
Prev Vol	2988.7	Chemicals		Total Surface	
Net Change	0.2	Other		Downhole	-1.9
Total Vol	2988.9	Total	6.1	Total Losses	-5.9

Fluid Types	Vol bbl
brine	470.0
Base Oil	299.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$1,947.01	Total Daily Cost	$4,447.01
Cumulative Products Cost	$1,541,928.27	Total Cumulative Cost	$1,636,928.27

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 039

Daily Drilling Fluid Report

Date 07/27/2008		Depth 2,896.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in	
Make/Type		
Jets		
TFA	sq-in	
Jets Velocity	m/sec	
Jet Impact Force	lbf	
Bit HHSI	hhp/in2	
Press Drop @ Bit	psi	
Bit Depth	m	
ECD @ Csg Shoe	ppg	
ECD @ Bit	ppg	

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		313.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	0	38	0
gpm|bbl/min		227	5.40

Total GPM	227	AV, Riser	Circ Press psi
Total Circ Time	64	AV min DP	Tot Pres Loss
BU Time , min		AV max DC	Press Drop DP
Total Strokes	2,433	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Flow Line	Flow Line	Pit #6	
Time		3:00	6:20	23:00	
Depth	m	2,849	2,896	2,895	
FL Temp	Deg C	48	50		
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 25	12.15 @ 20	
FV @ Deg C	sec/qt	120 @ 30	84 @ 25	128 @ 20	
PV @ Deg C	cP	44 @ 49	48 @ 49	45 @ 49	
YP	lbs/100 ft2	29	19	20	
GELS	lbs/100 ft2	12/15/18	12/15/18	12/15/18	
600/300		117.0/73.0	115.0/67.0	110.0/65.0	
200/100		53.0/32.0	50.0/34.0	49.0/34.0	
6/3		11.0/10.0	11.0/8.0	11.0/8.0	
NAP/Water Ratio		69.2/30.8	68.8/31.2	69.2/30.8	
HTHP @ Deg C	ml/30 min	3.5 @ 120	4.0 @ 120	4.0 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	18.5	20.7	19.6	
NAP/Water	% by Vol	54.0/24.0	53.0/24.0	54.0/24.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	3.20	2.20	2.30	
THTS	ml	4.60	4.00	4.00	
CaCl2	ppb	43.90	30.18	31.56	
NaCl(Sol/Insol)	ppb				
WPS	ppm	342,936	264,068	272,796	
Excess Lime	ppb				
Elec Stability	volt	309	331	328	
LGS/HGS	% by vol	9.2/9.3	11.3/9.4	8.8/10.8	
LGS/HGS	ppb	83.46/137.19	103.29/138.15	80.02/159.28	
ASG	SG	3.407	3.325	3.483	
Additional Properties					
Density at Flow Line	ppg	12.05	12.15	12.15	
ECD from PWD	ppg	0.00	0.00	0.00	

Targets / Program

Fluid Treatments

Fluid Type ACCOLADE

Checked and replaced damaged screens. New screens used 4 x 280 mesh. Discarded 2x280 mesh screens.

Dresssed shaker #1 with 255mesh, for drilling next interval. Intended to run centrifuge while coring, in barite recovery mode, to reduce LGS, overboard discharge line blocked after 20 minutes operation resulting in insufficient operation to reduce LGS.
Added to the active, 0.1ppb Rheomod-L to maintain rheology and 0.2 ppb LE Supermul to improve ES.

Rig Activity

Continue to RIH. Cut core from 2841m to 2895m. POOH and lay out coring assembly. Make up 9 1/2" BHA.

	Base Oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	20		4	16	$3,467.52
RHEMOD L	55 gal drum	13		1	12	$2,213.79
ACCOLADE BASE	1 bbl bulk	308.300		5.000	303.300	$1,880.15
ADAPTA HP	25 kg sack	121			121	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	188.500			188.500	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	1.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	1.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	4.0
Circulating	
Trips	19.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	1.0
Other	
Total	24.0
Rotating	4.0
ROP	13.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	346.0	Dewatering		SCE	
Total Hole	955.5	Sea Water		Evaporation	
Total Circ	346.0	Whole Mud		Trips	
Reserve	1694.0	Barite		Other	
Prev Vol	2988.9	Chemicals	6.5	Total Surface	
Net Change	6.5	Other		Downhole	
Total Vol	2995.5	Total	6.5	Total Losses	

Fluid Types

	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$7,561.46	Total Daily Cost	$10,061.46
Cumulative Products Cost	$1,549,489.73	Total Cumulative Cost	$1,646,989.73

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 040

Daily Drilling Fluid Report

Date 07/28/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	SMITH/M716PXC
Jets	7x16
TFA	1.374 sq-in
Jets Velocity	51.5 m/sec
Jet Impact Force	761.8 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	306 psi
Bit Depth	2,480.0 m
ECD @ Csg Shoe	12.77 ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,271.0
Drill Pipe	5.500	3.250	181.3
Drill Collar	6.750	2.813	27.7
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	62	62	0
gpm|bbl/min	363 | 8.64	363 | 8.64	
Total GPM	726	AV, Riser 16.4	Circ Press psi 2800
Total Circ Time	62	AV min DP 83.4	Tot Pres Loss 5758
BU Time , min	34	AV max DC 109.1	Press Drop DP 5069
Total Strokes	7,724	BU Strokes 4,191	Press Drop An 308

Properties		1	2	3	Hyd 4
Source		Pit #6	Pit #6	Pit #6	Flow Line
Time		2:00	11:45	14:10	21:30
Depth	m	2,895	2,896	2,960	2,987
FL Temp	Deg C			53	59
Density @ Deg C	ppg	12.15 @ 20	12.00 @ 20	12.10 @ 20	12.00 @ 45
FV @ Deg C	sec/qt	128 @ 20	110 @ 20	95 @ 20	78 @ 45
PV @ Deg C	cP	40 @ 49	40 @ 49	42 @ 49	44 @ 49
YP	lbs/100 ft2	22	26	36	32
GELS	lbs/100 ft2	12/16/18	13/17/19	13/17/20	15/18/21
600/300		102.0/62.0	106.0/66.0	120.0/78.0	120.0/76.0
200/100		49.0/30.0	50.0/31.0	52.0/37.0	59.0/41.0
6/3		11.0/8.0	12.0/8.0	13.0/11.0	14.0/12.0
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.2/30.8	69.6/30.4
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120	4.0 @ 120	4.0 @ 120
Cake API/HTHP	32nd in	-/2	-/2	-/2	-/2
Corr Solid	% by Vol	18.0	18.6	19.7	18.7
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	54.0/24.0	55.0/24.0
Sand	% by vol	0.25			
Alkalinity Pom	ml				
AgNO3	ml	2.80	2.30	2.20	2.20
THTS	ml	4.80	3.80	3.60	3.20
CaCl2	ppb	38.42	31.56	30.18	30.18
NaCl(Sol/Insol)	ppb				
WPS	ppm	313,508	272,796	264,068	264,068
Excess Lime	ppb				
Elec Stability	volt	431	360	398	510
LGS/HGS	% by vol	6.3/11.7	7.8/10.8	9.2/10.5	7.9/10.9
LGS/HGS	ppb	57.26/172.31	71.00/159.13	84.04/154.53	71.61/159.89
ASG	SG	3.641	3.530	3.452	3.528
Additional Properties					
Density at Flow Line	ppg	0.00	12.10	12.20	12.00
ECD from PWD	ppg	0.00	0.00	12.80	12.70

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Added 1ppb Le Supermul to premix pits 1 and 2. Added 1.2 ppb Le Supermul, 0.3ppb Tau Mod and 0.3ppb Adapta to active to maintain mud properties.

Dusted in Barite to active to maintain mud weight 12.0ppg while drilling rat hole. Prepared HW slug for POOH.

Run centrifuge in barite recovery mode to reduce LGS.

Rig Activity

Continue to make up 9 1/2" BHA and RIH. Was down and log from 2620m to 2637m. RIH from 2637m to 2841m. Ream cored section from 2841m to 2896m. Continue drilling 9 1/2" hole from 2896m to 2987m, survey every connection. Circ hole clean. Flow check and POOH.

	Base oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	16		12	4	$10,402.56
BARAKLEAN PLUS	1054 l bulk	1.000		1.000		$4,622.14
barite	1000 kg bulk	188.500		6.360	182.140	$3,020.24
ADAPTA HP	25 kg sack	121		6	115	$3,005.76
Tau Mod	50 lb sack	30		6	24	$575.16
ACCOLADE BASE	1 bbl bulk	303.300			303.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	280 280	18.0
VSM-300	280 280	18.0
VSM-300	280 280	18.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	9.0
Centrifuge	3,000	40.00	9.0

Time

Drilling	11.0
Circulating	0.5
Trips	10.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	2.0
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	13.0
ROP	8.3
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	584.0	Base		Fluid Dumped	
Pipe Cap	83.3	Drill Water		Transferred	
Active Pits	409.0	Dewatering		SCE	-60.0
Total Hole	814.8	Sea Water		Evaporation	-16.0
Total Circ	1076.3	Whole Mud		Trips	
Reserve	1704.0	Barite	9.5	Other	
Prev Vol	2995.5	Chemicals	17.0	Total Surface	
Net Change	-67.8	Other		Downhole	-18.3
Total Vol	2927.8	Total	26.6	Total Losses	-94.3

Fluid Types	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$21,625.86	Total Daily Cost	$24,125.86
Cumulative Products Cost	$1,571,115.59	Total Cumulative Cost	$1,671,115.59

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 041

Daily Drilling Fluid Report

Date 07/29/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Wire Line logs	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		2:30	14:00	22:00			
Depth	m	2,987	2,987	2,987			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 40	12.10 @ 32	12.20 @ 26			
FV @ Deg C	sec/qt	83 @ 40	102 @ 32	130 @ 26			
PV @ Deg C	cP	44 @ 49	45 @ 49	36 @ 49			
YP	lbs/100 ft2	32	31	31			
GELS	lbs/100 ft2	15/18/21	14/18/21	13/16/19			
600/300		120.0/76.0	121.0/76.0	103.0/67.0			
200/100		59.0/41.0	60.0/40.0	50.0/34.0			
6/3		14.0/12.0	14.0/12.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	18.8	19.0	18.8			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.00	2.10			
THTS	ml	3.10	3.10	3.20			
CaCl2	ppb	28.81	27.44	28.81			
NaCl(Sol/Insol)	ppb						
WPS	ppm	255,127	245,966	255,127			
Excess Lime	ppb						
Elec Stability	volt	507	498	491			
LGS/HGS	% by vol	7.9/10.9	7.2/11.7	6.4/12.4			
LGS/HGS	ppb	72.19/160.68	65.92/172.52	58.55/182.72			
ASG	SG	3.527	3.589	3.654			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Added premix weighted to 12.0ppg to maintain volume.

	Base Oil:	Brine:
Rig	303bbl	470bbl
Battler	729bbl	748bbl
Valkyrie	-	-

Rig Activity

Continue to POOH for wire-line logging. Rig up Shlumberger and run log #1.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	182.140		1.000	181.140	$474.88
ACCOLADE BASE	1 bbl bulk	303.300			303.300	
ADAPTA HP	25 kg sack	115			115	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	218			218	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	4			4	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	
OMC	55 gal drum	8			8	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	19.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water	29.2	Transferred	
Active Pits	335.0	Dewatering		SCE	
Total Hole	981.7	Sea Water		Evaporation	
Total Circ	335.0	Whole Mud		Trips	
Reserve	1642.0	Barite	1.5	Other	
Prev Vol	2927.8	Chemicals		Total Surface	
Net Change	30.7	Other		Downhole	
Total Vol	2958.7	Total	30.7	Total Losses	

Fluid Types

	Vol bbl
Base Oil	299.0
brine	470.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$474.88	Total Daily Cost	$2,974.88
Cumulative Products Cost	$1,571,590.47	Total Cumulative Cost	$1,674,090.47

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 042

Daily Drilling Fluid Report

Date 07/30/2008		Depth 2,987.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,987.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		404.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		2:00	11:00	20:00			
Depth	m	2,987	2,987	2,987			
FL Temp	Deg C						
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 20	12.20 @ 20			
FV @ Deg C	sec/qt	130 @ 22	132 @ 20	132 @ 20			
PV @ Deg C	cP	36 @ 49	36 @ 49	36 @ 49			
YP	lbs/100 ft2	31	32	33			
GELS	lbs/100 ft2	13/16/19	13/16/18	13/16/18			
600/300		103.0/67.0	104.0/68.0	105.0/69.0			
200/100		50.0/34.0	51.0/36.0	51.0/37.0			
6/3		13.0/11.0	14.0/12.0	14.0/12.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	18.8	18.8	18.8			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.10			
THTS	ml	3.20	3.20	3.20			
CaCl2	ppb	28.81	28.81	28.81			
NaCl(Sol/Insol)	ppb						
WPS	ppm	255,127	255,127	255,127			
Excess Lime	ppb						
Elec Stability	volt	493	481	490			
LGS/HGS	% by vol	6.4/12.4	6.4/12.4	6.4/12.4			
LGS/HGS	ppb	58.55/182.72	58.55/182.72	58.55/182.72			
ASG	SG	3.654	3.654	3.654			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Built additional premix using 70 bbls from slops pit.
Cleaned slug pit and mixed cementers tuned spacer.

Received 754bbl Base Oil and 716bbl Brine from Ocean Battler.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to run log #1. Lay out tools. Make up tools and run log #2. Lay out tools and rig down Shlumberger. Make up cement stinger and RIH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	303.300	754.000	287.000	770.300	$107,920.61
ADAPTA HP	25 kg sack	115		12	103	$6,011.52
LE SUPERMUL	55 gal drum	4		4		$3,467.52
RHEMOD L	55 gal drum	12		1	11	$2,213.79
Tau Mod	50 lb sack	24		7	17	$671.02
Circal 60/16	25 kg sack	218		14	204	$141.82
Omyacarb 5	25 kg bulk	205.000		13.000	192.000	$122.07
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	181.140			181.140	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240			240	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	18.0
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	347.5	Dewatering		SCE	
Total Hole	981.7	Sea Water		Evaporation	
Total Circ	347.5	Whole Mud	159.0	Trips	
Reserve	1799.0	Barite		Other	
Prev Vol	2958.7	Chemicals	10.4	Total Surface	
Net Change	169.4	Other		Downhole	
Total Vol	3128.2	Total	169.4	Total Losses	

Fluid Types	Vol bbl
Base Oil	427.0
brine	1186.0

Deviation Information

Survey MD	2,970.5 m
Survey TVD	2,593.1 m
Angle	45.1 Deg
Direction	185
Horiz Displ.	377.4 m

Daily Products Cost	$120,548.35	Total Daily Cost	$123,048.35
Cumulative Products Cost	$1,692,138.82	Total Cumulative Cost	$1,797,138.82

Baroid Representatives	Eugene Edwards	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 043

Daily Drilling Fluid Report

Date 07/31/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	2.875	in
Make/Type	DUMMY/2 7/8 Open End	
Jets		
TFA	1.500	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	283.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	118.0
Drill Pipe	2.875	2.441	165.0
Riser	19.000		96.0
Open Hole	9.500		

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program	
Source		Pit #6	Pit #3	Pit #6				
Time		2:30	16:00	21:00				
Depth	m	2,987	2,987	2,987				
FL Temp	Deg C							
Density @ Deg C	ppg	12.20 @ 20	9.50 @ 25	12.00 @ 36		X	9.50	12.00
FV @ Deg C	sec/qt	132 @ 20	100 @ 25	110 @ 36				
PV @ Deg C	cP	36 @ 49	70 @ 49	37 @ 49		X		45
YP	lbs/100 ft2	33	35	36				
GELS	lbs/100 ft2	13/16/18	9/15/23	12/18/21				
600/300		105.0/69.0	175.0/105.0	110.0/73.0				
200/100		51.0/37.0	77.0/47.0	50.0/32.0				
6/3		14.0/12.0	11.0/8.0	12.0/10.0				
NAP/Water Ratio		69.6/30.4	32.6/67.4	67.5/32.5				
HTHP @ Deg C	ml/30 min	4.0 @ 120		5.0 @ 120				8.0
Cake API/HTHP	32nd in	-/2		-/2				
Corr Solid	% by Vol	18.8	6.2	18.0				
NAP/Water	% by Vol	55.0/24.0	30.0/62.0	54.0/26.0				
Sand	% by vol		0.10					
Alkalinity Pom	ml							
AgNO3	ml	2.10	1.20	2.00				
THTS	ml	3.10	0.35	2.90				
CaCl2	ppb	28.81	3.40	27.44				
NaCl(Sol/Insol)	ppb		13.76/-					
WPS	ppm	255,127	73,162	231,424				
Excess Lime	ppb							
Elec Stability	volt	492	12	310		X	300	600
LGS/HGS	% by vol	6.4/12.4	2.4/3.8	6.1/11.8				
LGS/HGS	ppb	58.55/182.72	22.00/56.22	56.02/174.09				
ASG	SG	3.654	3.580	3.653				
Additional Properties								
Density at Flow Line	ppg	0.00	0.00	0.00				
ECD from PWD	ppg	0.00	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

N.B. Mud check #2 for slops pit (Pit #3), not indicative of active mud properties.

Prepare HW slug with Barite for POOH. Rec'd LE Supermul, Tau Mod, Baraklean and Calcium Chloride from Ocean Battler.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to RIH with cement stinger to 253m. Power failure due to loss of engine. Continue to RIH from 253m to 785m. Loss of engine, power failure. Continue to RIH from 785m to 2591m. Unable to continue RIH with 2 engines in open hole. Work on engines. Continue to RIH from 2591m to 2858m. Pump cement plugs as per programmed. POOH from 2858m to 2681m. Circ hole clean. Continue to POOH.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	770.300		21.000	749.300	$7,896.63
barite	1000 kg bulk	181.140		5.930	175.210	$2,816.04
ADAPTA HP	25 kg sack	103			103	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk		1.000		1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	240	80		320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum		32		32	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.0
Trips	13.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	5.5
Other	3.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	150.9	Base		Fluid Dumped	
Pipe Cap	7.1	Drill Water		Transferred	
Active Pits	374.0	Dewatering		SCE	
Total Hole	856.3	Sea Water		Evaporation	
Total Circ	532.0	Whole Mud		Trips	
Reserve	1851.0	Barite	2.2	Other	-44.3
Prev Vol	3128.2	Chemicals		Total Surface	
Net Change	-42.1	Other		Downhole	
Total Vol	3081.3	Total	2.2	Total Losses	-44.3

Fluid Types	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$10,712.67	Total Daily Cost	$13,212.67
Cumulative Products Cost	$1,702,851.49	Total Cumulative Cost	$1,810,351.49

Baroid Representatives	Brian Auckram	Tim Waldhuter	
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Baroid Fluid Services

Report No 044

Daily Drilling Fluid Report

Date 08/01/2008		Depth 2,600.0 m	
Spud Date 06/20/2008		Rig Activity Wait on weather	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,443.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	1,228.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		17.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM | AV, Riser | Circ Press psi
Total Circ Time | AV min DP | Tot Pres Loss
BU Time , min | AV max DC | Press Drop DP
Total Strokes | BU Strokes | Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:00	20:00				
Depth	m	2,600	2,600				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 32	12.00 @ 24				
FV @ Deg C	sec/qt	118 @ 32	123 @ 24				
PV @ Deg C	cP	38 @ 49	37 @ 49				
YP	lbs/100 ft2	36	36				
GELS	lbs/100 ft2	12/18/21	12/18/21				
600/300		112.0/74.0	110.0/73.0				
200/100		49.0/33.0	50.0/34.0				
6/3		12.0/10.0	13.0/11.0				
NAP/Water Ratio		67.5/32.5	67.5/32.5				
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	18.0	17.9				
NAP/Water	% by Vol	54.0/26.0	54.0/26.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10				
THTS	ml	2.90	3.00				
CaCl2	ppb	27.44	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	231,424	240,216				
Excess Lime	ppb						
Elec Stability	volt	307	304				
LGS/HGS	% by vol	6.1/11.8	6.1/11.8				
LGS/HGS	ppb	56.02/174.09	55.53/173.21				
ASG	SG	3.653	3.654				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare chemicals and check shakers for next hole section.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to POOH and lay out 2 7/8" cement stinger. Make up 9 1/2" BHA and RIH to 214m Shallow test MWD tools. Continue RIH from 214m to 293m picking up drillpipe from deck. Change burst hose on iron roughneck. Continue to RIH picking up drill pipe from 293m to 1246m. Rig service. Install oil cooler fan and motor to top drive. Commence RIH with stands from 1246m to 1452m. Wait on weather.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ADAPTA HP	25 kg sack	103			103	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	175.210			175.210	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	32			32	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	15.5
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	3.0
Other	4.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	373.0	Base		Fluid Dumped	
Pipe Cap	48.3	Drill Water		Transferred	
Active Pits	448.0	Dewatering		SCE	
Total Hole	772.3	Sea Water		Evaporation	
Total Circ	869.3	Whole Mud		Trips	
Reserve	1865.9	Barite		Other	
Prev Vol	3086.1	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	3086.2	Total		Total Losses	

Fluid Types

	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,702,851.49	Total Cumulative Cost	$1,812,851.49

Baroid Representatives Brian Auckram Tim Waldhuter
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Baroid Fluid Services

Report No 045

Daily Drilling Fluid Report

Date 08/02/2008		Depth 2,719.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED/RSR616M-B3	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	54.3	m/sec
Jet Impact Force	724.9	lbf
Bit HHSI	1.83	hhp/in2
Press Drop @ Bit	340	psi
Bit Depth	2,712.0	m
ECD @ Csg Shoe	12.74	ppg
ECD @ Bit	12.77	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,497.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		129.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	56	0	56
gpm|bbl/min	328 | 7.80		328 | 7.80

Total GPM	655	AV, Riser	14.8	Circ Press psi	2481
Total Circ Time	72	AV min DP	75.3	Tot Pres Loss	5499
BU Time , min	40	AV max DC	109.6	Press Drop DP	4778
Total Strokes	8,079	BU Strokes	4,513	Press Drop An	317

Properties		1	2	Hyd 3	4
Source		Pit #6	Flow Line	Flow Line	
Time		2:30	16:00	21:20	
Depth	m	2,600	2,702	2,714	
FL Temp	Deg C		36	59	
Density @ Deg C	ppg	12.10 @ 24	12.10 @ 25	12.00 @ 48	
FV @ Deg C	sec/qt	125 @ 24	86 @ 25	92 @ 48	
PV @ Deg C	cP	37 @ 49	47 @ 49	45 @ 49	
YP	lbs/100 ft2	36	24	30	
GELS	lbs/100 ft2	12/18/21	10/19/26	15/21/26	
600/300		110.0/73.0	118.0/71.0	120.0/75.0	
200/100		50.0/34.0	54.0/35.0	59.0/39.0	
6/3		13.0/11.0	12.0/10.0	14.0/12.0	
NAP/Water Ratio		67.5/32.5	68.8/31.3	70.0/30.0	
HTHP @ Deg C	ml/30 min	5.0 @ 120	4.0 @ 120	4.0 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	17.9	18.0	17.8	
NAP/Water	% by Vol	54.0/26.0	55.0/25.0	56.0/24.0	
Sand	% by vol				
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.00	2.10	
THTS	ml	3.00	2.80	2.90	
CaCl2	ppb	28.81	27.18	28.15	
NaCl(Sol/Insol)	ppb		0.27/-	0.70/-	
WPS	ppm	240,216	238,538	255,329	
Excess Lime	ppb				
Elec Stability	volt	310	480	640	
LGS/HGS	% by vol	5.3/12.5	5.2/12.7	5.7/12.1	
LGS/HGS	ppb	48.70/184.23	47.71/187.21	52.36/177.61	
ASG	SG	3.721	3.733	3.684	
Additional Properties					
Density at Flow Line	ppg	12.10	12.10	12.00	
ECD from PWD	ppg	12.70	12.78	12.73	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Added Barite to active as required to maintain mud weight 12.0ppg. Added 1.6ppb LE Supermul, 0.4ppb Tau Mod and 0.3ppb Adadpta to active to maintain mud properties. Adding premix at 10.0ppg to maintain volume and mud weight. Checked shaker screens regularly and replaced damaged screens as required.

Base Oil:		Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Rig Activity

Continue to wait on weather. Continue to RIH. Tag kick off plug at 2690m. Clean out cement from 2690m to 2693m. Drill out cement from 2693m to 2696m, ream several times to cut ledge to sidetrack. Time drill from 2696m to 2719m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	32		6	26	$5,201.28
ADAPTA HP	25 kg sack	103		6	97	$3,005.76
barite	1000 kg bulk	175.210		6.270	168.940	$2,977.50
Tau Mod	50 lb sack	107		8	99	$766.88
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	4.0
VSM-300	280 280	16.0
VSM-300	280 280	16.0
VSM-300	280 280	16.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	13.0
Circulating	
Trips	3.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	7.5
Total	24.0
Rotating	13.0
ROP	9.2
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	628.8	Base		Fluid Dumped	
Pipe Cap	91.0	Drill Water		Transferred	
Active Pits	406.0	Dewatering		SCE	-6.0
Total Hole	719.8	Sea Water		Evaporation	-12.0
Total Circ	1125.8	Whole Mud		Trips	
Reserve	1959.0	Barite	9.4	Other	
Prev Vol	3086.2	Chemicals	9.3	Total Surface	
Net Change	0.7	Other		Downhole	
Total Vol	3084.8	Total	18.7	Total Losses	-18.0

Fluid Types

	Vol bbl
Base Oil	448.0
brine	1186.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$11,951.42	Total Daily Cost	$14,451.42
Cumulative Products Cost	$1,714,802.90	Total Cumulative Cost	$1,827,302.90

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 046

Daily Drilling Fluid Report

Date 08/03/2008		Depth 3,008.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	724.9 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	3,008.0 m
ECD @ Csg Shoe	12.74 ppg
ECD @ Bit	12.82 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,793.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		425.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	56	56	0
gpm|bbl/min	328 7.80	328 7.80	
Total GPM	655	AV, Riser 14.8	Circ Press psi 2481
Total Circ Time	80	AV min DP 75.3	Tot Pres Loss 5990
BU Time , min	44	AV max DC 109.6	Press Drop DP 5224
Total Strokes	9,015	BU Strokes 4,910	Press Drop An 362

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		3:00	13:00	21:30			
Depth	m	2,724	2,841	2,976			
FL Temp	Deg C	60	60	63			
Density @ Deg C	ppg	12.00 @ 48	12.00 @ 38	12.00 @ 40			
FV @ Deg C	sec/qt	96 @ 48	96 @ 38	92 @ 40			
PV @ Deg C	cP	45 @ 49	45 @ 49	45 @ 49			
YP	lbs/100 ft2	33	35	32			
GELS	lbs/100 ft2	15/23/27	14/25/29	14/25/29			
600/300		123.0/78.0	125.0/80.0	122.0/77.0			
200/100		60.0/40.0	62.0/41.0	60.0/40.0			
6/3		14.0/12.0	16.0/13.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	69.6/30.4	69.6/30.4			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.0	18.7	19.0			
NAP/Water	% by Vol	55.0/24.0	55.0/24.0	55.0/24.0			
Sand	% by vol	0.25	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10	2.00			
THTS	ml	2.90	2.70	2.90			
CaCl2	ppb	27.44	26.21	27.44			
NaCl(Sol/Insol)	ppb		2.74/-				
WPS	ppm	245,966	256,007	245,966			
Excess Lime	ppb						
Elec Stability	volt	702	710	650			
LGS/HGS	% by vol	8.0/11.0	7.7/11.1	8.0/11.0			
LGS/HGS	ppb	72.74/161.50	69.91/162.82	72.74/161.50			
ASG	SG	3.526	3.545	3.526			
Additional Properties							
Density at Flow Line	ppg	12.00	12.10	12.05			
ECD from PWD	ppg	12.64	12.52	12.78			

Fluid Treatments

Fluid Type ACCOLADE

Added 0.3ppb Tau Mod to active to further increase rheology. Checked shaker screens regularly for damage and replaced screens as necessary (4x280 mesh new screens used). Added Barite as required to maintain mud weight 12.0ppg.

Fluid Volume Notes: Brine shown as returned (1186bbls) has been placed on the inventory as per request. Brine shown on inventory is in the Rig Brine Storage Tank (13P). Base Oil shown on inventory is in the Rig Base Oil Storage Tank (13S). Base Oil shown in the "Fluid Types" section of the report (bottom right - second box in) is in the Mud Pits (Pit 4).

Rig Activity

Continue to drill 9 1/2" hole from 2719m to 3008m as per directional drillers instrauctions.

ACCOLADE Mud shown as returned (435bbls) is 'slops' (O/W Ratio of approx 35/65) returned to the Valkyre. Run centrifuges in Barite recovery mode to reduce LGS.

	Base Oil:	Brine:
Rig	1197bbl	1186bbl
Battler	-	-
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	168.940		10.470	158.470	$4,971.99
Tau Mod	50 lb sack	99		6	93	$575.16
ACCOLADE BASE	1 bbl bulk	749.300			749.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl		1,186		1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	204			204	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	9.0
Centrifuge	3,000	40.00	9.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	12.0
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	684.2	Base		Fluid Dumped	
Pipe Cap	101.0	Drill Water		Transferred	-435.0
Active Pits	471.0	Dewatering		SCE	-96.0
Total Hole	785.2	Sea Water		Evaporation	-20.0
Total Circ	1256.2	Whole Mud		Trips	
Reserve	1275.0	Barite	15.7	Other	
Prev Vol	3086.8	Chemicals	0.4	Total Surface	
Net Change	-555.6	Other		Downhole	-20.7
Total Vol	2531.2	Total	16.1	Total Losses	-571.7

Fluid Types

	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	2,413.6 m
Survey TVD	2,221.8 m
Angle	37.7 Deg
Direction	183
Horiz Displ.	191.8 m

Daily Products Cost	$5,547.15	Total Daily Cost	$8,047.15
Cumulative Products Cost	$1,720,350.06	Total Cumulative Cost	$1,835,350.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 047

Daily Drilling Fluid Report

Date 08/04/2008		Depth 3,259.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	63.0 m/sec
Jet Impact Force	984.8 lbf
Bit HHSI	2.89 hhp/in2
Press Drop @ Bit	461 psi
Bit Depth	3,259.0 m
ECD @ Csg Shoe	12.87 ppg
ECD @ Bit	13.01 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,044.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		676.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		97	
bbl/strk	0.139		0.139		0.139	
SPM	65		65		0	
gpm|bbl/min	380	9.06	380	9.06		
Total GPM	761	AV, Riser	17.2	Circ Press psi	3285	
Total Circ Time	69	AV min DP	87.4	Tot Pres Loss	8608	
BU Time , min	40	AV max DC	127.2	Press Drop DP	7652	
Total Strokes	8,975	BU Strokes	5,248	Press Drop An	409	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		2:00	15:00	21:40			
Depth	m	3,037	3,169	3,288			
FL Temp	Deg C	63	63	64			
Density @ Deg C	ppg	12.00 @ 40	12.00 @ 40	12.10 @ 41			
FV @ Deg C	sec/qt	93 @ 40	81 @ 40	85 @ 41			
PV @ Deg C	cP	44 @ 49	52 @ 49	48 @ 49			
YP	lbs/100 ft2	34	35	27			
GELS	lbs/100 ft2	15/26/29	15/27/31	14/25/29			
600/300		122.0/78.0	139.0/87.0	123.0/75.0			
200/100		61.0/41.0	67.0/44.0	58.0/38.0			
6/3		14.0/12.0	14.0/11.0	13.0/11.0			
NAP/Water Ratio		69.6/30.4	71.4/28.6	72.7/27.3			
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	3.5 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.0	20.8	20.9			
NAP/Water	% by Vol	55.0/24.0	55.0/22.0	56.0/21.0			
Sand	% by vol	0.25	0.25	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10	2.00			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	27.44	28.15	27.44			
NaCl(Sol/Insol)	ppb		0.70/-				
WPS	ppm	245,966	272,222	271,562			
Excess Lime	ppb						
Elec Stability	volt	652	750	785			
LGS/HGS	% by vol	8.0/11.0	11.8/9.0	11.0/9.9			
LGS/HGS	ppb	72.74/161.50	107.44/132.41	100.45/145.64			
ASG	SG	3.526	3.292	3.357			
Additional Properties							
Density at Flow Line	ppg	12.05	12.00	12.10			
ECD from PWD	ppg	12.78	12.70	12.83			

Fluid Treatments

Fluid Type ACCOLADE

Check shaker screens regularly and replace damaged screens as required (5x 280 mesh new screens used).
Seepage losses of up to 10bbl/hr in Admiral 50 sand, added sized Calcium Carbonate to active to minimize losses with good results.
Weighted premix with Barite to 12.0ppg to enable addition without reduction in mud weight.

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Added 0.3ppb Tau Mod to active to maintain rheology.

Rig Activity

Continue to drill 9 1/2" hole from 3008m to 3259m as per directional drillers instructions.

Base Oil:	Brine:
Rig 1192bbl	1186bbl
Battler -	-
Valkyrie -	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	158.470		17.010	141.460	$8,077.71
ACCOLADE BASE	1 bbl bulk	749.300		5.000	744.300	$1,880.15
Circal 60/16	25 kg sack	204		96	108	$972.48
Omyacarb 5	25 kg bulk	192.000		84.000	108.000	$788.76
Tau Mod	50 lb sack	93		6	87	$575.16
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255 280	
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	15.0
Centrifuge	3,000	40.00	15.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	10.5
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	731.2	Base		Fluid Dumped	
Pipe Cap	109.4	Drill Water		Transferred	
Active Pits	410.0	Dewatering		SCE	-81.0
Total Hole	840.6	Sea Water		Evaporation	-20.0
Total Circ	1250.6	Whole Mud		Trips	
Reserve	1172.0	Barite	25.5	Other	
Prev Vol	2531.2	Chemicals	10.9	Total Surface	
Net Change	-108.6	Other		Downhole	-44.0
Total Vol	2422.6	Total	36.4	Total Losses	-145.0

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$12,294.26	Total Daily Cost	$14,794.26
Cumulative Products Cost	$1,732,644.32	Total Cumulative Cost	$1,850,144.32

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 048

Daily Drilling Fluid Report

Date 08/05/2008		Depth 3,577.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/RSR616M-B3
Jets	6x16
TFA	1.178 sq-in
Jets Velocity	54.3 m/sec
Jet Impact Force	724.9 lbf
Bit HHSI	1.83 hhp/in2
Press Drop @ Bit	340 psi
Bit Depth	3,134.0 m
ECD @ Csg Shoe	12.69 ppg
ECD @ Bit	12.79 ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,919.2
Drill Pipe	5.500	3.250	180.3
Drill Collar	6.750	2.813	34.5
Riser	19.000		96.0
Open Hole	9.500		676.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		97	
bbl/strk	0.139		0.139		0.139	
SPM	56		56		0	
gpm|bbl/min	328	7.80	328	7.80		
Total GPM	655	AV, Riser	14.8	Circ Press psi	2600	
Total Circ Time	80	AV min DP	75.3	Tot Pres Loss	5987	
BU Time , min	45	AV max DC	109.6	Press Drop DP	5235	
Total Strokes	8,914	BU Strokes	5,080	Press Drop An	352	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		3:25	15:00	22:30			
Depth	m	3,337	3,525	2,577			
FL Temp	Deg C	64	64	64			
Density @ Deg C	ppg	12.00 @ 41	12.00 @ 30	12.00 @ 30			
FV @ Deg C	sec/qt	80 @ 41	80 @ 30	78			
PV @ Deg C	cP	47 @ 49	44 @ 49	40 @ 49			
YP	lbs/100 ft2	31	27	31			
GELS	lbs/100 ft2	14/25/29	14/22/27	14/25/29			
600/300		125.0/78.0	115.0/71.0	111.0/71.0			
200/100		60.0/40.0	54.0/36.0	55.0/37.0			
6/3		13.0/10.0	13.0/11.0	12.0/10.0			
NAP/Water Ratio		74.4/25.6	74.4/25.6	75.0/25.0			
HTHP @ Deg C	ml/30 min	3.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.9	19.9	17.5			
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	60.0/20.0			
Sand	% by vol	0.50	0.25	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00	2.20			
THTS	ml	2.90	2.90	2.70			
CaCl2	ppb	27.44	27.44	26.21			
NaCl(Sol/Insol)	ppb			4.18/-			
WPS	ppm	281,320	281,320	302,419			
Excess Lime	ppb						
Elec Stability	volt	759	760	760			
LGS/HGS	% by vol	9.5/10.4	9.5/10.4	4.8/12.7			
LGS/HGS	ppb	86.63/153.01	86.63/153.01	43.39/187.56			
ASG	SG	3.436	3.436	3.765			
Additional Properties							
Density at Flow Line	ppg	12.00	12.10	0.00			
ECD from PWD	ppg	12.85	12.70	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode and add premix to active to reduce LGS. Checked shaker screens regularly and replaced any damaged screens immediately.
Will begin bleeding recovered mud (Slops) back into mud to restore Oil Water Ratio to 70/30.

Rig Activity

Continue to drill 9 1/2" hole from 3259m to 3525m as per directional drillers instructions. Problem with MWD tool. Break out topdrive, rack back stand, reciprocate string and work. Cont. drill ahead to 3577m. Circ. bottoms up and ream from 3577mto 3525m. Commence POOH as per K&M instructions from 3525m to 3149m.

	Base Oil:	Brine:
Rig	1192bbl	1186bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Circal 60/16	25 kg sack	108		48	60	$486.24
Omyacarb 5	25 kg bulk	108.000		48.000	60.000	$450.72
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	141.460			141.460	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	18.0
VSM-300	280 280	22.0
VSM-300	280 280	22.0
VSM-300	280 280	4.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	20.5
Centrifuge	3,000	40.00	20.5

Time

Drilling	18.0
Circulating	2.5
Trips	2.0
Rig Surveys	1.5
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	18.0
ROP	17.7
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	707.8	Base		Fluid Dumped	
Pipe Cap	105.2	Drill Water	40.0	Transferred	
Active Pits	429.0	Dewatering		SCE	-82.0
Total Hole	849.0	Sea Water		Evaporation	-15.0
Total Circ	1242.0	Whole Mud		Trips	
Reserve	983.0	Barite		Other	
Prev Vol	2422.6	Chemicals	5.6	Total Surface	
Net Change	-70.2	Other		Downhole	-18.8
Total Vol	2261.0	Total	45.6	Total Losses	-115.8

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$936.96	Total Daily Cost	$3,436.96
Cumulative Products Cost	$1,733,581.28	Total Cumulative Cost	$1,853,581.28

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 049

Daily Drilling Fluid Report

Date 08/06/2008		Depth 3,577.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,578.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	2,364.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		994.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	97
bbl/strk	0.139	0.139	0.139
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		3:00	14:00	22:00			
Depth	m	3,577	3,577	3,577			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 25	12.10 @ 25			
FV @ Deg C	sec/qt	100 @ 30	120 @ 25	110 @ 25			
PV @ Deg C	cP	40 @ 49	45 @ 49	43 @ 49			
YP	lbs/100 ft2	31	31	31			
GELS	lbs/100 ft2	14/25/29	14/22/27	14/23/27			
600/300		111.0/71.0	121.0/76.0	117.0/74.0			
200/100		55.0/37.0	59.0/39.0	57.0/38.0			
6/3		12.0/10.0	13.0/11.0	13.0/11.0			
NAP/Water Ratio		75.0/25.0	75.0/25.0	75.0/25.0			
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	5.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	17.5	17.7	17.7			
NAP/Water	% by Vol	60.0/20.0	60.0/20.0	60.0/20.0			
Sand	% by vol	0.50	0.10	0.50			
Alkalinity Pom	ml						
AgNO3	ml	2.20	2.10	2.10			
THTS	ml	2.70	2.80	2.80			
CaCl2	ppb	26.21	27.18	27.18			
NaCl(Sol/Insol)	ppb	4.18/-	1.72/-	1.72/-			
WPS	ppm	302,419	291,877	291,877			
Excess Lime	ppb						
Elec Stability	volt	760	750	750			
LGS/HGS	% by vol	4.8/12.7	4.3/13.4	4.3/13.4			
LGS/HGS	ppb	43.39/187.56	39.23/197.41	39.23/197.41			
ASG	SG	3.765	3.811	3.811			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Rig Activity

Cont. POOH as per K&M instructions from 3149m to surface. Change out BHA. RIH with 9 1/2" BHA to 273m. Shallow test MWD tools as per DD instuctions. Commence slip and cut. Service top drive. Cont. RIH from 273m to 2577m.

	Base Oil:	Brine:
Rig	1192bbl	1186bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ADAPTA HP	25 kg sack	97			97	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	141.460			141.460	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186			1,186	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	60			60	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26		8	34	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	0.5
Trips	18.5
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	2.0
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	603.3	Base		Fluid Dumped	
Pipe Cap	87.0	Drill Water		Transferred	
Active Pits	478.0	Dewatering		SCE	
Total Hole	977.7	Sea Water		Evaporation	
Total Circ	1168.2	Whole Mud		Trips	-22.0
Reserve	867.0	Barite		Other	
Prev Vol	2352.5	Chemicals		Total Surface	
Net Change	-29.8	Other		Downhole	-7.8
Total Vol	2322.7	Total		Total Losses	-29.8

Fluid Types	Vol bbl
Base Oil	448.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,733,581.28	Total Cumulative Cost	$1,856,081.28

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 050

Daily Drilling Fluid Report

Date 08/07/2008		Depth 3,794.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	59.3	m/sec
Jet Impact Force	874.0	lbf
Bit HHSI	2.42	hhp/in2
Press Drop @ Bit	410	psi
Bit Depth	3,794.0	m
ECD @ Csg Shoe	12.86	ppg
ECD @ Bit	13.18	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,580.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,208.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	99	99	99
bbl/strk	0.142	0.142	0.142
SPM	60	60	0
gpm|bbl/min	358 8.53	358 8.53	

Total GPM	717	AV, Riser	16.2	Circ Press psi	3100
Total Circ Time	78	AV min DP	82.4	Tot Pres Loss	8325
BU Time , min	49	AV max DC	129.8	Press Drop DP	7360
Total Strokes	9,391	BU Strokes	5,841	Press Drop An	483

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Flow Line			
Time		4:30	15:00	22:30			
Depth	m	3,577	3,678	3,737			
FL Temp	Deg C	40	63	57			
Density @ Deg C	ppg	11.90 @ 35	12.00 @ 30	12.10 @ 45			
FV @ Deg C	sec/qt	105 @ 35	80	81 @ 45			
PV @ Deg C	cP	49 @ 49	44 @ 49	42 @ 49			
YP	lbs/100 ft2	26	27	32			
GELS	lbs/100 ft2	13/25/29	14/22/27	14/25/-			
600/300		124.0/75.0	115.0/71.0	116.0/74.0			
200/100		56.0/36.0	54.0/35.0	58.0/39.0			
6/3		11.0/9.0	12.0/10.0	13.0/10.0			
NAP/Water Ratio		75.0/25.0	72.5/27.5	72.5/27.5			
HTHP @ Deg C	ml/30 min	5.0 @ 120	5.0 @ 120	5.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	17.8	17.8	17.8			
NAP/Water	% by Vol	60.0/20.0	58.0/22.0	58.0/22.0			
Sand	% by vol	0.50	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.10			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	28.15	28.15	28.15			
NaCl(Sol/Insol)	ppb	0.70/-	0.70/-	0.70/-			
WPS	ppm	291,509	272,222	272,222			
Excess Lime	ppb						
Elec Stability	volt	760	600	600			
LGS/HGS	% by vol	5.9/11.9	5.5/12.3	4.7/13.1			
LGS/HGS	ppb	53.71/174.58	49.68/181.54	42.86/192.57			
ASG	SG	3.669	3.709	3.777			
Additional Properties							
Density at Flow Line	ppg	11.90	12.10	12.10			
ECD from PWD	ppg	0.00	12.70	12.89			

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Seepage losses of up to 14bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Built 350 bbl of premix using 80 bbls of slops to reduce OWR in active.

3bbl of mud was lost over the shakers during circulation.

Rig Activity

Change out saver sub. Rig service. Cont. RIH from 2577m to 3136m. Working through tight spots, wash and ream from 3136m to 3289m. Cont. RIH from 3289m to 3555m. Wash down to bottom @ 3557m. Commence drilling 9 1/2" hole from 3577m to 3791m as per DD instructions.

	Base Oil:	Brine:
Rig	1192bbl	1136bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	34		8	26	$6,935.04
ADAPTA HP	25 kg sack	97		12	85	$6,011.52
barite	1000 kg bulk	141.460		5.660	135.800	$2,687.82
Tau Mod	50 lb sack	87		20	67	$1,917.20
Circal 60/16	25 kg sack	60		27	33	$273.51
Omyacarb 5	25 kg bulk	60.000		27.000	33.000	$253.53
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,186		50	1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Daily Products Cost	$18,078.62	Total Daily Cost	$20,578.62
Cumulative Products Cost	$1,751,659.90	Total Cumulative Cost	$1,876,659.90

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	16.0
Centrifuge	3,000	40.00	16.0

Time

Drilling	15.5
Circulating	
Trips	3.0
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	4.5
Testing	
Logging	
Dir Work	
Repair	0.5
Other	
Total	24.0
Rotating	20.0
ROP	14.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	830.6	Base	50.0	Fluid Dumped	
Pipe Cap	127.9	Drill Water		Transferred	
Active Pits	377.0	Dewatering		SCE	-88.0
Total Hole	958.5	Sea Water		Evaporation	-20.0
Total Circ	1335.5	Whole Mud	171.0	Trips	
Reserve	1070.0	Barite	8.5	Other	
Prev Vol	2322.7	Chemicals	16.8	Total Surface	
Net Change	83.3	Other		Downhole	-55.0
Total Vol	2405.5	Total	246.3	Total Losses	-163.0

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 051

Daily Drilling Fluid Report

Date 08/08/2008		Depth 4,220.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	63.8	m/sec
Jet Impact Force	1001.9	lbf
Bit HHSI	2.98	hhp/in2
Press Drop @ Bit	469	psi
Bit Depth	4,220.0	m
ECD @ Csg Shoe	12.94	ppg
ECD @ Bit	13.47	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	4,006.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,637.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220		
Bore in	6.500		6.500		6.500		
Strokes in	14.000		14.000		14.000		
Eff(%)	97		98		99		
bbl/strk	0.139		0.141		0.142		
SPM	66		65		0		
gpm|bbl/min	386	9.20	384	9.15			
Total GPM	771	AV, Riser	17.4	Circ Press psi	3600		
Total Circ Time	78	AV min DP	88.6	Tot Pres Loss	9581		
BU Time , min	50	AV max DC	139.6	Press Drop DP	8367		
Total Strokes	10,275	BU Strokes	6,503	Press Drop An	671		

Properties		1	2	Hyd 3	4
Source		Flow Line	Pit #6	Flow Line	
Time		3:00	15:00	21:00	
Depth	m	3,864	4,086	4,161	
FL Temp	Deg C	52	66	66	
Density @ Deg C	ppg	12.00 @ 45	12.00 @ 30	12.00 @ 35	
FV @ Deg C	sec/qt	80 @ 45	71 @ 30	75 @ 35	
PV @ Deg C	cP	44 @ 49	41 @ 49	40 @ 49	
YP	lbs/100 ft2	33	33	41	
GELS	lbs/100 ft2	15/25/29	14/24/27	18/29/35	
600/300		121.0/77.0	115.0/74.0	121.0/81.0	
200/100		59.0/39.0	56.0/37.0	74.0/44.0	
6/3		13.0/11.0	12.0/9.0	15.0/12.0	
NAP/Water Ratio		72.5/27.5	71.8/28.2	74.4/25.6	
HTHP @ Deg C	ml/30 min	5.6 @ 120	5.4 @ 120	4.5 @ 120	
Cake API/HTHP	32nd in	-/2	-/2	-/2	
Corr Solid	% by Vol	17.8	19.6	19.6	
NAP/Water	% by Vol	58.0/22.0	56.0/22.0	58.0/20.0	
Sand	% by vol	0.25	0.25	0.25	
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.20	2.20	
THTS	ml	3.20	2.90	3.00	
CaCl2	ppb	28.81	28.15	29.12	
NaCl(Sol/Insol)	ppb		2.14/-	1.12/-	
WPS	ppm	272,011	282,011	301,346	
Excess Lime	ppb				
Elec Stability	volt	540	500	450	
LGS/HGS	% by vol	5.5/12.3	9.5/10.1	9.3/10.4	
LGS/HGS	ppb	50.26/181.00	86.37/149.17	84.34/152.51	
ASG	SG	3.705	3.427	3.445	
Additional Properties					
Density at Flow Line	ppg	12.00	12.10	12.00	
ECD from PWD	ppg	12.89	12.90	13.00	

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

Rig Activity

Cont. drill 9 1/2" hole from 3791m to 4220m as per DD instructions.

	Base Oil:	Brine:
Rig	1192bbl	1136bbl
Battler	-	740bbl
Valkyrie	-	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	135.800		25.200	110.600	$11,966.98
ADAPTA HP	25 kg sack	85		7	78	$3,506.72
Circal 60/16	25 kg sack	33		20	13	$202.60
Omyacarb 5	25 kg bulk	33.000		20.000	13.000	$187.80
ACCOLADE BASE	1 bbl bulk	744.300			744.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136			1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	26			26	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	24.0
VSM-300	280 280	24.0
VSM-300	280 280	24.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	24.0
Centrifuge	3,000	40.00	24.0

Time

Drilling	24.0
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	24.0
ROP	17.8
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	910.8	Base		Fluid Dumped	
Pipe Cap	142.2	Drill Water		Transferred	
Active Pits	386.0	Dewatering		SCE	-155.0
Total Hole	1053.0	Sea Water		Evaporation	-20.0
Total Circ	1439.0	Whole Mud		Trips	
Reserve	786.0	Barite	37.8	Other	
Prev Vol	2405.9	Chemicals	3.4	Total Surface	
Net Change	-181.0	Other		Downhole	-47.2
Total Vol	2225.0	Total	41.2	Total Losses	-222.2

Fluid Types

	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$15,864.10	Total Daily Cost	$18,364.10
Cumulative Products Cost	$1,767,523.99	Total Cumulative Cost	$1,895,023.99

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 052

Daily Drilling Fluid Report

Date 08/09/2008		Depth 4,582.0 m	
Spud Date 06/20/2008		Rig Activity Drilling	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	64.0	m/sec
Jet Impact Force	1015.3	lbf
Bit HHSI	3.03	hhp/in2
Press Drop @ Bit	476	psi
Bit Depth	4,532.0	m
ECD @ Csg Shoe	13.05	ppg
ECD @ Bit	13.71	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	4,318.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		1,999.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		99	
bbl/strk	0.139		0.139		0.142	
SPM	66		66		0	
gpm|bbl/min	386	9.20	386	9.20		
Total GPM	773	AV, Riser	17.4	Circ Press psi	3900	
Total Circ Time	82	AV min DP	88.8	Tot Pres Loss	12619	
BU Time , min	53	AV max DC	139.9	Press Drop DP	11312	
Total Strokes	10,808	BU Strokes	6,956	Press Drop An	740	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #6			
Time		2:30	15:00	22:00			
Depth	m	4,289	4,521	4,558			
FL Temp	Deg C	66	66	66			
Density @ Deg C	ppg	12.00 @ 35	12.10 @ 30	12.10 @ 30			
FV @ Deg C	sec/qt	73 @ 35	77 @ 30	75 @ 30			
PV @ Deg C	cP	47 @ 49	60 @ 49	60 @ 49			
YP	lbs/100 ft2	40	35	33			
GELS	lbs/100 ft2	18/32/34	15/24/27	15/24/27			
600/300		134.0/87.0	155.0/95.0	153.0/93.0			
200/100		68.0/45.0	74.0/49.0	72.0/48.0			
6/3		15.0/12.0	14.0/12.0	15.0/12.0			
NAP/Water Ratio		74.4/25.6	73.4/26.6	73.4/26.6			
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120	5.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.6	18.6	18.6			
NAP/Water	% by Vol	58.0/20.0	58.0/21.0	58.0/21.0			
Sand	% by vol	0.25	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.20	2.20	2.20			
THTS	ml	3.00	3.00	3.00			
CaCl2	ppb	28.15	29.12	29.12			
NaCl(Sol/Insol)	ppb	2.14/-	1.12/-	1.12/-			
WPS	ppm	301,704	291,174	291,174			
Excess Lime	ppb						
Elec Stability	volt	430	425				
LGS/HGS	% by vol	9.2/10.4	6.6/12.1	6.6/12.1			
LGS/HGS	ppb	83.52/153.28	59.71/177.83	59.71/177.83			
ASG	SG	3.451	3.637	3.637			
Additional Properties							
Density at Flow Line	ppg	12.00	12.20	12.10			
ECD from PWD	ppg	13.10	13.40	13.40			

Fluid Treatments

Fluid Type ACCOLADE

Added 0.5ppb LE Supermul and 0.2ppb Adadpta to active to maintain mud properties.

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS. Seepage losses of up to 15bbl/hr in Admiral 100 sand, added 1ppb sized Calcium Carbonate to active to minimize losses with good results.

734 bbls (117m3) Base Oil returned to Pacific Valkyrie.

Rig Activity

Cont. drill 9 1/2" hole from 4220m to 4558m as per DD instructions. Washpipe leaking. POOH 5 stds from 4558m to 4411m. Pick up XTSS DP. RIH and back ream tight spot at 4412m. Pick up 10 joints XTSS DP and 2 joints of XT57. Cont. to drill from 4558m to 4582m.

	Base Oil:	Brine:
Rig	237bbl	1136bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ADAPTA HP	25 kg sack	78		6	72	$3,005.76
LE SUPERMUL	55 gal drum	26		2	24	$1,733.76
Circal 60/16	25 kg sack	13	144	37	120	$374.81
Omyacarb 5	25 kg bulk	13.000	144.000	37.000	120.000	$347.43
ACCOLADE BASE	1 bbl bulk	744.300			10.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	110.600			110.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136			1,136	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	21.0
VSM-300	280 280	21.0
VSM-300	280 280	21.0
VSM-300	280 280	21.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	21.0
Centrifuge	3,000	40.00	21.0

Time

Drilling	19.5
Circulating	
Trips	4.0
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	19.5
ROP	18.6
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	969.2	Base		Fluid Dumped	
Pipe Cap	152.8	Drill Water	17.0	Transferred	
Active Pits	384.0	Dewatering		SCE	-143.0
Total Hole	1136.4	Sea Water		Evaporation	-20.0
Total Circ	1506.0	Whole Mud		Trips	
Reserve	503.0	Barite		Other	
Prev Vol	2225.0	Chemicals	7.8	Total Surface	
Net Change	-201.8	Other		Downhole	-63.6
Total Vol	2023.4	Total	24.8	Total Losses	-226.6

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$5,461.76	Total Daily Cost	$7,961.76
Cumulative Products Cost	$1,772,985.75	Total Cumulative Cost	$1,902,985.75

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 053

Daily Drilling Fluid Report

Date 08/10/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Backreaming	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500	in
Make/Type	REED-HYCALOG/RSX616M-A4	
Jets	6x16	
TFA	1.178	sq-in
Jets Velocity	64.0	m/sec
Jet Impact Force	1015.3	lbf
Bit HHSI	3.03	hhp/in2
Press Drop @ Bit	476	psi
Bit Depth	3,823.0	m
ECD @ Csg Shoe	13.12	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	3,609.0
Drill Pipe	5.500	3.250	179.5
Drill Collar	7.000	3.500	34.5
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220		Nat-14-P-220		Nat-14-P-220	
Bore in	6.500		6.500		6.500	
Strokes in	14.000		14.000		14.000	
Eff(%)	97		97		99	
bbl/strk	0.139		0.139		0.142	
SPM	66		66		0	
gpm|bbl/min	386	9.20	386	9.20		
Total GPM	773	AV, Riser	17.4	Circ Press psi	3900	
Total Circ Time	72	AV min DP	88.8	Tot Pres Loss	9926	
BU Time , min	45	AV max DC	139.9	Press Drop DP	8710	
Total Strokes	9,569	BU Strokes	6,003	Press Drop An	657	

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit #6	Pit #6			
Time		3:00	15:00	22:00			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C	66	33				
Density @ Deg C	ppg	12.00 @ 45	12.10 @ 25	12.10 @ 30			
FV @ Deg C	sec/qt	71 @ 45	77 @ 25	80 @ 30			
PV @ Deg C	cP	56 @ 49	56 @ 49	56 @ 49			
YP	lbs/100 ft2	42	38	37			
GELS	lbs/100 ft2	17/27/33	15/23/29	15/25/29			
600/300		154.0/98.0	150.0/94.0	149.0/93.0			
200/100		84.0/56.0	75.0/50.0	77.0/53.0			
6/3		18.0/14.0	14.0/11.0	14.0/11.0			
NAP/Water Ratio		74.0/26.0	74.4/25.6	74.0/26.0			
HTHP @ Deg C	ml/30 min	3.6 @ 120	4.0 @ 120	3.8 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	20.9	19.8	20.9			
NAP/Water	% by Vol	57.0/20.0	58.0/20.0	57.0/20.0			
Sand	% by vol	0.25	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10	2.00			
THTS	ml	2.90	3.00	2.90			
CaCl2	ppb	27.44	28.81	27.44			
NaCl(Sol/Insol)	ppb						
WPS	ppm	281,320	291,289	281,320			
Excess Lime	ppb						
Elec Stability	volt	400	410	400			
LGS/HGS	% by vol	11.6/9.3	8.7/11.1	10.9/10.0			
LGS/HGS	ppb	105.88/136.63	79.13/163.33	99.06/147.65			
ASG	SG	3.311	3.498	3.368			
Additional Properties							
Density at Flow Line	ppg	12.00	12.20	12.20			
ECD from PWD	ppg	13.10	13.20	13.10			

Fluid Treatments

Fluid Type ACCOLADE

Run centrifuges in Barite recovery mode as required to maintain mud weight and reduce LGS.

Rig Activity

Cont. drill 9 1/2" hole from 4582m to 4648m as per DD instructions. Reached TD. Circ. 5 times bottoms up and ream from 4648m to 4354m. Washpipe leaking, change out washpipe. Cont. back ream from 4354m to 3823m.

	Base Oil:	Brine:
Rig	237bbl	1096bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	72			72	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	110.600			110.600	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,136		40	1,096	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	120			120	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	24			24	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	20.0
VSM-300	280 280	20.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	6.0
Centrifuge	3,000	40.00	6.0

Time

Drilling	3.0
Circulating	7.0
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	10.0
Testing	
Logging	
Dir Work	
Repair	4.0
Other	
Total	24.0
Rotating	13.0
ROP	22.0
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	836.5	Base	40.0	Fluid Dumped	
Pipe Cap	128.9	Drill Water	10.0	Transferred	
Active Pits	368.0	Dewatering		SCE	-69.0
Total Hole	1202.6	Sea Water		Evaporation	-7.0
Total Circ	1333.3	Whole Mud		Trips	
Reserve	398.0	Barite		Other	
Prev Vol	2023.4	Chemicals		Total Surface	
Net Change	-54.7	Other		Downhole	-28.7
Total Vol	1968.6	Total	50.0	Total Losses	-104.7

Fluid Types	Vol bbl
Base Oil	277.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,772,985.75	Total Cumulative Cost	$1,905,485.75

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 054

Daily Drilling Fluid Report

Date 08/11/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig up and rig down	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth		m
ECD @ Csg Shoe	12.20	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220	
Bore in	6.500	6.500	6.500	
Strokes in	14.000	14.000	14.000	
Eff(%)	97	97	99	
bbl/strk	0.139	0.139	0.142	
SPM	66	66	0	
gpm|bbl/min	386	9.20	386	9.20
Total GPM	773	AV, Riser		Circ Press psi 3000
Total Circ Time	15	AV min DP		Tot Pres Loss
BU Time , min		AV max DC		Press Drop DP
Total Strokes	2,031	BU Strokes		Press Drop An

Properties		1	2	Hyd 3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #5			
Time		3:00	15:00	20:00			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C						
Density @ Deg C	ppg	12.10 @ 30	12.10 @ 25	12.20 @ 25			
FV @ Deg C	sec/qt	78 @ 30	77 @ 25	85 @ 25			
PV @ Deg C	cP	57 @ 49	60 @ 49	60 @ 49			
YP	lbs/100 ft2	36	35	33			
GELS	lbs/100 ft2	15/25/30	14/23/27	15/24/27			
600/300		150.0/93.0	155.0/95.0	153.0/93.0			
200/100		73.0/53.0	74.0/49.0	72.0/48.0			
6/3		15.0/11.0	14.0/12.0	15.0/12.0			
NAP/Water Ratio		74.4/25.6	74.4/25.6	74.4/25.6			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	3.9 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.9	19.9	19.9			
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	58.0/20.0			
Sand	% by vol	0.20	0.25	0.25			
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00	2.00			
THTS	ml	2.90	2.90	2.90			
CaCl2	ppb	27.44	27.44	27.44			
NaCl(Sol/Insol)	ppb						
WPS	ppm	281,320	281,320	281,320			
Excess Lime	ppb						
Elec Stability	volt	400	410	400			
LGS/HGS	% by vol	8.8/11.1	8.8/11.1	8.0/11.9			
LGS/HGS	ppb	79.81/164.03	79.81/164.03	72.99/175.05			
ASG	SG	3.496	3.496	3.556			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Mixed 270bbl reserve mud to fill hole as contingency.

Rig Activity

Cont. back ream from 3823m to 3469m. Observed backflow, circulate and condition mud. Cont. backream 3469m to 2607m. Circ. 2X bottoms up. Perform flow check, static. POOH wet from 2607m to 2163m. Pumped 30 bbl slug, chased with 10 bbl mud. Cont. POOH dry from 2163m to 214m. Break out and lay out BHA. Rig up weatherford equipment, make up cement head.

	Base Oil:	Brine:
Rig	113bbl	1096bbl
Battler	-	740bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	110.600		28.700	81.900	$13,629.06
LE SUPERMUL	55 gal drum	24		8	16	$6,935.04
ADAPTA HP	25 kg sack	72		12	60	$6,011.52
Tau Mod	50 lb sack	67		27	40	$2,588.22
Circal 60/16	25 kg sack	120		15	105	$151.95
Omyacarb 5	25 kg bulk	120.000		15.000	105.000	$140.85
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	9			9	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,096			1,096	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	12.0
VSM-300	280 280	12.0
VSM-300	280 280	12.0
VSM-300	280 280	12.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.0
Trips	9.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	9.0
Testing	
Logging	
Dir Work	
Repair	
Other	3.5
Total	24.0
Rotating	9.0
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	283.0	Dewatering		SCE	
Total Hole	1459.5	Sea Water		Evaporation	
Total Circ	283.0	Whole Mud	174.0	Trips	
Reserve	456.0	Barite	43.0	Other	
Prev Vol	1968.6	Chemicals	15.9	Total Surface	
Net Change	229.9	Other		Downhole	-3.0
Total Vol	2198.5	Total	232.9	Total Losses	-3.0

Fluid Types	Vol bbl
Base Oil	103.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$29,456.64	Total Daily Cost	$31,956.64
Cumulative Products Cost	$1,802,442.39	Total Cumulative Cost	$1,937,442.39

Baroid Representatives	Brian Auckram	James Munford	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 055

Daily Drilling Fluid Report

Date 08/12/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run casing and cement	
Operator NEXUS ENERGY	Report For Bill Openshaw/Rocco Rossouw	Well Name Longtom - 4	
Contractor Seadrill	Report For Kim Jones	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,017.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.276	1,339.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		15:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.10 @ 25	12.10 @ 25				
FV @ Deg C	sec/qt	110 @ 25	110 @ 25				
PV @ Deg C	cP	60 @ 49	59 @ 49				
YP	lbs/100 ft2	35	35				
GELS	lbs/100 ft2	15/23/27	15/24/29				
600/300		155.0/95.0	153.0/94.0				
200/100		74.0/49.0	73.0/52.0				
6/3		14.0/12.0	15.0/12.0				
NAP/Water Ratio		74.4/25.6	74.4/25.6				
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.9	19.9				
NAP/Water	% by Vol	58.0/20.0	58.0/20.0				
Sand	% by vol	0.10	0.20				
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00				
THTS	ml	2.90	3.00				
CaCl2	ppb	27.44	27.44				
NaCl(Sol/Insol)	ppb						
WPS	ppm	281,320	281,320				
Excess Lime	ppb						
Elec Stability	volt	400	400				
LGS/HGS	% by vol	8.8/11.1	8.8/11.1				
LGS/HGS	ppb	79.81/164.03	79.81/164.03				
ASG	SG	3.496	3.496				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Returned 433bbls of SBM to pacific Valkyrie.
Mixed 6ppb SAPP solution to clean mud pits.
Received completion fluid chemicals off boat.

NOTE:

8 Drums of RADIAGREEN EME SALT & 80 pails of LIQUI-VIS EP is not shown in inventory due to lack of pricing infomation.

Rig Activity

Cont. rig up cement head stand as per BOT instructions. Change out bails, rig up 7" handling equipment and weatherford equipment. Commence picking up and RIH 7" liner from surface to 2017m. Filling liner every 5 joints.

	Base Oil:	Brine:
Rig	113bbl	1200bbl
Battler	-	636bbl
Valkyrie	734bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
sapp	25 kg bag	40		21	19	$1,039.71
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	9	32		41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	1.000			1.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	81.900			81.900	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,096	104		1,200	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	105			105	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	
LE SUPERMUL	55 gal drum	16			16	
lime	25 kg bag	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	375.9	Base		Fluid Dumped	
Pipe Cap	250.7	Drill Water	44.0	Transferred	-433.0
Active Pits	343.0	Dewatering		SCE	
Total Hole	1392.5	Sea Water		Evaporation	
Total Circ	969.7	Whole Mud		Trips	
Reserve	74.0	Barite		Other	
Prev Vol	2198.5	Chemicals		Total Surface	
Net Change	-389.0	Other		Downhole	
Total Vol	1809.5	Total	44.0	Total Losses	-433.0

Fluid Types	Vol bbl
Base Oil	103.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$1,039.71	Total Daily Cost	$3,539.71
Cumulative Products Cost	$1,803,482.10	Total Cumulative Cost	$1,940,982.10

Baroid Representatives	Brian Auckram	James Munford	
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Baroid Fluid Services

Report No 056

Daily Drilling Fluid Report

Date 08/13/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,608.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.675	2,530.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Flow Line	Pit #6				
Time		3:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.10 @ 25	12.20 @ 25				
FV @ Deg C	sec/qt	110 @ 25	123 @ 25				
PV @ Deg C	cP	55 @ 49	52 @ 49				
YP	lbs/100 ft2	35	38				
GELS	lbs/100 ft2	15/22/26	15/22/26				
600/300		145.0/90.0	142.0/90.0				
200/100		69.0/45.0	69.0/45.0				
6/3		14.0/11.0	14.0/11.0				
NAP/Water Ratio		74.4/25.6	74.4/25.6				
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.9	19.8				
NAP/Water	% by Vol	58.0/20.0	58.0/20.0				
Sand	% by vol	0.20	0.20				
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10				
THTS	ml	2.90	2.90				
CaCl2	ppb	27.44	28.15				
NaCl(Sol/Insol)	ppb		0.70/-				
WPS	ppm	281,320	291,509				
Excess Lime	ppb						
Elec Stability	volt	400	410				
LGS/HGS	% by vol	8.8/11.1	7.9/11.9				
LGS/HGS	ppb	79.81/164.03	71.74/174.89				
ASG	SG	3.496	3.562				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Clean mud pits #4, #8 and #7.
Note on rheology of Liqui-Vis EP sweep: FV 120sec/qt, 140/100/85/60/13/8 gels 8/14.
Prepare 393bbl 11.0ppg brine with 1.5% Radiagreen EME and 1gal/bbl Liqui-vis EP in pit #8. Prepared 383bbl 11.0ppg brine with 5% Baraklean NS in pit #4. Prepared 70bbl brine with 1.8ppb N-Vis in slug pit.

Circulate Base Oil and Tuned spacers out of hole and direct spacer returns to slops pit (pit #2). Transferred slug pit to pit #8 to allow preparation of HW slug for POOH.

Rig Activity

Cont. run 7" liner from 2017m to 2047m, filling liner every 5 joints. Rig down 500T bails and 7" handling gear and install 5 1/2" handling gear. Make up 7" setting sleeve running tool and break circ. Continue to RIH with 7" liner on 5 1/2" drillpipe to 4648m Pick up to 4647m. Rig up for cement job. Pump 60bbl Base Oil spacer and 60bbl tuned spacer Attempt to pump cement pressure up to 2500psi. Bleed down and await instruction. Circ at 32spm/3500psi, stop pumping partial pack off. Manage to circ, spacer returns at 5000stks indicating circulating from top of liner. Rig down cement line and head. POOH from 4648m to 4584m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LIQUI-VIS EP	5 gal pail		80	70	10	$13,877.50
BARAKLEAN PLUS	1054 l bulk	1.000	8.000	3.000	6.000	$13,866.42
barite	1000 kg bulk	81.900		13.500	68.400	$6,410.88
Radiagreen-EME	55 gal drum		10	4	6	$5,820.00
N-VIS	25 lb bag	67		5	62	$861.60
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum		14		14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,200	554	694	1,060	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail		32		32	
Circal 60/16	25 kg sack	105	96		201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum		4		4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	6.0
VSM-300	280 280	6.0
VSM-300	280 280	
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	0.5
Rig	0.5
Surveys	
Fishing	
Run Casing	23.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	876.7	Base		Fluid Dumped	
Pipe Cap	434.6	Drill Water	54.1	Transferred	
Active Pits	271.0	Dewatering		SCE	
Total Hole	1322.8	Sea Water		Evaporation	
Total Circ	1582.3	Whole Mud	53.0	Trips	
Reserve	343.0	Barite	20.2	Other	
Prev Vol	1809.5	Chemicals		Total Surface	
Net Change	127.4	Other		Downhole	
Total Vol	1936.8	Total	127.4	Total Losses	

Fluid Types

	Vol bbl
Base Oil	50.0
brine	863.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$40,836.40	Total Daily Cost	$43,336.40
Cumulative Products Cost	$1,844,318.50	Total Cumulative Cost	$1,984,318.50

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 057

Daily Drilling Fluid Report

Date 08/14/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Bill Openshaw/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,078.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		2:00	21:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 22		
FV @ Deg C	sec/qt	125 @ 22	125 @ 22		
PV @ Deg C	cP	52 @ 49	52 @ 49		
YP	lbs/100 ft2	38	38		
GELS	lbs/100 ft2	15/22/26	15/22/26		
600/300		142.0/90.0	142.0/90.0		
200/100		69.0/45.0	69.0/45.0		
6/3		14.0/11.0	14.0/11.0		
NAP/Water Ratio		74.4/25.6	74.4/25.6		
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	19.8	19.8		
NAP/Water	% by Vol	58.0/20.0	58.0/20.0		
Sand	% by vol	0.20	0.20		
Alkalinity Pom	ml				
AgNO3	ml	2.10	2.10		
THTS	ml	3.00	2.90		
CaCl2	ppb	28.81	28.15		
NaCl(Sol/Insol)	ppb		0.70/-		
WPS	ppm	291,289	291,509		
Excess Lime	ppb				
Elec Stability	volt	407	410		
LGS/HGS	% by vol	7.9/11.8	7.9/11.9		
LGS/HGS	ppb	72.31/174.36	71.74/174.89		
ASG	SG	3.558	3.562		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets

Program

Fluid Treatments

Fluid Type ACCOLADE

Cleaned pit #7. Transferred dead volume from pit #6 and slug pit to active tank with wilden pump for volume. Slops pit (pit #2) O/W ratio 25/75. Slops pit now set as separate fluid set.
Current Mud Pit Volumes:
Pit #1 - 50bbl Base Oil
Pit #2 - 262bbl "Slops"
Pit #3 - 354bbl SAPP/water
Pit #4 - 285bbl 11.0ppg Brine/Baraklean
Pit #5 - 152bbl SBM (Active Pit)
Pit #6 - 12bbl SBM
Pit #7 - Clean
Pit #8 - 450bbl 11.0ppg Brine/Radiagreen/Liqui-vis

Rig Activity

Sand Traps - 150bbl SBM
Trip Tank - 32bbl SBM

Continue to POOH from 4584m to surface. Break out 7" liner running tool. Test BOP. Make up RTTS and RIH.

Base Oil:		Brine:
Rig	50bbl	1056bbl
Battler	-	566bbl
Valkyrie	742bbl	748bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.400			68.400	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,060			1,060	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	14.0
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	9.0
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	384.8	Base		Fluid Dumped	
Pipe Cap	258.4	Drill Water		Transferred	-244.7
Active Pits	262.0	Dewatering		SCE	
Total Hole	1390.5	Sea Water		Evaporation	
Total Circ	905.2	Whole Mud		Trips	
Reserve	39.6	Barite		Other	
Prev Vol	1936.8	Chemicals		Total Surface	
Net Change	-244.7	Other		Downhole	
Total Vol	1692.1	Total		Total Losses	-244.7

Fluid Types	Vol bbl
Base Oil	50.0
Slops	262.0
brine	736.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,844,318.50	Total Cumulative Cost	$1,986,818.50

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 058

Daily Drilling Fluid Report

Date 08/15/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,300.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	3.500	2.250	222.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		2:30	14:30				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 23				
FV @ Deg C	sec/qt	125 @ 22	125 @ 23				
PV @ Deg C	cP	52 @ 49	52 @ 49				
YP	lbs/100 ft2	38	38				
GELS	lbs/100 ft2	15/22/26	15/22/26				
600/300		142.0/90.0	142.0/90.0				
200/100		69.0/45.0	69.0/45.0				
6/3		14.0/11.0	14.0/11.0				
NAP/Water Ratio		74.4/25.6	74.4/25.6				
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.8	19.8				
NAP/Water	% by Vol	58.0/20.0	58.0/20.0				
Sand	% by vol	0.20	0.20				
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.00	3.00				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	291,289	291,289				
Excess Lime	ppb						
Elec Stability	volt	406	412				
LGS/HGS	% by vol	7.9/11.8	7.9/11.8				
LGS/HGS	ppb	72.31/174.36	72.31/174.36				
ASG	SG	3.558	3.558				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Transfer dead volume from pit #6 to active and clean pit #6. Transfer SBM from slug pit to pit #5 and clean slug pit. Transfer 382bbl 11.3ppg brine from bulk storage tank to pit #7 and 378bbl 11.3ppg Brine to pit #6 to allow unloading of Brine from Valkyrie to bulk brine tank.

	Base Oil:	Brine:
Rig	50bbl	1056bbl
Battler	-	566bbl
Valkyrie	742bbl	748bbl

Rig Activity

Continue to RIH with RTTS to 2735m. Set Packer and attempt to circulate. No returns, max pressure 5000psi. Unseat packer and POOH. Pick up 3 3/8" TCP gun assembly and make up same. Pick up 3 1/2" drill pipe from deck and RIH to 498m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	68.400		2.400	66.000	$1,139.71
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,060		760	300	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	443.5	Base		Fluid Dumped	
Pipe Cap	262.0	Drill Water		Transferred	
Active Pits	272.0	Dewatering		SCE	
Total Hole	1385.4	Sea Water		Evaporation	
Total Circ	977.5	Whole Mud		Trips	
Reserve	38.3	Barite	3.6	Other	
Prev Vol	1692.1	Chemicals		Total Surface	
Net Change	3.6	Other		Downhole	
Total Vol	1695.7	Total	3.6	Total Losses	

Fluid Types

	Vol bbl
Base Oil	50.0
Slops	313.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$1,139.71	Total Daily Cost	$3,639.71
Cumulative Products Cost	$1,845,458.21	Total Cumulative Cost	$1,990,458.21

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 059

Daily Drilling Fluid Report

Date 08/16/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000	in
Make/Type	CASING/7" Casing	
Jets		
TFA	1.000	sq-in
Jets Velocity	20.0	m/sec
Jet Impact Force	85.5	lbf
Bit HHSI	0.15	hhp/in2
Press Drop @ Bit	47	psi
Bit Depth	4,560.0	m
ECD @ Csg Shoe	12.58	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	452.0
Drill Pipe	3.500	2.250	2,030.0
Drill Pipe	7.000	6.276	1,400.0
Drill Pipe	7.000	6.184	678.0
Riser	19.000		96.0
Open Hole	9.500		2,065.0

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	35	0	0
gpm|bbl/min	205	4.88	

Total GPM	205	AV, Riser	4.6	Circ Press psi	1500
Total Circ Time	341	AV min DP	18.4	Tot Pres Loss	3666
BU Time , min	201	AV max DC		Press Drop DP	3131
Total Strokes	11,939	BU Strokes	7,049	Press Drop An	478

Properties		1	2	Hyd 3	4	Targets	Program
Source		Pit #5	Pit #5	Flow Line			
Time		2:50	16:30	23:59			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C			38			
Density @ Deg C	ppg	12.20 @ 22	12.20 @ 22	12.30 @ 30			
FV @ Deg C	sec/qt	125 @ 22	125 @ 22	134 @ 30			
PV @ Deg C	cP	52 @ 49	52 @ 49	55 @ 49			
YP	lbs/100 ft2	39	38	35			
GELS	lbs/100 ft2	15/21/25	15/22/25	14/25/29			
600/300		143.0/91.0	142.0/90.0	145.0/90.0			
200/100		69.0/44.0	69.0/45.0	68.0/40.0			
6/3		14.0/11.0	14.0/11.0	13.0/11.0			
NAP/Water Ratio		74.4/25.6	74.4/25.6	71.8/28.2			
HTHP @ Deg C	ml/30 min	4.0 @ 120	4.0 @ 120	4.0 @ 120			
Cake API/HTHP	32nd in	-/2	-/2	-/2			
Corr Solid	% by Vol	19.8	19.8	19.9			
NAP/Water	% by Vol	58.0/20.0	58.0/20.0	56.0/22.0			
Sand	% by vol	0.10		0.20			
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.00			
THTS	ml	2.90	3.00	2.90			
CaCl2	ppb	28.15	28.81	27.44			
NaCl(Sol/Insol)	ppb	0.70/-					
WPS	ppm	291,509	291,289	262,458			
Excess Lime	ppb						
Elec Stability	volt	407	408	305			
LGS/HGS	% by vol	7.9/11.9	7.9/11.8	7.6/12.4			
LGS/HGS	ppb	71.74/174.89	72.31/174.36	68.90/182.07			
ASG	SG	3.562	3.558	3.593			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00	0.00			
ECD from PWD	ppg	0.00	0.00	0.00			

Fluid Treatments

Fluid Type ACCOLADE

Prepare 60bbl cementers tuned spacer in slug pit weighted to 13.0ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg - 11.8ppg. Added Barite to maintain mud weight and circulate until mud weight consistent.
Received approx. 692bbl of 11.3ppg Brine from Valkyrie.

	Base Oil:	Brine:
Rig	50bbl	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Rig Activity

Continue to RIH with TCP gun, picking up 3 1/2" drill pipe from deck to 2003m. Change bails and elevators and RIH with 5 1/2" drill pipe to 2241m. Observed back-flow. Make up TDS and circ mud. Continue to RIH from 2241m to 4560m. Set RTTS packer. Test cement line. Fire TCP gun with cement unit. Establish returns with cement unit. Circulate liner/open hole volume with mud pumps 5bpm/1500psi. No losses.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	66.000		31.000	35.000	$14,721.28
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	300	692		992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000			2.000	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	4.0
VSM-300	280 280	
VSM-300	280 280	4.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	20.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	982.2	Base		Fluid Dumped	
Pipe Cap	316.4	Drill Water		Transferred	
Active Pits	365.0	Dewatering		SCE	
Total Hole	1323.9	Sea Water		Evaporation	
Total Circ	1663.6	Whole Mud		Trips	
Reserve	39.7	Barite	33.0	Other	
Prev Vol	1695.7	Chemicals		Total Surface	
Net Change	33.0	Other		Downhole	
Total Vol	1728.6	Total	33.0	Total Losses	

Fluid Types

	Vol bbl
Base Oil	50.0
Slops	313.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$14,721.28	Total Daily Cost	$17,221.28
Cumulative Products Cost	$1,860,179.49	Total Cumulative Cost	$2,007,679.49

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 060

Daily Drilling Fluid Report

Date 08/17/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #5				
Time		2:20	17:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.30 @ 30	12.10 @ 30				
FV @ Deg C	sec/qt	134 @ 30	135 @ 30				
PV @ Deg C	cP	55 @ 49	58 @ 49				
YP	lbs/100 ft2	35	34				
GELS	lbs/100 ft2	14/25/29	10/19/20				
600/300		145.0/90.0	150.0/92.0				
200/100		69.0/41.0	67.0/40.0				
6/3		13.0/11.0	11.0/8.0				
NAP/Water Ratio		71.8/28.2	67.5/32.5				
HTHP @ Deg C	ml/30 min	4.0 @ 120	5.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	19.9	18.0				
NAP/Water	% by Vol	56.0/22.0	54.0/26.0				
Sand	% by vol	0.20					
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.00				
THTS	ml	2.80	2.80				
CaCl2	ppb	27.18	27.18				
NaCl(Sol/Insol)	ppb	0.27/-	0.27/-				
WPS	ppm	262,526	231,487				
Excess Lime	ppb						
Elec Stability	volt	306	250				
LGS/HGS	% by vol	7.5/12.4	5.4/12.6				
LGS/HGS	ppb	68.67/182.29	48.97/185.33				
ASG	SG	3.595	3.721				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Continue to add Barite to active system while circulating to ensure mud weight 12.2ppg out and 12.3ppg in. Prepare 30bbl pumpable 13.0ppg Slug for cement job. Clean pit #3. Added LE Supermul to active pit to maintain ES.
Received 35 MT Barite from Valkyrie.
Back-loaded 705bbl slops (Slops pit and SAPP waste) to Valkyrie in port tank #2 and starboard tank #2 on vessel. Backloaded 2x Bulk bags of KCl Tech Grade.

Rig Activity

Continue to circ and condition mud until weight even. POOH from 4560m to 4189m Set RTTS and rig up cement line. Hold JSA and cement liner as programmed. Break circ. Rack back cement stand. Continue to circ bottoms up. Continue to POOH to 1592m. Service break RTTS. Continue to POOH to top of guns.

	Base Oil:	Brine:
Rig	50bbl	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	35.000	35.000	16.000	54.000	$7,598.08
LE SUPERMUL	55 gal drum	16		2	14	$1,733.76
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
KCL Tech Grade (bulk)	1000 kg bulk	2.000				

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	19.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	563.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	563.0	Whole Mud		Trips	
Reserve	44.0	Barite	24.0	Other	-31.0
Prev Vol	1759.7	Chemicals	2.6	Total Surface	
Net Change	-4.4	Other		Downhole	
Total Vol	1724.2	Total	26.6	Total Losses	-31.0

Fluid Types	Vol bbl
Base Oil	50.0
Slops	12.0
brine	1509.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$9,331.84	Total Daily Cost	$11,831.84
Cumulative Products Cost	$1,869,511.33	Total Cumulative Cost	$2,019,511.33

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 061

Daily Drilling Fluid Report

Date 08/18/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	7.000 in
Make/Type	CASING/7" Casing
Jets	
TFA	1.000 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,936.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,786.0
Drill Pipe	3.500	2.250	150.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #5	Pit #6				
Time		2:30	23:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 25	11.90 @ 30				
FV @ Deg C	sec/qt	146 @ 25	163 @ 30				
PV @ Deg C	cP	58 @ 49	63 @ 49				
YP	lbs/100 ft2	23	23				
GELS	lbs/100 ft2	10/19/21	10/18/20				
600/300		139.0/81.0	149.0/86.0				
200/100		59.0/35.0	62.0/36.0				
6/3		10.0/8.0	10.0/7.0				
NAP/Water Ratio		66.3/33.8	64.6/35.4				
HTHP @ Deg C	ml/30 min	5.8 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	17.9	15.9				
NAP/Water	% by Vol	53.0/27.0	53.0/29.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.00	3.20				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	233,396	220,854				
Excess Lime	ppb						
Elec Stability	volt	242	175				
LGS/HGS	% by vol	6.2/11.6	3.0/12.9				
LGS/HGS	ppb	56.79/171.32	27.57/189.32				
ASG	SG	3.642	3.895				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Clean slug pit in preparation for mixing tuned spacer. Prepare 13.5ppg slug in slug pit. Increase in water percentage due to contamination from water/spacers used in previous cement jobs.

Cementing through the perforations in the top of the 7" liner, 274bbl of Accolade mud was contaminated with the cement spacer train and was disposed to slops pit.

Accolade volume transferred to slops pit was contaminated with 35bbl water, 60bbl tuned spacer, 10bbl water, 5-10bbl cement and a further 10bbl water from cement job.

Rig Activity

POOH TCP guns and lay out same. Rig up Schlumberger and run TCP guns on wire-line to 2675m. Fire gun and POOH. Lay down tools and rig down Schlumberger. Make up 7" cement retainer BHA. RIH to 2649m, lay out top single and pick up cement stand. Circulate at 500gpm. Set cement retainer. Release stinger and confirm clear. Sting back into retainer and slowly establish circ. Test cement line and pump cement as per program. Displace cement with SBM. Rig down cement line, pump HW slug and POOH to 1938m laying out pipe.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	54.000		11.800	42.200	$5,603.58
LE SUPERMUL	55 gal drum	14		1	13	$866.88
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	2.5
Trips	15.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	5.0
Dir Work	
Repair	
Other	1.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	483.9	Base		Fluid Dumped	
Pipe Cap	102.4	Drill Water		Transferred	-274.0
Active Pits	161.0	Dewatering		SCE	
Total Hole	1034.5	Sea Water		Evaporation	
Total Circ	747.3	Whole Mud		Trips	
Reserve	261.0	Barite	4.9	Other	
Prev Vol	1724.2	Chemicals	1.3	Total Surface	
Net Change	-267.7	Other		Downhole	
Total Vol	1456.5	Total	6.3	Total Losses	-274.0

Fluid Types

	Vol bbl
Base Oil	50.0
Slops	490.7
brine	1434.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$6,470.46	Total Daily Cost	$8,970.46
Cumulative Products Cost	$1,875,981.79	Total Cumulative Cost	$2,028,481.79
Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 062

Daily Drilling Fluid Report

Date 08/19/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6	Pit #2			
Time		2:11	7:00	21:00			
Depth	m	4,648	4,648	4,648			
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 30	12.10 @ 30	11.55 @ 22			
FV @ Deg C	sec/qt	163 @ 30	159 @ 30				
PV @ Deg C	cP	63 @ 49	66 @ 49	94 @ 40			
YP	lbs/100 ft2	23	23	112			
GELS	lbs/100 ft2	10/18/20	10/22/25	13/24/29			
600/300		149.0/86.0	155.0/89.0	300.0/206.0			
200/100		62.0/36.0	64.0/38.0	140.0/82.0			
6/3		10.0/8.0	10.0/7.0	13.0/9.0			
NAP/Water Ratio		64.6/35.4	65.9/34.1	41.9/58.1			
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9	11.5			
NAP/Water	% by Vol	53.0/29.0	54.0/28.0	36.0/50.0			
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10	2.60			
THTS	ml	3.20	3.20	3.80			
CaCl2	ppb	28.81	28.81	35.67			
NaCl(Sol/Insol)	ppb						
WPS	ppm	220,854	226,952	169,124			
Excess Lime	ppb						
Elec Stability	volt	174	180	31			
LGS/HGS	% by vol	2.3/13.6	1.4/14.5	0.1/11.4			
LGS/HGS	ppb	20.75/200.35	12.70/213.22	0.92/167.15			
ASG	SG	3.971	4.060	4.186			
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Back-loaded 465 bbl of 11.6 ppg contaminated "slops" SBM mud with cement spacer and water from the slops pit to Vessel Battler in Port tank #2 and Stbd tank #2, to be offloaded for conditioning. SEE MUD CHECK #3.
Backloaded 8 drums of OMC-42 to Vessel Battler. Added 50bbl Base Oil and 10bbl Slops to active and treated with LE Supermul and Tau Mod to maintain properties and weighted to 12.0ppg with Barite.
Transferred volume from soilds control tanks to active.
Rec'd 160x Liqui-vis and 9x Oxygon as per manifest WT-0079 OUT.

Rig Activity

Continue to POOH laying out singles. Carry out injectivity test on cement plug at top of liner.
Continue to POOH to surface.
Made up 9 1/2" bit, RIH and cleaned out the 10 3/4" csg to the top of 7" liner. Circ bottoms up, pump slug and POOH.

Base Oil:		Brine:
Rig	-	992bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	42.200	38.000	6.500	73.700	$3,086.72
LE SUPERMUL	55 gal drum	13		3	10	$2,600.64
Tau Mod	50 lb sack	40		6	34	$575.16
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60			60	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8			8	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992			992	
Calcium chloride 94%	25 kg sack	320			320	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4			4	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.5
Trips	21.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	1.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ		Whole Mud	60.0	Trips	
Reserve	413.3	Barite	9.7	Other	
Prev Vol	1456.5	Chemicals	4.3	Total Surface	
Net Change	74.1	Other		Downhole	
Total Vol	1530.5	Total	74.1	Total Losses	

Fluid Types	Vol bbl
Slops	15.0
brine	1434.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$6,262.52	Total Daily Cost	$8,762.52
Cumulative Products Cost	$1,882,244.31	Total Cumulative Cost	$2,037,244.31

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 063

Daily Drilling Fluid Report

Date 08/20/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Drill out	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SII/XR+PS	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity	21.7	m/sec
Jet Impact Force	90.6	lbf
Bit HHSI	0.23	hhp/in2
Press Drop @ Bit	54	psi
Bit Depth	2,669.0	m
ECD @ Csg Shoe	12.21	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	3.500	2.250	2,642.8
Drill Collar	4.750	2.250	18.9
Motor	4.750	0.000	7.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	35	0	0
gpm|bbl/min	205	4.88	
Total GPM	205	AV, Riser	4.4
Total Circ Time	209	AV min DP	18.4
BU Time , min	158	AV max DC	97.6
Total Strokes	7,301	BU Strokes	5,533
Circ Press psi	2047		
Tot Pres Loss	4801		
Press Drop DP	4035		
Press Drop An	96		

Properties		1	Hyd 2	3	4	Targets	Program
Source		Pit #6	Flow Line				
Time		3:00	20:30				
Depth	m	4,648	4,648				
FL Temp	Deg C		40				
Density @ Deg C	ppg	12.00 @ 30	12.00 @ 33				
FV @ Deg C	sec/qt	159 @ 30	120 @ 33				
PV @ Deg C	cP	66 @ 49	60 @ 49				
YP	lbs/100 ft2	23	23				
GELS	lbs/100 ft2	10/22/25	10/22/25				
600/300		155.0/89.0	143.0/83.0				
200/100		64.0/38.0	60.0/37.0				
6/3		10.0/7.0	10.0/7.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.20	3.10				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	226,952	226,952				
Excess Lime	ppb						
Elec Stability	volt	179	218				
LGS/HGS	% by vol	2.1/13.7	2.1/13.7				
LGS/HGS	ppb	19.52/202.20	19.52/202.20				
ASG	SG	3.984	3.984				
Additional Properties							
Density at Flow Line	ppg	0.00	11.90				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Backloaded onto the Vessel Battler, 125 bbls of slops (waste mud) into Port tank #1 and 200 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #1.
Topped up 11.3ppg Brine volume in pits #3 and #7. cut back with water to 11.0ppg to have 450bbl in pit #7 and 475bbl in pit #3.
Added 1 drum of Radiagreen EME into pit #8 to maintain 1.5% v/v concentration. Also added 50 bbls of 11.0 ppg brine and 110 gal of BARAKLEAN into pit #4 to increase the volume required for displacement. Added LE Supermul, Tau Mod and Calcium Chloride to active while drilling cement retainer to maintain properties.

Rig Activity

Backloaded surplus SBM chemicals to Valkyrie.

Continue to POOH. Make up 6 " bit, motor and BHA and RIH with 3 1/2" drill pipe to 2535m. Slip and cut drill line. Continue to RIH from 2535m to 2641m. Drill out cement retainer to 2669m at time of report.

	Base Oil:	Brine:
Rig	-	802bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LE SUPERMUL	55 gal drum	10		6		$5,201.28
Radiagreen-EME	55 gal drum	6		1	5	$1,455.00
Tau Mod	50 lb sack	34		12	22	$1,150.32
Calcium chloride 94%	25 kg sack	320		40	280	$552.80
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ADAPTA HP	25 kg sack	60				
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
ATC	55 gal drum	8				
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	73.700			73.700	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	992		190	802	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
COLDTROL	55 gal drum	4				
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	11.0
VSM-300	280 280	11.0
VSM-300	280 280	11.0
VSM-300	280 280	11.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	11.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	12.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	770.9	Base		Fluid Dumped	
Pipe Cap	42.9	Drill Water		Transferred	-211.3
Active Pits	203.5	Dewatering		SCE	
Total Hole	1055.1	Sea Water		Evaporation	
Total Circ	1017.4	Whole Mud		Trips	
Reserve	72.1	Barite		Other	
Prev Vol	1530.5	Chemicals	11.5	Total Surface	
Net Change	-199.8	Other		Downhole	
Total Vol	1330.7	Total	11.5	Total Losses	-211.3

Fluid Types	Vol bbl
brine	1685.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$8,359.40	Total Daily Cost	$10,859.40
Cumulative Products Cost	$1,890,603.71	Total Cumulative Cost	$2,048,103.71

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 064

Daily Drilling Fluid Report

Date 08/21/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SMITH/XR+ST	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	1,239.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,120.5
Drill Pipe	3.500	2.250	98.2
Drill Collar	4.750	2.250	20.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Flow Line	Flow Line				
Time		2:00	19:30				
Depth	m	4,648	4,648				
FL Temp	Deg C	40	40				
Density @ Deg C	ppg	11.90 @ 33	11.90 @ 33				
FV @ Deg C	sec/qt	120 @ 33	122 @ 33				
PV @ Deg C	cP	60 @ 49	57 @ 49				
YP	lbs/100 ft2	23	29				
GELS	lbs/100 ft2	10/22/25	10/22/25				
600/300		143.0/83.0	143.0/86.0				
200/100		60.0/37.0	61.0/39.0				
6/3		10.0/7.0	11.0/8.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	15.9	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.10	2.10				
THTS	ml	3.10	3.10				
CaCl2	ppb	28.81	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	226,952	226,952				
Excess Lime	ppb						
Elec Stability	volt	224	236				
LGS/HGS	% by vol	2.9/13.0	2.9/13.0				
LGS/HGS	ppb	26.35/191.18	26.35/191.18				
ASG	SG	3.909	3.909				
Additional Properties							
Density at Flow Line	ppg	0.00	11.90				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Prepare HW slug for POOH.

Added Rheomod-L to active when circulating to minimize Barite slump when Accolade mud backloaded on boats.

Prepare further HW slug for POOH.

Rig Activity

Continue to drill out retainer. Pump HW slug and POOH. Lay out motor, change bit and BHA and RIH. Drill out retainer and circ bottoms up. Pump HW slug and POOH.

Base Oil:		Brine:
Rig	-	802bbl
Battler	-	566bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
barite	1000 kg bulk	73.700		4.850	68.850	$2,303.17
RHEMOD L	55 gal drum	3		1	2	$2,213.79
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	6.000			6.000	
BARAZAN D PLUS	25 kg bag	42			42	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	802			802	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	21.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	339.7	Base		Fluid Dumped	
Pipe Cap	64.6	Drill Water		Transferred	-15.3
Active Pits	188.0	Dewatering		SCE	
Total Hole	1064.1	Sea Water		Evaporation	
Total Circ	592.3	Whole Mud		Trips	
Reserve	72.0	Barite	7.3	Other	
Prev Vol	1330.7	Chemicals	1.3	Total Surface	
Net Change	-6.7	Other		Downhole	
Total Vol	1324.1	Total	8.6	Total Losses	-15.3

Fluid Types	Vol bbl
brine	1685.0
Slops	27.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$4,516.96	Total Daily Cost	$7,016.96
Cumulative Products Cost	$1,895,120.67	Total Cumulative Cost	$2,055,120.67

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 065

Daily Drilling Fluid Report

Date 08/22/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Cond. mud & Circ.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	6.000	in
Make/Type	SMITH/XR+ST	
Jets	3x20	
TFA	0.920	sq-in
Jets Velocity	31.0	m/sec
Jet Impact Force	185.0	lbf
Bit HHSI	0.67	hhp/in2
Press Drop @ Bit	111	psi
Bit Depth	4,490.0	m
ECD @ Csg Shoe	13.39	ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	2,453.5
Drill Pipe	3.500	2.250	2,016.2
Drill Collar	4.750	2.250	20.3
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	50	0	0
gpm|bbl/min	293	6.97	

Total GPM	293	AV, Riser	6.6	Circ Press psi	4000
Total Circ Time	177	AV min DP	26.3	Tot Pres Loss	6571
BU Time , min	111	AV max DC	139.4	Press Drop DP	5801
Total Strokes	8,846	BU Strokes	5,536	Press Drop An	640

Properties		1	Hyd 2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:00	19:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	12.00 @ 33	12.00 @ 30				
FV @ Deg C	sec/qt	124 @ 33	128 @ 300				
PV @ Deg C	cP	58 @ 49	58 @ 49				
YP	lbs/100 ft2	27	27				
GELS	lbs/100 ft2	1/22/25	10/22/25				
600/300		143.0/85.0	143.0/85.0				
200/100		61.0/40.0	61.0/40.0				
6/3		11.0/8.0	11.0/8.0				
NAP/Water Ratio		65.9/34.1	65.9/34.1				
HTHP @ Deg C	ml/30 min	6.0 @ 120	6.0 @ 120				
Cake API/HTHP	32nd in	-/2	-/2				
Corr Solid	% by Vol	16.0	15.9				
NAP/Water	% by Vol	54.0/28.0	54.0/28.0				
Sand	% by vol						
Alkalinity Pom	ml						
AgNO3	ml	2.00	2.10				
THTS	ml		3.10				
CaCl2	ppb	27.44	28.81				
NaCl(Sol/Insol)	ppb						
WPS	ppm	218,506	226,952				
Excess Lime	ppb						
Elec Stability	volt	228	230				
LGS/HGS	% by vol	2.2/13.8	2.1/13.7				
LGS/HGS	ppb	19.97/203.13	19.52/202.20				
ASG	SG	3.981	3.984				
Additional Properties							
Density at Flow Line	ppg	0.00	0.00				
ECD from PWD	ppg	0.00	0.00				

Fluid Treatments

Fluid Type ACCOLADE

Backloaded 2 drums of RHEOMOD L and 12 sx of TAU-MOD to Vessel Valkyrie.

Added Tau Mod to active to prevent Barite slump when back-loading the SBM mud to the boat.

Added 70 bbl of 11.3 ppg brine, 7 bbls of drill water and BARAKLEAN into pit #4 to increase the volume required to clean the lines.

Displacement of well to brine on following daily report.

Rig Activity

Continue to POOH to 117m. Check 3 1/2" drill pipe. RIH 2777m. Take continuous weight 5-9K. Work and push down cement retainer to 4490m. Circulate bottoms up. Commence displacement program.

Base Oil:		Brine:
Rig	-	732bbl
Battler	-	471bbl
Valkyrie	-	717bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	6.000		1.000	5.000	$4,622.14
Tau Mod	50 lb sack	22		10		$958.60
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	802		70	732	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	9.0
VSM-300	280 280	9.0
VSM-300	280 280	9.0
VSM-300	280 280	9.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	20.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — ACCOLADE

Active	bbl	Additions	bbl	Losses	bbl
Annulus	771.4	Base		Fluid Dumped	
Pipe Cap	170.2	Drill Water		Transferred	
Active Pits	291.0	Dewatering		SCE	
Total Hole	960.9	Sea Water		Evaporation	
Total Circ	1232.6	Whole Mud		Trips	
Reserve	72.9	Barite		Other	
Prev Vol	1348.2	Chemicals	0.7	Total Surface	
Net Change	0.7	Other		Downhole	
Total Vol	1324.8	Total	0.7	Total Losses	

Fluid Types	Vol bbl
Slops	36.0
brine	1762.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$5,580.74	Total Daily Cost	$8,080.74
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,063,201.41

Baroid Representatives Gerald Lange Tim Waldhuter

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Baroid Fluid Services

Report No 066

Daily Drilling Fluid Report

Date 08/23/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		5:00	17:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	12.30 @ 30	12.30 @ 30		
FV @ Deg C	sec/qt	184 @ 30	184 @ 30		
PV @ Deg C	cP	66 @ 49	66 @ 49		
YP	lbs/100 ft2	28	28		
GELS	lbs/100 ft2	12/26/30	12/26/30		
600/300		160.0/94.0	160.0/94.0		
200/100		67.0/40.0	67.0/40.0		
6/3		11.0/8.0	11.0/8.0		
NAP/Water Ratio		63.4/36.6	63.4/36.6		
HTHP @ Deg C	ml/30 min	5.8 @ 120	5.8 @ 120		
Cake API/HTHP	32nd in	-/2	-/2		
Corr Solid	% by Vol	15.8	15.8		
NAP/Water	% by Vol	52.0/30.0	52.0/30.0		
Sand	% by vol				
Alkalinity Pom	ml				
AgNO3	ml	2.20	2.20		
THTS	ml	3.30	3.30		
CaCl2	ppb	30.18	30.18		
NaCl(Sol/Insol)	ppb				
WPS	ppm	223,033	223,033		
Excess Lime	ppb				
Elec Stability	volt	273	283		
LGS/HGS	% by vol	0.1/15.7	0.1/15.7		
LGS/HGS	ppb	1.05/230.64	1.05/230.64		
ASG	SG	4.188	4.188		
Additional Properties					
Density at Flow Line	ppg	0.00	0.00		
ECD from PWD	ppg	0.00	0.00		

Targets	Program

Fluid Treatments

Fluid Type Brine

Displace well to brine. Pumped 75bbl 11.0ppg Radiagreen Hi-vis, 250bbl 11.0ppg Baraklean brine, 800bbl 11.0ppg brine, 325bbl 11.0ppg Radiagreen Hi-vis brine and displaced string with 175bbl 11.3ppg brine. All mud pumps flushed while pumping Baraklean brine. Flushed all surface lines when Baraklean brine returned to surface. 289bbl of dirty brine was diverted to the slops pit. 50bbl water/SBM was dumped to slops pit from rig floor scalper tank. When brine returns clean at shakers, 457bbl clean brine returns dumped overboard. Backloaded onto the Vessel Valkyrie, 809 bbls of 12.0 ppg good ACCOLADE SBM into Port and Stbd tank #3.

Rig Activity

Continue to displace well to brine and flush surface lines. POOH and layout 3 1/2" drill pipe. Break out BHA and layout same. Make up RTTS BHA and RIH to 200m.
Rec'd 750bbl 11.3ppg brine from Valkyrie.
Environmental Incident: When backloading SBM to the Ocean Valkyrie the transfer hose to the boat split, discharging 21bbl of SBM to the ocean.

	Base Oil:	Brine:
Rig	-	1093bbl
Battler	-	471bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	732	750	389	1,093	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0
VSM-300	280 280	3.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	389.0	Fluid Dumped	-456.7
Pipe Cap		Drill Water	40.0	Transferred	-289.1
Active Pits	62.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	62.0	Whole Mud		Trips	
Reserve	266.0	Barite		Other	
Prev Vol	1762.0	Chemicals		Total Surface	
Net Change	-316.8	Other		Downhole	
Total Vol	1445.2	Total	429.0	Total Losses	-745.8

Fluid Types	Vol bbl
ACCOLADE	484.0
Slops	483.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,065,701.41

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 067

Daily Drilling Fluid Report

Date 08/24/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Make up TCP Guns	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	3.375	in
Make/Type	BAKER/TCP Assembly	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	1,908.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Other	4.500	0.000	632.0
Other	3.375	0.000	1,276.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.4				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	7.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,973	288,973				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	32.7/-47.1	32.7/-47.1				
LGS/HGS	ppb	297.80/-362.88	297.80/-362.88				
ASG	SG	1.291	1.291				
Additional Properties							

Fluid Treatments

Fluid Type Brine

Clean flowline, shakers and shaker troughs. Backloaded onto the Vessel Battler, 470 bbls of 12.0 ppg good ACCOLADE SBM into Stbd tank #2 and Stbd tank #1and also backloaded into Port tank #1 230 bbls of Slops (waste mud). Cleaning mixing lines and mud pits. Brine volume dumped due to dead volume in pits when re-cleaning after initial displacement.

Rig Activity

Set RTTS and pressure test wellhead seals. POOH laying out HW drill pipe and drill collars. Rig up and make up TCP guns and RIH.

	Base Oil:	Brine:
Rig	-	1093bbl
Battler	-	471bbl
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,093			1,093	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	32			32	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	170			170	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	573.5	Base		Fluid Dumped	-254.1
Pipe Cap		Drill Water		Transferred	-44.0
Active Pits		Dewatering		SCE	
Total Hole	1030.1	Sea Water		Evaporation	
Total Circ	573.5	Whole Mud		Trips	
Reserve	117.0	Barite		Other	
Prev Vol	1445.2	Chemicals		Total Surface	
Net Change	-298.1	Other		Downhole	
Total Vol	1147.1	Total		Total Losses	-298.1

Fluid Types	Vol bbl
Slops	303.0
ACCOLADE	8.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,900,701.41	Total Cumulative Cost	$2,068,201.41

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 068

Daily Drilling Fluid Report

Date 08/25/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	3.375	in
Make/Type	BAKER/TCP Assembly	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	3,092.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,172.0
Other	4.500	0.000	644.0
Other	3.375	0.000	1,276.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.05 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.4				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	7.50 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,973	289,470				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	31.2/-45.6	32.6/-47.0				
LGS/HGS	ppb	284.15/-351.33	297.11/-362.56				
ASG	SG	1.333	1.295				

Additional Properties

Fluid Treatments

Fluid Type Brine

Function test brine filtration system with seawater. Continue to clean mud pits. Filtered 900bbl 11.3ppg brine and cut back with water to 11.0ppg.
Received 774 bbls of 11.3 ppg Brine from Vessel Battler into rig main brine storage tank.
Mixed 260 bbls of filtered brine HEC pill in pit #7.
Volume of unfiltered 11.3 ppg brine in Main rig tank 762 bbls. Volume of Filtered brine 11.0 ppg 484 bbls Pit #3.
Volume of 11.0 ppg unfiltered brine in pit #6, 223 bbls
69 bbls of 11.0 ppg brine in slug pit for LCM pill.

Rig Activity

Continue to make up and RIH TCP guns. RIH with 5 1/2" DP to 4414m. Rig up Schlumberger wire-line and run correlation log. Preesure test cement line, drop ball then pressure up to 2750psi with cement unit. Good indication of guns fire. Well takes 44bbl of brine. Losses 18bbl/hr. Circ bottoms up through choke. Flow check (losses 3bbl/hr). POOH.

Base Oil:		Brine:
Rig	-	762bbl
Battler	-	-
Valkyrie	742bbl	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
LIQUI-VIS EP	5 gal pail	170		66	104	$13,084.50
N-VIS	25 lb bag	62		14	48	$2,412.48
caustic soda	25 kg pail	32		2	30	$88.38
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	1,093	774	1,105	762	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	4.0
VSM-300	280 280	

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.0
Trips	21.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	722.0	Base	1105.0	Fluid Dumped	
Pipe Cap	65.6	Drill Water	95.0	Transferred	-100.0
Active Pits	275.0	Dewatering		SCE	-5.0
Total Hole	977.3	Sea Water		Evaporation	
Total Circ	1062.6	Whole Mud		Trips	
Reserve	793.3	Barite		Other	-179.1
Prev Vol	1147.1	Chemicals	8.7	Total Surface	
Net Change	898.6	Other		Downhole	-26.0
Total Vol	2045.6	Total	1208.7	Total Losses	-310.1

Fluid Types	Vol bbl
Slops	432.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$15,585.36	Total Daily Cost	$18,085.36
Cumulative Products Cost	$1,916,286.77	Total Cumulative Cost	$2,086,286.77

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 069

Daily Drilling Fluid Report

Date 08/26/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m)			in Casing m			Circulation/Hydraulics Data			
		OD	ID	Length	OD	Set	MD				
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in				7.000	@	4,647.8	Eff(%)	97	97	99
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM	AV, Riser	Circ Press psi	
Bit Depth	m	Riser	19.000	96.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	ppg	Open Hole	9.500	0.2				BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	ppg							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #6				
Time		2:30	21:10				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.05 @ 22	11.05 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.4				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	7.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,973	288,973				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	31.2/-45.6	31.2/-45.6				
LGS/HGS	ppb	284.15/-351.33	284.15/-351.33				
ASG	SG	1.333	1.333				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

Filtered 450bbl of 11.3ppg brine into pit #4 and cut back with water to 11.0ppg to 495bbl total. Transferred filtered brine from pit #3 to pit #8 and added 57bbl filtered 11.3ppg brine and cut back with water to 11.0ppg to 485bbl total. Filtered remaining 197bbl of 11.3ppg brine from rig storage tank into pit #3 and cut back with water to 11.0ppg to 302bbl total volume. Transferred slops volume from pit #1 to pit #2. Flushed pit #1 with seawater and Baraklean.

Rig Activity

Continue to POOH. POOH and lay out TCP guns. Make up 10 3/4" scraper BHA and RIH.

	Base Oil:	Brine:
Rig	-	57bbl
Battler	-	-
Valkyrie	742bbl	717bbl

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	41			41	
Amodrill 1235	1500 l drum	2			2	
BARACOR 100	55 gal drum	14			14	
BARA-DEFOAM W300	5 gal can	17			17	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	762		704	58	
Calcium chloride 94%	25 kg sack	280			280	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	30			30	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	4			4	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	704.0	Fluid Dumped	
Pipe Cap		Drill Water	76.0	Transferred	
Active Pits	265.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	265.0	Whole Mud		Trips	
Reserve	1390.0	Barite		Other	-25.0
Prev Vol	2045.6	Chemicals		Total Surface	
Net Change	726.6	Other		Downhole	-28.4
Total Vol	2772.2	Total	780.0	Total Losses	-53.4

Fluid Types	Vol bbl
Slops	400.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,916,286.77	Total Cumulative Cost	$2,088,786.77
Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 070

Daily Drilling Fluid Report

Date 08/27/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	9.500 in
Make/Type	REED/MX-1
Jets	3x32
TFA	2.356 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,641.0 m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	1,641.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #6	Pit #8				
Time		5:00	22:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.00 @ 22	11.05 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.4	-14.7				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		7.00 @ 22	9.50 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	288,982	294,159				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	29.7/-44.1	30.4/-45.1				
LGS/HGS	ppb	270.49/-339.77	276.96/-347.97				
ASG	SG	1.374	1.375				
Additional Properties							
Sulfite residual	mg/l	0	220				

Fluid Treatments

Fluid Type Brine

Prepared 70bbl 11.0ppg brine using sacks in slug pit for extra unfiltered brine volume and used to mix 75bbl Baraklean brine pill for displacement. Added 46bbl of 11.0ppg filtered brine from pit #3 to active pit #6 to allow sufficient volume for circulating.
Initial displacement: Pumped 75bbl Baraklean pill. Prepared 75bbl, 3% Flo-clean pill in slug pit and pumped. Pumped 75bbl HEC pill from pit #7 then displaced with 917bbl of filtered 11.0ppg brine. Prepared 239bbl inhibited brine in pit #8. Attempt to filter contaminated brine, unable to filter. Dumped unfiltered contaminated brine from displacement of well to filtered brine and then to

Rig Activity

inhibited brine. Displacement to inhibited brine: Pumped 222bbl of inhibited 11.0ppg brine. Prepared further 447bbl of inhibited 11.0ppg brine and pumped 415bbl. Take returns of filtered brine from second displacement to pit #5 and #3. Filter further 160bbl brine from pit #3 to pit #4.
Rec'd 748bbl brine from Ocean Valkyrie. Continue to RIH with scraper BHA. Brush through BOP and riser. Scrape AHC setting depth from 2526m to 2564m. Displace well to filtered brine. Monitor losses, losses at 1.7bbl/hr. POOH to 2273m. Displace well with inhibited brine. Continue to POOH laying out drillpipe.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARACOR 100	55 gal drum	14		6	8	$3,383.28
Calcium chloride 94%	25 kg sack	280		238	42	$3,289.16
FLO-CLEAN MD	55 gal drum	4		2	2	$759.60
ALDACIDE G	5 gal can	41		5	36	$349.50
OXYGON (plant)	6 gal pail		9	2	7	$276.28
caustic soda	25 kg pail	30		6	24	$265.14
BARA-DEFOAM W300	5 gal can	17		2	15	$111.84
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
Amodrill 1235	1500 l drum	2			2	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	58	748	602	204	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0
VSM-300	280 280	8.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	7.0
Trips	17.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	414.8	Base	602.0	Fluid Dumped	
Pipe Cap	91.9	Drill Water	40.0	Transferred	
Active Pits	680.0	Dewatering		SCE	
Total Hole	1044.3	Sea Water		Evaporation	
Total Circ	1186.6	Whole Mud		Trips	
Reserve	847.0	Barite		Other	-819.8
Prev Vol	2772.2	Chemicals	29.1	Total Surface	
Net Change	-200.7	Other		Downhole	-52.0
Total Vol	2571.3	Total	671.1	Total Losses	-871.8

Fluid Types	Vol bbl
Slops	368.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$8,434.80	Total Daily Cost	$10,934.80
Cumulative Products Cost	$1,924,721.57	Total Cumulative Cost	$2,099,721.57

Baroid Representatives	Gerald Lange	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 071

Daily Drilling Fluid Report

Date 08/28/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Tripping	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit #8	Pit #8				
Time		3:00	20:00				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	11.05 @ 22	11.10 @ 22				
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	-14.7	-14.6				
NAP/Water	% by Vol	-/100.0	-/100.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C		9.50 @ 22	10.00 @ 22				
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	294,159	292,547				
Tot. Hardness	mg/l						
LGS/HGS	% by Vol	30.4/-45.1	32.1/-46.8				
LGS/HGS	ppb	276.96/-347.97	292.85/-360.56				
ASG	SG	1.375	1.321				
Additional Properties							
Sulfite residual	mg/l	220	250				

Fluid Treatments

Fluid Type Brine

Prepared further 166bbl of 11.0ppg inhibited brine in pit #8. Filled slug pit with 56bbl unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr.

Backloaded 357bbl slops to Ocean Valkyrie, Port tank #2 and Stbd tank #2.

Rig Activity

Continue to POOH laying out drill pipe. Pumped 30bbl unfiltered brine at 1073m (backflow). Continue to POOH laying out DP. Lay out clean out BHA. Make up BHA, well patroller, ball catcher, circ valve and bore protector retrieval tool. RIH to 92.38m and jet at 10bpm. Retrieve bore protector. Pick up and rig up liner handling equipment and prepare to run completion assy.

Base Oil:	Brine:
Rig -	58bbl
Battler -	600bbl
Valkyrie -	-

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARACOR 100	55 gal drum	8		8		$4,511.04
Radiagreen-EME	55 gal drum	5		2	3	$2,910.00
ALDACIDE G	5 gal can	36		4	32	$279.60
OXYGON (plant)	6 gal pail	7		1	6	$138.14
caustic soda	25 kg pail	24		3	21	$132.57
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	5.000			5.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	204		145	59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	280 280	2.0
VSM-300	280 280	2.0
VSM-300	280 280	2.0
VSM-300	280 280	2.0

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	1.5
Trips	22.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base	145.0	Fluid Dumped	-51.0
Pipe Cap		Drill Water	14.0	Transferred	
Active Pits	206.0	Dewatering		SCE	
Total Hole	1117.2	Sea Water		Evaporation	
Total Circ	206.0	Whole Mud		Trips	
Reserve	1297.0	Barite		Other	-25.0
Prev Vol	2571.3	Chemicals	13.9	Total Surface	
Net Change	48.9	Other		Downhole	-48.0
Total Vol	2620.2	Total	172.9	Total Losses	-124.0

Fluid Types	Vol bbl
Slops	11.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$7,971.35	Total Daily Cost	$10,471.35
Cumulative Products Cost	$1,932,692.92	Total Cumulative Cost	$2,110,192.92

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 072

Daily Drilling Fluid Report

Date 08/29/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run completion string	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	812.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	461.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		2:00	21:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	292,547	292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8		
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	250	220		

Targets

Program

Fluid Treatments

Fluid Type Brine

Fill trip tank as required with inhibited brine from pit #8.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to make up and RIH 5 1/2" and 7" completion string.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	5.000		1.000	4.000	$4,622.14
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	215.2	Base		Fluid Dumped	
Pipe Cap	83.1	Drill Water		Transferred	
Active Pits	160.0	Dewatering		SCE	
Total Hole	1087.6	Sea Water		Evaporation	
Total Circ	458.2	Whole Mud		Trips	
Reserve	1334.0	Barite		Other	
Prev Vol	2620.2	Chemicals		Total Surface	
Net Change	-38.6	Other		Downhole	-38.6
Total Vol	2581.6	Total		Total Losses	-38.6

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$4,622.14	Total Daily Cost	$7,122.14
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,117,315.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 073

Daily Drilling Fluid Report

Date 08/30/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run Completion String	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		4:00	21:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	292,547	292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8		
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	220	220		

Targets

Program

Fluid Treatments

Fluid Type Brine

Continue to fill trip tank from pit #8 if required.
Returns from casing displacement to pit #8.
Clean mud pits #1 and #2.

Backloaded 3 drums Radiagreen EME and SBM Mud Samples on Ocean Valkyrie (FM 044).

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to run 7" tubing and completion assembly.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	24.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	202.0	Dewatering		SCE	
Total Hole	1034.7	Sea Water		Evaporation	
Total Circ	919.7	Whole Mud		Trips	
Reserve	1297.0	Barite		Other	
Prev Vol	2581.6	Chemicals		Total Surface	
Net Change	-48.0	Other		Downhole	-48.0
Total Vol	2533.7	Total		Total Losses	-48.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,119,815.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 074

Daily Drilling Fluid Report

Date 08/31/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Run completion	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		3:30	22:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	292,547	292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8		
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	220	220		

Targets

Program

Fluid Treatments

Fluid Type Brine

Continue to clean pit #2. Fill trip tank as required from inhibited brine in pit #8.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to run completion and testing assembly. Install flow head and pressure test. Hold JSA. Rig up Expro slickline and run as per program.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	145.0	Dewatering		SCE	
Total Hole	1034.7	Sea Water		Evaporation	
Total Circ	862.7	Whole Mud		Trips	
Reserve	1300.0	Barite		Other	-17.0
Prev Vol	2533.7	Chemicals		Total Surface	
Net Change	-54.0	Other		Downhole	-37.0
Total Vol	2479.7	Total		Total Losses	-54.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,122,315.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 075

Daily Drilling Fluid Report

Date 09/01/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pressure Test Packers	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #8		
Time		3:30	19:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.10 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.6		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	10.00 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l		292,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	32.1/-46.8		
LGS/HGS	ppb	292.85/-360.56	292.85/-360.56		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	220	220		

Targets

Program

Fluid Treatments

Fluid Type Brine

Fill trip tank as required with inhibited brine from pit #8.

Displace competion string to diesel. Returns taken to pit #5.

Base Oil:		Brine:
Rig	-	58bbl
Battler	-	600bbl
Valkyrie	-	-

Rig Activity

Continue to make up well testing equipment. Run plugs. Displace tubing to diesel. Attempt ot pressure test to packer - no success. Communication between annulus and tubing. Bleed of annulus, line up down tubing and repeat packer setting sequence. Line up on annular and attempt to test top packer - no success. Pressure up tubing and sttempt to reset packer.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	114.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	831.7	Whole Mud		Trips	
Reserve	1538.0	Barite		Other	-15.0
Prev Vol	2479.7	Chemicals		Total Surface	
Net Change	214.5	Other	270.0	Downhole	-40.5
Total Vol	2694.2	Total	270.0	Total Losses	-55.5

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,124,815.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 076

Daily Drilling Fluid Report

Date 09/02/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Retrieve completion string	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #8	Pit #5		
Time		3:00	19:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.10 @ 22	11.05 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.6	-14.3		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		10.00 @ 22	9.50 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	292,547	288,004		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	32.1/-46.8	31.3/-45.6		
LGS/HGS	ppb	292.85/-360.56	285.50/-351.96		
ASG	SG	1.321	1.325		
Additional Properties					
Sulfite residual	mg/l	220	200		

Targets

Program

Fluid Treatments

Fluid Type Brine

Transfer inhibited brine from pit #8 to cement unit for pressure testing as required. Rec'd approx. 660bbl of 11.3ppg brine from Ocean Battler.

Bullheaded diesel from production tubing into formation at 5bpm with 223bbl of inhibited brine from pit #8 and pit #5.

Brine:

Rig 776bbl (unfiltered in mud pits)

Battler -

Valkyrie -

Rig Activity

Continue to attempt to pressure test packer - no success. Attempt to reverse circulate diesel out of tubing through Expro choke. Bullhead diesel from tubing to formation by pumping inhibited brine. Hold pressure on tubing. Bled off pressures - no test on packer. Monitor well while dicussed and developed forward plan with town. Hold PJSM. Expro prepare tools and re-terminate rope. RIH with slickline to set protection sleeve.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59	660	660	59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown

Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base	660.0	Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	45.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	762.7	Whole Mud		Trips	
Reserve	2044.0	Barite		Other	-223.0
Prev Vol	2694.2	Chemicals		Total Surface	
Net Change	437.0	Other		Downhole	
Total Vol	3131.2	Total	660.0	Total Losses	-223.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,127,315.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 077

Daily Drilling Fluid Report

Date 09/03/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Retrieve Completion String	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Mike Barry	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		2:00	23:59		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.05 @ 22	11.00 @ 22		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-14.3	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C		9.50 @ 22	9.50 @ 22		
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	288,292	282,547		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	31.3/-45.6	30.7/-44.6		
LGS/HGS	ppb	285.10/-351.77	279.42/-343.98		
ASG	SG	1.327	1.321		
Additional Properties					
Sulfite residual	mg/l	200	200		

Targets

Program

Fluid Treatments

Fluid Type Brine

Transfer brine from pit #5 to cement unit as required for pumping/pressure testing operations. Circulated well with 11.0ppg brine to kill well. 333bbl of brine dumped.

Brine:

Rig	776bbl (unfiltered in mud pits)
Battler	-
Valkyrie	-

Rig Activity

Continue slickline operations to attempt to retrieve packers. Displace well to brine to kill well. Flow check well. Commence rigging down well test equipment. Rig up slick-line and RIH and set plug at 2552m. POOH with plug running tool. Check tool for confirmation plug set.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	3.5
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	20.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	-333.0
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	111.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	828.7	Whole Mud		Trips	
Reserve	1645.0	Barite		Other	
Prev Vol	3131.2	Chemicals		Total Surface	
Net Change	-333.0	Other		Downhole	
Total Vol	2798.2	Total		Total Losses	-333.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,129,815.06

Baroid Representatives	Brian Auckram	Tim Waldhuter	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 078

Daily Drilling Fluid Report

Date 09/04/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity: RIH with XT 57 DP from Derreck to top of tubing hanger	
Operator: NEXUS ENERGY	Report For: Sean DeFreitas/Stefan Schmidt	Well Name: Longtom - 4	
Contractor: Seadrill	Report For: Clinton Franklin	Rig Name: West Triton	Unit System: Nexus Energy
Country: Australia	State/Province/Region: Victoria	Geographic Area/County: Bass Strait	Field or Block: VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	2,368.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	2,017.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #5	Pit #5		
Time		3:20	21:27		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	11.00 @ 22	11.00 @ 20		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-13.9	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	282,547	282,543		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	30.7/-44.6	30.7/-44.6		
LGS/HGS	ppb	279.42/-343.98	279.42/-343.98		
ASG	SG	1.321	1.321		
Additional Properties					
Sulfite residual	mg/l	200	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Continue to pump brine to cement unit as required for pressure testing operations.

Rig Activity

Preesure test plug to confirm set. Rig down well testing equipment. Remove chiksan lines & hydraulics from flow head. Make up Schlumberger wire line, rig up cement line, and pressure test. Install stuffing box assembly and RIH with chemical cutter. Fire guns andPOOH with chemical cutter to surface. RIH with XT 57 Drill Pipe from Derrick to top of tubing hanger.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	42			42	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	5.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	444.6	Base		Fluid Dumped	
Pipe Cap	273.1	Drill Water		Transferred	
Active Pits	142.0	Dewatering		SCE	
Total Hole	1042.2	Sea Water		Evaporation	
Total Circ	859.7	Whole Mud		Trips	
Reserve	1614.0	Barite		Other	
Prev Vol	2798.2	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2798.2	Total		Total Losses	

Fluid Types	Vol bbl
Seawater	623.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,315.06	Total Cumulative Cost	$2,132,315.06

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 079

Daily Drilling Fluid Report

Date 09/05/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Lay out TRSSV assembly	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	4,297.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #6	Pit #5		
Time		21:00	3:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.80 @ 31	10.80 @ 33		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-13.9	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	282,357	282,365		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	24.7/-38.6	24.7/-38.6		
LGS/HGS	ppb	225.08/-297.91	225.07/-297.90		
ASG	SG	1.491	1.491		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Added 35 Sx of CaCl to make an additional 57 bbls and weight up brine in pit 2 from 10.7+ to 11.0 ppg.

Rig Activity

RIH & landed THRET into tubing hanger with 2k set down. Lined up & commenced circulating with returns via choke, Had pressure increase with partial returns, estimated 20 bbls. Stopped pumps and shut in well.
Attempted to bleed off casing pressure, bled 6 bbls into trip tank and closed in on choke.Broke off 1 stand of DP and installed TIW Continued to pick up string 23m total stripping through annular while pumping @ 1.3 bpm & 300 psi, pressure remained constant.Continued to circulate and observed pressure rapid pressure increase. Worked string up and down and cleared circulation path around packers. Flow checked

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
Calcium chloride 94%	25 kg sack	42		35	7	$483.70
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	9.5
Trips	9.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	18.5
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	413.0	Base		Fluid Dumped	
Pipe Cap	551.6	Drill Water		Transferred	
Active Pits	332.0	Dewatering		SCE	
Total Hole	964.6	Sea Water		Evaporation	
Total Circ	1296.6	Whole Mud		Trips	
Reserve	1261.0	Barite		Other	-243.0
Prev Vol	2798.2	Chemicals	2.5	Total Surface	
Net Change	-240.5	Other		Downhole	
Total Vol	2557.6	Total	2.5	Total Losses	-243.0

Fluid Types	Vol bbl
Seawater	315.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$483.70	Total Daily Cost	$2,983.70
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,135,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
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Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 080

Daily Drilling Fluid Report

Date 09/06/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Make up Cameron test tool	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	HUGHES/5.5" Casing shoe	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	7.000	6.191	4,297.0
Drill Pipe	6.030	4.890	351.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #6	Pit #6		
Time		22:30	4:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 23	10.90 @ 23		
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-13.9	-13.9		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	282,354	282,354		
Tot. Hardness	mg/l				
LGS/HGS	% by Vol	27.7/-41.6	27.7/-41.6		
LGS/HGS	ppb	252.39/-321.01	252.39/-321.01		
ASG	SG	1.405	1.405		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Transffered Volume from pit # 7 into pits # 1, 2, & 3.

Rig Activity

Flushed pits 4, 7 and 8 with see water. Washed clean in preparation for completion brine. POOH 7" completion tubing F 2378m to surface. Made up Cameron test tool.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	24.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	413.0	Base		Fluid Dumped	
Pipe Cap	551.6	Drill Water		Transferred	
Active Pits	332.0	Dewatering		SCE	
Total Hole	964.6	Sea Water		Evaporation	
Total Circ	1296.6	Whole Mud		Trips	
Reserve	1199.0	Barite		Other	-62.0
Prev Vol	2557.6	Chemicals		Total Surface	
Net Change	-62.0	Other		Downhole	
Total Vol	2495.6	Total		Total Losses	-62.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,137,798.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 081

Daily Drilling Fluid Report

Date 09/07/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH 7" completion tubing.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	in
Make/Type	
Jets	
TFA	sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	m
ECD @ Csg Shoe	ppg
ECD @ Bit	ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #3	Pit #8		
Time		11:30	22:40		
Depth	m	0	0		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90	10.90		
FV @ Deg C	sec/qt	27			
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	4.8		
NAP/Water	% by Vol	-/86.0	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,100		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	-0.9/5.6	-0.8/5.6		
LGS/HGS	ppb	-7.83/43.39	-7.71/43.33		
ASG	SG	2.128	2.129		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Received 660bbls of CaCl2 completion brine (at 10.9ppg) from the Pacific Battler. Filtered 660 bbls of 10.9 ppg completion brine to 14 NTU. 387 bbls of completion brine is in pit # 7 and 249 bbls is in pit# 8. 24 bbls of completion brine used to prime the pit lines.

Rig Activity

Continued to RIH with ws test tool on 5.5" drill Pipe. Flushed lines, tested both tool and BOP and POOH. Laid down 12 joints. Rig up Schlumberger wire line equipment, gauge ring, bore protector and RIH. POOH and pressure test. Made up TIW v/v to water bushings, changed elevators and RIH with 7" tubing F 369m to 965m,

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	12.5
Rig	0.5
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	1.5
Logging	5.5
Dir Work	
Repair	
Other	4.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud	660.0	Trips	
Reserve	1498.0	Barite		Other	-199.8
Prev Vol	2495.6	Chemicals		Total Surface	
Net Change	460.2	Other		Downhole	
Total Vol	2955.8	Total	660.0	Total Losses	-199.8

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,140,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 082

Daily Drilling Fluid Report

Date 09/09/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH 7" Completion Tubing	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #8		
Time		4:20	22:45		
Depth	m	0	0		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 22	10.90 @ 22		
FV @ Deg C	sec/qt	21	20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol		4.8		
NAP/Water	% by Vol	86.0/-	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol		-0.9/5.6		
LGS/HGS	ppb		-7.83/43.39		
ASG	SG		2.128		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

No Treatments today. Brine 16 NTU's according to Scotch Tech Filtration personal.

Rig Activity

Used 26 bbls for Halliburton Cementers pressure testing. RIH 7" tubing F 965m to 2576m, tagged PBR with seal assembly to confirm space out. POOH to pick up SSSV at 2321m. Pick and made up SSSV and terminate and test control lines, no initial test change out 2 x needle valves. Continued to RIH with 7" tubing F 2321 to 2472m.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	
NO-SULF	17 kg pail	37			37	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	19.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud		Trips	
Reserve	1472.0	Barite		Other	-26.0
Prev Vol	2955.8	Chemicals		Total Surface	
Net Change	-26.0	Other		Downhole	
Total Vol	2929.8	Total		Total Losses	-26.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,142,798.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 083

Daily Drilling Fluid Report

Date 09/09/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Shut in well and monitor pressure	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Stefan Schmidt	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		3:00	21:45		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 21	10.90 @ 20		
FV @ Deg C	sec/qt	26	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	-10.7		
NAP/Water	% by Vol	-/86.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000			
LGS/HGS	% by Vol	-0.9/5.6	35.4/-46.1		
LGS/HGS	ppb	-7.83/43.39	322.39/-355.58		
ASG	SG	2.128	0.882		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

CRW24100 received at $563.88 / drum (this is a placeholder price only - to be revised).
Transfered 26 bbls of filtered completion brine to Halliburton Cementing unit. Monitored fluid levels in pits.

Rig Activity

Pick and make up tubing hanger- Terminate TR SSV control lines through TH and pressure test control lines to 4000 psi/ 5 min. Baker installed and test quest E-Line connection through TH to 7500 psi perform pre-submergence check. Install spilt bushing into rotary table & land out TH & table. Laid down THHTT. Picked up & made up MTHRT to TH & perform final checks prior to running. Up WT 192 K, down WT 174K. Run landing string & completion F 2477m to 2570.77m Take up & down weight 5m above SST. Up weight 194K, down WT 175K. ROV open CSM & test rotary valves + PMV, XOV, AAV, AMW. Land TH with 30 K down. TH

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300			10.300	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59			59	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum			5	5	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	1.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	22.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	333.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	333.0	Whole Mud		Trips	
Reserve	1465.0	Barite		Other	-7.0
Prev Vol	2929.8	Chemicals		Total Surface	
Net Change	-7.0	Other		Downhole	
Total Vol	2922.8	Total		Total Losses	-7.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,937,798.76	Total Cumulative Cost	$2,145,298.76

Baroid Representatives	Brian Auckram	Kosta Georgiou	
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Baroid Fluid Services

Report No 084

Daily Drilling Fluid Report

Date 09/10/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity RIH with 4.562" retieval tool.	
Operator NEXUS ENERGY	Report For Sean DeFreitas/Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size	5.500	in
Make/Type	DBS/OE	
Jets		
TFA	1.000	sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.250	4,648.0
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		4:20	19:30		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20		
FV @ Deg C	sec/qt	26 @ 20	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	-10.7	-10.7		
NAP/Water	% by Vol	-/100.0	-/100.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	35.4/-46.1	35.4/-46.1		
LGS/HGS	ppb	322.39/-355.58	322.39/-355.58		
ASG	SG	0.882	0.882		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Stock correction - zeroed out Base Oil and Stored Brine figures. The storage tanks were cleaned out some time ago and recovered fluid was returned to town with slops. Used 4X crw 24100 inhibitor (double concentration) in filtered brine in Pit # 8.

Rig Activity

Made up 4.5" GS pulling tool. Pressure test lubricator to 4000psi and RIH and open sliding sleeve at 2476m. POOH with shifting tool left tool in lubricator and close swab valve. Close annular and line up to Circulate down choke line, taking returns through Expro choke and down to the downwind flare boom. Returns will be discharged and vented via the flare boom. Lined up and circulated 300 bbls of 10.9 filtered, inhibited brine down tubing string with cementing unit and took returns back to pits. Removed lubricator and laid out sliding sleeve tool. Pressure test tag above XX plug I 5000 psi to 5 minutes. Bled off pressure I 500 psi close SSSL and bled off

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	10.300		10.300	0.000	$3,873.07
CRW-24001	55 gal drum	5		4	1	$2,255.52
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	59		59	0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	4.0
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	14.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus	658.2	Base		Fluid Dumped	
Pipe Cap	260.2	Drill Water		Transferred	
Active Pits	345.0	Dewatering		SCE	
Total Hole	918.3	Sea Water		Evaporation	
Total Circ	1263.3	Whole Mud		Trips	-3.0
Reserve	1299.0	Barite		Other	-43.7
Prev Vol	2922.8	Chemicals	5.2	Total Surface	-319.0
Net Change	-360.5	Other		Downhole	
Total Vol	2562.3	Total	5.2	Total Losses	-365.7

Fluid Types	Vol bbl
Seawater	405.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$6,128.59	Total Daily Cost	$8,628.59
Cumulative Products Cost	$1,943,927.35	Total Cumulative Cost	$2,153,927.35

Baroid Representatives	Brian Auckram	Kosta Georgiou	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 085

Daily Drilling Fluid Report

Date 09/11/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pressure testing to 4000 psi.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	128.8	Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Make/Type					16.000	@	749.0	Bore in	6.500	6.500	6.500
Jets					10.750	@	2,583.0	Strokes in	14.000	14.000	14.000
TFA	sq-in				7.000	@	4,647.8	Eff(%)	97	97	99
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.142
Jet Impact Force	lbf							SPM	0	0	0
Bit HHSI	hhp/in2							gpm|bbl/min			
Press Drop @ Bit	psi							Total GPM	AV, Riser	Circ Press psi	
Bit Depth	m	Riser	19.000	96.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	ppg	Open Hole	9.500	0.2				BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	ppg							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source		Pit #7	Pit #7				
Time		3:25	22:43				
Depth	m	4,648	4,648				
FL Temp	Deg C						
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20				
FV @ Deg C	sec/qt	26 @ 20	26 @ 20				
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol	4.8	4.8				
NAP/Water	% by Vol	-/86.0	-/86.0				
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l	232,200	232,200				
Tot. Hardness	mg/l	130,000	130,000				
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6				
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39				
ASG	SG	2.128	2.128				
Additional Properties							
Sulfite residual	mg/l	0	0				

Fluid Treatments

Fluid Type Brine

No treatments today. Retort results for Pits # 1, 2 and 5 were less than 1% Diesel. Reported to results to Rocco Company Man.

Rig Activity

Continue to RIH with $.562" Plug retrieval tool. Break off lubricator and laid down Retrieval tool, made GS tool and pressure test to 4000 psi for 5 minutes. Then latch plug at 2450m and POOH to surface. Break off Lubricator, laid down 4.562" plug, changed out tool to 3.813" shifting tool, installed lubricator and pressure tested to 4000psi / 5 minutes. Pumped 205 bbls of Diesel, Expro RIH with shifting tool and retrieved sliding sleeve at 2467m and POOH.RIH and tested Expro tool at 2457m. Continued to POOH with RX running tool, break lubricator and made up G5 pulling tool and tested. Setpacker with 5500 psi and bled off pressure. Rig up to test packer,

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	357.0	Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ	357.0	Whole Mud	410.4	Trips	
Reserve	1491.0	Barite		Other	
Prev Vol	2562.3	Chemicals		Total Surface	
Net Change	410.4	Other		Downhole	
Total Vol	2972.8	Total	410.4	Total Losses	

Fluid Types	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,943,927.35	Total Cumulative Cost	$2,156,427.35
Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 086

Daily Drilling Fluid Report

Date 09/12/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Flow the Well and Flaring	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		3:00	22:00		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20		
FV @ Deg C	sec/qt	26 @ 20	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	4.8		
NAP/Water	% by Vol	-/86.0	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6		
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39		
ASG	SG	2.128	2.128		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets

Program

Fluid Treatments

Fluid Type Brine

Charged for 2 bulk containers of BARAKLEAN NL plus used for pit, tank, shakers and rig cleaning. Transfered brine from pits # 1, 2 and 5 into pit # 3 and Contaminated Brine into Pit # 1 for flaring.

Rig Activity

RIH with Slick line and confirmed 2473m depth. POOH, break off and change out tools. Test Lubricator to 4000 psi RIH with Expro tool latch plug and remove. POOH to surface. Installed otis cap and test to 4000 psi and prepare to flow well. Perform ESD function test. Commence to flow well.Maintained pressure between 200 - 400 psi to trip tank through choke as required.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
BARAKLEAN PLUS	1054 l bulk	4.000		2.000	2.000	$9,244.28
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	6.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	18.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud	4.0	Trips	
Reserve	1852.0	Barite		Other	
Prev Vol	2972.8	Chemicals		Total Surface	
Net Change	4.0	Other		Downhole	
Total Vol	2976.8	Total	4.0	Total Losses	

Fluid Types

	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$9,244.28	Total Daily Cost	$11,744.28
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,168,171.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 087

Daily Drilling Fluid Report

Date 09/13/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Pumped 20 bbls of Glycol Down Hole	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7	Pit #7		
Time		3:00	22:40		
Depth	m	4,648	4,648		
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20	10.90 @ 20		
FV @ Deg C	sec/qt	26 @ 20	26 @ 20		
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8	4.8		
NAP/Water	% by Vol	-/86.0	-/86.0		
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200	232,200		
Tot. Hardness	mg/l	130,000	130,000		
LGS/HGS	% by Vol	-0.9/5.6	-0.9/5.6		
LGS/HGS	ppb	-7.83/43.39	-7.83/43.39		
ASG	SG	2.128	2.128		
Additional Properties					
Sulfite residual	mg/l	0	0		

Targets				Program			

Fluid Treatments

Fluid Type Brine

Transfer of 150 bbls of brine into pit 1 and Dilute with 270 bbls of sea water and dump. The process is being continued until brine is empty of pits.

Rig Activity

Flowed well between 200-400 psi Bled off annulus pressure to zero, shut well wait on pressure build up. Closed SSSV, Bled off pressure to zero. Flushing the lines and pumping 20 bbls of Glycol down hole.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.1
Total	2.1
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve	1852.0	Barite		Other	
Prev Vol	2976.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	2976.8	Total		Total Losses	

Fluid Types	Vol bbl
Seawater	819.0

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,170,671.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 088

Daily Drilling Fluid Report

Date 09/14/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source		Pit #7			
Time		2:20			
Depth	m	4,648			
FL Temp	Deg C				
Density @ Deg C	ppg	10.90 @ 20			
FV @ Deg C	sec/qt	26 @ 20			
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol	4.8			
NAP/Water	% by Vol	-/86.0			
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l	232,200			
Tot. Hardness	mg/l	130,000			
LGS/HGS	% by Vol	-0.9/5.6			
LGS/HGS	ppb	-7.83/43.39			
ASG	SG	2.128			
Additional Properties					
Sulfite residual	mg/l	0			

Targets

Program

Fluid Treatments

Fluid Type Brine

Continued to dilute 1/3 Brine to 2/3 Sea Water and Dumped. Whilst dumping Continued to add Sea Water to further dilute brine. Also used the same process to dump the trip and sand traps.

Rig Activity

Pumped contaminated brine to flare 67 bbls and 20 bbls of filtered brine from Halliburton cementers and burned off. Rig up slick line and flushed flare boom. RIH and set tubing hanger, test failed twice before 4000 psi. Conducted SSSV test and test passed above 3400 psi. Flushed all lines. continued to rig down and back load.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	-1852.0
Prev Vol	2976.8	Chemicals		Total Surface	
Net Change	-1852.0	Other		Downhole	
Total Vol	1124.8	Total		Total Losses	-1852.0

Fluid Types Vol bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,173,171.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
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Baroid Fluid Services

Report No 089

Daily Drilling Fluid Report

Date 09/15/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4
Source					
Time					
Depth	m				
FL Temp	Deg C				
Density @ Deg C	ppg				
FV @ Deg C	sec/qt				
PV @ Deg C	cP				
YP	lbs/100 ft2				
GELS	lbs/100 ft2				
600/300					
200/100					
6/3					
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in				
Corr Solid	% by Vol				
NAP/Water	% by Vol				
Sand	% by vol				
MBT	ppb Eq.				
pH @ Deg C					
ALK Mud	Pm				
ALK Filt	Pf/Mf				
Chlorides	mg/l				
Tot. Hardness	mg/l				
LGS/HGS	% by Vol				
LGS/HGS	ppb				
ASG	SG				
Additional Properties					

Targets

Program

Fluid Treatments

Fluid Type Brine

Back Loaded, 36 Pails LIQUI-VIS in Container (030), 36 Pails LIQUI-VIS in Container (032) and 48 Sx N-VIS in Container (032.

Received, 36 Sx of BARAZAN D PLUS, 40 Sx Guar Gum and 40 Sx OF Soda Ash. Will charge off these chemicals when we reach Bazzard-1 location. Continued to Clean Pits 1 thought to 8 including sand and slug pits.

Rig Activity

Flushed landing string. Laid down side entry assembly and changed out elevators, RIH to 92m and reverse circulate 50 bbls at 5 minutes. POOH with setting assembly. Change out elevators, and reset ITC running tool, test and POOH. Continued to rig down.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types

Vol bbl

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,953,171.63	Total Cumulative Cost	$2,175,671.63

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 090

Daily Drilling Fluid Report

Date 09/16/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Rig Down	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

3 sx of Salt used at the end of testing the well.

Rig Activity

Rig Down.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
salt	50 lb bag	10		3	7	$100.50
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	2.000			2.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			104	
N-DRIL HT PLUS	50 lb bag	15			15	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types — Vol bbl

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$100.50	Total Daily Cost	$2,600.50
Cumulative Products Cost	$1,953,272.13	Total Cumulative Cost	$2,178,272.13

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 091

Daily Drilling Fluid Report

Date 09/17/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Continue to Rig Down.	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

Returned to Corio Quay for Nexus credit 72 pails of LIQUI-VIS EP and 48 sx of N-VIS.

Credit well for 2 x 1054 lt BARAKLEAN NS Plus not used, to be returned to Corio Quay.

Prepare Well Sight for Stuart Petroleum, Bazzard 1 well.
clean and Maintain pits, sand traps, pump room, repaire valves in pump room.

Rig Activity

Continue to rig down, prepare for move to new location. Stuart Petroleum, Bazzard-1 well.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32			32	
Amodrill 1235	1500 l drum	2			2	
BARA-DEFOAM W300	5 gal can	15			15	
BARAKLEAN PLUS	1054 l bulk	4.000			4.000	
BARAZAN D PLUS	25 kg bag	42			42	
barite	1000 kg bulk	68.850			68.850	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	45.000			45.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7			7	
calcium chloride flake 77%	25 kg bag	14			14	
caustic soda	25 kg pail	21			21	
Circal 60/16	25 kg sack	201			201	
Circal Y	25 kg sack	259			259	
citric acid	25 kg bag	21			21	
CLAYSEAL PLUS	216 kg drum	1			1	
CRW-24001	55 gal drum	1			1	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	13			13	
FLO-CLEAN MD	55 gal drum	2			2	
guar gum	25 kg bag	9			9	
Kwikseal Fine	40 lb bag	38			38	
lime	25 kg bag	4			4	
LIQUI-VIS EP	5 gal pail	104			32	
N-DRIL HT PLUS	50 lb bag	15			15	
NO BLOK C	55 gal drum	4			4	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types

Vol	bbl

Deviation Information

Survey MD	3,254.1	m
Survey TVD	2,632.8	m
Angle	84.4	Deg
Direction	184	
Horiz Displ.	621.3	m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,944,027.85	Total Cumulative Cost	$2,171,527.85

Baroid Representatives	Kosta Georgiou	Gerald Lange	
Office	90 Talinga Rd Melbourne	Telephone	61-03-9581-7555
Warehouse	c/o of Esso Australia Ltd	Telephone	61-3-56-881-445

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Baroid Fluid Services

Report No 092

Daily Drilling Fluid Report

Date 09/18/2008		Depth 4,648.0 m	
Spud Date 06/20/2008		Rig Activity Moving rig to Bazzard-1 location	
Operator NEXUS ENERGY	Report For Bill Openshaw / Rocco Roussow	Well Name Longtom - 4	
Contractor Seadrill	Report For Clinton Franklin	Rig Name West Triton	Unit System Nexus Energy
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Strait	Field or Block VIC P29

Bit Information

Bit Size		in
Make/Type		
Jets		
TFA		sq-in
Jets Velocity		m/sec
Jet Impact Force		lbf
Bit HHSI		hhp/in2
Press Drop @ Bit		psi
Bit Depth	4,648.0	m
ECD @ Csg Shoe		ppg
ECD @ Bit		ppg

Drill String (in) / (m)

	OD	ID	Length
Riser	19.000		96.0
Open Hole	9.500		0.2

in Casing m

OD	Set	MD
30.000	@	128.8
16.000	@	749.0
10.750	@	2,583.0
7.000	@	4,647.8

Circulation/Hydraulics Data

Model	Nat-14-P-220	Nat-14-P-220	Nat-14-P-220
Bore in	6.500	6.500	6.500
Strokes in	14.000	14.000	14.000
Eff(%)	97	97	99
bbl/strk	0.139	0.139	0.142
SPM	0	0	0
gpm|bbl/min			

Total GPM	AV, Riser	Circ Press psi
Total Circ Time	AV min DP	Tot Pres Loss
BU Time , min	AV max DC	Press Drop DP
Total Strokes	BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source							
Time							
Depth	m						
FL Temp	Deg C						
Density @ Deg C	ppg						
FV @ Deg C	sec/qt						
PV @ Deg C	cP						
YP	lbs/100 ft2						
GELS	lbs/100 ft2						
600/300							
200/100							
6/3							
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in						
Corr Solid	% by Vol						
NAP/Water	% by Vol						
Sand	% by vol						
MBT	ppb Eq.						
pH @ Deg C							
ALK Mud	Pm						
ALK Filt	Pf/Mf						
Chlorides	mg/l						
Tot. Hardness	mg/l						
LGS/HGS	% by Vol						
LGS/HGS	ppb						
ASG	SG						
Additional Properties							

Fluid Treatments

Fluid Type Brine

Rig Activity

End of Nexus Energy Project, moving Seadrill rig West Triton to Stuart Petroleum Bazzard-1 Location.

Product Name	Units	Start	Rec	Used	End	Cost
Drilling Fluids Engineer 2	day(s)			1		$1,250.00
Drilling Fluids Engineer	day(s)			1		$1,250.00
ACCOLADE BASE	1 bbl bulk	0.000			0.000	
ALDACIDE G	5 gal can	32				
Amodrill 1235	1500 l drum	2				
BARA-DEFOAM W300	5 gal can	15				
BARAKLEAN PLUS	1054 l bulk	4.000				
BARAZAN D PLUS	25 kg bag	42				
barite	1000 kg bulk	68.850			0.000	
BAROFIBRE FINE	25 lb bag	50				
bentonite	1000 kg bulk	45.000			0.000	
brine - CaCl2	42 gal bbl	0			0	
Calcium chloride 94%	25 kg sack	7				
calcium chloride flake 77%	25 kg bag	14				
caustic soda	25 kg pail	21				
Circal 60/16	25 kg sack	201				
Circal Y	25 kg sack	259				
citric acid	25 kg bag	21				
CLAYSEAL PLUS	216 kg drum	1				
CRW-24001	55 gal drum	1				
EZ SPOT	55 gal drum	8				
EZ-MUD	25 kg pail	13				
FLO-CLEAN MD	55 gal drum	2				
guar gum	25 kg bag	9				
Kwikseal Fine	40 lb bag	38				
lime	25 kg bag	4				
LIQUI-VIS EP	5 gal pail	32				
N-DRIL HT PLUS	50 lb bag	15				
NO BLOK C	55 gal drum	4				

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300		
VSM-300		
VSM-300		
VSM-300		

Hydrocyclone	Cones	Screens	Hrs
D 16	16 4		

Centrifuge	Speed	Feed Rate	Hrs
Centrifuge	3,000	40.00	
Centrifuge	3,000	40.00	

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	24.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Brine

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	1124.8	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve		Barite		Other	
Prev Vol	1124.8	Chemicals		Total Surface	
Net Change		Other		Downhole	
Total Vol	1124.8	Total		Total Losses	

Fluid Types	Vol bbl

Deviation Information

Survey MD	3,254.1 m
Survey TVD	2,632.8 m
Angle	84.4 Deg
Direction	184
Horiz Displ.	621.3 m

Daily Products Cost	$0.00	Total Daily Cost	$2,500.00
Cumulative Products Cost	$1,944,027.85	Total Cumulative Cost	$2,174,027.85

Baroid Representatives	Gerald Lange	Tim Waldhuter	
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APPENDIX 7: MUDLOGGING END OF WELL REPORT

FINAL WELL REPORT

Nexus Energy Ltd

Longtom-4 / Longtom-4 P / Longtom-4 H

21 June – 18 September 2008

by

BAKER HUGHES INTEQ

The information, interpretations, recommendations, or opinions contained herein are advisory only and may be rejected. Consultant does not warrant their accuracy or correctness. Nothing contained herein shall be deemed to be inconsistent with, nor expand, modify or alter consultant's obligation of performance as provided for in a written agreement between the parties, or, if none, in consultant's most recent price list.

Longtom-4 / Longtom-4 P / Longtom-4 H

Final Well Report

Section 1 HS&E

Section 2 Well Summary

Section 3 Drilling and Engineering
- 3.1 Bit Run Summaries
- 3.2 Casing, Cementing and Suspension Summaries

Section 4 Geology and Shows
- 4.1 Geology Summary and Shows
- 4.2 Sampling Summary and Record of Distribution

Section 5 Pressure Evaluation
- 5.1 Pore Pressure Evaluation
- 5.2 Fracture Pressure Evaluation

Tables
- 1 - Bit Table
- 2 - Bit Hydraulics Table
- 3 - Time Depth Curve
- 4 – Sample Manifest

Appendices

A - Formation Evaluation Log	1 : 500
B - Gas Ratio Plot	1 : 500
C - Drilling Data Pressure Plot	1 : 1000
D - Drilling Data Plot	1 : 1000

SECTION 1

HS&E

1.0 HS&E

No Lost Time Incidents (LTI's), or no uncontrolled emissions to the environment occurred throughout the Longtom-4 program caused by or preventable by the BHI crew. Baker Hughes Inteq Unit 86010 held a safety meeting each week. BHI personnel also attended the rig's own safety meeting as a matter of course.

SECTION 2

WELL SUMMARY

2 Well Data Summary

Well Name	Longtom-4 / Longtom-4 P / Longtom-4 H
Rig Name:	West Triton
Rig Type:	Jack up
Drilling Contractor:	Seadrill
Drilling Datum:	Rotary Table
RT to AHD:	41.1 mMDRT
RT to Seabed:	97.1 mMDRT
Surface Coordinates:	Lat 038° 06’ 17.701” S Long 148° 19’ 59.944” E
Grid Coordinates: (GDA94, Zone 55)	E 616 897.309 m N 5 781 704.499 m
Block:	VIC / L29
Well Type:	Production
Spud Date:	21 June 2008
Spud Depth:	97.1 mMDRT
Total Depth:	4648.0 mMDRT / 2696.19 mTVDRT
TD Date:	10 Aug 2008
Well Status:	Producer
Baker Hughes INTEQ Crew:	
Data Engineers:	Yeong Chen Wong, Deelip Mahajan John Mancarella, Ilyas Ahmad Khan
Logging Geologists:	Darshan Pingle, Elliot Snelling, Alexis Cabanlit, Ali Amjad
Sample Technicians:	Amit Saxena, Wayne Talbot, Naveed Ul-Islam

2.1 Well Summary

Baker Hughes INTEQ SLS provided formation evaluation, drill monitoring services for Longtom-4 from the spud depth at 97.0 mMDRT, on 21 June 2008 to 4648.0 mMDRT / 2696.19 mTVD reached on 10 August 2008. Data was processed and stored using **Advantage version 2.10U2** software. All depths were measured depth below Rotary Table (mMDRT) referenced to Australian Height Datum (AHD) unless otherwise stated.

Longtom-4 was a production well drilled by Nexus Energy Ltd using the West Triton Jack up. The geological objectives of Longtom-4 was to complete a horizontal production well with at least 300m exposure to reservoir in the 100, 200, 300 and 400 sands (Admiral Formation) capable of flowing 100 MM scf/d wet gas and to evaluate the Admiral sands (100, 200 sands) with core and pressure logs to establish overall reservoir continuity.

The well was spudded at 97.0m using a 660mm (26") bit with a 914mm (36") hole opener. The 914mm (36") hole section was drilled from 97.0to 131.0 mMDRT and 660mm (26") hole to 132.0 mMDRT with a sea water followed by Hi-Vis sweeps and returns to sea bed. The 610mm (24") conductor shoe followed by 762mm (30") casing was set at 128.86 mMDRT and cemented. The 559mm (22") BHA was made up on MWD tools and tagged the top of cement at 124.9 mMDRT and drilled out cement, shoe track and new formation from 132.0 to 755.0mMDRT. The 406mm (16") casing shoe was set at 750.03 mMDRT and cemented. The 374mm (14-3/4") clean out BHA was made up and tagged the top of the cement at 736.0 mMDRT. The 374mm (14-3/4") bit drilled out cement, shoe track and 3m of formation to 758.0 mMDRT. The hole was circulated clean to perform a LOT at 758.0 mMDRT. The Halliburton lines were pressure tested and conducted the LOT at 650psi with EMW 1.64sg. The BHA was then pulled out and laid out.

The 343mm (13-1/2") hole was directionally drilled from 758.0 to 2600.0 mMDRT with 2 bits using SBM mud. NB4, Reed RSX616-A3, drilled from 758.0 to 2031.0 mMDRT while NB5, Smith M516LSPX drilled from 2031.0 to 2600.0 mMDRT. NB5 was pulled out of the hole at 343mm (13-1/2") section TD at 2600.0 mMDRT to make way for wireline logging. A wiper trip (BHA 6) was run prior to the 273mm (10-3/4") casing run. The 273mm (10-3/4") casing was set at 2590.8 mMDRT with float collar at 2566.77 mMDRT. The surface lines were rigged up and circulated 1.5 times the casing volume at 8bbl/min at 800 psi, without any losses. After pressure testing the surface lines at 4000 psi, 50bbls of tuned spacer was pumped at 6.6bbl/min and 430 psi. There was a pressure increase from 430psi to 2700psi which fell back to 430psi. Dropped ball and pumped 3.5bbls in attempt to launch the bottom plug and no increase in pressure was observed. After discussion with town, the situation was assessed and circulated casing volume at 10bbl/min and 650psi. There was an increase in pressure to 4500psi after pumping 755bbls of casing volume. The pressure was bled off and the cement lines rigged down, before running and installing the wear bushing. The 241mm (9-1/2") BHA was made up and run in the hole to drill out the top and bottom plug, float collar and shoe. Pulled out the BHA and run in the hole cement stinger to 2490.0 mMDRT and set the RTTS packer at 140.0 mMDRT then circulated the hole to clean around the casing at 590gpm and 1325psi. After pressure testing the surface lines to 3000psi the 30bbl spacer followed by 200bbl cement Class G at 15.8ppg was pumped and displaced with SBM using the rig pumps.

The 241mm (9-1/2") hole was directionally drilled with BHA 7, which was made up on 241mm (9-1/2") bit with MWD tools. The top of the cement was tagged at 2551.0 mMDRT and drilled down to 2604.0 mMDRT. An FIT was conducted to 818psi (14.0ppg EMW) using 11.95ppg SBM. The 241mm (9-1/2") hole section was drilled to the coring point at 2841.0 mMDRT. BHA 8 was made up on 216mm (8-1/2") core bit and core barrels. Hughes Core Bit / HTC BHC -406 cut core from 2841.0 to 2896.0 mMDRT in 3.6hrs. The core barrels were pulled out with slow rate of 5min/stand to 10min/stand and checked for H2S gas after broke open the top sub and recovered 99.4% core. BHA 9 was made up with a 241mm (9-1/2") Smith M716SPXC bit with MWD tools and shallow tested at 650gpm. The bit drilled from 2896.0 mMDRT to Longtom-4P hole TD at 2987.0 mMDRT. The section was washed down from 2620.0 to 2637.0 mMDRT and reamed down to recapture the missing MWD data of previous run from 2720.0 - 2735.0, 2750.0 - 2766.0 and 2792.0 - 2813.0 mMDRT using 500gpm, 120m/hr, 120rpm. Then the bit was RIH to 2841.0 mMDRT to ream the 216mm (8-1/2") core section from 2841.0 to 2896.0 mMDRT

using 150rpm, 720gpm. After TD the BHA was pulled and laid out to run wireline logs. A cement plug was set in the Longtom-4P hole and a sidetrack hole Longtom-4H was kicked-off from 2690.0 mMDRT.

BHA 10 with Reed RSR616M-B3 drilled out the cement from 2690.0 to 2696.0 mMDRT and directionally drilled new formation to 3577.0 mMDRT. The bit was pulled out of the hole due to several occasions of MWD tool failure. There were some tight spots from 3230.0 to 3147.0 mMDRT with a maximum of 35klbs over pull. BHA 11 with Smith RSX616M-A4 continued to directionally drill from 3577.0 mMDRT to well TD at 4648.0 mMDRT.

178mm (7") liner was run to 4648.0 mMDRT with the top of the liner set at 2569.0 mMDRT. Observed a pressure increase to 2500psi after 4 bbls of cement were pumped. The pressure was bled off and the cement lines opened to confirmed flow path and assess the situation. When the cement unit commenced pumping drill water at 4 bbls/min, the pressure increased to 3100 psi and then gradually dropped to 2000psi and there were returns in the flow-line. Pump rate was increased to 5 bbls/min at 3500 psi and stopped when a 450psi pressure differential was observed. Then the cement head was pulled out of the hole with the 178mm (7") liner running tool. A 178mm (7") RTTS was RIH and set at 2735.0 mMDRT. It was attempted to circulate the liner with the mud pumps but no returns were observed with a pressure increase to 5000 psi. The 178mm (7") RTTS was then pulled out of the hole. An 86mm (3-3/8") TCP with RTTS were RIH to 4545.0 mMDRT and circulated at 400 psi. The bottom of TCP was placed at 4560.0 mMDRT while the RTTS was set at 2966.3 mMDRT. The TCP perforated at a depth of 4560.0 to 4558.0 mMDRT and circulated. The RTTS was unset and pulled back. A cement stand was made up and set RTTS at 2590.0 mMDRT. The cement lines were tested to 3000 psi prior to the cement job of the lower 178mm (7") liner which was successful. The cement head and 86mm (3-3/8") TCP with RTTS were pulled out of the hole after circulation indicated no cement returns at the shakers.

Schlumberger wire line GR/CCL/HSD gun was RIH to 2675.0 mMDRT, perforated at depth of 2673.5 to 2675.0 mMDRT and pulled out of the hole. A cement retainer was RIH and set at 2669.0 mMDRT. A cement stand was made up and tested the lines to 3000 psi prior to cementing the upper 178mm (7") liner. Cementing of the upper 178mm (7") liner was successfully done. The clean out of the 273mm (10-3/4") casing and 178mm (7") liner were done with drilling out the cement retainer and cement stringers in the 178mm (7") liner. The well was then displaced to 11.0 ppg brine prior to running the completion tools.

Longtom-4 H was successfully tested.

SECTION 3

DRILLING & ENGINEERING

3.1 Drilling Summary

Longtom-4
660 / 914mm (26"/ 36") Hole Section
20 - 21 June 2008

Bit Run No. 1 Summary

Bit No.	RB1
Bit Size	660 / 914 mm
Bit Type	Rock / Reed YC11
Serial Number	34406
Jets	3x22, 1x16
Depth In, mMDRT	97.0
Depth Out, mMDRT	132.00
Bit Grading	1-1-WT-A-0-I-NO-TD

Drilling Parameters

WOB klbf	0.7	-	9.6
RPM Surf	51	-	94
Pump Pressure psi	32	-	856
Flow In gpm	240	-	1014
Torque kft.lb	0.02	-	1.9

Mud

Sea water 1.04 sg (SW)
Hi-vis sweeps

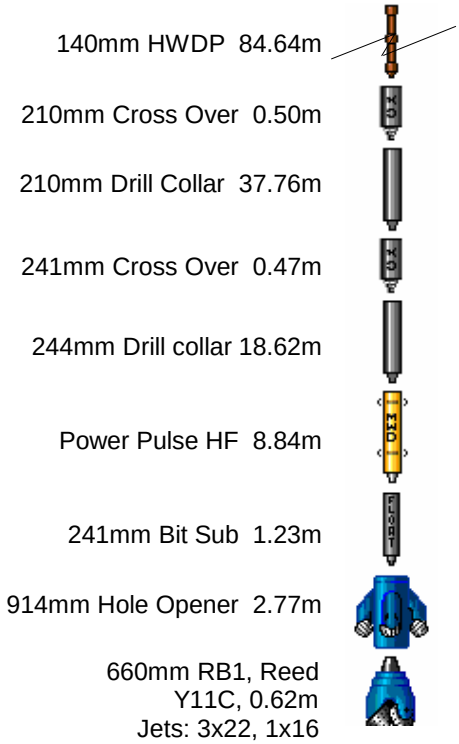
Lithology

Return to Seabed

Drilling Summary

The well was spudded from 97.0 mMDRT using a rerun 660mm (26") bit with a 914mm (36") hole opener. The 914mm (36") hole section was drilled from 97.0 to 131.0 mMDRT and 660mm (26") hole to 132.0 mMDRT. At section TD the hole was swept with 150bbl hi-vis sweep and displaced to hi-vis mud. The section was drilled with an average ROP of 13.5m/hr for the 35.0m drilled. The BHA was pulled out and racked back without any tight spots. The 610mm (24") shoe followed by the 762mm (30") casing was set at 128.86 mMDRT and cemented successfully.

BHA No. 1: 155.45m



Longtom-4
559mm (22”) Hole Section
22 - 24 June 2008

Bit Run No. 2 Summary

Bit No.	RB2
Bit Size	559mm
Bit Type	Rock / Smith XR+C
Serial Number	MZ3173
Jets	3x22, 1x15
Depth In, mMDRT	132.0
Depth Out, mMDRT	755.0
Bit Grading	2-2-WT-A-1-I-NO-TD

Drilling Parameters

WOB klbf	0.6	-	34.0
RPM Surf	57	-	188
Pump Pressure psi	396	-	1927
Flow In gpm	599	-	1212
Torque kft.lb	0	-	5.0

Mud

Sea Water 1.04 sg (SW)
Hi-vis sweep

Lithology

Returns to seabed

Drilling Summary

BHA 2 was made up on 559mm (22”) Smith XR+C bit with MWD tools, ran in hole to tag the top of the cement at 124.9 mMDRT. The cement and shoe track were drilled to 132.0 mMDRT. The 559mm (22”) hole was drilled from 132.0 to 755.0 mMDRT with sea water followed by Hi-Vis sweeps and returns to sea bed. At 755.0 mMDRT 150bbl of bentonite mud was pumped and the string was pulled out of the hole with several tight spots at 741.0 to 726.0 and 668.0 mMDRT.

BHA No. 2: 213.38m

Longtom-4
375mm (14-3/4") Clean Out BHA
28 - 29 June 2008

Bit Run No. 3 Summary

Bit No.	NB 3
Bit Size	735 mm
Bit Type	Rock / Reed T11
Serial Number	WC6252
Jets	3x20, 1x16
Depth In, mMDRT	755.0
Depth Out, mMDRT	758.0
Bit Grading	0-0-NO-A-0-I-NO-BHA

Drilling Parameters

WOB klbf	6.1	-	6.7
RPM Surf	78	-	79
Pump Pressure psi	1689	-	1691
Flow In gpm	1114	-	1115
Torque kft.lb	0.03	-	0.07

Mud

Sea Water 1.04 sg (SW)
Hi-vis sweep

Lithology

Returns to seabed

Drilling Summary

BHA 3 was made up on a 375mm (14-3/4") bit. The 375mm (14-3/4") clean out BHA was washed down from 731.78 mMDRT to the top of the cement at 736.0 mMDRT. The Reed T11 bit drilled out the cement and shoe to 755.0 mMDRT. The bit drilled 3m of formation to 758.0 mMDRT. 100bbl of hi-vis was pumped and the hole was circulated clean. The lines were tested to 1000psi before conducting the LOT, which was conducted with seawater to 650psi with an EMW of 13.70ppg. The BHA was pulled out of the hole after the test.

BHA No. 3: 200.30m

Longtom-4
343mm (13-1/2”) Hole Section
29 June - 03 July 2008

Bit Run No. 4 Summary

Bit No.	NB 4
Bit Size	343 mm
Bit Type	PDC / Reed RSX616-A3
Serial Number	219224
Jets	3x18, 3x16
Depth In, mMDRT	758.0
Depth Out, mMDRT	2031.0
Bit Grading	2-4-CT-A-X-I-WT-BHA

Drilling Parameters

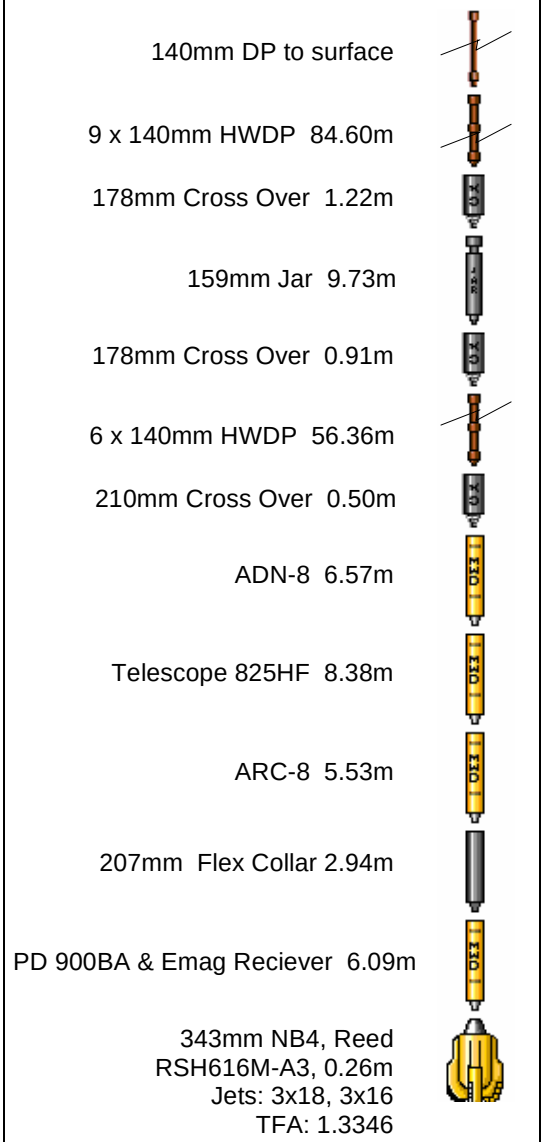
WOB klbf	0.9	-	42.3
RPM Surf	72	-	173
Pump Pressure psi	2719	-	3978
Flow In gpm	646	-	1205
Torque kft.lb	0	-	18.3

Mud
SBM 1.43 – 1.45 sg

Lithology
Calcilutite, Claystone, Siltstone, Sandstone, Volcanics & Coal

Drilling Summary
BHA 4 was made up on a 343mm (13-1/2”) bit with MWD tools. The 343mm (13-1/2”) hole was drilled from 758.0 to 2031.0 mMDRT with SBM mud. The BHA was pulled out and racked back without any tight spots.

BHA No. 4: 183.09m



Longtom-4
343mm (13-1/2”) Hole Section
03 - 06 July 2008

Bit Run No. 5 Summary

Bit No.	NB 5
Bit Size	343 mm
Bit Type	PDC / Smith M516LSPX
Serial Number	JY2593
Jets	3x18, 2x20
Depth In, mMDRT	2031.0
Depth Out, mMDRT	2600.0
Bit Grading	0-0-NO-A-X-I-NO-TD

Drilling Parameters

WOB klbf	2.3	-	51.5
RPM Surf	100	-	169
Pump Pressure psi	3251	-	4252
Flow In gpm	983	-	1222
Torque kft.lb	0.2	-	18.3

Mud
SBM 1.43 – 1.45 sg

Lithology
Claystone & Sandstone

Drilling Summary
BHA 5 was made up on a 343mm (13-1/2”) bit with MWD tools and tested. The Smith M516LSPX bit drilled from 2031.0 mMDRT to section TD at 2600.0 mMDRT. The MWD survey was taken every stand. At TD, the hole was circulated clean before POOH to 2316.0 mMDRT. 30 bbl of 1.70 sg slug was pumped before continuing to POOH to 1741.0 mMDRT. Intermittent tight spots were at 2215.0, 1888.0 and 1781.0 to 1727.0 mMDRT. Pumping and back reaming was done from 1752.0 to 1604.0 mMDRT due to the inability to wipe clear at 1741.0 mMDRT. POOH continued from 1604.0 mMDRT to make way for the wireline logging operations.

BHA No. 5: 184.00m

Longtom-4
343mm (13-1/2”) Hole Section
09 July 2008

Bit Run No. 6 Summary

Bit No.	RB 6
Bit Size	343 mm
Bit Type	PDC / Smith M516LSPX
Serial Number	JY2593
Jets	3x18, 2x20
Depth In, mMDRT	2600.0
Depth Out, mMDRT	2600.0
Bit Grading	0-0-NO-A-X-I-NO-LOG

Drilling Parameters

WOB Klbf	5.0
RPM Surf	150
Pump Pressure psi	3900
Flow In gpm	1050
Torque kft.lb	5 - 8

Mud
SBM 1.44 sg

Lithology
Wiper Trip

Drilling Summary
BHA 6 was made up on a 343mm (13-1/2”) rerun Smith M516LSPX bit. The bit broke circulation at 2594.0 mMDRT. The junk basket was worked 3 times on bottom prior to circulating the hole clean. A 15 minutes flow check was done before pumping and backreaming from 2600.0 to 2258.0 mMDRT. No excessive drag was observed and circulation was done to clean the hole. BHA 6 then was pulled out of the hole without any tight spots.

BHA No. 6: 185.98m

Longtom-4 P
241mm (9-1/2") Pilot Hole Section
24 – 25 July 2008

Bit Run No. 7 Summary

Bit No.	NB 7
Bit Size	241 mm
Bit Type	PDC / M716SPXC
Serial Number	JY2803
Jets	7x16
Depth In, mMDRT	2600.0
Depth Out, mMDRT	2841.0
Bit Grading	2-4-BT-A-X-I-RO-CP

Drilling Parameters

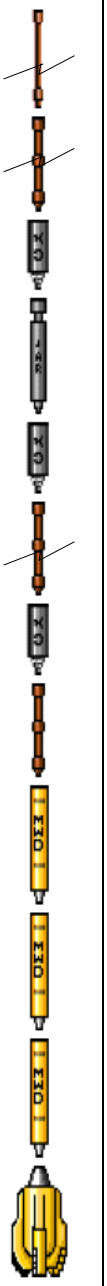
WOB Klbf	3.0	-	33.0
RPM Surf	170	-	209
Pump Pressure psi	2800	-	3150
Flow In gpm	710	-	770
Torque kft.lb	0.10	-	15.2

Mud
SBM 1.43 sg

Lithology
Claystone, Siltstone, Sandstone, Coal

Drilling Summary
BHA 7 was made up on a 241mm (9-1/2") bit with MWD tools, shallow tested and run in the hole to 2525.0 mMDRT. From 2525.0 mMDRT the string was washed down to tag the top of the cement at 2551.0 mMDRT and drilled down cement to shoe at 2600.0 mMDRT. Drilled 4m of new formation and conducted an FIT to 818psi (14ppg EMW) using 11.95ppg SBM. The 241mm (9-1/2") hole was drilled to 2841.0 mMDRT, the coring point and a survey was taken every stand. The MWD tool failure caused a drop in angle by +/- one degree per stand. At TD two bottoms up were circulated and the string pulled out with backreaming and captured the missed data over intervals from 2800.0 to 2790.0, 2755.0 to 2745.0 and 2725.0 to 2715.0 mMDRT. POOH on the trip tank to surface without any down hole losses and laid out the BHA for coring.

BHA No. 7: 214.97m



Longtom-4 P
241mm (9-1/2") Pilot Hole Section
3-1/2"Coring Run
27 July 2008

Bit Run No. 8 Summary

Bit No.	CB 8
Bit Size	241 mm
Bit Type	Core Bit / HTC BHC -406
Serial Number	7212164
TFA	0.75
Depth In, mMDRT	2841.0
Depth Out, mMDRT	2896.0
Bit Grading	1-1-WT-A-X-I-NO-TD

Drilling Parameters

WOB klbf	1.0	-	9.0
RPM Surf	59	-	70
Pump Pressure psi	830	-	1020
Flow In gpm	220	-	225
Torque kft.lb	0.1	-	11.1

Mud
SBM 1.43 – 1.45 sg

Lithology
Claystone & Sandstone

Drilling Summary
BHA 8 was made up on a 216mm (8-1/2") core bit and core barrels. Hughes Core Bit / HTC BHC -406 cut core from 2841.0 to 2896.0 mMDRT in 3.6hrs. The BHA was RIH to 2812.0 mMDRT and washed down to 2841.0 mMDRT with 300gpm and dropped ball to divert the flow which followed by an increase in pressure from 400psi to 750psi. After taking a slow circulation rate, started cutting the 89mm (3-1/2") core from 2841.0 to 2896.0 mMDRT and broke the core with 25Klbs of over pull. The core barrels were pulled out with a slow rate of 5min/stand to 10min/stand and checked for H2S gas after the top sub was broken open and recovered 99.4% of the core.

BHA No. 8: 306.29m

Longtom-4 P
241mm (9-1/2") Pilot Hole Section
28 July 2008

Bit Run No. 9 Summary

Bit No.	NB 9
Bit Size	241 mm
Bit Type	PDC / Smith M716SPXC
Serial Number	JY2802
Jets	7x16
Depth In, mMDRT	2896.0
Depth Out, mMDRT	2987.0
Bit Grading	1-7-WT-S-X-I-RO-TD

Drilling Parameters

WOB klbf	7.0	-	25.0
RPM Surf	110	-	162
Pump Pressure psi	2310	-	3130
Flow In gpm	650	-	725
Torque kft.lb	5.0	-	14.5

Mud
SBM 1.43 – 1.46 sg

Lithology
Claystone, Sandstone, Volcanics.

Drilling Summary
BHA 9 was made up on a 241mm (9-1/2") bit with MWD tools and shallow tested at 650gpm. The Smith M716PXC bit drilled from 2896.0 mMDRT to hole TD at 2987.0 mMDRT. RIH and wash down from 2620.0 to 2637.0 mMDRT and reamed down to recapture the missing MWD data of the previous run from 2720.0 to 2735.0, 2750.0 to 2766.0 and 2792.0 to 2813.0 mMDRT using 500gpm, 120m/hr, 120rpm. Then the bit was RIH to 2841.0 mMDRT to ream the 216mm (8-1/2") core section from 2841.0 to 2896.0 mMDRT using 150rpm, 720gpm. The 241mm (9-1/2") hole was drilled to section TD at 2987.0 mMDRT while taking survey at every stand down without any problems. After hole TD the section from 2975.0 to 2987.0 mMDRT was reamed to capture the missing MWD/LWD data. Flow checked the well, pumped slug and pulled out to the casing shoe without any over pull or down hole losses. The BHA was pulled and laid out to run the Wire-line logs.

BHA No. 9: 209.02m

Longtom-4 H
241mm (9-1/2") Production Hole Section
02 - 05 August 2008

Bit Run No. 10 Summary

Bit No.	NB 10
Bit Size	241 mm
Bit Type	PDC/ Reed RSR616M-B3
Serial Number	218795
Jets	6x16
Depth In, mMDRT	2696.0
Depth Out, mMDRT	3577.0
Bit Grading	2-6-BT-S-X-I-JD-DTF

Drilling Parameters

WOB klbf	3	-	25
RPM Surf	120	-	155
Pump Pressure psi	2800	-	3600
Flow In gpm	700	-	805
Torque kft.lb	10	-	15

Mud
SBM 1.43 – 1.45 sg

Lithology
Claystone & Sandstone

Drilling Summary
BHA 10 was made up on a 241mm (9-1/2") bit with MWD tools and shallow tested. The Reed RSR616M-B3 bit on MWD tools was run in the hole to tag the top of the cement plug set in Longtom-4P hole at 2690.0 mMDRT. Cement was drilled to 2696.0 mMDRT and reamed several times to prepare a ledge for the sidetrack. Time drilled as per the directional driller's requirement from 2696.0 to 2719.0 mMDRT to commence kick-off with 680gpm, 2500psi, 120rpm, WOB: 5-7klbs, Torque 5-6kftlbs. The allowable ROP was increased in stages to confirm the sample composition at each increase to ensure the kick-off not dropping back into the pilot hole. Drilling on the directional hole continued to 3577.0 mMDRT with MWD tool failure a number of times. The decision was made to pull out of the hole to change the BHA. Circulated two bottoms up and pulled out of the hole to the casing shoe. There was couple of tight spots from 3230.0 to 3147.0 mMDRT with a maximum of 35klbs over pull. A flow-check was performed, pumped slug and pulled the BHA out of the hole.

BHA No. 10: 214.80m

Longtom-4 H
241mm (9-1/2") Production Hole Section
07 - 10 August 2008

Bit Run No. 11 Summary

Bit No.	NB 11
Bit Size	241 mm
Bit Type	PDC/Smith RSX616M-A4
Serial Number	216535
Jets	6x16
Depth In, mMDRT	3577.0
Depth Out, mMDRT	4648.0
Bit Grading	1-1-WT-X-I-NO-TD

Drilling Parameters

WOB klbf	4	-	22
RPM Surf	148	-	154
Pump Pressure psi	3600	-	4240
Flow In gpm	740	-	792
Torque kft.lb	8	-	15

Mud
SBM 1.43 – 1.45 sg

Lithology
Claystone & Sandstone

Drilling Summary
BHA 11 was made up on a 241mm (9-1/2") bit with MWD tools and shallow tested. The Reed RSR616M-B3 bit on MWD tools was run in the hole to 3129.0 mMDRT. From 3129.0 to 3289.0 mMDRT the pipe was worked through the tight spots including washing and reaming. Run in the hole to 3555.0 mMDRT, washed down and worked out the tight spots between 3555.0 to 3577.0 mMDRT. Drilling then continued ahead from 3577.0 to 4648.0 mMDRT which was the well TD. Two bottoms up were circulated and pumped out while backreaming to the shoe. There was a flow check performed at the shoe, pumped the slug and pulled out of the hole on the trip tank. Downloaded the MWD data and layed out the BHA.

BHA No. 11: 214.79m

3.2 Casing and Cementing

Longtom-4
762 mm x 610 mm (30”x 24”)
Conductor
21 June 2008

Hole Size: 914 mm (36")
Depth: 132.0 mMDRT

Casing Details
OD 762 mm (30”)
Grade / Wt: X-52 / 310 lb/ft

Joints: 2 x 762mm Jt
1 x 610mm shoe Jt

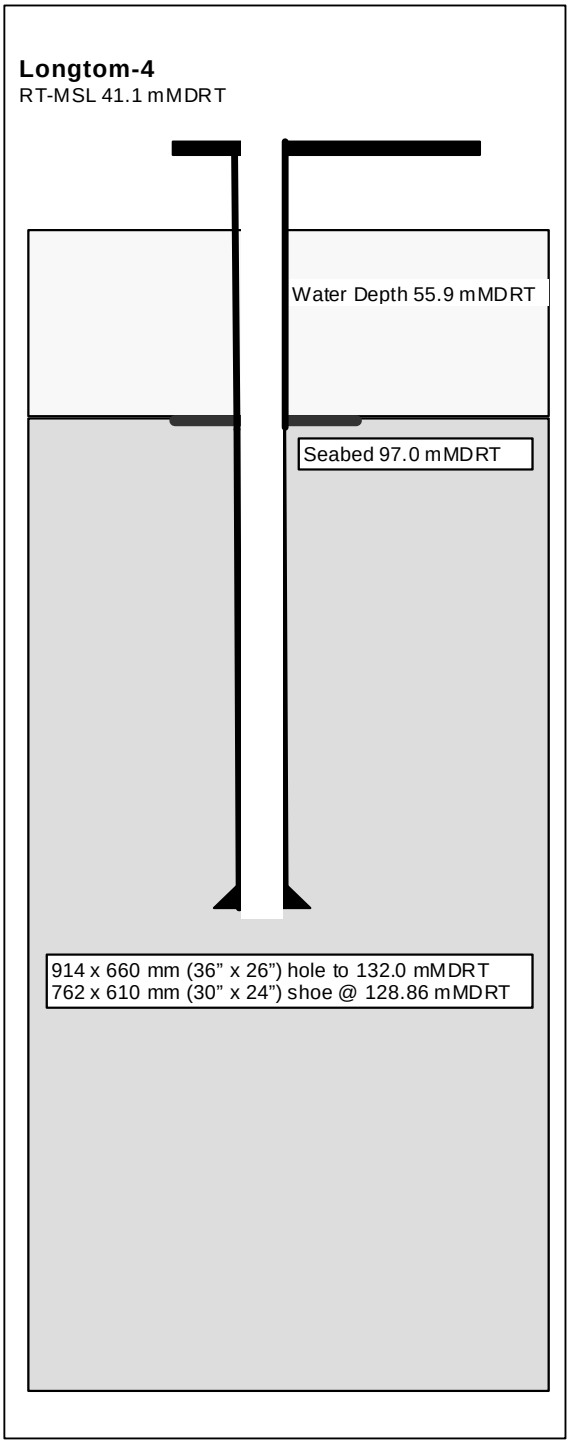
Shoe: 128.86 mMDRT

Cement Details

TYPE: Class G
WEIGHT: 1.89 sg (15.8ppg)
SLURRY VOL: 150 bbl

Summary

A total of 2 joints of 762 mm (30”) and 1 joint of 610mm (24”) shoe joint of casing were run in hole with the shoe set at 128.86 mMDRT. The casing reached bottom with no problems. The casing was circulated out briefly to verify that returns were good. The cement lines were pressure tested to 1500psi prior to cement job. The casing was successfully cemented as per program.



Longtom-4

406 mm (16”) Casing
24 - 25 June 2008

Hole Size: 559 mm (22")
Depth: 755.0 mMDRT

Casing Details
OD 406 mm (16”)

Grade / Wt: NT80DE / 75 lb/ft
Joints: 54 Joints Inc. shoe Jt

Shoe: 750.03 mMDRT

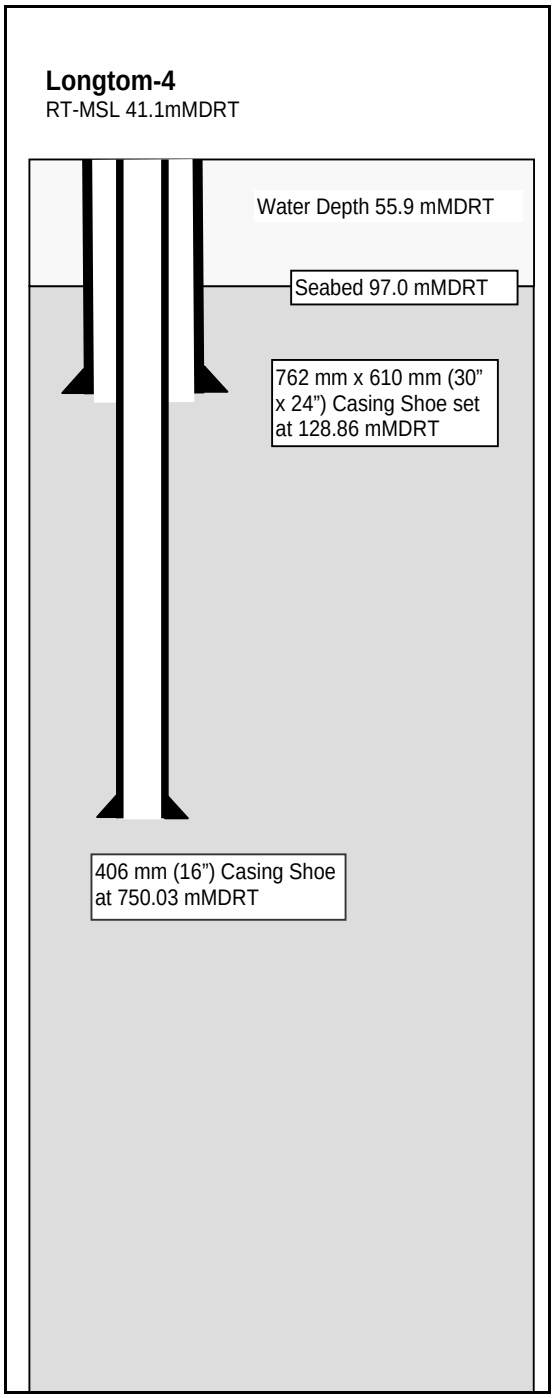
Cement Details

LEAD CEMENT:
TYPE: Class G
WEIGHT: 1.5 sg (12.5 ppg)
SLURRY VOL: 525 bbl

TAIL CEMENT:
TYPE: Class G
WEIGHT: 1.90 sg (15.8 ppg)
SLURRY VOL: 235 bbl

Summary

A total of 54 joints of 406 mm (16”) casing, float collar joint, pup joints and shoe track were run in hole with the shoe set at 750.03 m. The casing was run as per tally, filling up every joint with sea water. The casing reached bottom with no problem. The cement lines were pressure tested to 2500psi prior to cement job. The 476mm (18-3/4”) well head was made up to 16” casing joint and run in hole with landing string, land out well head at 30” conductor and confirmed latched in to well head with 50k overpull. The top of 476mm (18-3/4”) well head was at 93.93m and casing shoe at 750.03m. The casing was cemented as per programme.



Longtom-4
273 mm (10-3/4”) Casing
12 - 16 July 2008

Hole Size: 343 mm (13-1/2")
Depth: 2600.0 mMDRT

Casing Details
OD 273 mm (10-3/4”)

Grade / Wt: L80: 55 lb/ft
Joints: 1 Float Shoe Jt
1 Inter Jt
1 Float Collar
1 Float Collar Jt
3 60.7# Q125 Jt
2 NSCC Pin x Tenaris Box X/O
208 Joints

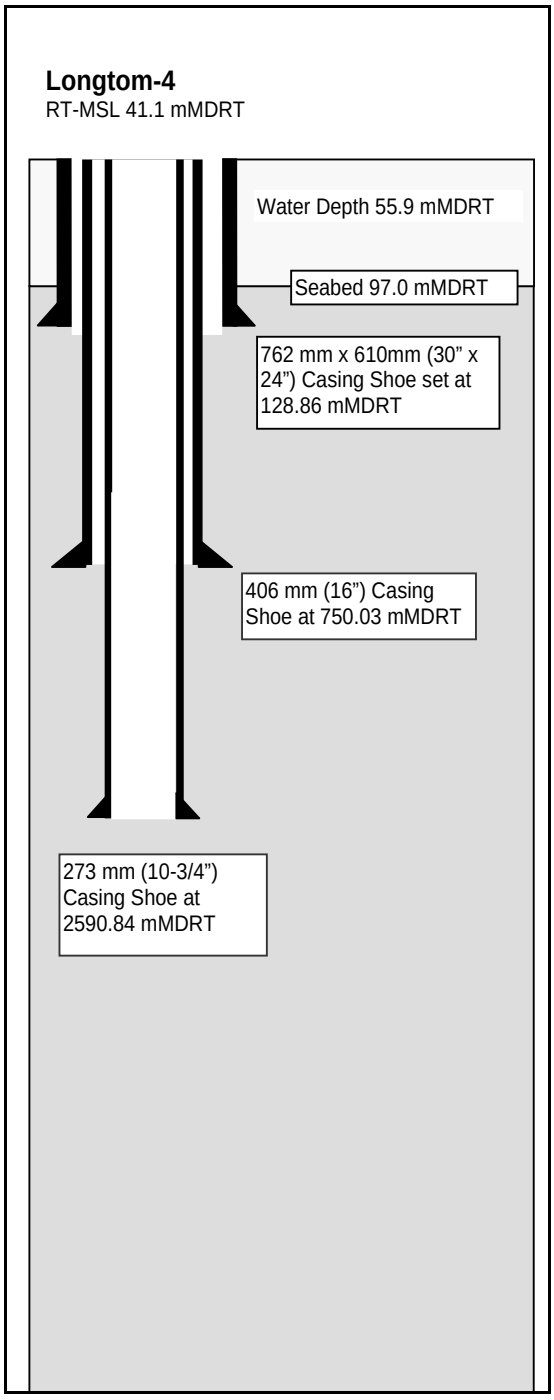
Shoe: 2590.84 mMDRT

Cement Details

CEMENT:
TYPE: Class G
WEIGHT: 1.89 sg (15.34 ppg)
SLURRY VOL: 200 bbl

Summary

The 10-3/4” casing was set at 2590.84 m with float collar at 2566.77m. The surface lines were rigged up and circulated 1.5 casing volume at 8bbl/min at 800 psi, without any losses. After pressure testing surface lines at 4000 psi, 50bbls of tuned spacer was pumped at 6.6bbl/min and 430 psi. There was pressure increase from 430psi to 2700psi. and fell back to 430psi. Dropped ball and pumped 3.5bbls in attempt to launch the bottom plug and no increase in pressure was observed. After discussion with town, assessed the situation and circulated casing volume at 10bbl/min and 650psi. There was increase in pressure to 4500psi after pumping 755bbls of casing volume. Bleed off pressure and rigged down cement lines then run and installed wear bushing. A 9-1/2” BHA was made up and run in hole to drill out the top and bottom plug, float collar and shoe. Pulled out BHA and run in hole cement stinger to 2490m and set RTTS packer at 140m then circulate hole to clean around casing at 590gpm and 1325psi. After pressure testing surface lines to 3000psi the 30bbl spacer followed by 200bbl cement Class G at 15.8ppg was pumped and displaced with SBM using rig pumps.



Longtom-4 P
Kick-Off Cement Plug
31 July 2008

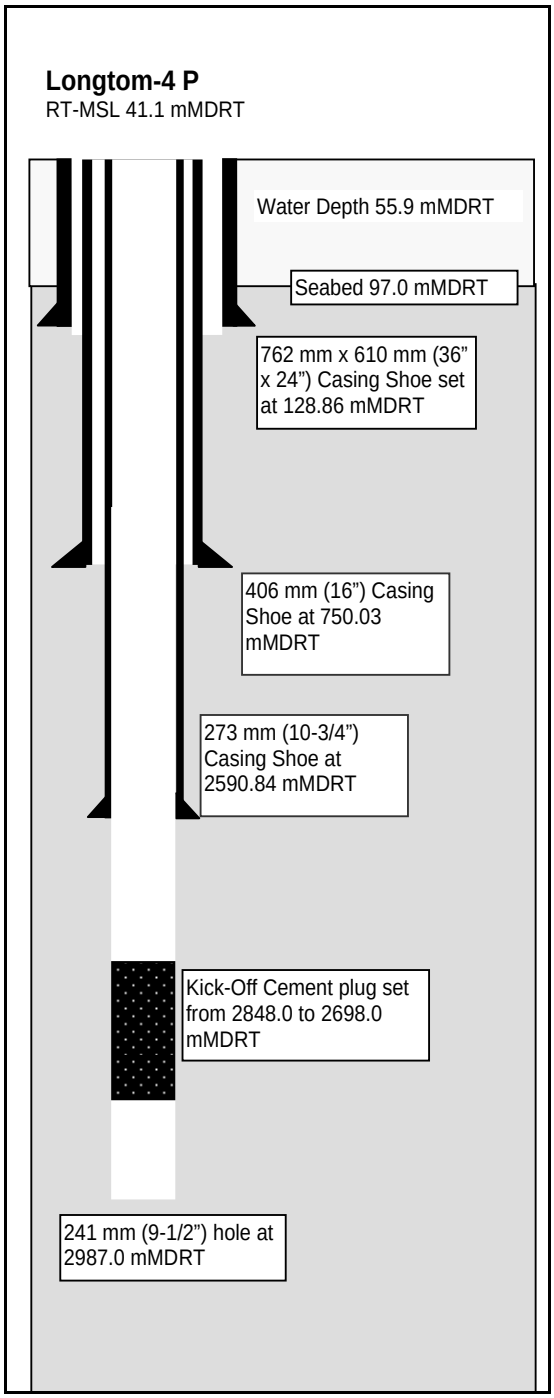
Hole Size: 241 mm (9.5")
Depth: 2987.0 mMDRT

Cement Plug Details

TYPE: Class G
WEIGHT: 1.98 sg (16.5 ppg)
SLURRY VOL: 52 bbl

Summary

The cement stinger made up of 140 mm (5.5") drill pipe was run in hole to 2858.0m as per Nexus's program. Then a foam ball was dropped, one string volume circulation was done and CST was inserted. Pulled back to 2855.0m and displaced CST with 185bbl and pumped a further 50 bbl of SBM. Cement stinger was spaced to 2848.0m, side entry sub and kelly cock was mude up and the lines were pressure tested to 1000 psi. Placed balance cement from 2848.0m to 2698.0m by pumping ahead 10 bbl of water and 15 bbl of tuned spacer at 13.8 ppg, 52 bbl of Class G cement at 16.5ppg and behind: 5 bbl of tuned spacer and 3.5 bbl of water. The cement was displaced with 165 bbl of SBM. Cement lines and side entry sub were rigged down and the cement stinger was pulled back to 2681.0m to circulate out excess cement at 800gpm. 25 bbl of slug was pumped before the cement stinger was pulled out of hole to drill the sidetrack hole Longtom-4 H.



Longtom-4 H
178 mm (7.0”) Liner
11 - 18 August 2008

Hole Size: 241 mm (9.5”)
Depth: 4648.0 mMDRT

Casing Details
OD 178 mm (7”)

Grade / Wt: L80: 26-29 lb/ft
Joints: 1 Shoe joint
64 29 lb/ft Joints
127 26 lb/ft Joints
2 Cross-over

Shoe: 4648.0mMDRT

Cement Details

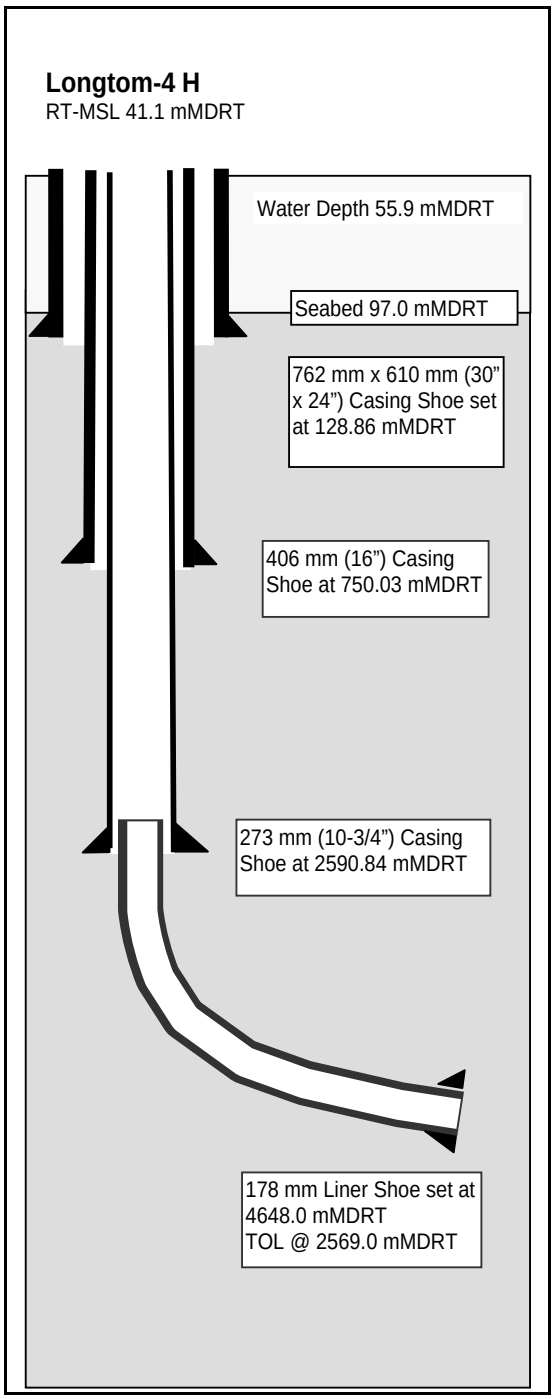
CEMENT (LOWER LINER):
TYPE: Class HTB
WEIGHT: 1.80 sg (15.0 ppg)
SLURRY VOL: 138 bbl

CEMENT (UPPER LINER):
TYPE: Class HTB
WEIGHT: 1.80 sg (15.0 ppg)
SLURRY VOL: 30 bbl

Summary

178mm (7”) liner was run to 4648.0m with the top of liner set at 2569.0m. Observed pressure increased to 2500psi after 4 bbl of cement pumped. Bleed of pressure and open cement lines to confirmed flow path and assess the situation. When cement unit commenced pumping drill water at 4 bbl/min pressure increased to 3100 psi and then gradually dropping to 2000psi and there were returns in flowline. Pump rate was increased to 5 bbl/min at 3500 psi and stopped when 450psi pressure differential was observed. Then the cement head was pulled out of hole with 178mm (7”) liner running tool. A 178mm (7”) RTTS was RIH and set at 2735.0m. Attempt to circulate liner with mud pumps but no returns were observed with pressure increased to 5000 psi. The 178mm (7”) RTTS was then pulled out of hole. A 86mm (3-3/8”) TCP with RTTS were RIH to 4545.0m and circulated at 400 psi. The bottom of TCP was placed at 4560.0m while the RTTS was set at 2966.3m. The TCP perforated at depth of 4560.0m to 4558.0m and circulated. Unset the RTTS and pulled back. Cement stand was made up and set RTTS at 2590.0m. Cement lines were test to 3000 psi prior to cement job of the lower 178mm (7”) liner which was successful. Cement head and 86mm (3-3/8”) TCP with RTTS were pulled out of hole after circulation indicating no cement returns at the shakers.

Schlumberger wire line GR/CCL/HSD gun was RIH to 2675.0m, perforated at depth of 2673.5m to 2675.0m and pulled out of hole. A cement retainer was RIH and set at 2669.0m. Cement stand was made up and tested the lines to 3000 psi prior to cement the upper 178mm (7”) liner. Cementing of the upper 178mm (7”) liner was successfully done.



SECTION 4

GEOLOGY & SHOWS

4.1 ROP, Gas and Shows

Geological logging for Longtom-4 commenced at 758.0 mMDRT, below the 406 mm (16'') casing shoe at 750.03 mMDRT to the total depth of 2600.0 mMDRT. (All depths given in this section are measured from the Rotary Table, unless otherwise specified).

During the course of the well all gas equipment was checked and calibrated regularly, and spot samples were taken during drilling breaks and other changes in drilling parameters to better assess lithological change. Drilled gas, trip gas, connection gas, re-circulated gas and swab gas levels were monitored.

The lithology of Longtom-4 is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log. Please note that the descriptions on the Formation Evaluation Log were provided by the Nexus Wellsite Geologists.

DITCH CUTTING SAMPLING INTERVAL

Longtom-4

Depth	Sample interval	Sample Type
758.0 – 780.0	25m	normal
780.0 – 1200.0	30m	normal
1200.0 – 1600.0	10m	normal
1600.0 – 2600.0	5m	normal

Missed samples:
Due to high ROP
1280.0, 1290.0, 1300.0, 1320.0, 1715.0, 1740.0, 1865.0, 1875.0, 1890.0, 1910.0, 2060.0, 2075.0, 2085.0, 2095.0, 2105.0, 2115.0, 2125.0, 2145.0, 2155.0, 2165.0, 2205.0 & 2470.0 mMDRT.

FORMATION DESCRIPTION

758.0 to 1291.0 mMDRT / ROP 2.3 – 147.8m/hr (Ave 87.9)

Seafloor/ Gippsland Limestone Formation

CALCILUTITE (100%): medium grey to brownish grey, very light grey to light grey, very soft to soft, minor moderately firm, amorphous to sub blocky, blocky in parts, dispersive, common nodular pyrite, minor fossils and shell fragments (Foraminifera), trace crystalline calcite, trace dark green glauconite nodules, common medium grey argillaceous matrix, grading to argillaceous calcilutite.

1291.0 to 1695.0 mMDRT / ROP 0.1 – 134.7m/hr (Ave 45.20)

CALCILUTITE (0-10%): very light grey to light grey, light grey to medium brownish grey, soft to moderately firm, amorphous, sticky, trace crystalline calcite, trace nodular pyrite, trace dark green glauconite nodules

SANDSTONE (10-100%): Quartzose, white to very light grey, trace light brownish grey, pale yellowish orange, clear to translucent grains, transparent to translucent grains, trace milky, returned loose, bimodal, fine to granule, predominantly coarse to granule in places, predominantly fine to medium, very angular to rounded, poorly sorted, low to high sphericity, elongated, trace pyrite frosting on some rounded grains, trace intergranular pyrite, trace nodular pyrite, trace lithic grains, trace mica, trace pyrite cement, silty fine to very fine Sandstone aggregates, trace siliceous cement, trace light grey argillaceous matrix, trace minor feldspar and lithics, good inferred porosity, fair inferred porosity, No shows

COAL (0-80%): brownish black to black, black, moderately hard to hard, firm, brittle, sub blocky to sub conchoidal fracture, blocky, sub fissile to fissile, sub vitreous to vitreous luster, moderately dull to bright, dull, concoidal to sub fissile, grading to carbonaceous Siltstone

SILTSTONE (0-85%): brownish grey to grayish brown, light to medium grey, brownish grey, friable to moderately firm, firm to moderately hard, soft to moderately hard, amorphous in parts, sub fissile to sub blocky, sub blocky to blocky, abundant very fine carbonaceous specks, non calcareous, rarely with lenses of microcrystalline pyrite, black carbonaceous to coaly microlaminae, nodular to irregular pyrite masses, grading to argillaceous Siltstone

CLAYSTONE (0-70%): very light brown, brownish grey to dark grey, medium light grey to medium grey, soft to firm, firm to moderately hard, moderately firm to predominantly firm, dispersive, sticky, sub fissile, sub blocky to blocky, slightly dispersive, minor disseminated pyrite, common carbonaceous fragments, non calcareous, common quartz silt, grading to SiltyClaystone

1695.0 to 1710.0 mMDRT / ROP 10.4 – 80.7m/hr (Ave 30.30)

VOLCANICS (20-90%): off white, light grey to light green, specky grey to dark grey, soft to moderate firm, Occasionally soft, subblocky to blocky non calcareous, rarely with clusters of pyrite crystals

1710.0 to 1755.0 mMDRT / ROP 15.3 – **100.5m/hr (Ave 46.4)**

SILTSTONE (20-50%): brownish grey, dark yellowish brown to dusky brown, moderately hard, blocky to sub fissile, non calcareous, rarely with carbonaceous microlaminae, grading to Claystone

SANDSTONE (5-75%): Quartz, white to very light grey, transparent to translucent, dominantly loose, trace soft, medium to very coarse, predominantly coarse, moderately sorted, angular to subangular, minor subrounded, low to high spherical, trace pyrite grains good inferred porosity, no show

VOLCANICS (0-60%): off white, light grey to light green, specky grey to dark grey, soft to mod firm, Occasionally soft, subblocky to blocky non calcareous, rarely with clusters of pyrite crystals

1755.0 to 2215.0 mMDRT / ROP 6.1 – 102.9m/hr (Ave 45.00)

CLAYSTONE (10-100%): medium grey to medium dark grey, light brownish grey to brownish grey, occasionally light grey, moderate firm to firm, soft in parts, sub blocky to blocky, occasionally laminated, trace to common quartz silt, trace disseminated and nodular pyrite, trace carbonaceous fragments, non calcareous, Grading to Siltstone

SILTSTONE (5-70%): brownish grey, dark yellowish brown to dusky brown, moderately hard, blocky to sub fissile, non calcareous, rarely with carbonaceous microlaninae, grading to Claystone

COAL (tr-5%): black, firm, blocky to subblocky, earthy to subvitreous, luster, brittle

SANDSTONE (0-90%): quartzose**,** light grey, white to very light grey, pale grey, moderate orange pink, loose, Transparent to translucent, occasionally opaque, friable to moderate hard, very hard in parts, very fine to fine, medium coarse grains in parts, angular to subrounded, subspherical to spherical, moderately well sorted, moderate calcareous cement, poor inferred porosity, No show

2215.0 to 2316.0 mMDRT / ROP 9.9 – 94.1m/hr (Ave 61.80)

CLAYSTONE (5-100%): medium grey to medium dark grey, light brownish grey to medium brownish grey in part, firm to moderately hard, minor soft, subfissile to fissile, sub blocky to blocky, amorphous, trace quartz silt, trace disseminated and nodular pyrite, trace quartz silt, trace carbonaceous fragments, non calcareous, homogeneous, locally with carbonaceous streaks.

SANDSTONE (tr-100%): quartzose, very light grey, white to off white, clear to translucent and milky grains, commonly returned loose, friable to firm aggregates, very fine to medium grained, predominantly very fine to fine, rare medium, angular to sub rounded, trace rounded, low to moderate sphericity, well sorted, common white to light brownish grey argillaceous matrix, trace weak calcareous cement, trace black and greenish black lithic grains, trace moderate brown to moderate red lithics, trace weathered feldspar grains, poor to fair inferred porosity, No shows.

2316.0 to 2494.0 mMDRT / ROP 13.6 – 108.2 m/hr (Ave 60.20)

SANDSTONE (10-100%): quartzose, very light grey to light grey, clear to translucent grains, trace milky, trace moderate red stained, predominantly returned loose, minor friable to firm aggregates, very fine to very coarse grained, predominantly fine to medium, sub angular to sub rounded, trace angular, very angular, low to moderate sphericity, well sorted, trace light grey argillaceous matrix, calcite cemented in aggregates, trace weathered feldspar grains, trace brownish black lithic grains, poor to fair inferred porosity. No Shows.

CLAYSTONE (5-100%): medium grey to medium dark grey, light brownish grey to medium brownish grey in part, firm to moderately hard, minor soft, sub blocky to blocky, amorphous, trace quartz silt, trace disseminated and nodular pyrite, trace quartz silt, trace carbonaceous fragments, non calcareous, grading to siltstone

2494.0 to 2564.0 mMDRT / ROP 13.9 – 75.9m/hr (Ave 44.10)

SANDSTONE (10-100%): quartzose, white to off white, pale grey, clear to translucent grains, trace milky, trace moderate red stained, predominantly returned loose, minor friable to firm aggregates, very fine to very coarse grained, predominantly fine to medium, sub angular to sub rounded, trace angular, very angular, low to moderate sphericity, well sorted, trace light grey argillaceous matrix, calcite cemented in aggregates, trace weathered feldspar grains, trace brownish black lithic grains, poor to fair inferred porosity. No Shows.

CLAYSTONE (5-100%): medium grey to medium dark grey, light brownish grey to medium brownish grey in part, firm to moderately hard, minor soft, sub blocky to blocky, amorphous, trace quartz silt, trace disseminated and nodular pyrite, trace quartz silt, trace carbonaceous fragments, non calcareous, grading to siltstone

2564 to 2600mMDRT / ROP 12.1 – 52.5m/hr (Ave 36.9)

SANDSTONE (10-40%): aggregate to lose quartz grains, translucent to transparent, white to very light grey, friable, very fine to fine, occasionally medium, sub angular to rounded, moderately to well sorted, argillaceous matrix, calcareous cement, fair visual porosity. No Shows

CLAYSTONE (60-90%) : medium dark grey, occasionally brown grey, moderately firm to firm, occasionally soft, occasionally hard, sub blocky to blocky, occasionally laminated, grading to Siltstone.

Gas and ROP Readings for Longtom-4

Interval (mMDRT)	Total Gas range Min-max (%)	Total Gas Average (%)	ROP Range (m/h)	ROP Average (m/h)
755.0 – 1291.0	0.00 – 0.51	0.19	2.3 – 147.8	87.9
1291.0 – 1695.0	0.02 – 1.13	0.14	0.1 – 134.7	45.2
1695.0 – 1710.0	0.03 – 0.05	0.04	10.4 – 80.7	30.3
1710.0 – 1755.0	0.01 – 0.06	0.04	15.3 – 100.5	46.4
1755.0 – 2215.0	0.01 – 0.56	0.15	6.1 – 102.9	45.0
2215.0 – 2316.0.	0.09 – 0.58	0.31	9.9 – 94.1	61.8
2316.0 – 2494 0	0.02 – 0.72	0.13	13.6 – 108.2	60.2
2494.0 – 2564.0.	0.06 – 3.99	1.17	13.9 – 75.9	44.1
2564.0 – 2600 0	0.06 – 0.27	0.16	12.1 – 52.5	36.9

Gas Peak readings for Longtom-4

375mm (13-1/2") Hole Section

Depth Interval (mMDRT)	Total Gas (%)	Depth Max Gas (m)	C1 Range (ppm)	C2 Range (ppm)	C3 Range (ppm)	iC4 Range (ppm)	nC4 Range (ppm)	iC5 Range (ppm)	nC5 Range (ppm)	Gas Peak Type & Number
755.0 – 1291.0	0.51	1014.0	8 – 5437	0 – 49	0 – 14	0 – 1	0 – 2	0	0	Formation Gas
1291.0 – 1695.0	1.13	1324.0	58 – 6456	2 – 157	2 – 83	0 – 6	0 – 10	0 – 1	0 – 1	Formation Gas
1695 0.– 1710.0	0.05	1696.0	128 – 255	12 – 25	7 – 19	0 – 1	3 – 7	0	0	Formation Gas
1710.0 – 1755.0	0.06	1714.0	18 – 348	3 – 27	1 – 23	0 –1	0 – 10	0	0	Formation Gas
1755.0 – 2215.0	0.56	2167.0	38 – 5127	2 – 88	1 – 68	0 – 4	0 – 10	0 – 2	0	Formation Gas
2215.0– 2316.0	0.58	2286.0	339 – 5009	12 – 94	3 – 25	0 – 2	0 – 3	0	0	Formation Gas
2316.0 – 2494.0	0.72	2494.0	49 – 3655	1 – 86	1 – 34	0 – 2	0 – 5	0	0	Formation Gas
2494.0 – 2564.0	3.99	2508.0	352 – 33136	15 – 673	14 – 220	2 – 21	3 – 27	0 – 3	0 – 3	Formation Gas
2564.0 – 2600.0	0.27	2575.0	267 – 2403	12 – 80	13 – 37	1 – 4	3 – 7	0 – 1	0 – 1	Formation Gas

Longtom-4 P

Geological logging for Longtom-4P commenced at 2600.0 mMDRT, below the 273 mm (10-3/4'') casing shoe at 2590.0 mMDRT to the total depth of 2987.0 mMDRT. (All depths given in this section are measured from the Rotary Table, unless otherwise specified).

During the course of the well all gas equipment wAS checked and calibrated regularly, and spot samples were taken during drilling breaks and other changes in drilling parameters to better assess lithological change. Drilled gas, trip gas, connection gas, re-circulated gas and swab gas levels were monitored.

The lithology of Longtom-4P is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log. Please note that the descriptions on the Formation Evaluation Log were provided by the Nexus Wellsite Geologists.

Depth (mMDRT)	Sample interval	Sample Type
2600.0 – 2987.0	5m	normal

Missed samples:
Due to high ROP
2740.0, 2750.0, 2805.0 & 2955.0 mMDRT

No samples were taken due to Coring:
2845.0, 2850.0, 2855.0, 2860.0, 2865.0, 2870.0, 2875.0, 2880.0, 2885.0, 2890.0 & 2895.0 mMDRT

FORMATION DESCRIPTION

2600.0 to 2683.0 mMDRT / ROP 7.00-55.36m/hr (Ave 25.30)

SANDSTONE(0-70%): predominantly lose quartz grains, translucent to transparent, off white, very light grey to light grey in part, friable, very fine to fine, occasionally rounded grains, sub angular to rounded, pearly to moderately sorted, occasionally well sorted, argillaceous matrix, calcareous cement, fair visible porosity, No shows.

CLAYSTONE (40-100%): medium grey to medium light grey, brownish grey, occasionally greenish grey, soft to firm, sub blocky to blocky, silty.

SILTSTONE (0-50%): very light gray to light gray, very soft to soft, occasionally firm, sub-blocky to blocky, grading to very fine sandstone.

2683.0 to 2821.0 mMDRT / ROP 5.39 – 99.64m/hr (Ave 43.12)

SANDSTONE (5-90%): predominantly lose quartz grains, translucent to transparent, off white, brownish white, light grey to very light grey, occasionally medium grey, lose to friable, firm in part, fine to medium grains, occasionally course grains, sub rounded to rounded, moderately to well sorted, argillaceous matrix, calcareous cement, occasionally siliceous cement, occasionally carbonaceous streak and matrix, fair trace green and black lithic visible porosity, No shows.

CLAYSTONE (5-100%): medium grey to dark grey, occasionally greyish black, firm to moderately hard, sub blocky to blocky, occasionally elongated, abundant carbonaceous matrix, occasionally grading to siltstone.

2821.0 to 2957.0 mMDRT/ ROP 1.00-95.21m/hr (Ave 36.33)

SANDSTONE (20-90%): white to very light grey, clear to translucent quartz grains, predominantly soft to friable aggregate, fine grains, sub angular to sub rounded, spherical, very well sorted, very light grey argillaceous matrix, occasionally mottled with carbonaceous material poor to fair visible porosity, No Shows

CLAYSTONE (5-80%): medium light grey to medium grey, moderately firm to firm, occasionally hard, sub blocky, common carbonaceous material, silty.

2957.0 to 2968.0 mMDRT / ROP 30.19 – 97.47m/hr (Ave 60.34)

SANDSTONE (50-60%): light grey, medium hrey in part, translucent to transparent, friable, firm to moderately hard, fine to medium grains, sub rounded to rounded, pearly to moderately sorted, argillaceous matrix, occasionally mottled with carbonaceous material, fair visible porosity, No shows.

CLAYSTONE (40%): medium light grey to medium grey, moderately firm to firm, occasionally hard, sub blocky, common carbonaceous material, silty.

2968.0 to 2987.0 mMDRT / ROP 0.04 – 51.75m/hr (Ave 12.25)

VOLCANICS (100%): weathered base, greyish black, dark greenish grey, brownish black, hard to very hard, blocky, occasionally splintery, microcrystalline, tuff fragments, common medium to coarse sub hydrall plagioclase and quartz crystal, rarely cubic pyrite.

Gas and ROP Readings for Longtom-4 P

Interval (mMDRT)	Total Gas range Min-max (%)	Total Gas Average (%)	ROP Range (m/h)	ROP Average (m/h)
2600.0 – 2683.0	0.00 – 0.14	0.05	7.00 - 55.36	25.30
2683.0 – 2821.0	0.06 – 5.25	1.28	5.39 - 99.64	43.12
2821.0 – 2957.0	0.01 – 3.18	1.03	1.00 - 95.21	36.30
2957.0 – 2968.0	0.65 – 3.30	2.01	30.19 - 97.47	60.34
2968.0 – 2987.0	0.01 – 2.45	0.42	0.04 - 51.75	12.25

Gas Peak readings for Longtom-4 P

241mm (9-1/2") Hole Section

Depth Interval (mMDRT)	Total Gas (%)	Depth Max Gas (m)	C1 Range (ppm)	C2 Range (ppm)	C3 Range (ppm)	iC4 Range (ppm)	nC4 Range (ppm)	iC5 Range (ppm)	nC5 Range (ppm)	Gas Peak Type & Number
2600.0 – 2683.0	0.14	2622.0	5-1221	0-18	0-15	0-1	0-3	0	0	Formation Gas
2683.0 – 2821.0	5.25	2761.0	21524-46588	4-959	3-352	0-39	0-49	0-8	0-6	Formation Gas
2821.0 – 2957.0	3.18	2824.0	6-27553	0-735	1-228	0-30	0-31	0-8	0-5	Formation Gas
2957.0 – 2968.0	3.30	2967.0	6499-27798	86-577	25-154	2-14	3-17	0-3	0-2	Formation Gas
2968.0 – 2987.0	2.45	2969.0	12-28806	0-565	0-165	0-15	0-19	0-3	0-2	Formation Gas

Longtom-4 H

Geological logging for Longtom-4H commenced at 2696.0 mMDRT to the total depth of 4648.0 mMDRT. (All depths given in this section are measured from the Rotary Table, unless otherwise specified).

During the course of the well all gas equipment were checked and calibrated regularly, and spot samples were taken during drilling breaks and other changes in drilling parameters to better assess lithological change. Drilled gas, trip gas, connection gas, re-circulated gas and swab gas levels were monitored.

The lithology of Longtom-4H is described below. For more detailed descriptions, see Appendix 1: Formation Evaluation Log. Please note that the descriptions on the Formation Evaluation Log were provided by the Nexus Wellsite Geologists.

Depth (mMDRT)	Sample interval	Sample Type
2696.0 – 3580.0	5m	normal
3580.0 – 4640.0	10m	normal
4640.0 – 4648.0	8m	Bottoms Up (TD)

Missed samples:
Due to high ROP
3510.0 mMDRT

FORMATION DESCRIPTION

2696.0 to 2815.0 mMDRT / ROP 1.29 – 45.94m/hr (Ave 21.78)

SANDSTONE (5-95%): very light grey to light grey, dark grey in part, occasionally white, translucent to transparent, occasionally opaque, unconsolidated to friable aggregate, loose quartz grains, very fine to fine, occasional medium grains, occasional course grains in part, sub angular to sub rounded, sub spherical, poor to moderately well sorted, trace argillaceous matrix, calcareous cement, trace of carbonaceous material, trace of glauconite, poor inferred porosity, No shows.

CLAYSTONE (5-95%): medium dark grey to dark grey, moderately firm, firm, occasionally hard, sub blocky to blocky, grading to siltstone.

COAL (0-5%): black, firm, sub blocky to blocky, earthy to sub vitreous luster, brittle.

2815.0 to 3130.0 mMDRT / ROP 3.06 – 44.34m/hr (Ave 23.58)

SANDSTONE (0-100%): light grey to dark grey, medium dark grey to dark grey, light grey in part, greenish grey, occasionally white, translucent to transparent, occasionally opaque, friable to moderately hard, firm, unconsolidated in parts, very fine to fine, medium to course grains, course grains in parts, sub angular to sub rounded, angular in parts, sub elongated to sub spherical, poor to moderately sorted, moderately well sorted, little grey aggregate in part, trace argillaceous matrix, trace of coal fragments, trace of carbonaceous material, calcareous cement, trace of glauconite, trace of micritic laminations, poor visual porosity, poor inferred porosity, No shows.

CLAYSTONE (5-95%): light grey, medium dark grey to dark grey, occasionally greyish black, firm to hard, soft in part, sub blocky to blocky, occasionally sub fissile, amorphous, silty, no calcium carbonate, grading to siltstone.

COAL (0-10%): black, firm, blocky to sub blocky, earthy to sub vitreous luster, brittle.

3130.0 to 3640.0 mMDRT / ROP 8.76 – 51.05m/hr (Ave 29.98)

SANDSTONE (0-100%): medium dark grey to dark grey, translucent to transparent, fine to course grains, occasional very course grains, sub angular to sub rounded, sub spherical, poor to moderately sorted, moderate to well sorted, trace argillaceous matrix, siliceous cement, trace of glauconite, trace black lithic, rare disseminated pyrite, poor visual porosity, No shows.

CLAYSTONE (0-100 %): medium dark grey to dark grey, occasionally light grey, soft to firm, hard in part, sub blocky to blocky, amorphous in part, no calcium carbonate, trace of carbonaceous lithology, trace of carbonaceous material.

3640.0 to 4080.0 mMDRT / ROP 3.72 – 51.00m/hr (Ave 27.28)

SANDSTONE (0-100%): olive grey to medium light grey, light olive grey, occasional orange grains, clear to translucent, occasionally opaque, friable, very fine to fine grains, very fine to medium grains, course grains in part, sub angular to sub rounded, sub spherical, poor to moderately sorted, moderately sorted, well sorted, poor to moderate calcitic cement, weak calcitic cement, trace of glauconite, trace black lithic, poor visual porosity, poor inferred porosity, No shows.

CLAYSTONE (0-100%): medium grey to medium dark grey, medium grey to olive grey, medium grey to dark grey, soft to firm, sub blocky to blocky, fissile in part, no calcium carbonate, grading to siltstone.

4080.0 to 4250.0 mMDRT / ROP 6.93 – 42.52m/hr (Ave 28.37)

SANDSTONE (0-100%): medium light grey to light olive grey, occasional ferrous staining, transparent to translucent, friable to firm, very fine to fine grains, occasional medium grains, very fine to medium grains, occasional course grains, angular to sub angular, sub spherical, moderately sorted, weak to moderate calcitic cement, common black lithic, trace of glauconite, poor visual porosity, No shows.

CLAYSTONE (0-100%): brownish black, olive grey, medium light grey in part, soft to firm, sub blocky to blocky, trace of carbonaceous material, no calcium carbonate.

4250.0 to 4610.0 mMDRT / ROP 2.75 – 61.01m/hr (Ave 33.91)

SANDSTONE (0-100%): medium light grey to light olive grey, occasional ferrous staining, occasionally white, transparent to translucent, occasionally opaque, friable to hard, very hard in part, very fine to medium grains, sub angular to sub rounded, sub spherical, poor to moderately sorted, calcitic cement, trace of glauconite, trace argillaceous matrix, abundant coal fragments, trace of micritic laminations, poor visual porosity, No shows.

CLAYSTONE (0-100%): brownish black, olive grey, medium light grey in part, medium dark grey to dark grey, soft to firm, occasionally hard, firm to hard, sub angular to sub blocky, sub blocky to blocky, trace of carbonaceous material, no calcium carbonate, grading to siltstone.

4610.0 to 4648.0 mMDRT / ROP 19.45 – 42.90m/hr (Ave 39.17)

SANDSTONE (0-100 %): medium light grey to light grey, occasional ferrous staining, transparent to translucent, occasionally opaque, friable to hard, very hard in part, very fine to medium grains, sub angular to sub rounded, sub spherical, poor to moderately sorted, calcitic cement, trace of glauconite, trace argillaceous matrix, abundant coal fragments, trace of micritic laminations, poor visual porosity, No shows.

Gas and ROP Readings for Longtom-4 H

Interval (mMDRT)	Total Gas range Min-max (%)	Total Gas Average (%)	ROP Range (m/h)	ROP Average (m/h)
2696.0 – 2815.0	0.00 – 3.65	0.39	1.29 – 45.94	21.78
2815.0 – 3130.0	0.00 – 3.48	0.21	3.06 – 44.34	23.58
3130.0 – 3640.0	0.00 – 2.65	0.20	8.76 – 51.05	29.98
3640.0 – 4080.0	0.00 – 5.27	1.51	3.72 – 51.00	27.28
4080.0 – 4250.0	0.10 – 4.87	1.92	6.93 – 42.52	28.37
4250.0 – 4610.0	0.06 – 6.18	2.11	2.75 – 61.01	33.91
4610.0 – 4648.0	0.08 – 0.20	0.14	17.45 – 42.90	39.17

Gas Peak readings for Longtom-4 H

241mm (9-1/2") Hole Section

Depth Interval (mMDRT)	Total Gas (%)	Depth Max Gas (m)	C1 Range (ppm)	C2 Range (ppm)	C3 Range (ppm)	iC4 Range (ppm)	nC4 Range (ppm)	iC5 Range (ppm)	nC5 Range (ppm)	Gas Peak Type & Number
2696.0 – 2815.0	3.65	2759.0	27 – 32160	0 – 375	1 – 173	0 – 16	0 – 23	0 – 3	0 – 2	Formation Gas
2815.0 – 3130.0	3.48	2839.0	28 – 30420	0 – 524	0 – 174	0 – 23	0 – 26	0 – 6	0 – 5	Formation Gas
3130.0 – 3640.0	2.65	3239.0	28 – 22378	0 – 293	1 – 102	0 – 11	0 – 13	0 – 3	0 – 2	Formation Gas
3640.0 – 4080.0	5.27	3653.0	28 – 47069	0 – 1180	1 – 385	0 – 50	0 – 53	0 – 15	0 – 11	Formation Gas
4080.0 – 4250.0	4.87	4165.0	28 – 40451	0 – 1081	1 – 367	0 – 51	0 – 10	0 – 15	0 – 11	Formation Gas
4250.0 – 4610.0	6.18	4398.0	28 – 53715	0 – 1671	1 – 556	0 – 75	0 – 87	0 – 23	0 – 18	Formation Gas
4610.0 – 4648.0	0.20	4631.0	28 – 1722	0 – 17	1 – 14	0 – 2	0 – 3	0 – 1	0 – 1	Formation Gas

SECTION 5

PRESSURE EVALUATION

5.1 Pore Pressure Evaluation

Longtom-4

In drilling Longtom-4, a seawater density of 1.04sg was assumed as normal saline pressure gradient for all calculations. The equivalent depth method was applied in the Dxc analysis, with all the relevant data, such as connection gas, trip gas, background gas, hole condition, and mud flowline temperature all taken into consideration in the analysis of the formation pore pressure.

914mm (36") / 660mm (26") Hole section: 97.0 – 132.0 mMDRT
This hole section was drilled riserless utilizing seawater and Pre-hydrated Gel sweeps. Pore pressure analysis was based roughly on hole condition and observations by the ROV for the presence of shallow gas. No hole problem was encountered in drilling this section while the ROV did not report any indication of shallow gas. The hole was drilled vertically in this section and drilling initially made use of jetting prior to setting the 30" conductor.

559mm (22") Hole Section: 132.0 – 755.0 mMDRT
This hole section was drilled riserless utilizing seawater and Pre-hydrated Gel sweeps to 755.0m. Pore pressure analysis was based roughly on hole condition and observations by the ROV for the presence of shallow gas. No hole problem was encountered in drilling this section while the ROV did not report any indication of shallow gas. The hole was drilled vertically. The resulting Dxc values showed a general increasing value with depth which indicates a normally pressured formation.

375mm (14-3/4") Hole Section: 755.0 – 758.0 mMDRT
Drill out cement, float and 3m of formation for Leak Off Test (LOT). For LOT result, see **Section 5.2 Fracture Pressure Evaluation.**

343mm (13-1/2") Hole Section: 758.0 – 2600.0 mMDRT
Using SBM, this hole section was drilled to the well's total depth using two PDC bit. Using the PDC bit, the rate of penetration averaged at 88 m/hr in the upper section (758.0m to 1350.0m) and slowing down to around 34 m/hr in the mid section (1350.0m to 2030m). From 2030.0m to TD the average ROP is 59 m/hr. The resulting Dxc values were therefore well scattered but nevertheless showed a general increasing value with depth which indicate a normally pressured formation.

The flowline temperature ranged from 21degC to 67degC in the hole section. The low mud temperature reading is attributed to the cooling effect of seawater into the mud column in the riser. This and the numerous trips and the occasional addition of fresh mud from the mixing and reserve pits rendered this tool of limited use in predicting pore pressure increase.

The Dxc plot of this hole section showed a general increasing trend with depth, and the data points were less scattered and the trend steeper compared to the 22" hole section. Occasional deviations to the normal trend which would point to an increase in pore pressure can be attributed to some changes in lithology and also to occasional wide variations in the drilling parameters.

Based on the Dxc signature and supported by a steady background gas and no connection gas there is no indication of an increase in pore pressure. The SBM mud, with density range from 1.43sg to 1.45sg, used in drilling the section, was therefore sufficient in countering any abnormal pressure in the well.

Longtom-4 P

241mm (9-1/2") Pilot Hole Section: 2600.0 – 2987.0 mMDRT
Using SBM, this hole section was drilled to the total depth of 2987m using two PDC and one core bit. Using the PDC bit, the rate of penetration averaged at 25 m/hr in the upper section and slowing down to around 13 m/hr near TD. The resulting Dxc values were therefore well scattered but nevertheless showed a general increasing value with depth which indicate a normally pressured formation.

The flowline temperature ranged from 45degC to 57degC in this hole section. The low mud temperature reading is attributed to the cooling effect of seawater into the mud column in the riser. This and the numerous trips and the occasional addition of fresh mud from the mixing and reserve pits rendered this tool of limited use in predicting pore pressure increase.

The Dxc plot of this hole section showed a general increasing trend with depth, and the data points were less scattered and the trend steeper compared to the 13-1/2" hole section. Occasional deviations to the normal trend which would point to an increase in pore pressure can be attributed to some changes in lithology and also to occasional wide variations in the drilling parameters.

Longtom-4 H

241mm (9-1/2") Production Hole Section: 2690.0 – 4648.0 mMDRT
Using SBM mud, this hole section was drilled to the well's total depth using two PDC bits. Using two PDC bits, the rate of penetration averaged at 16-26 m/hr. The resulting Dxc values were therefore well scattered but nevertheless showed a general increasing value with depth which indicate a normally pressured formation.

The flowline temperature ranged from 43degC to 71degC in the hole section. The mud temperature reading is attributed to the cooling effect of seawater into the mud column in the riser. This and the occasional addition of fresh mud from the mixing and reserve pits rendered this tool of limited use in predicting pore pressure increase.

The Dxc plot of this hole section showed a general increasing trend with depth, and the data points were less scattered and the trend steeper compared to the 13-1/2" hole section. Occasional deviations to the normal trend which would point to an increase in pore pressure can be attributed to some changes in lithology and also to occasional wide variations in the drilling parameters.
Based on the Dxc signature and supported by a steady background gas and no connection gas there is no indication of an increase in pore pressure. The SBM mud, with density range from 1.42sg to 1.45sg, used in drilling the section, was therefore sufficient in countering any abnormal pressure in the well.

5.2 Fracture Pressure Evaluation

The well was spudded at 97.0m using a 660mm (26”) bit with a 914mm (36”) hole opener. The 914mm (36”) hole section was drilled from 96.25m to 131.0m and 660mm (26”) hole to 132.0m with a sea water followed by Hi-Vis sweeps and returns to sea bed. The 610mm (24”) conductor shoe followed by 762mm (30”) casing was set at 127.8m and cemented. No LOT/FIT being conducted at the 30” x 24” casing shoe.

The 559mm (22”) hole was drilled from 132.0 to 755.0 mMDRT with sea water followed by Hi-Vis sweeps and returns to sea bed. The 406mm (16”) casing shoe was set at 750.03m and cemented as per program.

The 375mm (14-3/4”) clean out BHA was run to drill out cement, shoe track followed by rathole. The cement top was tagged at 736.0m and drilled out new formation from 755.0m to 758.0m. The hole was circulated clean to perform LOT at 758.0m. The Halliburton lines were pressure tested and conducted a LOT at 650psi with EMW 1.64sg.

The following is a summary of the Leak Off Test (LOT) conducted in this well:

Hole Size	Hole Depth	Casing	Shoe Depth	Pressure	Mud Weight	EMW
343mm (13-1/2”)	758.0 mMDRT 758.0 mTVDRT	16”	750.03 mMDRT 750.00 mTVDRT	650 psi	1.04 sg	1.64 sg

The 343mm (13-1/2”) hole was drilled from 758.0 to 2600.0 mMDRT with SBM mud. The 273mm (10-3/4”) casing shoe was set at 2590.8 mMDRT and cemented as per program.

The 241mm (9-1/2”) BHA 7 was run to drill out cement, shoe track followed by the rathole. The cement top was tagged at 2551.0 mMDRT and drilled out new formation from 2600.0 to 2604.0 mMDRT. The hole was circulated and conditioned the mud to perform the FIT at 2604.0 mMDRT. The Halliburton lines were pressure tested and conducted a FIT at 818psi with EMW 1.68sg.

The following is a summary of the Formation Integrity Test (FIT) conducted in this well:

Hole Size	Hole Depth	Casing	Shoe Depth	Pressure	Mud Weight	EMW
214mm (9-1/2”)	2604m MDRT 2353.1m TVDRT	10-3/4”	2590.84m MDRT 2345.5m TVDRT	818 psi	1.43 sg	1.68 sg

OPERATOR	Nexus Energy Ltd	WELL NAME	Longtom-4/Longtom-4P/Longtom-4H	LOCATION	VIC / L29	CONTRACTOR	Seadrill	RIG	West Triton

Mud Pump Data
Pumps 1, 2, and 3
165 mm 6.5" Liners
355 mm 14" Stroke
97% Efficiency, 26.5 litre/stk
(0.139 bbl/stk)

BIT DULL CHARACTERISTICS

BC - Broken Cone	CI - Cone Interference	JD - Junk Damage	PB - Pinched Bit	SS - Self-Sharpening
BT - Broken Teeth	CR - Cored	LC - Lost Cone	PN - Plugged Nozzle	TR - Tracking
BU - Balled Up	CT - Chipped Teeth	LN - Lost Nozzle	RG - Rounded Gauge	WO - Washed-Out Bit
CC - Cracked Cone	FC - Flat Crested Wear	LT - Lost Teeth	RO - Ring Out	WT - Worn Teeth
CD - Cone Dragged	HC - Heat Checking	OC - Off-Center Wear	SD - Shirttail Damage	NO - No Dull Charact.

REASONS PULLED

BHA - Bottomhole Assembly	LOG - Run Logs	FM - Formation Change	TD - Total / Csg depth
DMF - Downhole Motor failure	RIG - Rig repair	HP - Hole Problems	TQ - Torque
DSF - Drill String failure	CM - Condition Mud	HR - Hours	TW - Twist-Off
DST - Drill Stem Test	CP - Core Point	PP - Pump Pressure	WC - Weather Conditions
DTF - Downhole Tool Failure	DP - Drill Plug	PR - Penetration rate	WO - Washout - Drill String

BHA #	BIT No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	CIRC HRS	WOB klbf	RPM Surf/Motor	TBR krev	SPP psi	FLOW gpm	TQ kft.lb	GRADE I	O	D	L	B	G	O	R	MW SG	REMARKS
			Longtom-4																								
	914mm (36") Hole section 97.0 - 132.0 mMDRT																										
1	RB1	Reed	Rock / Y11C	1.310	3x22, 1x16	34406	97.00	35.0	2.6	13.5	2.6	0.7 - 9.6	51 - 94	9.6	32 - 856	240 - 1014	0.02 - 1.9	1	1	WT	A	0	I	NO	TD	1.04 (SW)	30" Casing Point
	559mm (22") Hole Section 132.0 - 755.0 mMDRT																										
2	RB2	Smith	Rock / XR+C	1.286	3x22, 1x15	MZ3173	132.0	623.0	26.8	23.2	31.2	0.6 - 34.0	57 - 188	232.1	396 - 1927	599 - 1212	0 - 5.0	2	2	WT	A	1	I	NO	TD	1.04 (SW)	16" Casing Point
	375mm (14-3/4") Clean Out BHA 755.0 - 758.0 mMDRT																										
3	NB3	Reed	Rock / T11	1.117	3x20, 1x16	WC6252	755.0	3.0	0.2	15.0	2.4	6.1 - 6.7	78 - 79	1.1	1689 - 1691	1114 - 1115	0.03 - 0.07	0	0	NO	A	0	I	NO	BHA	1.04 (SW)	Clean out BHA
	343mm (13-1/2") Hole Section 758.0 - 2600.0 mMDRT																										
4	NB4	Reed	PDC/RSX616M-A3	1.335	3x18, 3x16	219224	758.0	1273.0	42.3	30.1	62.2	0.9 - 42.3	72 - 173	248.9	2719 - 3978	646 - 1205	0 - 18.3	2	4	CT	A	X	I	WT	BHA	1.43-1.45	
5	NB5	Smith	PDC/M516LSPX	1.359	3x18, 2x20	JY2593	2031.0	569.0	11.8	48.2	46.1	2.3 - 51.5	100 - 169	103.8	3251 - 4252	983 - 1222	0.2 - 18.3	0	0	NO	A	X	I	RR	TD	1.43-1.45	10.75" Casing Point
6	RB6	Smith	PDC/M516LSPX	1.359	3x18, 2x20	JY2593	2600.0	0.0	0.0	0.0	11.8	5.0	150	103.8	3900	1050	5.0 - 8.0	0	0	NO	A	X	I	NO	LOG	1.44	Wiper Trip
			Longtom-4 P																								
	241mm (9-1/2") Pilot Hole Section 2600.0 - 2987.0 mMDRT																										
7	NB7	Smith	PDC / M716SPXC	1.374	7 X 16	JY 2803	2600.0	241.0	9.4	25.6	21.3	3 - 33	160 - 209	88.4	2800 - 3150	700 - 770	5.1 - 15.2	2	4	BT	A	X	I	RO	CP	11.9 - 12.1	Coring point
8	CB8	HTC	Core Bit	0.750	No Jets	7212164	2841.0	55.0	3.6	15.3	4.8	1 - 9	59 - 70	14.5	830 - 1020	220 - 225	3.3 - 7.4	1	1	WT	A	X	I	NO	TD	12.0 - 12.1	Coring
9	NB9	Smith	PDC / M716SPXC	1.370	7x16	JY 2083	2896.0	91.0	6.8	13.4	13.8	7 - 28	110 - 162	5.4	2800 - 3130	650 - 725	4.9 - 14.6	1	7	WT	S	X	I	RO	TD	12.0 - 12.2	Pilot Hole TD
			Longtom-4 H																								
	241mm (9-1/2") Production Hole Section 2696.0 - 4648.0 mMDRT																										
10	NB10	Reed	PDC/RSR616M-B3	1.178	6 X 16	218795	2696.0	881.0	54.8	16.1	77.6	12.0 - 25.0	145 - 160	447.0	2800 - 3620	700 - 806	2.5 - 15.0	2	6	BT	S	X	I	JD	DTF	12.1	MWD Failure
11	NB11	Reed	PDC/RSX616M-A4	1.178	6 X 16	216535	3577.0	1071.0	41.1	26.1	76.2	4.0 - 22.0	148 - 153	364.0	3500 - 4200	740 - 790	8.0 - 15.0	1	1	WT	N	X	I	NO	TD	12.0	Well TD
					RT-AHD (m)			41.10 mMDRT																			

BAKER HUGHES INTEQ

Bit Hydraulics Summary

nexus ENERGY

Operator	Well Name	Location	Drilling Contractor	Rig
Nexus Energy Ltd	**Longtom-4, Longtom-4P, Longtom-4H**	**VIC / L29**	**Seadrill**	**West Triton**

Drillstring Abbreviations

N Normal **P** Positive Displacement Motor **S** Powerdrive
M MWD **A** Adjustable Gauge Stabilizer **T** TRACS Tool **C** Core

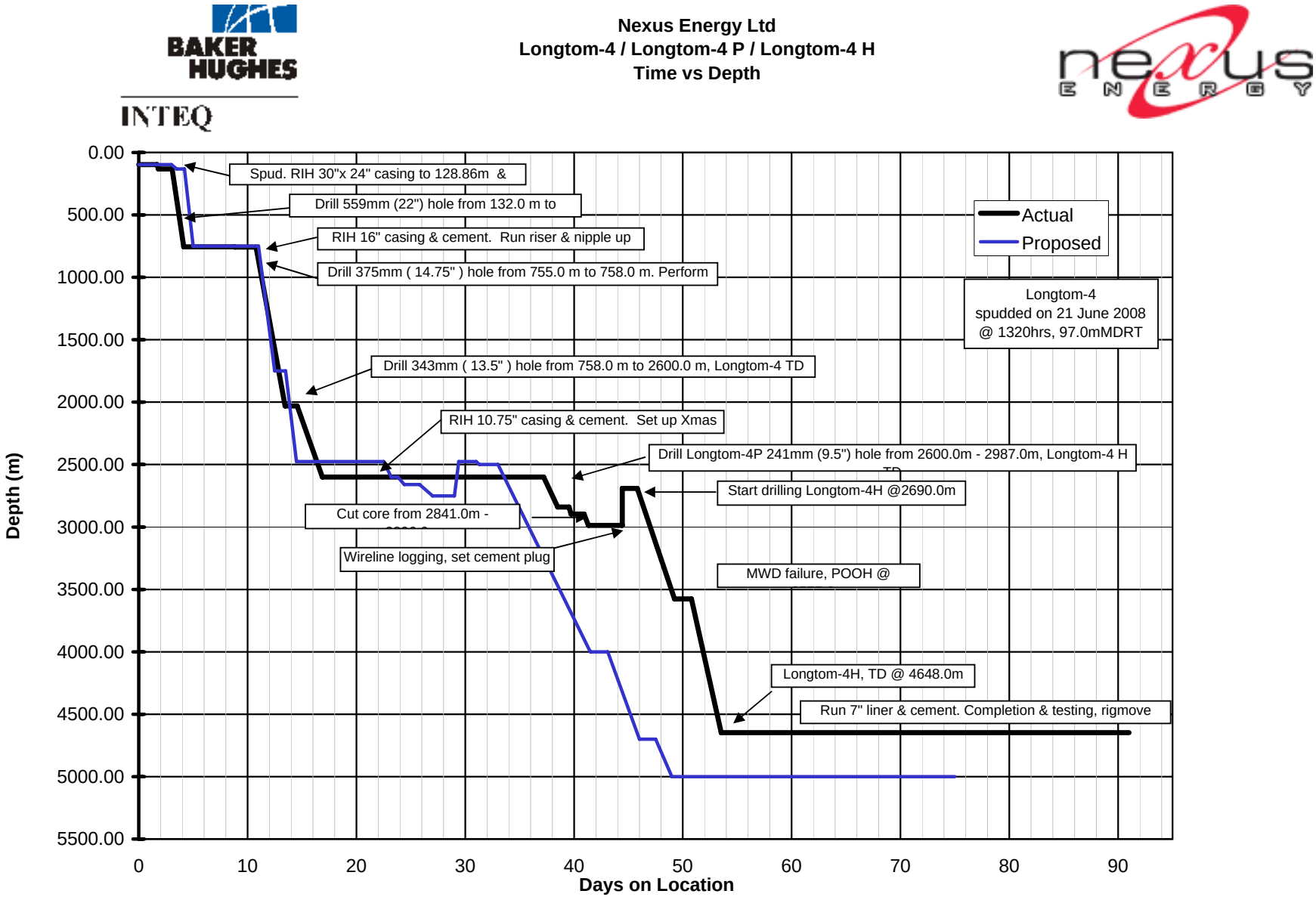
Hydraulics Models

Power Law Model used for drilling with Mud
Bingham Model used for coring and drilling with seawater

Bit No.	Depth AHD (m)	Hole Size in	Jets x 1/32"	Drill String Type	Mud Type	Mud Density sg	PV mPas	YP Pa	Flow Rate gpm	Jet Vel m/sec	Impact Force lbf / in^2	Hydraulic Power hhp	Power/ Area hp/sq in	Bit Loss psi	Bit Loss %	Pipe* Loss psi	ECD sg	Annular Velocities DP OH m/min	Annular Velocities DC OH m/min	Annular Velocities DP Max Dia m/min
Longtom-4																				
559 mm (22") Hole Section 132.0 - 755.0 mMDRT																				
NB2	755.0	22.00	3x22, 1x15	**M**	Sea water	1.04	-	-	1170	88.9	4.0	1289.7	6.71	575	30.4	1316	1.04	19.26	22.33	11.60
343 mm (13-1/2") Hole Section 758.0 - 2600.0 mMDRT																				
NB4	2031.0	13.50	3x18, 3x16	**A**	SBM	1.45	38	16.2	1200	87.9	15.2	2983.7	4.03	813	20.5	3452	1.47	58.98	77.13	19.76
NB5	2600.0	13.50	3x18, 2x20	**A**	SBM	1.45	41	18.2	1070	77.0	11.7	2668.0	2.63	594	13.9	3684	1.46	52.59	52.59	19.46
Longtom-4 P																				
241 mm (9-1/2") Pilot Hole Section 2600.0 - 2987.0 mMDRT																				
NB7	2841	9.50	7 x 16	**A**	SBM	1.43	45	33	750	53.0	11.4	1290.0	3.24	520	9.6	1701	1.53	93.01	93.01	13.59
NB7	2818	9.50	7 x 16	**A**	SBM	1.45	42	36	750	53.0	11.5	1338.0	1.79	285	9.3	2776	1.54	93.30	93.30	13.60
NB7	2841	9.50	7 x 16	**A**	SBM	1.45	45	33	747	53.1	11.4	1290.0	1.76	283	9.5	2680	1.53	93.00	93.00	13.60
NB9	2987	9.50	7 x 16	**A**	SBM	1.45	45	29	720	51.2	10.6	1238.0	1.58	263	8.9	2687	1.53	89.60	89.60	13.10
Longtom-4 H																				
241 mm (9-1/2") Production Hole Section 2690.0 - 4648.0 mMDRT																				
NB10	2720	9.50	6 x 16	**A**	SBM	1.45	37	36	655	54.3	10.2	912.0	1.62	296	12.3	2094	1.52	81.50	109.50	10.70
NB10	3003	9.50	6 x 16	**A**	SBM	1.45	45	32	705	58.5	11.9	1251.0	2.02	343	11.2	2702	1.54	87.70	117.90	11.60
NB10	3259	9.50	6 x 16	**A**	SBM	1.45	48	27	790	65.5	15.0	1756.0	2.86	435	11.4	3378	1.55	98.30	132.00	13.00
NB10	3577	9.50	6 x 16	**A**	SBM	1.45	48	27	790	65.5	14.9	1872.0	2.84	431	10.6	3636	1.55	98.30	132.00	13.00
NB11	3791	9.50	6 x 16	**A**	SBM	1.45	43	31	720	59.7	12.5	1533.0	2.17	361	9.9	3292	1.59	89.60	120.30	11.80
NB11	4220	9.50	6 x 16	**A**	SBM	1.45	41	33	770	63.9	14.2	1937.0	2.60	409	9.5	3908	1.59	95.80	128.70	12.60
NB11	4582	9.50	6 x 16	**A**	SBM	1.45	50	33	770	63.9	14.3	2210.0	2.65	413	8.3	4512	1.64	88.40	127.00	12.50

* Note: Pipe Loss includes DP,HWDP, DC, MWD, Motor

Table: 3 Time and Depth Curve



Geological Sample Summary

SAMPLE TYPE	Sets	COMPOSITION			PACKING DETAILS
		Sample Depth (m)			
		Box No:	From	To	
Washed and dried Cutting Samples **Note:** **<u>Set A, B</u> (200g) from 758m to 2600m (Longtom-4)** **from 2600 to 2987m (Longtom-4 P)** **from 2696m to 4648m (Longtom-4 H)**	**A, B**	LT-4			**Missed samples** **Longtom-4** • Due to high ROP: 1280m, 1290m, 1320m, 1715m, 1740m, 1875m, 1890m, 1910m, 2060m, 2075m, 2095m, 2105m, 2115m, 2125m, 2145m, 2155m, 2165m, 2205m, 2470m **Underweight samples** **Longtom-4** • Due to lack of returns at shaker 870m, 990m, 1220m, 1300m, 1330m, 1420m, 1460m, 1480m, 1490m, 1500m, 1520m, 1540m, 1560m, 1805m, 1950m, 1955m, 1965m
		1	758	1110	
		2	1110	1300	
		3	1300	1440	
		4	1440	1580	
		5	1580	1650	
		6	1650	1710	
		7	1710	1785	
		8	1785	1845	
		9	1845	1915	
		10	1915	1970	
		11	1970	2025	
		12	2025	2080	
		13	2080	2155	
		14	2155	2220	
		15	2220	2275	
		16	2275	2330	
		17	2330	2385	
		18	2385	2440	
		19	2440	2495	
		20	2495	2545	
		21	2545	2600	
		LT-4P			**Longtom-4 P** • Due to high ROP: 2740m, 2750m, 2805m, 2955m • Coring Interval: 2841-2896m No samples, 2845m, 2850m, 2855m, 2860m, 2865m, 2870m, 2875m, 2880m, 2885m, 2890m, 2895m
		1	2600	2660	
		2	2660	2715	
		3	2715	2785	
		4	2785	2895	
		5	2895	2945	
		6	2945	2987	
		LT-4H			**Longtom-4 H** • Due to high ROP: 3510m
		1	2696	2745	
		2	2745	2795	
		3	2795	2845	
		4	2845	2895	
		5	2895	2945	
		6	2945	2995	
		7	2995	3045	
		8	3045	3095	
		9	3095	3145	
		10	3145	3195	
		11	3195	3245	
		12	3245	3295	

		13	3295	3350	**4 small spilt boxes packed in 1 large cardboard box** **Total 14 large boxes per set.** Size: 38cmx38cmx20cm
		14	3350	3395	
		15	3395	3435	
		16	3435	3475	
		17	3475	3525	
		18	3525	3570	
		19	3570	3640	
		20	3640	3730	
		21	3730	3830	
		22	3830	3920	
		23	3920	4010	
		24	4010	4100	
		25	4100	4190	
		26	4190	4280	
		27	4280	4380	
		28	4380	4480	
		29	4480	4570	
		30	4570	4648	
Washed and dried Cutting Samples **Note:** **<u>Set C, D</u> (100g) from 758m to 2600m (Longtom-4)** **from 2600 to 2987m (Longtom-4 P)** **from 2696m to 4648m (Longtom-4 H)**	**C, D**	LT-4			**Missed samples** **Longtom-4** • Due to high ROP: 1280m, 1290m, 1320m, 1715m, 1740m, 1875m, 1890m, 1910m, 2060m, 2075m, 2095m, 2105m, 2115m, 2125m, 2145m, 2155m, 2165m, 2205m, 2470m **Longtom-4 P** • Due to high ROP: 2740m, 2750m, 2805m, 2955m • Coring Interval: 2841-2896m No samples, 2845m, 2850m, 2855m, 2860m, 2865m, 2870m, 2875m, 2880m, 2885m, 2890m, 2895m **Longtom-4 H** • Due to high ROP: 3510m **4 small spilt boxes packed in 1 large cardboard box** **Total 11 large boxes per set.** Size: 38cmx38cmx20cm
		1	758	1220	
		2	1220	1430	
		3	1430	1610	
		4	1610	1705	
		5	1705	1810	
		6	1810	1905	
		7	1905	1990	
		8	1990	2065	
		9	2065	2160	
		10	2160	2240	
		11	2240	2310	
		12	2310	2385	
		13	2385	2460	
		14	2460	2525	
		15	2525	2580	
		16	2580	2600	
		LT-4P			
		1	2600	2680	
		2	2680	2775	
		3	2775	2895	
		4	2895	2987	
		LT-4H			
		1	2696	2760	
		2	2760	2820	
		3	2820	2885	
		4	2885	2945	
		5	2945	3005	
		6	3005	3065	
		7	3065	3125	
		8	3125	3195	
		9	3195	3255	
		10	3255	3315	
		11	3315	3375	
		12	3375	3430	

		13	3430	3485	
		14	3485	3550	
		15	3550	3630	
		16	3630	3760	
		17	3760	3890	
		18	3890	4000	
		19	4000	4110	
		20	4110	4220	
		21	4220	4350	
		22	4350	4470	
		23	4470	4580	
		24	4580	4648	
Unwashed (Geochem) wet Cutting sample (500g) packed in HUBCO bag. **from 758m to 2600m (Longtom-4)** **from 2600 to 2987m (Longtom-4 P)** **from 2696m to 4648m (Longtom-4 H)**	**E**	LT-4			**Missed samples** **Longtom-4** • Due to high ROP: 1280m, 1290m, 1320m, 1715m, 1740m, 1875m, 1890m, 1910m, 2060m, 2075m, 2095m, 2105m, 2115m, 2125m, 2145m, 2155m, 2165m, 2205m, 2470m **Underweight samples** **Longtom-4** • 1785m, 1790m, 1795m, 1800m, 1885m, 1895m, 1900m **Longtom-4 P** • Due to high ROP: 2740m, 2750m, 2805m, 2955m • Coring Interval: 2841-2896m No samples, 2845m, 2850m, 2855m, 2860m, 2865m, 2870m, 2875m, 2880m, 2885m, 2890m, 2895m **Longtom-4 H** • Due to high ROP: 3510m ’
		1	758	1400	
		2	1400	1600	
		3	1600	1700	
		4	1700	1800	
		5	1800	1950	
		6	1950	2100	
		7	2100	2200	
		8	2200	2300	
		9	2300	2400	
		10	2400	2500	
		11	2500	2600	
		LT-4P			
		1	2600	2700	
		2	2700	2800	
		3	2800	2900	
		4	2900	2987	
		LT-4H			
		1	2696	2800	
		2	2800	2900	
		3	2900	3000	
		4	3000	3100	
		5	3100	3200	
		6	3200	3300	
		7	3300	3400	
		8	3400	3500	
		9	3500	3600	
		10	3600	3800	
		11	3800	4000	
		12	4000	4200	
		13	4200	4400	
		14	4400	4648	

Samplex Tray Samples	**F**	1 2	LT - 4 758 LT-4P 2600 LT-4H 2696	2600 2987 4648	**2 Small wooden boxes.** Size: 25cmx25cmx25cm **Box1:** Longtom-4 & Longtom-4P **Box2:** Longtom-4H
Mud Sample (500ml) **Mud filtrate (30ml)**	**G**	1	Longtom-4 758 2130 2600 Longtom-4 P 2553 2841 2841 2896 2987 Longtom-4 H 2700 3577 4648		**1 cardboard box, packed together with Mud & filtrate samples.** Size: 38cmx38cmx20cm **Note** **Mud Samples depths missing due to being damaged in transit** **2130m, 2896m, 2700m, 3577m, 4648m**

Samples final destination:

SET NUMBER	SET TYPE	DESTINATION	FORWARD ON TO (INTEQ to fwd to)
A	200g W&D Drill Cuttings Sample (Micropal and Palynology)	39 Miguel Rd, Bibra Lake, Perth WA 6163 **Attn: Melanie Turnbull**	**DPI Melbourne Address TBA**
B	200g W&D Drill Cuttings Sample	Baker Hughes INTEQ Address as above	**Geoscience Australia** Manager, Geoscience Australia Data Repositories Geoscience Australia Cnr Jerrabomberra Ave and Hindmarsh Drive SYMONSTON ACT 2609
C	100g W&D Drill Cuttings Sample	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Kestrel Information Management 582-600 Somerville Rd Sunshine West, Victoria 3020 **Attn: Diana Giordano** Ph: 03 9311 0391 Fax: 03 9311 0145
D	100g W&D Drill Cuttings Sample	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Kestrel Information Management 582-600 Somerville Rd Sunshine West, Victoria 3020 **Attn: Diana Giordano**
E	500g Unwashed Cuttings (Geochem)	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Address as above
F	Samplex Trays	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Address as above
G	Mud Samples	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Address as above
H	Filtrate Samples	Baker Hughes INTEQ Address as above	**Nexus Energy Ltd** Address as above

APPENDICES

PLOTS

APPENDIX 8: DAILY GEOLOGICAL REPORTS

Longtom-4

Date:	27-06-2008	Last Casing:	406.4 mm (16”) @ 750 mMDRT
Report Number:	1	Leak Off Test:	-
Report Period:	24hrs to 24:00	Current hole size:	558.8 mm (22”)
Depth @ 2400 Hrs:	755.0 mMDRT	Mud Weight:	-
Last Depth:	755.0 mMDRT	ECD:	n/a
Progress:	0 m	Mud Type:	-
TD Lithology:	-	V: 6 / 3	-
Water Depth:	57.1 m	Mud Fluid Loss:	-
RT Elevation:	39.9 m	Bit Type:	-

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Wait on Weather. Run 22" HP riser and land same and confirm latch with 50k overpull. Installed CTU and claxton ring. Trouble shoot fault with CTU & control system.
06:00 Update	Made up Claxton clamp hand tight 4" above CTU and adjusted slip insert to engage on riser. Stroked open CTU pistons to 4" to contact Claxton clamp and adjusted slip inserts to ensure clamp level. Torqued up bolts on Claxton clamp to 2250 ft/lbs. Increased CTU pressure to support 100T. Stroked DQ running tool mandrel down and attempted to test HP riser again to 500 psi - DQ running tool still leaking. Backed out running tool and racked back same. Lowered CTU work platform on to Texas deck. Move Bops from set back area and nippled up Bop's to HP riser.
NEXT 24 HOURS:	Nipple up Bop's, pressure test casing and Bop connection to 2000psi. Lay out stand 9 1/2" drill collars. Make up clean out assembly, RIH picking up drill pipe. Drill out cement and shoe track, circulate hole clean. Perform LOT

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
	No new lithology drilled.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
750.39	0.71	327.45	750.34					

COMMENTS:

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	28-06-2008	Last Casing:	406.4 mm (16”) @ 750 mMDRT
Report Number:	2	Leak Off Test:	-
Report Period:	24hrs to 24:00	Current hole size:	368” mm (14-3/4”)
Depth @ 2400 Hrs:	755.0 mMDRT	Mud Weight:	-
Last Depth:	755.0 mMDRT	ECD:	n/a
Progress:	0 m	Mud Type:	Sea Water
TD Lithology:	-	V: 6 / 3	-
Water Depth:	57.1 m	Mud Fluid Loss:	-
RT Elevation:	39.9 m	Bit Type:	REED T11

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Tensioned up CTU, nippled up BOPs and diverter system. Tested casing/shear rams 2000psi. Laid out 9 1/2" drill collars, picked up and RIH with 14 3/4" drill out assembly.
06:00 Update	RIH picking up 5.5" drill pipe to 731.78m. Washed down from 731.78m to TOC at 736m with 5k down. Drilled cement from 736m to 750m, drilled shoe at 750m and cleaned out rathole from 750m to 755m. Drilled 14 3/4" hole from 755 - 758m. Pump 100 bbls Hi/vis and circulated hole clean.
NEXT 24 HOURS:	Conduct FIT. POOH lay out 8" drill collars. Pick up 13 1/2" drilling assembly, RIH drill 13 1/2" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
	No new lithology drilled.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
750.39	0.71	327.45	750.34					

COMMENTS:

BHI gas chromatograph, CO2 and H2S sensors calibrated.

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	29-06-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	3	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	368" mm (14-3/4")
Depth @ 2400 Hrs:	755.0 mMDRT	Mud Weight:	1.43 SG
Last Depth:	758.0 mMDRT	ECD:	1.47 SG
Progress:	3 m	Mud Type:	SOBM
TD Lithology:	-	V: 6 / 3	7/6
Water Depth:	57.1 m	Mud Fluid Loss:	4
RT Elevation:	39.9 m	Bit Type:	REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:

RIH picking up 5 ½" drill pipe, Tagged TOC at 736m. Drilled out shoe track, cleaned out rat hole and drilled 3m formation from 755 - 758m. Pumped 100bbls Hi/vis, circulated hole clean. Performed LOT with sea water at 650 psi surface applied pressure EMW = 13.7 ppg (1.64 SG). POOH, laid out 14 ¾" BHA. Made up 13 ½" streerable BHA, shallow tested MWD, RIH with BHA to 183m. Continued RIH picking up 5 ½" drill pipe to 750m.

06:00 Update

Held JSA with crews and made a final check on line up. Pumped 50 bbl hi/vis spacer and displaced well to SOBM at 500 gpm and 1000 psi. Shut down with hi-vis spacer at surface and lined up returns to slops pit. Continued circulating out hi-vis spacer. Shut down with SOBM at surface. Directed returns into sand traps and lined up returns to active pit. Displaced kill and choke lines, choke manifold and filled trip tank with SOBM. Took SCR'S. Drilled 13 1/2" hole from 758m to.815m

.

NEXT 24 HOURS:

Drill 13 1/2" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
	No new lithology drilled, no returns over shakers.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
750.39	0.71	327.45	750.34					

COMMENTS:

MWD Sensor offsets;
Resistivity: 10.47m
GR: 10.52m
Directional: 18.94m
Density: 26.67m
Neutron: 27.5m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	30-06-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	4	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	1447 mMDRT	Mud Weight:	1.45 SG
Last Depth:	758.0 mMDRT	ECD:	1.6 SG
Progress:	689 m	Mud Type:	SOBM
TD Lithology:	Sandstone, Siltstone	Vis:	78
Water Depth:	57.1 m	Mud Fluid Loss:	4.4
RT Elevation:	39.9 m	Bit Type:	REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Serviced top drive and rig. Displaced well to SOBM. Drilled 13 1/2" hole from 758 - 1447m.
06:00 Update	Drilled 13 ½" hole from 1477 - 1512m maintaining 30 deg Inc and 183.5 AZ. .
NEXT 24 HOURS:	Drill 13 ½" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
758-1050 (718-1003.5) ROP: 2-148 m/hr Avg: 79 m/hr	**CALCILUTITE (100%) :** medium grey to brownish grey, soft to predominantly moderately firm, amorphous to sub blocky, dispersive, trace Forams, trace fossil fragments, trace crystalline calcite, common medium grey argillaceous matrix, grading to Argillaceous Calcilutite.
1050-1291 (1003.5-1215.7) ROP: 9-138 m/hr Avg: 100 m/hr	**CALCILUTITE (100%):** very light grey to light grey, very soft to soft, amorphous, dispersive, sticky, trace crystalline calcite. very light grey to light grey, becoming light grey to medium brownish grey below 1240m, soft to moderately firm, amorphous, sticky, with trace dark green glauconite nodules below 1250m.
1291-1447 (1215.7-1351) ROP: 11-135 m/hr Avg: 66 m/hr	**SANDSTONE, SILTSTONE and COAL** **SANDSTONE (10-90%):** loose, white to very light grey, clear to translucent grains, trace milky, fine to coarse to granular (up to 3.5mm), dominantly medium to granular, poorly to moderately well sorted, subangular to subrounded quartz, with minor (5%) fine to medium subrounded to rounded clear quartz with minor feldspar and lithics, rare aggregates cemented with hard black to silvery mineral (hematite?), hard, minor (1%) very coarse to granule frosted quartz, subrounded to rounded. Trace microcrystalline pyrite nodules. **SILTSTONE (5-60%):** light to medium grey to brownish grey, soft to firm, subblocky, argillaceous, carbonaceous in parts. Rare pyrite clusters. **COAL (0-80%):** black, firm, flakey, bright, grading in parts to carbonaceous siltstone.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
758-1447	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
758-1050	0.01-0.51	9-5437	1-9	1-5	-	-	-	-
1050-1291	0.07-0.39	654-3831	4-49	1-15	0-1	0-2	0-1	0-1
1291-1447	0.01-0.70	68-6456	3-157	2-83	0-6	0-10	0-1	0-1

SURVEYs

MD	ANGLE	Azi	TVD					
1,404.59	30.04	183.00	1,353.41					
1,433.94	31.67	182.29	1,378.60					
1,463.79	30.65	181.20	1,404.15					

COMMENTS:

Due to high mud level in possum belly, gas system regularly going to blowback mode from1375m, resulting in intermittent gas data.

Top Latrobe Group picked at 1291m, incoming of sand fraction in cuttings, increase in gamma log values.

Hard layer intersected at 1447m at 22:45 hrs, cuttings are firm to hard non-calcareous siltstone and claystone with classic PDC cuttings morphology (chatter marks on one face, polished smooth on other face).

MWD Sensor offsets;

Resistivity: 10.47m
GR: 10.52m
Directional: 18.94m
Density: 26.67m
Neutron: 27.5m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	01-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	5	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	1720 mMDRT	Mud Weight:	1.45 SG
Last Depth:	1447.0 mMDRT	ECD:	1.5 SG
Progress:	373 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	78
Water Depth:	57.1 m	Mud Fluid Loss:	4.4
RT Elevation:	39.9 m	Bit Type:	REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilled 13 1/2" hole from 1447m to 1720m.
06:00 Update	Drilled 13 ½" hole from 1720m to 1835m. .
NEXT 24 HOURS:	Continue drilling 13 ½" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
1447-1500 (1351-1395.5) ROP: 1-68 m/hr Avg: 36 m/hr	**Interbedded SANDSTONE / SILTSTONE / CLAYSTONE:** **SANDSTONE (10-60%):** loose, white to very light grey, clear to translucent grains, trace milky, fine to medium, minor coarse to very coarse, moderately well sorted, subangular to subrounded quartz, with minor feldspar and lithics. **SILTSTONE (20-70%):** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts. **CLAYSTONE (10-70%):** light grey to yellowish grey, soft, amorphous, sticky. **COAL (tr):** black, firm.
1500-1570 (1395.5-1456) ROP: 0.1-80 m/hr Avg: 32 m/hr	**SANDSTONE with SILTSTONE / CLAYSTONE / COAL** **SANDSTONE (70-85%):** quartzose, white to very light grey, clear to translucent grains, trace milky, returned loose, very fine to granule, predominantly fine to medium, common coarse to very coarse, trace granule, predominantly sub angular to rounded, minor angular to sub angular, moderate to high sphericity, low sphericity to elongate in very coarse to granule fraction, very poorly sorted, trace siliceous cement, trace pyrite frosting on coarser grains, fair to good inferred porosity. No shows. **SILTSTONE (0-40%):** medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae. **CLAYSTONE (10-55%):** medium grey to medium dark grey, moderately firm, amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments. **COAL:** black, firm.

1570-1660 (1456-1533.7) ROP: 6-83 m/hr Avg: 29 m/hr	**SILTSTONE with minor SANDSTONE and COAL:** **SILTSTONE (20-90%):** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor to common carbonaceous fragments and laminae, grading to argillaceous Siltstone and silty Claystone. **SANDSTONE (10-30%, 50-80% in parts):** quartzose, white to very light grey, dominantly loose, trace soft, medium to very coarse, predominantly coarse, moderately sorted, angular to sub angular, minor sub rounded, trace soft aggregates with white argillaceous matrix, trace intergranular pyrite cement, trace pyrite grain frosting, good inferred porosity. No shows. **CLAYSTONE (nil – 20%):** medium grey to medium dark grey, moderately firm, amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments, non calcareous. **COAL (Trace-5%), 50% at 1600m:** black, soft to firm, flakey.
1660-1695 (1533.7-1563.9) ROP: 8-73 m/hr Avg: 31 m/hr	**SANDSTONE with minor SILTSTONE:** **SANDSTONE (70-90%):** inferred from light grey to light brownish grey soft amorphous non-calcareous slightly sandy slightly carbonaceous rock flour, interpreted to represent crushed sandstone. With common to abundant loose sand, fine to granule, dominantly fine to medium, in parts medium to very coarse, moderately sorted, subrounded quartz and trace feldspar. Poor inferred porosity, no shows. **SILTSTONE (10-30%):** as above.
1695-1710 (1563.9-1576.9) ROP: 10-81 m/hr Avg: 30 m/hr	**VOLCANICS with minor SANDSTONE and SILTSTONE:** **VOLCANICS (50-80%):** white, very light yellowish brown / light greenish white, weathered to claystone, trace weathered feldspar and weathered green pyroxene, pyritic in part, trace chlorite, vague remnant crystalline structure in part. **SANDSTONE (10-40%):** white to very light grey, loose to soft, fine to granule, dominantly medium to coarse, poorly sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred porosity. No shows. **SILTSTONE (10%):** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.
1710-1720 (1576.9-1585.6) ROP: 25-76 m/hr Avg: 52 m/hr	**SANDSTONE:** **SANDSTONE (100%):** white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred porosity. No shows. **VOLCANICS (trace):** white to orange clay, soft to firm, irregular masses, coarse to very coarse grain size, trace relict hornblende crystal form.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
1447 - 1720	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
1447-1500	0.02-0.07	209-586	5-36	2-13	0-1	0	0	0
1500-1570	0.01-0.15	64-1241	5-88	2-33	0-4	0-7	0	0
1570-1660	0-0.16	121-1341	8-52	5-33	0-3	0-7	0-1	0-1
1660-1695	0.01-0.06	58-442	2-39	5-29	0-3	2-6	0-1	0-1
1695-1710	0.02-0.04	129-255	12-25	7-19	0-1	3-7	0	0
1710-1720	0.02-0.05	167-321	12-27	9-23	0-1	3-10	0	0-1

SURVEYS

MD	ANGLE	Azi	TVD					
1,730.84	30.49	182.20	1,634.82					
1,760.64	30.44	183.16	1,660.50					
1,790.34	29.76	183.49	1,686.20					

COMMENTS:

Several H_2S reading weres recorded;

4ppm at the shakers at returns depth 1452m, and 1 ppm in the pit room at returns depth 1506m
4ppm at the shakers at returns depth 1550m, 2ppm at the shakers at returns depth 1653m, and 3ppm at the shakers from returns depth 1809m to 1829m

5m sample interval from 1600m.

MWD Sensor offsets;

Resistivity: 10.47m
GR: 10.52m
Directional: 18.94m
Density: 26.67m
Neutron: 27.5m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	02-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	6	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2031 mMDRT	Mud Weight:	1.43 SG
Last Depth:	1720 mMDRT	ECD:	- SG
Progress:	311 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	72
Water Depth:	57.1 m	Mud Fluid Loss:	3
RT Elevation:	39.9 m	Bit Type:	REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilled 13 1/2" to 2031m, unable to hold angle at 30 degrees. Circulated hole clean. POOH to change out Powerdrive. Lost 1.5 hours due to top drive RPM fault and 1 hour for cyber chair camera being inoperable.
06:00 Update	Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior BHA at BOP'S. POOH with BHA, removed RA source from ADN tool.
NEXT 24 HOURS:	Change out Powerdrive, RIH and drill 13 1/2" hole to sectional TD at +/-2600m.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
1720-1755 (1585.6-1615.7) ROP: 15-100 m/hr Avg: 45 m/hr	**SANDSTONE, SILTSTONE, trace VOLCANICS:** **SANDSTONE (60-100%):** white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows. **SILTSTONE (nil-40%):** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone. **VOLCANICS (trace):** white to orange clay, soft to firm, irregular masses, coarse to very coarse grain size, trace relict hornblende crystal form.
1755-1805 (1615.7-1659) ROP: 11-44 m/hr Avg: 26 m/hr	**CLAYSTONE, SILTSTONE, minor SANDSTONE** **CLAYSTONE (20-95%):** dark grey to olive black, soft, amorphous to subblocky, sticky, slightly silty. **SILTSTONE (5-60%):** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone. **SANDSTONE (Tr-20%):** white to very light grey, loose to soft, fine to granule,

	dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows.
1805-1865 (1659-1711.7) ROP: 10-66 m/hr Avg: 29 m/hr	**CLAYSTONE with minor SANDSTONE** **CLAYSTONE (80-100%):** dark grey to olive black, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace to rare carbonaceous fragments, non calcareous. **SANDSTONE (0-20%):** quartzose, light grey to medium light grey, friable, very fine to fine grained, sub angular to sub rounded, minor rounded, high sphericity, well sorted, weak siliceous cement, trace black lithic grains, poor visible porosity. No Shows
1865-1915 (1711.7-1755.5) ROP: 8-89 m/hr Avg: 48 m/hr	**SANDSTONE with minor CLAYSTONE, trace COAL** **SANDSTONE (70-100%):** quartzose, light grey to medium light grey, friable to firm aggregates, very fine to medium grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, well sorted, weak siliceous cement, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace weathered feldspar grains, trace coaly fragments, poor visible porosity. No Shows **CLAYSTONE (0-25%):** dark grey to olive black, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace carbonaceous fragments, non calcareous. **COAL (0-5%):** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt, interbedded in Sandstone.
1915-2015 (1755.5-1843.5) ROP: 6-41m/hr Avg: 23 m/hr	**CLAYSTONE with minor SANDSTONE and COAL** **CLAYSTONE (60-100%):** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, non calcareous. **SANDSTONE (Nil-15%, 30% at 1935m):** quartzose, light grey to medium light grey, predominantly returned loose, trace friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows. **COAL (nil-5%, 40% at 2005m):** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt.
2015-2031 (1843.5-1858.5) ROP: 7-31 m/hr Avg: 16 m/hr	**SILTY CLAYSTONE with minor SANDSTONE** **SILTY CLAYSTONE (80-90%):** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, trace to common carbonaceous fragments, non calcareous. **SANDSTONE (10-20%):** as above. **COAL (tr):** as above. **SILTSTONE (tr):** pale to medium yellow brown, firm, blocky, argillaceous.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
1720 - 2031	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
1720-1755	0.01-0.04	18-145	3-10	1-7	-	0-2	0-tr	0-tr
1755-1805	0-0.05	38-761	5-30	2-24	0-2	1-4	-	0
1805-1865	0.03-0.06	91-530	6-23	5-13	0-1	0-2	0-tr	0-tr
1865-1915	0.03-0.08	101-573	5-10	3-6	0-1	-	0-tr	0-tr
1915-2015	0.01-0.04	66-1324	2-32	1-7	0-1	0-2	0-2	0-tr
2015-2031	0.01-0.03	88-316	1-4	1-3	0-tr	0-1	0-tr	0-tr

SURVEYS

MD	ANGLE	Azi	TVD					
1,938.97	29.25	182.37	1,816.36					
1,968.51	27.81	181.63	1,842.32					
1,998.05	27.26	181.66	1,868.51					

COMMENTS:

POOH at 2031m to change out PowerDrive due to poor directional control.

5m sample interval from 1600m.

MWD Sensor offsets;

Resistivity: 10.47m
GR: 10.52m
Directional: 18.94m
Density: 26.67m
Neutron: 27.5m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	03-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	7	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2049 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2031 mMDRT	ECD:	1.46 SG
Progress:	18 m	Mud Type:	SOBM
TD Lithology:	Silty Claystone	Vis:	76
Water Depth:	57.1 m	Mud Fluid Loss:	3 HTHP
RT Elevation:	39.9 m	Bit Type:	SMITH MS16LSPX

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	POOH, Laid out BHA, picked up and made BHA#5, RIH to 1960m. Logged down from 1960m -1989m, washed down to bottom. No Fill. Drilled 13 1/2" hole from 2031m - 2049m.
06:00 Update	Drilled 13 1/2" hole from 2049m - 2270m.
NEXT 24 HOURS:	Drill 13 1/2" hole to sectional TD at +/-2600m.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2031-2049 (1858.5-1875.2) ROP: 9-75 m/hr Avg: 48 m/hr	**SILTY CLAYSTONE with minor SANDSTONE** **SILTY CLAYSTONE (90-95%):** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. At 2045-2049m, grading to claystone with minor silt fraction. **SANDSTONE (5-10%):** light grey to medium light grey, loose, medium to very coarse, dominantly coarse, moderately sorted, subrounded quartz, with minor friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, moderate to high sphericity, well sorted, rare light grey to light brownish grey argillaceous matrix, trace coaly fragments, poor visible porosity. No Shows **COAL (tr):** brownish black to black, firm, brittle.
2049-2065 (1875.2-1887.9) ROP: 54-99 m/hr Avg: 79 m/hr	**SILTY CLAYSTONE and CLAYSTONE with minor SANDSTONE** **SILTY CLAYSTONE (85-95%):** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. In parts grading to **CLAYSTONE:** medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, trace to common carbonaceous fragments, non calcareous. **SANDSTONE (5-15%):** light grey to medium light grey, loose, medium to very coarse, dominantly coarse, moderately sorted, subrounded quartz, with minor friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, moderate to high sphericity, well sorted, rare light grey to light brownish grey

	argillaceous matrix, trace coaly fragments, poor visible porosity. No shows. **COAL (tr):** brownish black to black, firm, brittle.
2065-2190 (1887.9-1995.7) ROP: 17-103 m/hr Avg: 72 m/hr	**CLAYSTONE, SILTY CLAYSTONE and SANDSTONE** **CLAYSTONE (50-95%):** medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, trace to common carbonaceous fragments, non calcareous. Grading to **SILTY CLAYSTONE** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. From 2135m, claystone becoming pale to medium brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE (5-50%):** light grey to medium yellow grey, friable to soft, very fine to fine, minor medium, well sorted, sub angular to sub rounded, minor rounded quartz, trace lithics, in abundant soft white to light brownish grey argillaceous matrix, slightly calcareous in parts, trace coaly fragments, poor visible porosity. No shows. **COAL (nil-tr):** as above.
2190-2215 (1995.7-2017.0) ROP: 21-88 m/hr Avg: 59 m/hr	**SILTY CLAYSTONE with CLAYSTONE and SANDSTONE** **SILTY CLAYSTONE (60-80%):** medium to dark grey, firm to moderately hard, argillaceous, trace carbonaceous material, in parts grading to pale to medium grey siltstone. **CLAYSTONE (10-20%):** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE (10-30%):** white to light grey, soft, very fine to fine well sorted subrounded quartz, abundant soft white silty argillaceous matrix, trace lithic grains, trace carbonaceous fragments, poor visible porosity. No show. Trace loose coarse quartz, trace pyrite clusters.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2031-2215	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2031-2049	0-0.22	26-2180	1-23	1-5	Tr	Tr	Tr	Tr
2049-2065	0.02-0.15	582-2836	12-25	3-6	Tr	Tr	-	Tr
2065-2190	0.03-0.44	802-5127	10-54	3-12	Tr-1	Tr	Tr	Tr
2190-2215	0.05-0.55	209-3420	6-56	2-20	Tr-2	Tr-2	Tr	Tr

SURVEYS

MD	ANGLE	Azi	TVD					
2176.36	31.76	185.57	2023.9					
2206.21	31.48	183.82	2049.3					
2235.88	31.35	183.41	2074.6					

COMMENTS:

Washed from 1960-1988m at 60m/hr to verify LWD data acquisition.

No trip gas detected.

5m sample interval from 1600m.

MWD Sensor offsets;
Resistivity: 12.31m
GR: 12.36m
Directional: 19.84m
Density: 27.58m
Neutron: 28.40m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	04-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	8	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2405 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2049 mMDRT	ECD:	- SG
Progress:	356m	Mud Type:	SOBM
TD Lithology:	Sandstone and Claystone	Vis:	78
Water Depth:	57.1 m	Mud Fluid Loss:	4
RT Elevation:	39.9 m	Bit Type:	SMITH MS16LSPX

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilled 13 1/2" hole to 2346m. Changed out kelly hose from stand pipe #2 to #1. Drilled 13 1/2" hole to 2405m. Repair leak on stand pipe #1, While circulating throught SES and cement line and work string up and down 3-4 meters.
06:00 Update	Repair leak on stand pipe #1. While circiulating at 365 gpm at 2000psi, work string up and down every 20 minutes 3-4 meters. Tested stand pipe connection 4500 psi, rigged down cement hose, install bull plug onto SES and circulate and work string at 365 GPM, 2000 PSI, 20 RPM. While tightening up retaining clamps on stand pipe.
NEXT 24 HOURS:	Drill 13 1/2" hole to sectional TD at 2600m +/-. Circulate hole clean. POOH. Rig up to run wireline logs.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2215-2260 (2016-2054) ROP: 10-94 m/hr Avg: 67 m/hr	**SANDSTONE and SILTSTONE grading to CLAYSTONE:** **SANDSTONE (60-95%):** white to light grey, soft to firm, sucrosic, very fine to fine well sorted subrounded quartz, abundant soft to firm white silty argillaceous matrix, trace lithic grains, trace carbonaceous fragments, poor visible porosity. No show. Trace loose subangular to subrounded fine to very coarse quartz, trace pyrite clusters. **SILTSTONE (40%):** medium to dark grey, firm to moderately hard, sub-blocky, argillaceous, trace carbonaceous material, in parts grading to silty claystone. Below 2220m, grading to **CLAYSTONE (5-40%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky, minor silt, trace carbonaceous material, non calcareous.

2260-2335 (2054-2118) ROP: 24-92 m/hr Avg: 61 m/hr	**CLAYSTONE with minor SANDSTONE:** **CLAYSTONE (60-95%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material, non calcareous. **SANDSTONE (5-40%):** generally as above, quartzose, white to light grey, clear to translucent grains, trace friable aggregates, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments and laminae, poor visual porosity. No shows.
2335-2365 (2118-2141.8) ROP: 14-108 m/hr Avg: 69 m/hr	**SANDSTONE and CLAYSTONE, trace COAL:** **SANDSTONE (40-70%):** generally as above, quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, common bit generated textures, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments and laminae, poor visual porosity. No shows. **CLAYSTONE (30-60%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material, non calcareous. **COAL (tr):** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, trace silt.
2365-2405 (2141.8-2173) ROP: 17-83 m/hr Avg: 66 m/hr	**CLAYSTONE grading to SILTSTONE, minor SANDSTONE:** **CLAYSTONE (60-80%):** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE (20-30%):** as above. Trace loose very coarse quartz. **SILTSTONE (10% below 2395m):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, argillaceous, trace carbonaceous material and coaly fragments, non calcareous.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2215-2405	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2215-2260	0.04-0.45	339-4260	11-73	3-25	Tr-2	Tr-4	Tr	Tr
2260-2335	0.05-0.53	434-5009	6-94	2-22	0-2	0-3	0-Tr	0-Tr
2335-2365	0.05-0.25	486-2351	5-34	0-12	Tr	0-2	0	0-Tr
2365-2405	0.02-0.26	152-2456	3-40	2-13	0-1	0-2	0	0

SURVEYS

MD	ANGLE	Azi	TVD					

COMMENTS:

5m sample interval from 1600m. Some 5m intervals missed due to high ROP.
Mud sample collected at 2160m.

MWD Sensor offsets;

Resistivity: 12.31m
GR: 12.36m
Directional: 19.84m
Density: 27.58m
Neutron: 28.40m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	05-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	9	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2463 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2405 mMDRT	ECD:	1.48 SG
Progress:	58m	Mud Type:	SOBM
TD Lithology:	Claystone and Siltstone	Vis:	74
Water Depth:	57.1 m	Mud Fluid Loss:	4
RT Elevation:	41.1 m	Bit Type:	SMITH MS16LSPX

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Repaired leak on stand pipe manifold to stand pipe #1. Drilled 13 1/2" hole from 2405m - 2434m. Repaired leaking connection on stand pipe manifold to stand pipe #1 and #2. Drilled 13 1/2" hole from 2434m - 2463m.
06:00 Update	Drilled 13.5in hole from 2463m -2600m as per geologist instructions, building angle as per directional plan.
NEXT 24 HOURS:	Drill 13 1/2" hole to sectional TD at 2600m +/-. Circulate hole clean. POOH. Rig up to run wireline logs.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2405-2433 (2174-2196) ROP: 21-77 m/hr Avg: 51 m/hr	**CLAYSTONE and SANDSTONE, minor SILTSTONE** **CLAYSTONE (40-80%):** medium dark grey to dark grey, minor yellowish brown and light greenish grey in parts firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous materialand coaly fragments, non calcareous. **SANDSTONE (10-50%):** quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, common bit generated textures, very fine to fine grained, grading to Siltstone, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments, poor visual porosity. No shows. **SILTSTONE (10%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, argillaceous, trace carbonaceous material and coaly fragments, non calcareous.

2433-2445 (2196-2205) ROP: 28-84 m/hr Avg: 57 m/hr	**SANDSTONE and CLAYSTONE, minor SILTSTONE** **SANDSTONE (50%):** quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, very fine to fine, minor medium, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments, poor visual porosity. No shows. **CLAYSTONE (40%):** as above. **SILTSTONE (10%):** as above. Trace hard medium brown carbonaceous siltstone.
2445-2463 (2205-2219) ROP: 33-53 m/hr Avg: 48 m/hr	**CLAYSTONE and SILTSTONE, minor SANDSTONE:** **CLAYSTONE (60-70%):** as above, medium brown grey, soft in parts. **SILTSTONE (20%):** as above. Trace hard medium brown carbonaceous siltstone. **SANDSTONE (10-20%):** as above.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2405-2433	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2405-2433	0-0.03	123-236	2-5	2-3	0-tr	0-tr	0-tr	0-tr
2433-2455	0.01-0.17	49-1601	1-32	1-13	0-tr	0-tr	0-tr	0-tr
2455-2463	0.14-0.17	1289-1614	25-33	12-14	0-tr	1-2	0	0-tr

SURVEYS

MD	ANGLE	Azi	TVD					
2,531.76	48.61	183.24	2,308.51					
2,561.19	50.89	182.57	2,327.53					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

5m sample interval from 1600m. Some 5m intervals missed due to high ROP.
Mud sample collected at 2160m.

MWD Sensor offsets;

Resistivity: 12.31m
GR: 12.36m
Directional: 19.84m
Density: 27.58m
Neutron: 28.40m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	06-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	10	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2464 mMDRT	ECD:	- SG
Progress:	136m	Mud Type:	SOBM
TD Lithology:	Claystone and Siltstone	Vis:	78
Water Depth:	57.1 m	Mud Fluid Loss:	4
RT Elevation:	41.1 m	Bit Type:	SMITH MS16LSPX

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilled to 2,600m section TD. Circulated hole clean. POOH to 1741m. Hole tight at 1741m pumped and back reamed from 1741m - 1604m. Continued POOH to 1574m - no further overpull. Circulated bottoms up at 1574m. RIH TO 1781m no excess drag. POOH - max o/pull 10k. Down load data from ADN tool.
06:00 Update	Completed down loading data from ADN tool and racked back stand. Held TBT. Rigged up Schlumberger wire line. Picked up and made XPT/DSI tools and run log #1. RIH hole at 02.40 hrs. Logging down as per logging program taking pressure readings at:1709m, 1710m, 1862m. No responce from draw down on tool at 1862m. Commence pulling back to 1800m.
NEXT 24 HOURS:	Complete logging program and rig up to run 10 3/4" casing and run same.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2463-2495 (2212.8-2242) ROP: 17-75 m/hr Avg: 53 m/hr	**CLAYSTONE and SILTSTONE, minor SANDSTONE** **CLAYSTONE (60-70%):** medium dark grey to dark grey, minor yellowish brown and light greenish grey in parts firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material and coaly fragments, non calcareous. Trace to minor soft, medium brown grey claystone. **SILTSTONE (10-20%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, argillaceous, trace carbonaceous material and coaly fragments, non calcareous. Trace hard medium brown carbonaceous siltstone **SANDSTONE (10-20%):** quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, common bit generated textures, very fine to fine grained, minor medium, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments, poor visual porosity. No shows.

2495-2525 (2242-2263) ROP: 14-76 m/hr Avg: 49 m/hr	**SANDSTONE with minor SILTSTONE and CLAYSTONE:** **SANDSTONE (60-80%):** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor to abundant friable aggregates, very fine to medium grained, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace pinkish orange to white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows. **SILTSTONE (10-30%):** medium to dark grey, firm to hard, blocky to flakey, argillaceous. Trace hard brown carbonaceous siltstone. **CLAYSTONE (10%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous.
2525-2560 (2263-2286) ROP: 20-45 m/hr Avg: 40 m/hr	**SILTSTONE and CLAYSTONE with minor SANDSTONE** **SILTSTONE (40-70%):** medium to dark grey, firm to hard, blocky to flakey, argillaceous, trace to minor carbonaceous fragments. **CLAYSTONE (10-50%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous. **SANDSTONE (5-40%):** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows.
2560-2600 (2286-2310) ROP: 12-50 m/hr Avg: 37 m/hr	**CLAYSTONE with SANDSTONE and minor SILTSTONE** **CLAYSTONE (60-85%):** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous. **SANDSTONE (10-50%):** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, predominantly very fine to fine, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows. **SILTSTONE (10%):** medium to dark grey, firm to hard, blocky to flakey, argillaceous, trace to minor carbonaceous fragments.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2463-2495	0.04-0.86	295-3799	10-102	2-39	0-3	0-5	0	0
2595-2525	0.5-1.5	4118-17757	116-430	43-151	3-16	6-21	0-3	0-2
2525-2560	0.06-0.4	355-3952	12-129	14-57	2-7	3-11	0-2	0-2
2560-2600	0.06-0.3	267-2403	12-80	13-37	1-4	3-7	0-1	0-1
2600 Peak	3.9	29622	599	195	17	24	3	3

SURVEYS

MD	ANGLE	Azi	TVD					
2,531.76	48.61	183.24	2,308.51					
2,561.19	50.89	182.57	2,327.53					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

5m sample interval from 1600m. Some 5m intervals missed due to high ROP.
Mud sample collected at 2600m.

MWD Sensor offsets;

Resistivity: 12.31m
GR: 12.36m
Directional: 19.84m
Density: 27.58m
Neutron: 28.40m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	07-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	11	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2600 mMDRT	ECD:	- SG
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone and Siltstone	Vis:	78
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	4
RT Elevation:	41.06 m (LAT)	Bit Type:	SMITH MS16LSPX

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Racked back BHA. Rigged up Schlumberger wireline and RIH with XPT/DSI, unable to get drawn down at sample depths. RIH to hold up depth at 2525m WLM. Logged up with DSI from 2525m - 50m. POOH and laid out tools. Made up MDT tools RIH to hold up depth at 2520m and logged up from 2520m - 50. POOH and laid out tools. Made up and ran log #2 MDT, POOH.
06:00 Update	POOH with log #2 MDT and laid out tool string. Rehead wire line cable and dress SWC tool with shots. Pick up SWC tool string and RIH with log#3 SWC.
NEXT 24 HOURS:	Complete logging program and conduct wiper trip prior running casing.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new Lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:
Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	08-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	12	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2600 mMDRT	ECD:	- SG
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	78
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	4
RT Elevation:	41.06 m (LAT)	Bit Type:	SMITH 516

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Schlumberger ran MDT log and SWC. Re-run SWC due to tool failure. Picked up and made up wiper trip BHA.
06:00 Update	RIH with BHA. RIH with 5 1/2" drill pipe to 1604m.
NEXT 24 HOURS:	POOH with wiper trip assembly. Rig up Shlumberger wireline and run MDT. Prepare to run 10 3/4" casing.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new Lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

Sidewall Core Summary:

60 shots, recovered 54 cores, 4 lost bullets, 2 misfires.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	09-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	13	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 ½")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.43 SG
Last Depth:	2600 mMDRT	ECD:	- SG
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	78
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	4
RT Elevation:	41.06 m (LAT)	Bit Type:	SMITH 516

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00: RIH with wiper trip assembly, circulated bottoms up. Pumped and back reamed from 2600m - 2258m. Circulated bottoms up at 2258m. POOH.

06:00 Update Rigged up Schlumberger wire line. Made up tool string. RIH with log run #4 MDT/GR.

NEXT 24 HOURS: Complete running log #4 MDT. Rig up and run 10 3/4" casing.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new Lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

FORMATION TOPS

WD = 55.97 m LAT
RTE = 41.06 m LAT

FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Sea Floor/ Gippsland Limestone	78.5	-57	n/a	97.0	-55.97			
Lakes Entrance	-	-						
Latrobe	1299.2	-1223.8		1291	1214.6	9.2 Hi		
K/T Boundary	-	-						
Un-named Volcanics	1690. 5	-1561.7		1695	1562.8	1.1 Lo		
Chimaera	1724.1	-1590.7		1710	1575.8	14.2 Hi		
Kipper Shale	1757.4	-1619.5		1755	1614.6	4.9 Hi		
Admiral Formation	2179	-1983.9		2215	2015.9	32 Lo		
500 Sands	2287.8	-2077.7		2316	2101.7	24 Lo		
400 Sands	2418.8	-2187.3		2494	2241.5	54.2 Lo		
300 Sands	2544.2	-2278.6		2564	2288.2	9.6 Lo		
200 Sands	2595.3	-2310.9						
100 Sands	2682.0	-2361.9						
50 Sands	2789.9	-2425.0						
Emperor Volcanics	2849.4	-2459.7						
TD								

COMMENTS:

Sidewall Core Summary:

60 shots, recovered 54 cores, 4 lost bullets, 2 misfires.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward

Longtom-4

Date:	21-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	15	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	248 mm (9.76")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	130 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00: Continued running 22" riser joints and set down and latched to SST. Filled riser with sea water. Attempted pressure test and discovered leak on running tool, abandon test. Lowered CTU into position and commenced nippling up same. Excessive wind speed for over the side work, halted operations and WOW. Rigged up kill line to BOP and tested choke manifold

06:00 Update Continued WOW and testing choke manifold

NEXT 24 HOURS: Continue WOW, continue installing and tensioning CTU, make up BOP and diverter

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

Weather at 05:30hrs: Wind 28 - 33knots, swell to 3m

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Hamish Little

Longtom-4

Date:	22-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	16	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	248 mm (9.76")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	130 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Waited on weather (9.5hrs). Installed CTU and Claxton clamp, took tension on CTU and released DQ running tool on riser. Prepared and nippled up BOP, tested BOP connection and H4 riser connection to SST to 500psi 10min. Installed mandrel, overshot and diverter. Nippled up choke line on BOP.

06:00 Update

Ongoing repairs to TDS.

NEXT 24 HOURS:

Complete repairs on TDS, RIH and retrieve RTTS and lay out same. Test casing, H4 to SST, shear rams and choke & kill connections to 4000psi. Pick up 9.5in BHA and RIH for pilot hole section.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

Update to expected depths for the units from the 200 Sands down, as above.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4

Date:	23-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	17	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	248 mm (9.76")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	130 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY

00:00 - 24:00: Nippled up choke line to BOP. Continued with repairs to TDS: Support shaft for grabber badly bent, requiring heating to straighten up. Changed out dolly bearings for TDS. Attended to leak on grabber. Changed out wash pipe. Slipped and cut line, made up RTTS r/tool to retrieve RTTS packer.

06:00 Update RIH with RTTS r/tool to 150m, broke circulation and filled well. With pump at 1 bbl/min, tagged RTTS with r/tool at 155m with 3klbs. Observed pressure build up. Screwed into RTTS with 22 turns - torque build up to 4kft-lbs. Unseated RTTS with 10klbs o/pull, POOH RTTS to surface. Made service breaks on RTTS and Storm valve and laid down same. Continued to POOH with cementing string from 917m to 111m.

NEXT 24 HOURS: Lay out 2.875in DP stinger. Perform 4000psi casing pressure test, make up 9.5in BHA and RIH to drill pilot hole to coring depth at approx 2820mMD.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2,578.22	52.52	183.03	2,338.08					

COMMENTS:

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4

Date:	24-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	18	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	248 mm (9.76")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	130 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

RIH with RTTS r/tool, engaged RTTS and POOH laying down same. Continued POOH with cementing string and laid out 2.875in stinger joints. Pressure tested csg against shear rams to 3000psi. Pressure tested I-BOP to 500/5000psi and repaired swivel packing. Laid down BHA and cement stand from derrick.
END OF PORTION OF LONGTOM 16h30 on 24 July 2008.

06:00 Update

-

NEXT 24 HOURS:

Drill ahead Longtom-4 P pilot hole to coring depth at approx 2820mMD.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					

2,578.22	52.52	183.03	2,338.08					

COMMENTS:

This report completes geological reporting for Longtom-4

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	24-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	1	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	248 mm (9.76")
Depth @ 2400 Hrs:	2600 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	
Progress:	-	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	125 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

From 1630 hrs: Made up 9.5in rotary steerable BHA and RIH to 153m. Shallow tested MWD tools, good test. Displaced hole to SBM at 153m. Continued RIH from 153m to 982m.

06:00 Update

Continued RIH with 9.5in BHA from 982m to 2525m filling up every 15 stands at first and then every 20 stands as ported float eased requirements for filling up pipe. Washed down from 2525m and tag top of cement at 2551m. Washed and drilled down cement from 2551m to 2554m.

NEXT 24 HOURS:

Drill out cement and 3m of new formation, perform FIT and drill ahead 9½ in hole to core point.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2433-2600	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					

2,578.22	52.52	183.03	2,338.08					

COMMENTS:

This report starts geological reporting for Longtom-4 P

MWD/LWD Sensor Offsets BHA 1

Sensor	**Distance to bit**	**Record Rate**
Gamma Ray	9.70 m	2 seconds
Resistivity	12.75 m	2 seconds
Thermal Neutron Porosity	13.15 m	4 seconds
Density	10.96 m	4 seconds
Spectroscopy	13.30 m	4 seconds
Ultrasonic Caliper	11.33 m	4 seconds
Pressure Whilst Drilling	9.87 m	4 seconds
Direction & Inclination	20.07 m	

Tools have 194 hours (circulation time above 400GPM) of available data storage.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	25-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	2	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9.5")
Depth @ 2400 Hrs:	2819 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2600 mMDRT	ECD:	1.55
Progress:	219 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	85 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

RIH with 9½" BHA from 982m to 2525m. Washed down and tagged cement at 2551m. Drilled cement from 2551m to shoe at 2591m and rat hole to 2600m. Drilled 4m of new formation, circulated bottoms up and performed FIT to 14ppg EMW. Drilled from 2604m to 2819m.

06:00 Update

Drilled 9½" hole from 2819m to 2841m - coring point. Circulated 1.5 x bottoms up at 750 gpm, 180rpm. Flow checked well and POOH back reaming at 60m/h ROP to recapture LWD/MWD missed data over intervals from 2800m - 2790m, 2755m - 2745m and 2725m - 2715m. Continued POOH from 2715m to shoe at 2600m. Flow checked well.

NEXT 24 HOURS:

Run core barrel and cut core.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2600.0 – 2632.0 (2310.2 – 2329.2) ROP 7 – 55m/hr Avg. 25m/hr	**Interbedded Siltstone, Sandstone and Claystone, with trace Coal.** **SILTSTONE:** medium to dark grey, firm to hard, blocky to sub blocky, minor argillaceous matrix, trace carbonaceous fragments. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt, non calcareous. **SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, very fine to medium grained, predominantly fine to medium, angular to sub rounded, moderate to high sphericity, moderately well sorted quartz, trace light grey argillaceous matrix, trace weathered feldspar grains, common bit generated rock flour, poor to fair inferred porosity. No shows. **COAL:** brownish black to black, firm, brittle, sub vitreous lustre.
2632.0 – 2683.0 (2329.2 – 2359.8) ROP 9 – 40m/hr Avg. 25m/hr	**Claystone, minor Sandstone.** **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt and silty laminae, non calcareous. **SANDSTONE:** medium light grey to light grey, predominantly clear to translucent quartz grains, soft friable aggregates, very fine to fine grained, well sorted, sub angular to sub rounded, moderately spherical, trace to minor light

	grey argillaceous matrix, non calcareous, minor reddish brown rounded lithic grains, rare greyish black carbonaceous material, poor visual porosity. No shows
2685.0 – 2762.0 (2361.0 – 2409.4) ROP 8 – 81m/hr Avg. 43m/hr	**Sandstone with minor Claystone and trace Coal.** **SANDSTONE:** very light grey to light grey, predominantly clear to translucent quartz grains, rare rose quartz, dominantly soft friable aggregates, trace loose grains, minor rock flour, very fine to fine grained, well sorted, sub angular to rounded, moderately to very spherical, dominantly moderately spherical, trace to minor light grey argillaceous matrix, non calcareous, rare reddish brown rounded lithic grains, minor greyish black to black carbonaceous material, rare greenish grey glauconite(?) grains, poor visual and fair inferred porosity. No shows. Becoming dominantly loose and medium grained below 2710m. **CLAYSTONE:** predominantly as above **COAL:** black, vitreous, blocky, sub conchoidal fracture, moderately hard to hard
2762.0 – 2821.0 (2409.4 – 2448.6) ROP 5 – 100m/hr Avg. 44m/hr	**Claystone with minor Sandstone and Coal stringers.** **CLAYSTONE:** medium grey to medium dark grey, firm, blocky, rarely sub fissile in part, rare carbonaceous laminae, common to abundant quartz silt grains, grading in part to **SILTSTONE**. **SANDSTONE:** very light grey to light grey, predominantly clear to translucent loose quartz grains, minor soft friable aggregates, fine to medium grained, predominantly fine, well to very well sorted, sub angular to sub rounded, spherical, very light grey argillaceous matrix in part, minor greyish black to black carbonaceous material, poor visual and inferred porosity. No shows.
2821.0 – 2841.0 (2448.6 – 2503.6) ROP 13 – 27m/hr Avg. 24m/hr	**Sandstone with minor Claystone, trace Coal.** **SANDSTONE**: white to very light grey, clear to translucent, trace orange stained, quartz grains, dominantly loose, common soft friable aggregates, very fine to medium grained, dominantly fine to medium grained, moderate to well sorted, sub angular to sub rounded, spherical, very light grey argillaceous matrix, poor visual and fair inferred porosity. No shows **CLAYSTONE:** predominantly as above **COAL:** black, vitreous, blocky, sub conchoidal fracture, hard, sandy

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2600-2841	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2600-2632	0-0.14	4-1221	0-12	0-14	0	0	0	0
2632-2685	0-0.14	52-1536	0-35	0-16	0-1	0-3	0	0
2685-2762	0.12-1.1	1017-17028	21-675	10-209	0-28	0-32	0-5	0-2
2762-2821	0.06-1.2	258-18336	15-157	13-70	2-6	3-9	0-2	0-2
2821-2841	0.46-2.3	730-19632	25-401	15-204	2-19	4-26	0-5	0-2
2721.5	4.28	37486	675	209	21	25	4	3
2761.0	5.25	40612	812	307	33	40	7	5
2823.5	3.12	27552	734	227	30	31	7	5

SURVEYS

MD	ANGLE	Azi	TVD					
2740.27	50.60	184.48	2436.43					
2770.05	50.01	184.85	2455.46					
2798.55	47.70	183.57	2474.21					

COMMENTS:

Communication with the rotary steerable down-hole motor was lost during the run from 2663m. Without control the BHA had a dropping tendency.

The neutron tool lost communication for three short intervals, 2719-2723m, 2748-2754m, 2790-2799m and reaming out of hole over these intervals was done during POOH to reacquire lost data.

MWD/LWD Sensor Offsets BHA #1

Sensor	Distance to bit	Record Rate
Gamma Ray	9.70 m	2 seconds
Resistivity	12.75 m	2 seconds
Thermal Neutron Porosity	13.15 m	4 seconds
Density	10.96 m	4 seconds
Spectroscopy	13.30 m	4 seconds
Ultrasonic Caliper	11.33 m	4 seconds
Pressure Whilst Drilling	9.87 m	4 seconds
Direction & Inclination	20.07 m	

Tools have 194 hours (circulation time above 400GPM) of available data storage.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	26-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	3	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2841 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2819 mMDRT	ECD:	1.55
Progress:	22 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	86 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:

Drilled 9.5in hole from 2819m to 2841m - core point. Circulated and POOH back reaming over 3 sections to recapture missed MWD/LWD data. Continued POOH and laid down malfunctioning Schlumberger tools in BHA. Made up core barrel and RIH same to 2369m.

06:00 Update

Continued RIH with core barrel from 2369m to 2812m. Washed down using 300gpm from 2812m and tag bottom at 2841m. Dropped ball - pressure increased from 400psi to 750psi. Took SCR's. Cut core #1 from 2841m to 2895m making a connection for a new stand at 2869m. Core at 60 - 70rpm, 230gpm, 1100psi and 7klbs WOB. ROP 5 - 20m/hr.

NEXT 24 HOURS:

Complete cutting core, POOH and lay down core and core barrel. Pick up 9½ in BHA to drill ahead.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2600-2841	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2798.55	47.70	183.57	2474.21					

COMMENTS:

Loss of communication with the rotary steerable down-hole motor from 2663m continued to effect directional control during drilling to core point. Without control the BHA had a dropping tendency.

All recorded LWD data downloaded.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	28-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	5	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2987 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2896 mMDRT	ECD:	1.55
Progress:	91 m	Mud Type:	SOBM
TD Lithology:	Volcanics	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

RIH with 9½" BHA from 143m to 209m. Shallow tested tools and continued RIH to 2637m washing down the last 17m. Recaptured missing MWD/LWD data from 4 sections over total interval from 2640m to 2813m. Reamed the cored section and continued to drill 9½" hole from 2896m to 2987m - final TD of Pilot hole. Circulated sample up and POOH to 2430m.

06:00 Update

Continued to POOH from 2430m to top of BHA, flow checked and continued POOH BHA. Laid out Jars, unloaded RA source, broke out bit and bit sub and laid down Schlumberger MWD/LWD tools. Cleaned rig floor, held PJSM and commenced rig up for Schlumberger wireline logs.

NEXT 24 HOURS:

Run wireline logs.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2896 – 2968m (2500.2 – 2550.7) ROP 10.5 – 97.4m/hr 58.2m/hr avg	**Interbedded Sandstone and Claystone** **SANDSTONE:** very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to predominantly fine grained, trace medium, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, trace black lithic grains, trace weathered feldspar grains, poor visual porosity. No Shows. **CLAYSTONE:** medium dark grey to dark grey, hard, sub blocky to blocky, common bit generated texture, trace quartz silt, trace carbonaceous fragments, non calcareous.
2968 – 2987m (2550.7 – 2563.7) ROP 0.5 – 51.7m/hr	**Volcanics** **VOLCANICS:** varicoloured, predominantly shades of light grey and greenish grey, minor white and pale reddish brown, returned as loose grains and minor microcrystalline rock fragments, common clear quartz, common black Basalt(?), medium to granule sized grains, dominantly coarse to granule, sub angular to

12.2m/hr avg	very angular, rare nodular Pyrite, trace fresh and weathered feldspathic grains

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2896 – 2987m	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2966m	3.33	11325	156	44	4	5	1	1
2896-2968	0-0.58	434-2194	15-28	2-8	0	0	0	0
2968-2987	0-0.17	11-1437	0-21	0-13	0	0	0	0

SURVEYS

MD	ANGLE	Azi	TVD					
2916.37	46.19	183.31	2555.10					
2946.06	45.04	184.18	2575.87					
2970.49	45.14	184.59	2593.11					

COMMENTS:

TD Pilot hole reached at 20:50 hours.

MWD/LWD Sensor Offsets BHA # 11

Sensor	Distance to bit	Record Rate
Gamma Ray	3.75 m	2 seconds
Resistivity	6.80 m	2 seconds
Thermal Neutron Porosity	7.20 m	4 seconds
Density	5.01 m	4 seconds
Spectroscopy	7.35 m	4 seconds
Ultrasonic Caliper	5.38 m	4 seconds
Pressure Whilst Drilling	3.92 m	4 seconds
Direction & Inclination	14.11 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	29-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	6	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2986 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2986 mMDRT	ECD:	1.55
Progress:	0 m	Mud Type:	SOBM
TD Lithology:	Volcanics	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

POOH 9.5in bit from 2430m to surface, laying down the jar and MWD/LWD tools. Rigged up Schlumberger and ran wireline log #1 XPT/DSI.

06:00 Update

Continued logging DSI of wireline log #1 to 2050m. POOH Schlumberger log #1 XPT/DSI to surface. Prepared for radio silence for log #2. Laid down tools from wireline log #1. Prepared for radio silence for log #2. Made up Schlumberger log #2 SWC. Prepared for Radio silence. RIH with log #2 SWC.

NEXT 24 HOURS:

Complete SWC logging run and RIH with cementing string to plug back the pilot hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2896 – 2987m	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2916.37	46.19	183.31	2555.10					
2946.06	45.04	184.18	2575.87					
2970.49	45.14	184.59	2593.11					

COMMENTS:

40 pressure tests, 13 valid, Suite 2 Run 1a XPT

XPT + DSI stuck at TD for 20 minutes, pull to 8500lbs to free, continue XPT logging.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	30-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	7	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2986 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2986 mMDRT	ECD:	1.55
Progress:	0 m	Mud Type:	SOBM
TD Lithology:	Volcanics	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Completed logging run #1 XPT/DSI, rigged up and ran log #2 CST/GR. GR failed once in the hole, POOH GR to surface and changed out GR. Continued RIH and completed log #2 CST/GR. Picked up cement stinger made up of 2.875in tubing and run on 5.5in DP and RIH to 253m. Performed rig service.

06:00 Update

RIH with cement stinger at 1615m.

NEXT 24 HOURS:

Pending status of main engines, continue and place cement plug in pilot hole, POOH and pick up DP for new horizontal section.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2916.37	46.19	183.31	2555.10					
2946.06	45.04	184.18	2575.87					
2970.49	45.14	184.59	2593.11					

COMMENTS:

Gamma Ray tool failure on Suite 2 Run 2 CST, POOH to retrieve back up tool amounted to 6 hours 35 minutes lost time. Shot 60, recovered 53, 2 misfires, 3 lost in hole and 2 empty.

Alteration to Top of 300 Sand after logging Pilot Hole.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 P

Date:	31-07-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	8	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2986 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2986 mMDRT	ECD:	1.55
Progress:	0 m	Mud Type:	SOBM
TD Lithology:	Volcanics	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Serviced TDS, 2 x main engines dropped off line, restarted engines and continued RIH from 253m to 785m. 2 x main engines dropped off line, restarted engines and continued to RIH to shoe at 2591m. Troubleshoot engines, cleaned fuel settling tank and brought 3 engines back on line. Continued to RIH to 2858m, pumped CST at 2855m and placed balanced cement plug from 2848m to 2698m. Pulled up 6 stands and circulated bottoms up. POOH cementing assembly to 165m. END OF SECTION LONGTOM-4 P.

06:00 Update

Start of LONGTOM-4 H from 0000 hrs. Laid down 2.875in cement stinger joints. Cleaned rig floor and made up 9.5in rotary steerable BHA and RIH with bit #10 to 214m.

NEXT 24 HOURS:

Continue RIH picking up 5.5in DP to drill start of horizontal section of Longtom-4.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
2916.37	46.19	183.31	2555.10					
2946.06	45.04	184.18	2575.87					
2970.49	45.14	184.59	2593.11					

COMMENTS:

Top 300 Sands has been revised.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	01-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	1	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2698 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2698 mMDRT	ECD:	1.55
Progress:	0 m	Mud Type:	SOBM
TD Lithology:	-	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	2.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Laid down 2.875in cement stinger joints. Picked up bit #10 and rotary steerable BHA and RIH picking up DP from 214m to 293m. Repaired burst hose on iron roughneck and continued RIH picking up DP to 1246m. Performed rig service and installed cooler fan on TDS hydraulic system. RIH with pipe from derrick to 1452m. Shut down operations due to extreme winds: 55 - 70knots.

06:00 Update

RIH at 1689m.

NEXT 24 HOURS:

Continue RIH with bit #10 and commence drilling kick-off section of Longtom-4 H.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					

COMMENTS:

Expected top of cement in Longtom-4 P is 2685mMD.

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	02-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	2	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	2719 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2690 mMDRT (TOC)	ECD:	1.5 sg
Progress:	29 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	92 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	4.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSR616M-B3

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Waited for weather to subside and continued RIH from 1452m to TOC at 2690m. Drilled cement from 2690m to 2696m and reamed this drilled section to prepare for kick-off. Control drilled from 2696m to 2719m to commence kick-off.

06:00 Update

Control drilled 9½" hole as per DD requirements from 2719m to 2733m. Sample at 2723m: 90% formation, 10% cement. Sample at 2727m: 95% formation, 5% cement. Increased allowable ROP in stages and confirmed sample composition at each increase to ensure kick-off not dropping back into pilot hole.

NEXT 24 HOURS:

Continue drilling ahead as per Directional Driller's requirements.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2687 – 2730m (2362.5 – 2389m) ROP: controlled	**SANDSTONE:** light to medium grey, predominantly clear, translucent and rare pink quartz, dominantly soft friable aggregates, minor loose, sub rounded to rounded, very fine to rare medium grained, moderately well sorted, spheroidal, minor light grey argillaceous matrix, common dark grey lithic grains, common black vitreous coal fragments, rare green glauconite grains, trace to minor weathered feldspar, fair visual and inferred porosity. No Shows.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2687-2730	0.02-0.44	11-44488	0-45	0-14	-	-	-	-

SURVEYS

MD	ANGLE	Azi	TVD					
2681.00	52.50	184.22	2399.5	Tie In				
2704.04	51.56	184.69	2413.7					

COMMENTS:

Tagged top of cement in Longtom-4 P at 2687mMD

MWD/LWD Sensor Offsets BHA # 7 (Anadrill), Bit # 10

Sensor	Distance to bit	Record Rate
Gamma Ray	9.73 m	2 seconds
Resistivity	12.77 m	2 seconds
Thermal Neutron Porosity	13.17 m	4 seconds
Density	10.98 m	4 seconds
Spectroscopy	13.32 m	4 seconds
Ultrasonic Caliper	11.35 m	4 seconds
Pressure Whilst Drilling	9.89 m	4 seconds
Direction & Inclination	20.08 m	

Tools have 292 hours (circulation time above 400GPM) memory

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	03-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	3	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3006 mMDRT	Mud Weight:	1.45 sg
Last Depth:	2719 mMDRT (TOC)	ECD:	1.52 sg
Progress:	287 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	92 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	4.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSR616M-B3

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00: Drilled 9½" hole as per DD requirements from 2719m to 3006m (2573.4mTVD).

06:00 Update Drilled 9½" controlled drilling as per DD requirements from 3006m to 3081m. Repaired hydraulic leak on TDS. Made connection and drilled ahead 9½" controlled drilling as per DD requirements from 3081m to 3083m

NEXT 24 HOURS: Continue drilling ahead as per Directional Driller's requirements to intersect the "50" sands.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
2730 – 2762m (2389.4 – 2409.7m) ROP: 4 - 45m/hr	**Sandstone with trace Claystone** **SANDSTONE: (100%)** light grey to medium light grey, predominantly clear, minor translucent and rare pink quartz, friable aggregates, minor loose, common bit generated texture, sub rounded to rounded, very fine to fine grained, trace medium, moderately well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor dark grey to greyish black lithic grains, rare black vitreous coal fragments, trace moderate red lithic grains, trace to rare fresh and weathered feldspar grains, poor to fair visual and inferred porosity. No Shows. **CLAYSTONE: (Trace)** medium dark grey, hard, blocky, sub fissile in part, non calcareous
2762 – 2828m (2409.7 – 2449.5m) ROP: 17 - 41m/hr	**Claystone with Interbedded Sandstone** **CLAYSTONE:** (5-100%) medium grey to medium dark grey, moderately hard, blocky, trace silt, trace carbonaceous fragments, non calcareous. **SANDSTONE:** (5-95%) light grey to medium light grey, predominantly clear, minor translucent, friable aggregates, minor loose, common bit generated texture, very fine to fine grained, trace medium, sub rounded to rounded, moderately well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor dark grey to greyish black lithic grains, rare black vitreous coal fragments, trace moderate red lithic grains, trace to rare fresh and weathered feldspar grains, poor to fair visual and inferred porosity. No Shows.

2828 – 2862m (2449.5 – 2469.0m) ROP 9 – 30m/hr	**Sandstone with minor Claystone interbeds** **SANDSTONE:** (70-90%) light grey to medium light grey, clear to translucent grains, trace pink grains, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, sub rounded to rounded, minor angular to sub angular, well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, trace moderate red lithics, fair inferred porosity. No Shows. **CLAYSTONE:** (10-30%) medium grey to medium dark grey, moderately hard, blocky, trace silt and very fine grained quartz, trace finely disseminated carbonaceous fragments, non calcareous.
2862 – 3080m (2469 – 2556.6m) ROP: 7-44 m/hr	**Claystone with thin Sandstone and Coal interbeds** **CLAYSTONE:** (70-90%) medium grey to dark grey, moderately hard, blocky, trace finely disseminated carbonaceous material, non calcareous, trace very fine sand grains, grading in part to SILTSTONE **COAL:** (Tr-10%) brownish black to black, moderately hard, blocky, brittle, sub vitreous lustre **SANDSTONE:** (10-30%) light grey to medium light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, sub rounded to rounded, minor angular to sub angular, well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, fair inferred porosity. No Shows.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2730-2762	3.84	32160	375	173	16	23	3	2
2762-2828	0.15-0.31	1250-3552	22-60	15-32	1-3	3-6	-	-
2828-2862	3.48	30420	523	174	23	25	6	4
2862-3080m	0.1-0.2	1020-1820	27-57	18-29	3-5	4-7	1-2	0-1

SURVEYS

MD	ANGLE	Azi	TVD					
2941.41	65.11	188.76	2548.7		D&I			
2987.04	68.43	190.05	2566.7		Xceed			
3016.23	69.92	189.15	2577.1		Xceed			

COMMENTS:

The D&I MWD tool started sending erroneous data following survey at 2941m.
Surveys from then on are from Xceed.

Ultrasonic Caliper providing erroneous data from 3025m

MWD/LWD Sensor Offsets BHA # 7 (Anadrill), Bit # 10

Sensor	Distance to bit	Record Rate
Gamma Ray	9.73 m	2 seconds
Resistivity	12.77 m	2 seconds
Thermal Neutron Porosity	13.17 m	4 seconds
Density	10.98 m	4 seconds
Spectroscopy	13.32 m	4 seconds
Ultrasonic Caliper	11.35 m	4 seconds
Pressure Whilst Drilling	9.89 m	4 seconds
Direction & Inclination	20.08 m	

Tools have 250 hours remaining memory (circulation time above 400GPM) 06:00hrs

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	04-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	4	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3259 mMDRT	Mud Weight:	1.45 sg
Last Depth:	3006 mMDRT	ECD:	1.46 sg
Progress:	253 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	85 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSR616M-B3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	Drilling ahead as per DD requirements from 3006m to 3259m (2632.9mTVD).
06:00 Update	Drill ahead 9½" hole as per DD requirements from 3259m to 3400m.
NEXT 24 HOURS:	Continue drilling as per DD requirements to intersect the "100" sands.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
3080 – 3132m (2556.6 – 2571.3) ROP:3 – 27m/hr	**Claystone with minor interbedded Sandstone** **CLAYSTONE:** (95%) medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous **SANDSTONE:** (5%) very light grey to light grey, clear to translucent grains, dominantly soft friable aggregates, very fine to predominantly fine grained, angular to sub rounded, rare well rounded, well to very well sorted, moderate sphericity, minor light grey argillaceous matrix, poor visual porosity. No Shows.
3132 – 3151m (2571.3 – 2575.6) ROP: 9 – 32m/hr	**Sandstone with minor interbedded Claystone** **SANDSTONE:** (90%) very light grey to light grey, clear to translucent grains, common friable aggregates, minor loose, very fine to very coarse grained, predominantly fine, trace coarse and very coarse, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual porosity. No Shows **CLAYSTONE:** (10%) medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous
3151 – 3173m (2575.6 – 2579.7) ROP: 8 – 18 m/hr	**Claystone** **Claystone:** as above

3173 – 3265m (2579.7-2593.0m) ROP: 8 – 31m/hr 3173 – 3265m cont'	**Sandstone with minor interbedded Claystone** SANDSTONE: (90%) very light grey to light grey, clear to translucent grains, common friable aggregates, minor loose, very fine to very coarse grained, predominantly fine, trace coarse and very coarse, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual porosity. No Shows **CLAYSTONE:** (10%) medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous
3265 – 3340m (2579.7 – 2594.1) ROP: 17- 47m/hr	**Claystone with interbedded Sandstone** **CLAYSTONE:** (80-90%) medium grey to dark grey, soft to firm, dominantly firm, sub blocky to blocky, dominantly blocky, rare finely disseminated carbonaceous material, non calcareous **Sandstone:** (10-20%) as above

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
3080 - 3340	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3080 – 3132m	0.07 -0.2	483-1296	3-14	2-8	-	-	-	-
3132 – 3151m Broad peak	1.73	15250	194	65	6	9	1	1
3151 – 3173m	0.07-0.l34	322-4994	7-68	4-25	0-2	0-3	-	-
3173 – 3265m	0.7-1.1	4458-13210	43-159	19-59	0-5	1-7	0-1	0-1
3239m Peak	2.65	22377	293	101	10	13	2	2
3265 -3340m	0.1-0.76	389-7349	3-76	3-33	0-3	0-5	-	-

SURVEYS

MD	ANGLE	Azi	TVD					
3313.51	90.41	179.55	2635.6					
3343.47	93.13	182.41	2634.7					
3373.36	94.02	181.60	2632.8					

COMMENTS:

Surveys are from the Exceed tool.
Ultrasonic Caliper continues providing erroneous data

MWD/LWD Sensor Offsets BHA # 7 (Anadrill), Bit # 10

Sensor	**Distance to bit**	**Record Rate**
Gamma Ray	9.73 m	2 seconds
Resistivity	12.77 m	2 seconds
Thermal Neutron Porosity	13.17 m	4 seconds
Density	10.98 m	4 seconds
Spectroscopy	13.32 m	4 seconds
Ultrasonic Caliper	11.35 m	4 seconds
Pressure Whilst Drilling	9.89 m	4 seconds
Direction & Inclination	20.08 m	

Tools have 227 hours remaining memory (circulation time above 400GPM) 06:00hrs

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	05-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	5	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3577 mMDRT	Mud Weight:	1.43sg
Last Depth:	3259 mMDRT	ECD:	1.53 sg
Progress:	318 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	78 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSR616M-B3

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Drilled 9½" hole as per DD requirements from 3259m to 3577m (2626mTVD). MWD tool failed a number of times during this period and had to be restarted by recycling pumps. Decision made to POOH to change BHA tools. Circulated 2x bottoms up and POOH from 3577m to 3149m.

06:00 Update

Continued POOH from 3149m to 10¾" shoe at 2591m. Tight spots from 3230m to 3147m for 4 stands and from 2751m to 2748m. Max o/pull 35klbs. Performed flow check at 10¾" shoe and pumped slug. Continued POOH from 2591m to 1100m.

NEXT 24 HOURS:

Complete POOH, change out bit and BHA tools, pick up more DP and RIH to directionally drill 9½" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
3340 – 3577mMD (2594.1 – 2585.3) ROP: 9 - 47m/hr	**Claystone with thinly interbedded Sandstone** **CLAYSTONE:** (10-90%) medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, rare finely disseminated carbonaceous material, non calcareous **SANDSTONE**: (10-90%) very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to fine grained, predominantly fine, trace medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, rare greyish black lithics, rare fresh and weathered feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
3340 – 3577m	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3340 – 3577m	0.04-0.22	199-1988	1-28	2-16	0-1	0-3	0-2	-

SURVEYS

MD	ANGLE	Azi	TVD					
3492.03	91.51	180.60	2627.55					
3521.63	91.27	178.88	2626.83					
3551.39	91.44	180.83	2626.12					

COMMENTS:

Surveys are from the Exceed tool. Ultrasonic Caliper continues providing erroneous data

MWD/LWD Sensor Offsets BHA # 7 (Anadrill), Bit # 10

Sensor	Distance to bit	Record Rate
Gamma Ray	9.73 m	2 seconds
Resistivity	12.77 m	2 seconds
Thermal Neutron Porosity	13.17 m	4 seconds
Density	10.98 m	4 seconds
Spectroscopy	13.32 m	4 seconds
Ultrasonic Caliper	11.35 m	4 seconds
Pressure Whilst Drilling	9.89 m	4 seconds
Direction & Inclination	20.08 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	06-08-2008	Last Casing:	273 mm (10.75") @ 2590.8 mMDRT
Report Number:	6	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3577 mMDRT	Mud Weight:	1.45sg
Last Depth:	3577 mMDRT	ECD:	-
Progress:	0 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	110 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	5.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSX616M-A4

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

POOH, due to MWD failure, with bit #10 from 3149m to 214m, flowchecking at shoe. Laid out all BHA tools, changed bit and BHA tools and RIH to 2577m shallow testing tools at 273m. Commenced changing out saver sub on TDS.

06:00 Update

Continued with changing out saver sub and grabber dies on TDS. Continued RIH from 2577m to 3129m. Hole tight. Worked pipe through tight spots including washing and reaming from 3129m to 3228m. Max 40klbs over sliding weight to RIH without rotation.

NEXT 24 HOURS:

Continue RIH and drill 9½" hole from 3577m.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	No new lithology drilled

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
3492.03	91.51	180.60	2627.55					

3521.63	91.27	178.88	2626.83					
3551.39	91.44	180.83	2626.12					

COMMENTS:

MWD/LWD Sensor Offsets BHA # 8 (Anadrill), Bit # 11

Sensor	**Distance to bit**	**Record Rate**
Gamma Ray	9.69 m	2 seconds
Resistivity	12.73 m	2 seconds
Thermal Neutron Porosity	13.14 m	4 seconds
Density	10.95 m	4 seconds
Spectroscopy	13.29 m	4 seconds
Ultrasonic Caliper	11.32 m	4 seconds
Pressure Whilst Drilling	9.86 m	4 seconds
Direction & Inclination	20.07 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	07-08-2008	Last Casing:	273 mm (10.¾") @ 2590.8 mMDRT
Report Number:	7	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3791 mMDRT	Mud Weight:	1.45sg
Last Depth:	3577 mMDRT	ECD:	1.57sg
Progress:	214 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	81 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	5.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSX616M-A4

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00:

Changed out saver sub on TDS and continued RIH from 2577m to 3129m - hole tight. Worked tight spots and washed and reamed from 3129m to 3289m. Continued RIH from 3289m to 3555m. Washed and reamed to 3577m and drilled as per DD from 3577m to 3791m (2626.8mTVD).

06:00 Update

Continued controlled drilling as per DD and Geology requirements from 3791m to 3915m.

NEXT 24 HOURS:

Continue drilling 9½" hole from 3791m

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
3577 – 3636 (2585.2 - 2583.6) ROP: 10–51m/hr	**Claystone with occasional thinly bedded Sandstones** **CLAYSTONE**: (60-95%) medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous. **SANDSTONE**: (5-40%) very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to predominantly fine grained, angular to sub rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.
3636 – 3880 (2583.6 – 2596.1) ROP: 4-51m/hr	**Sandstone** **SANDSTONE**: (100%) very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to coarse grained, predominantly fine, common medium, rare coarse, angular to sub rounded, sub spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace feldspars, fair inferred porosity. No Shows.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
3577 - 3880	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3577 – 3636m	0.07-0.17	529-1518	6-24	4-14	-	-	-	-
3636 – 3878	1.0-3.84	7356-32164	197-475	71-173	8-16	13-23	2-3	1-2
3653 Peak	5.27	47069	1180	385	50	53	12	8

SURVEYS

MD	ANGLE	Azi	TVD					
3799.79	83.81	184.62	2627.8					
3829.12	82.94	183.90	2631.1					
3859.22	84.01	183.23	2634.6					

COMMENTS:

Ultrasonic Caliper giving erroneous readings from 3790mMD

MWD/LWD Sensor Offsets BHA # 8 (Anadrill), Bit # 11

Sensor	Distance to bit	Record Rate
Gamma Ray	9.69 m	2 seconds
Resistivity	12.73 m	2 seconds
Thermal Neutron Porosity	13.14 m	4 seconds
Density	10.95 m	4 seconds
Spectroscopy	13.29 m	4 seconds
Ultrasonic Caliper	11.32 m	4 seconds
Pressure Whilst Drilling	9.86 m	4 seconds
Direction & Inclination	20.07 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

Longtom-4 H

Date:	10-08-2008	Last Casing:	273 mm (10.¾") @ 2590.8 mMDRT
Report Number:	10	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	4648 mMDRT	Mud Weight:	1.45sg
Last Depth:	4582 mMDRT	ECD:	1.6sg
Progress:	66 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	80sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	3.8cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSX616M-A4

OPERATIONS SUMMARY

24 HOUR SUMMARY
00:00 - 24:00: Drilled 9½ hole as per DD requirements from 4582m to 4648m (2695.9m TVD) - final TD of hole. Circulated 5x bottoms up and back reamed all stands from 4648m to 3823m. A leaking wash pipe was changed out during this trip period.

06:00 Update POOH from 3823 to 3168m back reaming every stand.

NEXT 24 HOURS: Continue POOH and rig up to run 7" liner.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
	Lithology to TD summarised in yesterday's report

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)

SURVEYS

MD	ANGLE	Azi	TVD					
4568.77	84.96	189.40	2687.1					
4598.48	84.84	186.02	2689.8					
4627.92	82.10	185.79	2693.1					

COMMENTS:

This report completes well site geological reporting for the Longtom-4 campaign
Wellsite Geologists depart rig 11/08/08

MWD/LWD Sensor Offsets BHA # 8 (Anadrill), Bit # 11

Sensor	Distance to bit	Record Rate
Gamma Ray	9.69 m	2 seconds
Resistivity	12.73 m	2 seconds
Thermal Neutron Porosity	13.14 m	4 seconds
Density	10.95 m	4 seconds
Spectroscopy	13.29 m	4 seconds
Ultrasonic Caliper	11.32 m	4 seconds
Pressure Whilst Drilling	9.86 m	4 seconds
Direction & Inclination	20.07 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little

APPENDIX 9: CUTTINGS DESCRIPTIONS

Longtom-4 Pilot Hole Lithology / Show Descriptions

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
			From mudline to 755m, well drilled without riser, all returns to the seafloor. All depths are MDRT unless otherwise specified.
			755-758m drilled for FIT with returns to sea floor.
758	780	100	**CALCILUTITE:** medium grey, soft to moderately firm, amorphous to sub blocky, dispersive, trace nodular and disseminated pyrite, trace crystalline calcite, trace very fine grained quartz, minor medium grey argillaceous matrix. *Common very fine grained Calcium Carbonate mud additive.
780	810	100	**CALCILUTITE:** as above.
810	840	100	**CALCILUTITE:** medium grey, soft to predominantly moderately firm, amorphous to sub blocky, dispersive, trace disseminated pyrite, trace Forams, trace crystalline calcite, minor medium grey argillaceous matrix.
840	870	100	**CALCILUTITE:** as above.
870	900	100	**CALCILUTITE:** as above.
900	930	100	**CALCILUTITE:** medium grey to brownish grey, soft to predominantly moderately firm, amorphous to sub blocky, dispersive, trace Forams, trace crystalline calcite, minor medium grey argillaceous matrix.
930	960	100	**CALCILUTITE:** as above.
960	990	100	**CALCILUTITE:** generally as above, medium grey to brownish grey, soft to predominantly moderately firm, amorphous to sub blocky, dispersive, trace Forams, trace fossil fragments, trace crystalline calcite, common medium grey argillaceous matrix, grading to Argillaceous Calcilutite.
990	1020	100	**CALCILUTITE:** medium grey to brownish grey, soft to predominantly moderately firm, amorphous to sub blocky, blocky in part, dispersive, trace Forams, trace fossil fragments, trace crystalline calcite, trace localised glauconite, minor medium grey argillaceous matrix.
1020	1050	100	**CALCILUTITE:** as above.
1050	1080		**CALCILUTITE:** very light grey to light grey, very soft to soft, amorphous, dispersive, sticky, trace crystalline calcite.
1080	1110	100	**CALCILUTITE:** as above.
1110	1140	100	**CALCILUTITE:** as above.
1140	1170	100	**CALCILUTITE:** very light grey to light grey, becoming light grey to medium light grey, very soft to soft, amorphous, dispersive, sticky, trace crystalline calcite, trace nodular pyrite.
1170	1200	100	**CALCILUTITE:** as above.
1200	1210	100	**CALCILUTITE:** as above.
1210	1220	100	**CALCILUTITE:** as above.
1220	1230	100	**CALCILUTITE:** as above.
1230	1240	100	**CALCILUTITE:** very light grey to light grey, becoming light grey to medium light grey, very soft to soft, minor moderately firm, amorphous, dispersive, sticky, trace crystalline calcite, trace nodular pyrite.
1240	1250	100	**CALCILUTITE:** very light grey to light grey, becoming light grey to medium brownish grey, very soft to soft, minor moderately firm, amorphous, dispersive, sticky, trace crystalline calcite, trace nodular pyrite.
1250	1260	100	**CALCILUTITE:** very light grey to light grey, becoming light grey to medium brownish grey, soft to moderately firm, amorphous, sticky, trace crystalline calcite, trace nodular pyrite, trace dark green glauconite nodules.
1260	1270	100	**CALCILUTITE:** as above
1270	1280		No sample

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1280	1290		No sample.
1290	1300	80	**SANDSTONE:** loose, white to very light grey, clear to translucent grains, trace milky, very fine to medium, dominantly fine, moderately sorted, subangular to rounded, quartz with minor feldspar and lithics, rare aggregates cemented with hard black to silvery mineral (hematite?), hard, minor (1%) very coarse to granule frosted quartz, subrounded to rounded. Trace microcrystalline pyrite nodules.
		10	**SILTSTONE:** dark brown grey, firm to moderately hard, argillaceous, slightly carbonaceous.
		10	**CALCILUTITE:** very light grey to light grey, becoming light grey to medium brownish grey, soft to moderately firm, amorphous, sticky, trace crystalline calcite, trace nodular pyrite, trace dark green glauconite nodules.
1300	1310	90	**SANDSTONE:** loose, white to very light grey, clear to translucent grains, trace milky, coarse to granular (up to 3.5mm), dominantly very coarse to granular, moderately well sorted, subangular to subrounded quartz, with minor (5%) fine to medium subrounded to rounded clear quartz with minor feldspar and lithics, rare aggregates cemented with hard black to silvery mineral (hematite?), hard, minor (1%) very coarse to granule frosted quartz, subrounded to rounded. Trace microcrystalline pyrite nodules.
		10	**SILTSTONE:** dark brown grey, firm to moderately hard, argillaceous, slightly carbonaceous to coaly. Trace pyrite clusters.
1310	1320		No sample.
1320	1330	95	**SANDSTONE:** loose granular quartz as above. Trace medium grey hard lithic grains.
		5	**SILTSTONE:** as above.
1330	1340	95	**SANDSTONE:** loose medium to granular quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		5	**SILTSTONE:** as above.
1340	1350	85	**SANDSTONE:** loose medium to granular quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		5	**SILTSTONE:** as above.
		5	**COAL:** black, firm, grading to carbonaceous siltstone.
		5	**CLAYSTONE:** white, very soft, amorphous, dispersive, non-calcareous.
1350	1360	80	**COAL:** black, firm to moderately hard, blocky to splintery, bright
		10	**SANDSTONE:** loose medium to granule as above.
		10	**SILTSTONE:** as above.
1360	1370	90	**SANDSTONE:** loose medium to granular quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		5	**SILTSTONE:** as above.
		5	**COAL:** black, firm, grading to carbonaceous siltstone.
1370	1380	60	**COAL:** black, firm, grading to carbonaceous siltstone.
		30	**SILTSTONE:** light to medium grey to brownish grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		10	**SANDSTONE:** loose fine to very coarse, minor granules, dominantly medium, as above, trace pyrite clusters.
1380	1390	70	**SANDSTONE:** : loose, white to very light grey, clear to translucent grains, trace milky, fine to very coarse, dominantly medium, poorly sorted, subangular to rounded, quartz with minor feldspar and lithics, minor clear to frosted to smokey quartz granules.
		30	**COAL:** as above.
		10	**SILTSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1390	1400	80	**COAL:** black, firm, flakey, bright, grading in parts to carbonaceous siltstone.
		15	**SILTSTONE:** light to medium grey to brownish grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		5	**SANDSTONE:** loose fine to very coarse, minor granules, dominantly medium, as above, trace pyrite clusters.
1400	1410	50	**SILTSTONE:** light to medium grey to brownish grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		30	**COAL:** black, firm, grading to carbonaceous siltstone.
		20	**SANDSTONE:** loose fine to very coarse, minor granules, dominantly medium, as above, trace pyrite clusters.
1410	1420	60	**SANDSTONE:** loose medium to granular quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		40	**SILTSTONE:** as above, becoming highly argillaceous.
1420	1430	50	**SANDSTONE:** loose fine to granular quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		40	**SILTSTONE:** as above.
		10	**COAL:** as above.
1430	1440	60	**SANDSTONE:** loose fine to coarse quartz as above, poorly sorted. Trace medium grey hard lithic grains.
		40	**SILTSTONE:** as above.
1440	1450	80	**SILTSTONE:** medium grey to brown grey, soft to fitm, subblocky, argillaceous, carbonaceous in parts.
		10	**SANDSTONE:** loose fine sand as above.
		10	**CLAYSTONE:** white to pale grey, soft, amorphous.
1450	1460	60	**SANDSTONE:** loose, white to very light grey, clear to translucent grains, trace milky, fine to medium, minor coarse to very coarse, moderately well sorted, subangular to subrounded quartz, with minor feldspar and lithics.
		30	**SILTSTONE:** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		10	**CLAYSTONE:** white to pale grey, soft, amorphous.
1460	1470	70	**SILTSTONE:** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		30	**SANDSTONE:** loose fine to granule sand as above.
1470	1480	70	**SILTSTONE:** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		20	**SANDSTONE:** loose fine to granule sand as above.
		10	**CLAYSTONE:** as above.
1480	1490	70	**CLAYSTONE:** light grey to yellowish grey, very soft, amorphous, sticky.
		20	**SILTSTONE:** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		10	**SANDSTONE:** loose very fine to fine sand
		tr	**COAL:** black, firm.
1490	1500	60	**CLAYSTONE:** light grey to yellowish grey, very soft, amorphous, sticky.
		20	**SILTSTONE:** medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		20	**SANDSTONE:** loose, white to very light grey, very fine to medium, moderately sorted, subangular to subrounded quartz
		tr	**COAL:** black, firm.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1500	1510	70	**SANDSTONE:** quartzose, white to very light grey, clear to translucent grains, trace milky, returned loose, very fine to very coarse grained, predominantly fine to medium, common coarse to very coarse, predominantly sub angular to rounded, minor aqngular to sub angular, moderate to high sphericity, poorly sorted, trace siliceous cement, trace pyrite frosting on coarser grains, fair to good inferred porosity. No shows.
		20	**SILTSTONE:** medium grey to brownish grey, soft to firm, subblocky, argillaceous, carbonaceous in parts.
		10	**CLAYSTONE:** light grey to yellowish grey, very soft, amorphous, sticky.
1510	1517	100	Spot. **SANDSTONE:** quartzose, white to very light grey, clear to translucent grains, trace milky, returned loose, coarse to granule, predominantly very coarse, sub angular to rounded, trace angular to sub angular, moderate to high sphericity, well sorted, good inferred porosity. No shows.
1517	1520	80	**SANDSTONE:** quartzose, white to very light grey, clear to translucent grains, trace milky, returned loose, very fine to granule, predominantly fine to medium, common coarse to very coarse, trace granule, predominantly sub angular to rounded, minor angular to sub angular, moderate to high sphericity, low sphericity to elongate in very coarse to granule fraction, very poorly sorted, trace siliceous cement, trace pyrite frosting on coarser grains, fair to good inferred porosity. No shows.
		20	**CLAYSTONE:** medium grey to brownish grey, soft to firm, amorphous to sub blocky, common quartz silt, trace carbonaceous fragments, grading to Silty Claystone, non calcareous. *Sample contains abundant bit generated rock flour.
1520	1530	85	**SANDSTONE:** as above.
		10	**CLAYSTONE:** as above
		5	**COAL:** black to brownish black, firm, earthy to sub vitreous lustre, brittle. *Sample contains abundant bit generated rock flour, it appears the coal is interbedded with the Sandstone.
1530	1540	40	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae.
		55	**CLAYSTONE:** medium grey to medium dark grey, moderately firm, amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments, non calcareous.
		5	**COAL:** as above
1540	1550	80	**SANDSTONE:** quartzose, white to very light grey, clear to translucent grains, returned loose, very fine to medium grained, predominantly fine to medium, trace coarser grains from above, sub angular to sub rounded, moderately well sorted quartz, fair inferred porosity. No shows.
		10	**CLAYSTONE:** as above, with trace finely interlaminated siltstone.
		10	**SILTSTONE:** as above.
1550	1560	70	**SANDSTONE:** as above.
		20	**CLAYSTONE:** as above
		10	**SILTSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1560	1570	80	**SANDSTONE:** quartzose, white to very light grey, trace moderate orange pink, returned loose, medium to granule, predominantly medium to coarse, minor coarse, trace granule, angular to sub angular, minor sub rounded, low to moderate sphericity, moderately sorted, trace intergranular pyrite cement, trace pyrite grain frosting, good inferred porosity. No shows.
		10	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		10	**CLAYSTONE:** medium grey to medium dark grey, moderately firm, amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments, non calcareous.
		Tr	**COAL:** black to brownish black, firm, blocky to sub blocky, earthy to sub vitreous lustre, brittle.
1570	1580	70	**SILTSTONE:** as above.
		20	**CLAYSTONE:** as above.
		10	**SANDSTONE:** as above.
1580	1590	60	**SILTSTONE:** as above.
		20	**CLAYSTONE:** as above.
		20	**SANDSTONE:** as above.
1590	1600	50	**COAL:** black, soft to firm, flakey.
		30	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above.
		10	**CLAYSTONE:** as above.
1600	1605	60	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		20	**SANDSTONE:** quartzose, white to very light grey, loose, very fine to granule, predominantly fine to medium, poorly sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, trace intergranular pyrite cement, trace pyrite grain frosting, moderate inferred porosity. No shows.
		10	**COAL:** as above.
		10	**CLAYSTONE:** as above.
1605	1610	60	**SANDSTONE:** quartzose, white to very light grey, loose to soft, very fine to very coarse, predominantly fine to medium, poorly sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft aggregates with white argillaceous matrix, trace intergranular pyrite cement, trace pyrite grain frosting, moderate inferred porosity. No shows.
		35	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor to common carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		5	**COAL:** as above.
1610	1615	80	**SANDSTONE:** quartzose, white to very light grey, dominantly loose, trace soft, medium to very coarse, predominantly coarse, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, trace soft aggregates with white argillaceous matrix, trace intergranular pyrite cement, trace pyrite grain frosting, good inferred porosity. No shows.
		20	**SILTSTONE:** as above.
		tr	**COAL:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1615	1620	85	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor to common carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		10	**SANDSTONE:** loose fine to medium quartz sand.
		5	**COAL:** as above.
1620	1625	90	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor to common carbonaceous fragments and laminae, grading to argillaceous Siltstone and silty Claystone.
		10	**SANDSTONE:** loose fine to medium quartz sand.
1625	1630	90	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor to common carbonaceous fragments and laminae, grading to argillaceous Siltstone and silty Claystone.
		5	**SANDSTONE:** loose fine to medium quartz sand.
		5	**COAL:** as above.
1630	1635	70	**SILTSTONE:** as above.
		30	**SANDSTONE:** loose fine to very coarse quartz sand as above, dominantly coarse.
1635	1640	90	**SILTSTONE:** as above.
		10	**SANDSTONE:** loose fine quartz sand as above, trace soft aggregates.
		tr	**COAL:** as above.
1640	1645	50	**SILTSTONE:** as above.
		50	**SANDSTONE:** loose fine to very coarse quartz sand as above, minor granules, trace soft aggregates, trace pyrite cement. Moderate inferred porosity, no shows.
1645	1650	90	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone and silty Claystone.
		10	**SANDSTONE:** loose fine to coarse quartz sand.
1650	1655	90	**SILTSTONE:** as above.
		10	**SANDSTONE:** loose fine to very coarse quartz sand as above.
1655	1660	80	**SILTSTONE:** as above.
		20	**SANDSTONE:** loose fine to very coarse quartz sand as above.
1660	1665	70	**SANDSTONE:** inferred from light grey to light brownish grey soft amorphous non-calcareous slightly sandy rock flour, interpreted to represent crushed sandstone. Minor loose fine to very coarse quartz sand. Poor inferred porosity, no shows.
		30	**SILTSTONE:** as above.
1665	1670	70	**SANDSTONE:** inferred from light grey to light brownish grey soft amorphous non-calcareous slightly sandy slightly carbonaceous rock flour, interpreted to represent crushed sandstone. Common (25%) loose sand, fine to very coarse, dominantly fine to medium, moderately sorted, subrounded quartz and trace feldspar. Poor inferred porosity, no shows.
		30	**SILTSTONE:** as above.
1670	1675	90	**SANDSTONE:** white to very light grey, loose to soft, fine to granule, predominantly medium to coarse, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white argillaceous matrix, minor rock flour, moderate inferred porosity. No shows.
		10	**SILTSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1675	1680	90	**SANDSTONE:** white to very light grey, loose to soft, fine to granule, dominantly medium to coarse, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred porosity. No shows.
		10	**SILTSTONE:** as above.
1680	1685	80	**SANDSTONE:** as above.
		20	**SILTSTONE:** as above.
1685	1690	70	**SANDSTONE:** as above.
		30	**SILTSTONE:** as above.
1690	1695	90	**SANDSTONE:** as above, dominantly medium to coarse. Common hard pale to dark grey lithic fragments.
		10	**SILTSTONE:** as above.
1695	1700	80	**VOLCANICS:** off white, very light yellowish brown / light greenish white, weathered to claystone, trace weathered feldspar and weathered green pyroxene, pyritic in part, trace chlorite, vague remnant crystalline structure in part.
		10	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		10	**SANDSTONE:** white to very light grey, loose to soft, fine to granule, dominantly medium to coarse, poorly sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred porosity. No shows.
1700	1705	70	**VOLCANICS:** as above.
		20	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above.
1705	1710	50	**VOLCANICS:** as above.
		40	**SANDSTONE:** as above.
		10	**SILTSTONE:** as above.
1710	1715		No sample.
1715	1720	100	**SANDSTONE:** white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, minor soft aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred porosity. No shows.
		tr	**VOLCANICS:** white to orange clay, soft to firm, irregular masses, coarse to very coarse grain size, trace relict hornblende crystal form.
1720	1725	90	**SANDSTONE:** white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows.
		10	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.
		tr	**VOLCANICS:** white to orange clay, soft to firm, irregular masses, coarse to very coarse grain size, trace relict hornblende crystal form.
1725	1730	70	**SANDSTONE:** as above.
		30	**SILTSTONE:** as above.
		tr	**VOLCANICS:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1730	1735	60 40 tr	**SANDSTONE:** as above. **SILTSTONE:** as above. **VOLCANICS:** as above.
1735	1740		No sample.
1740	1745	60 40 tr	**SANDSTONE:** as above. **SILTSTONE:** as above. **VOLCANICS:** as above.
1745	1750	80 20 tr	**SANDSTONE:** as above. **SILTSTONE:** as above. **VOLCANICS:** as above.
1750	1755	70 30 tr	**SANDSTONE:** as above. **SILTSTONE:** as above. **VOLCANICS:** as above.
1755	1760	60 20 20	**SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone. **CLAYSTONE:** white to pale grey, soft, amorphous, silty in parts. **SANDSTONE:** white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows.
1760	1765	50 40 10	**SILTSTONE:** as above. **CLAYSTONE:** as above. **SANDSTONE:** as above.
1765	1770	95 5 tr tr	**CLAYSTONE:** dark grey to olive black, soft, amorphous to subblocky, sticky, slightly silty. **SILTSTONE:** as above. **SANDSTONE:** as above. **VOLCANICS:** weathered white tuff with trace green crystals.
1770	1775	95 5 tr tr	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above. **VOLCANICS:** weathered white tuff with trace green crystals.
1775	1780	95 5 tr tr	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above. **VOLCANICS:** weathered white tuff with trace green crystals.
1780	1785	95 5 tr tr	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above. **VOLCANICS:** weathered white tuff with trace green crystals.
1785	1790	95 5 tr	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above.
1790	1795	95 5 tr tr	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above. **VOLCANICS:** weathered white to pale orange tuff with trace green crystals.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1795	1800	90 10	CLAYSTONE: as above (poor sample). SANDSTONE: light grey translucent loose very fine to fine, minor medium, well sorted, subrounded quartz.
1800	1805	95 5 tr tr	**CLAYSTONE:** dark grey to olive black, soft, amorphous to subblocky, sticky, slightly silty. **SILTSTONE:** medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.. **SANDSTONE:** as above. **VOLCANICS:** weathered yellow brown to greenish brown tuff with trace green crystals.
1805	1810	95 5	**CLAYSTONE:** as above. **SILTSTONE:** as above.
1810	1815	100	**CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace to rare carbonaceous fragments, non calcareous.
1815	1820	100	**CLAYSTONE:** as above, trace very finely disseminated pyrite
1820	1825	100	**CLAYSTONE:** as above.
1825	1830	100	**CLAYSTONE:** as above.
1830	1835	100	**CLAYSTONE:** generally as above, trace nodular pyrite.
1835	1840	100	**CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, non calcareous.
1840	1845	100	**CLAYSTONE:** as above.
1845	1850	100	**CLAYSTONE:** as above.
1850	1855	100	**CLAYSTONE:** as above.
1855	1860	80 20	**CLAYSTONE:** as above. **SANDSTONE:** quartzose, light grey to medium light grey, friable, very fine to fine grained, sub angular to sub rounded, minor rounded, high sphericity, well sorted, weak siliceous cement, trace black lithic grains, poor visible porosity. No Shows
1860	1865	-	Sample missed due to high ROP
1865	1870	100 Tr	**SANDSTONE:** quartzose, light grey to medium light grey, friable, very fine to medium, sub angular to sub rounded, minor rounded, moderate to high sphericity, well sorted, weak siliceous cement, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace weathered feldspar grains, trace coaly fragments, poor visible porosity. No Shows **CLAYSTONE:** as above.
1870	1875	-	Sample missed due to high ROP
1875	1880	100	**SANDSTONE:** generally as above, trace carbonaceous/coaly laminae.
1880	1885	100	**SANDSTONE:** as above.
1885	1890	-	Sample missed due to high ROP
1890	1895	90 10	**SANDSTONE:** generally as above, trace carbonaceous/coaly laminae. **CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, non calcareous.
1895	1900	95 5	**SANDSTONE:** generally as above, trace carbonaceous/coaly laminae. **CLAYSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1900	1905	95 5	**SANDSTONE:** quartzose, light grey to medium light grey, friable to firm aggregates, very fine to medium grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, well sorted, weak siliceous cement, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace weathered feldspar grains, trace coaly fragments, poor visible porosity. No Shows **CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace carbonaceous fragments, non calcareous.
1905	1910	95 5	**SANDSTONE:** generally as above, trace carbonaceous/coaly laminae. **CLAYSTONE:** as above.
1910	1915	70 25 5	**SANDSTONE:** generally as above, trace carbonaceous/coaly laminae. **CLAYSTONE:** as above. **COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt, interbedded in Sandstone.
1915	1920	90 10	**CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace to rare carbonaceous fragments, non calcareous. **SANDSTONE:** as above.
1920	1925	90 10	**CLAYSTONE:** as above. **SANDSTONE:** as above.
1925	1930	90 10	**CLAYSTONE:** as above. **SANDSTONE:** as above.
1930	1935	70 30	**CLAYSTONE:** as above. **SANDSTONE:** as above.
1935	1940	95 5	**CLAYSTONE:** dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, non calcareous. **SANDSTONE:** quartzose, light grey to medium light grey, predominantly returned loose, trace friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows
1940	1945	100	**CLAYSTONE:** as above.
1945	1950	100	**CLAYSTONE:** as above.
1950	1955	100	**CLAYSTONE:** as above.
1955	1960	100	**CLAYSTONE:** as above.
1960	1965	100	**CLAYSTONE:** as above.
1965	1970	90 5 5	**CLAYSTONE:** generally as above, dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, common carbonaceous material in parts, non calcareous. **SANDSTONE:** generally as above, quartzose, light grey to medium light grey, predominantly returned loose, trace friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows **COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt, interbedded in Sandstone.
1970	1975	95 5 Tr	**CLAYSTONE:** as above. **SANDSTONE:** as above. **COAL:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
1975	1980	95	**CLAYSTONE:** generally as above, dark grey to olive black, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, common carbonaceous material in parts, non calcareous.
		5	**SANDSTONE:** generally as above, quartzose, light grey to medium light grey, predominantly returned loose, trace friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows
		Tr	**COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt, interbedded in Sandstone.
1980	1985	95	**CLAYSTONE:** as above.
		5	**SANDSTONE:** as above.
		Tr	**COAL:** as above.
1985	1990	95	**CLAYSTONE:** as above.
		5	**SANDSTONE:** as above.
		Tr	**COAL:** as above.
1990	1995	95	**CLAYSTONE:** as above.
		5	**SANDSTONE:** as above.
		Tr	**COAL:** as above.
1995	2000	95	**CLAYSTONE:** as above.
		5	**SANDSTONE:** as above.
		Tr	**COAL:** as above.
2000	2005	60	**CLAYSTONE:** medium dark grey to dark grey, olive black in part, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, common carbonaceous material in parts, non calcareous.
		40	**COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, commonly earthy, common silt
2005	2010	80	**CLAYSTONE:** dark grey to olive black, soft to moderately firm, minor firm, amorphous to subblocky, trace to common quartz silt, trace carbonaceous fragments, common carbonaceous material in parts, non calcareous.
		15	**SANDSTONE:** light grey to medium light grey, loose, with common friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows
		5	**COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt.
2010	2015	90	**CLAYSTONE:** as above.
		10	**SANDSTONE:** as above.
		tr	**COAL:** as above.
2015	2020	80	**SILTY CLAYSTONE:** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, trace to common carbonaceous fragments, non calcareous.
		20	**SANDSTONE:** as above.
		tr	**COAL:** as above.
		tr	**SILTSTONE:** pale to medium yellow brown, firm, blocky, argillaceous.
2020	2025	90	**SILTY CLAYSTONE:** as above.
		10	**SANDSTONE:** as above.
		tr	**COAL:** as above.
		tr	**SILTSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2025	2030	85 15 tr tr	**SILTY CLAYSTONE:** as above. **SANDSTONE:** as above. **COAL:** as above. **SILTSTONE:** as above.
			POOH to change out PowerDrive at 2031m
2031	2035	90 10 tr	**SILTY CLAYSTONE:** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. **SANDSTONE:** light grey to medium light grey, loose, medium to very coarse, dominantly coarse, moderately sorted, subrounded quartz, with minor friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, moderate to high sphericity, well sorted, rare light grey to light brownish grey argillaceous matrix, trace coaly fragments, poor visible porosity. No Shows. **COAL:** brownish black to black, firm, brittle.
2035	2040	90 10 tr	**SILTY CLAYSTONE:** as above. **SANDSTONE:** as above. **COAL:** as above.
2040	2045	95 5	**SILTY CLAYSTONE:** as above. **SANDSTONE:** as above.
2045	2050	95 5 tr	**CLAYSTONE:** medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, silty, grading in parts to silty claystone, trace to common carbonaceous fragments, non calcareous. **SANDSTONE:** as above. **COAL:** as above.
2050	2055	95 5 tr	**CLAYSTONE:** medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, silty, grading in parts to silty claystone, trace to common carbonaceous fragments, non calcareous. **SANDSTONE:** as above. **COAL:** as above.
2055	2060		Missed sample.
2060	2065	95 5 tr	**SILTY CLAYSTONE:** medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. In parts soft claystone. **SANDSTONE:** as above. **COAL:** as above.
2065	2070	90 10 tr	**SILTY CLAYSTONE:** as above. **SANDSTONE:** light grey to medium yellow grey, friable to firm, very fine to fine, well sorted, sub angular to sub rounded, quartz in soft white to light brownish grey argillaceous matrix, slightly calcareous in parts, trace coaly fragments, poor visible porosity. No shows **COAL:** as above.
2070	2075		Missed sample.
2075	2080	85 15 tr	**SILTY CLAYSTONE and CLAYSTONE:** as above. **SANDSTONE:** light grey to medium yellow grey, friable to soft, very fine to fine, well sorted, sub angular to sub rounded, quartz in soft white to light brownish grey argillaceous matrix, slightly calcareous in parts, trace coaly fragments, poor visible porosity. No shows. **COAL:** as above.
2080	2085		Missed sample.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2085	2090	85 15 tr	**SILTY CLAYSTONE and CLAYSTONE:** as above. Increasing fraction of pale brownish grey claystone. **SANDSTONE:** as above. Trace pyrite cemented sand clusters. **COAL:** as above.
2090	2095		Missed sample.
2095	2100	50 50	**SANDSTONE:** light grey to medium yellow grey, friable to soft, very fine to fine, minor medium, well sorted, sub angular to sub rounded, minor rounded quartz, trace lithics, in abundant soft white to light brownish grey argillaceous matrix, slightly calcareous in parts, trace coaly fragments, poor visible porosity. No shows. **SILTY CLAYSTONE and CLAYSTONE:** as above.
2100	2105		Missed sample.
2105	2110	60 40	**SILTY CLAYSTONE and CLAYSTONE:** as above. **SANDSTONE:** as above.
2110	2115		Missed sample.
2115	2120	70 30	**SILTY CLAYSTONE and CLAYSTONE:** as above. **SANDSTONE:** as above.
2120	2125		Missed sample.
2125	2130	60 40	**SILTY CLAYSTONE and CLAYSTONE:** as above. **SANDSTONE:** as above.
2130	2135	80 20	**SILTY CLAYSTONE and CLAYSTONE:** as above. **SANDSTONE:** as above.
2135	2140	60 30 10	**CLAYSTONE:** pale to medium brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SILTY CLAYSTONE:** as above. **SANDSTONE:** as above.
2140	2145		Missed sample.
2145	2150	60 30 10	**CLAYSTONE:** pale to medium brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SILTY CLAYSTONE:** as above. **SANDSTONE:** as above.
2150	2155		Missed sample.
2155	2160	60 30 10	**SILTY CLAYSTONE:** as above. **CLAYSTONE:** pale to medium brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE:** as above.
2160	2165		Missed sample.
2165	2170	75 20 5	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to siltstone. **CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE:** as above.
2170	2175	70 25 5	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to siltstone. **CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE:** as above. Trace loose very coarse quartz, trace pyrite cluster.
2175	2180	75 20 5	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to siltstone. **CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material. **SANDSTONE:** as above. Trace loose coarse to very coarse quartz.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2180	2185	80	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to siltstone.
		20	**CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material.
		tr	**SANDSTONE:** as above. Trace loose coarse to very coarse quartz.
2185	2190	90	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to pale to medium grey siltstone.
		10	**CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material.
		tr	**SANDSTONE:** as above. Trace loose coarse to very coarse quartz.
2190	2195	80	**SILTY CLAYSTONE:** medium to dark grey, firm to moderately hard, trace carbonaceous material, in parts grading to pale to medium grey siltstone.
		10	**CLAYSTONE:** pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material.
		10	**SANDSTONE:** white to light grey, soft, very fine to fine well sorted subrounded quartz, abundant soft white silty argillaceous matrix, trace lithic grains, trace carbonaceous fragments, poor visible porosity. No show. Trace loose coarse quartz, trace pyrite clusters.
2195	2200	80	**SILTY CLAYSTONE:** as above, in parts grading to medium grey siltstone.
		10	**CLAYSTONE:** as above.
		10	**SANDSTONE:** as above..
2200	2205		Missed sample.
2205	2210	60	**SILTY CLAYSTONE:** as above, in parts grading to medium grey siltstone.
		20	**CLAYSTONE:** as above.
		20	**SANDSTONE:** as above, becoming moderately firm.
2210	2215	60	**SILTY CLAYSTONE:** as above, in parts grading to medium grey siltstone.
		30	**SANDSTONE:** as above, becoming moderately firm to firm.
		10	**CLAYSTONE:** as above.
2215	2220	60	**SANDSTONE:** white to light grey, soft to firm, sucrosic, very fine to fine well sorted subrounded quartz, abundant soft to firm white silty argillaceous matrix, trace lithic grains, trace carbonaceous fragments, poor visible porosity. No show. Trace loose subangular to subrounded fine to very coarse quartz, trace pyrite clusters.
		40	**SILTSTONE:** medium to dark grey, firm to moderately hard, sub-blocky, argillaceous, trace carbonaceous material, in parts grading to silty claystone.
2220	2225	90	**SANDSTONE:** quartzose, white to light grey, clear to translucent grains, friable aggregates, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithis grains, poor visual porosity. No shows.
		10	**SILTY CLAYSTONE:** medium to medium dark grey, firm to moderately hard, sub-blocky, minor silt, trace carbonaceous material, grading to claystone.
2225	2230	70	**SANDSTONE:** as above.
		30	**CLAYSTONE:** medium to medium dark grey, firm to moderately hard, sub-blocky, minor silt, trace carbonaceous material, non calcareous.
2230	2235	60	**SANDSTONE:** as above.
		40	**CLAYSTONE:** as above
2235	2240	80	**SANDSTONE:** as above.
		20	**CLAYSTONE:** as above
2240	2245	95	**SANDSTONE:** as above.
		5	**CLAYSTONE:** as above

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2245	2250	70 30	**SANDSTONE:** quartzose, white to light grey, clear to translucent grains, friable aggregates, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, poor visual porosity. No shows. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky, minor silt, trace carbonaceous material, non calcareous.
2250	2255	70 30	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2255	2260	70 30	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2260	2265	40 60	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2265	2270	10 90	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2270	2275	10 90	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2275	2280	40 60	**SANDSTONE:** generally as above, quartzose, white to light grey, clear to translucent grains, friable aggregates, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, poor visual porosity. No shows. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material, non calcareous.
2280	2285	10 90	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2285	2290	30 70	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2290	2295	10 90	**SANDSTONE:** as above. **CLAYSTONE:** as above.
2295	2300	100	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material, non calcareous.
2300	2305	100	**CLAYSTONE:** as above.
2305	2310	100	**CLAYSTONE:** as above.
2310	2315	100	**CLAYSTONE:** as above.
2315	2320	95 5	**CLAYSTONE:** as above. **SANDSTONE:** generally as above, quartzose, white to light grey, clear to translucent grains, trace friable aggregates, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments and laminae, poor visual porosity. No shows.
2320	2325	90 10	**CLAYSTONE:** as above. **SANDSTONE:** as above.
2325	2330	80 20	**CLAYSTONE:** as above. **SANDSTONE:** as above.
2330	2335	80 20	**CLAYSTONE:** as above. **SANDSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2335	2340	60 40	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous material, non calcareous. **SANDSTONE:** generally as above, quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, common bit generated textures, very fine to fine grained, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments and laminae, poor visual porosity. No shows.
2340	2345	60 40	**CLAYSTONE:** as above. **SANDSTONE:** as above.
2345	2350	70 30 Tr	**SANDSTONE:** as above. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous materialand coaly fragments, non calcareous. **COAL:** brownish black to black, firm, brittle, sub vitreous to vitreous lustre, trace silt.
2350	2355	70 30 Tr	**SANDSTONE:** as above. **CLAYSTONE:** as above. **COAL:** as above.
2355	2360	50 50 Tr	**SANDSTONE:** as above. **CLAYSTONE:** as above. **COAL:** as above.
2360	2365	60 40 Tr	**SANDSTONE:** as above. **CLAYSTONE:** as above. **COAL:** as above.
2365	2370	70 30	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above, up to medium in parts.
2370	2375	80 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above.
2375	2380	80 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above.
2380	2385	80 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above.
2385	2390	80 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above.
2390	2395	80 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above.
2395	2400	60 20 20	**CLAYSTONE:** as above, trace yellowish brown and light greenish grey in parts. **SANDSTONE:** as above. Trace loose very coarse quartz. **SILTSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, argillaceous, trace carbonaceous material and coaly fragments, non calcareous.
2400	2405	60 20 20	**CLAYSTONE:** as above, minor yellowish brown and light greenish grey in parts. **SANDSTONE:** as above. **SILTSTONE:** as above.
2405	2410	70 20 10	**CLAYSTONE:** as above, minor yellowish brown and light greenish grey in parts. **SANDSTONE:** as above. **SILTSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2410	2415	80	**CLAYSTONE:** medium dark grey to dark grey, minor yellowish brown and light greenish grey in parts firm to moderately hard, sub-blocky to blocky, minor silt, trace carbonaceous materialand coaly fragments, non calcareous.
		10	**SANDSTONE:** quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, common bit generated textures, very fine to fine grained, grading to Siltstone, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments, poor visual porosity. No shows.
		10	**SILTSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, argillaceous, trace carbonaceous material and coaly fragments, non calcareous.
2415	2420	50	**SANDSTONE:** generally as above, trace medium grains.
		40	**CLAYSTONE:** as above.
		10	**SILTSTONE:** as above.
2420	2425	70	**CLAYSTONE:** as above.
		20	**SANDSTONE:** as above.
		10	**SILTSTONE:** as above.
2425	2430	60	**CLAYSTONE:** as above.
		30	**SANDSTONE:** as above.
		10	**SILTSTONE:** as above.
2430	2435	60	**CLAYSTONE:** as above.
		30	**SANDSTONE:** as above.
		10	**SILTSTONE:** as above.
2435	2440	50	**SANDSTONE:** quartzose, white to light grey, clear to translucent grains, trace to common friable aggregates, very fine to fine, minor medium, sub rounded to rounded, trace sub angular to angular, moderate to high sphericity, well sorted, rare siliceous cement, minor white to light grey argillaceous matrix, trace weathered feldspar grains, trace black lithic grains, trace coaly fragments, poor visual porosity. No shows.
		40	**CLAYSTONE:** as above.
		10	**SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone.
2440	2445	50	**SANDSTONE:** as above.
		40	**CLAYSTONE:** as above.
		10	**SILTSTONE:** as above.
2445	2450	60	**CLAYSTONE:** as above.
		20	**SANDSTONE:** as above.
		20	**SILTSTONE:** as above.
2450	2455	70	**CLAYSTONE:** as above.
		20	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above.
2455	2460	70	**CLAYSTONE:** as above, medium brown grey, soft in parts.
		20	**SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone.
		10	**SANDSTONE:** as above.
2460	2465	60	**CLAYSTONE:** as above, medium brown grey, soft in parts.
		30	**SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone.
		10	**SANDSTONE:** as above.
2465	2470		Missed sample.
2470	2475	70	**CLAYSTONE:** as above, medium brown grey, soft in parts.
		20	**SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone.
		10	**SANDSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2475	2480	70 20 10	**CLAYSTONE:** as above, medium brown grey, soft in parts. **SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone. **SANDSTONE:** as above.
2480	2485	60 20 20	**CLAYSTONE:** as above, medium brown grey, soft in parts. **SILTSTONE:** as above. Trace hard medium brown carbonaceous siltstone. **SANDSTONE:** as above.
2485	2490	70 20 10	**CLAYSTONE:** as above, medium brown grey, soft in parts. **SILTSTONE:** as above. **SANDSTONE:** as above.
2490	2495	80 10 10	**CLAYSTONE:** as above, medium brown grey, soft in parts. **SILTSTONE:** as above. **SANDSTONE:** as above.
2495	2500	60 30 10	**SANDSTONE:** quartzose, white to greenish white to light grey, clear to translucent grains, friable aggregates with minor loose grains, very fine to medium grained, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace pinkish orange to white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows. **SILTSTONE:** medium to dark grey, firm to hard, blocky to flakey, argillaceous. Trace hard brown carbonaceous siltstone. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous.
2500	2505	80 10 10	**SANDSTONE:** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace pinkish orange to white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows. **SILTSTONE:** medium to dark grey, firm to hard, blocky to flakey, argillaceous. Trace hard brown carbonaceous siltstone. **CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous.
2505	2510	70 20 10	**SANDSTONE:** as above, predominantly loose. **SILTSTONE:** as above. **CLAYSTONE:** as above.
2510	2515	70 20 10	**SANDSTONE:** as above, subequal loose and aggregates. **SILTSTONE:** as above. **CLAYSTONE:** as above.
2515	2520	60 30 10	**SANDSTONE:** as above, subequal loose and aggregates. **SILTSTONE:** as above. **CLAYSTONE:** as above.
2520	2525	80 10 10	**SANDSTONE:** as above, dominantly loose. **SILTSTONE:** as above. **CLAYSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	To	%	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2525	2530	60	**SILTSTONE:** medium to dark grey, firm to hard, blocky to flakey, argillaceous, trace to minor carbonaceous fragments.
		20	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous.
		20	**SANDSTONE:** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows.
2530	2535	50	**SILTSTONE:** as above.
		40	**SANDSTONE:** as above, predominantly loose fine to medium grains.
		10	**CLAYSTONE:** as above.
2535	2540	60	**SILTSTONE:** as above.
		30	**SANDSTONE:** as above, predominantly loose fine to medium grains.
		10	**CLAYSTONE:** as above.
2540	2545	70	**SILTSTONE:** as above.
		20	**CLAYSTONE:** as above.
		10	**SANDSTONE:** as above, predominantly fine grained aggregates.
2545	2550	70	**SILTSTONE:** as above.
		25	**CLAYSTONE:** as above.
		5	**SANDSTONE:** as above, predominantly very fine grained aggregates.
2550	2555	50	**CLAYSTONE:** as above.
		40	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above, predominantly very fine grained aggregates.
2555	2560	50	**CLAYSTONE:** as above. 5% soft to moderately firm pale brownish grey claystone.
		40	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above, predominantly very fine grained aggregates.
2560	2565	70	**CLAYSTONE:** as above. 10% soft to moderately firm pale brownish grey claystone.
		20	**SILTSTONE:** as above.
		10	**SANDSTONE:** as above, predominantly very fine grained aggregates.
2565	2570	60	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous.
		10	**SILTSTONE:** medium to dark grey, firm to hard, blocky to flakey, argillaceous, trace to minor carbonaceous fragments.
		30	**SANDSTONE:** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, predominantly very fine to fine, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows.
2570	2575	70	**CLAYSTONE:** as above.
		10	**SILTSTONE:** as above.
		20	**SANDSTONE:** as above.
2575	2580	40	**CLAYSTONE:** as above.
		10	**SILTSTONE:** as above.
		50	**SANDSTONE:** as above.

Interval (m)		Lithology / Show Description	
From	**To**	**%**	
			Longtom-4 Pilot Hole Spudded 01:20 hrs June 21st 2008.
2580	2585	60 10 30	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, minor silt, non calcareous. **SILTSTONE:** medium to dark grey, firm to hard, blocky to flakey, argillaceous, trace to minor carbonaceous fragments. **SANDSTONE:** quartzose, white to greenish white to light grey, clear to translucent grains, predominantly loose with minor friable aggregates, very fine to medium grained, predominantly very fine to fine, moderately well sorted, sub rounded to rounded, trace sub angular, moderate to high sphericity, rare siliceous cement, minor white to light grey argillaceous matrix, trace white weathered feldspar grains, common black lithic grains, trace coaly fragments, poor visual porosity. No shows.
2585	2590	80 10 10	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above.
2590	2595	80 10 10	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above.
2595	2600	85 10 5	**CLAYSTONE:** as above. **SILTSTONE:** as above. **SANDSTONE:** as above.

Longtom-4 P Lithology / Show Descriptions

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2600	2605	50	**SILTSTONE:** medium to dark grey, firm to hard, blocky to sub blocky, minor argillaceous matrix, trace carbonaceous fragments.	50	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt, non calcareous.				
2605	2610	5	**SILTSTONE:** as above.	95	**CLAYSTONE:** as above.				
2610	2615	40	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, very fine to medium grained, predominantly fine to medium, angular to sub rounded, moderate to high sphericity, moderately well sorted quartz, trace light grey argillaceous matrix, trace weathered feldspar grains, common bit generated rock flour, poor to fair inferred porosity. No shows.	60	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2615	2620	95	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, fine to very coarse grained, predominantly fine to medium, trace coarse and very coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor to fair inferred porosity. No shows.	5	**CLAYSTONE:** as above.	Tr	**COAL:** brownish black to black, firm, brittle, sub vitreous lustre.		
2620	2625	90	**SANDSTONE:** as above.	5	**CLAYSTONE:** as above.	5	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2625	2630	90	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, fine to coarse grained, predominantly fine to medium, trace coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor to fair inferred porosity. No shows.	10	**CLAYSTONE:** as above.	Tr	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2630	2635	40	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, trace friable aggregates, fine to very coarse grained, predominantly fine to medium, trace coarse and very coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor visual and inferred porosity. No shows.	60	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt, non calcareous.				
2635	2640	5	**SANDSTONE:** as above.	95	**CLAYSTONE:** as above.				
2640	2645	100	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt and silty laminae, non calcareous.						
2645	2650	100	**CLAYSTONE:** as above.						
2650	2655	100	**CLAYSTONE:** generally as above, trace carbonaceous fragments and laminae.						
2655	2660	100	**CLAYSTONE:** as above.						
2660	2665	100	**CLAYSTONE:** as above						
2665	2670	100	**CLAYSTONE**: as above						

Interval (m)		Lithology / Show Description						
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2670	2675	100	**CLAYSTONE**: dominantly as above, becoming greyish brown, medium dark grey to dark grey						
2675	2680	5	**SANDSTONE:** medium light grey to light grey, predominantly clear to translucent quartz grains, soft friable aggregates, very fine to fine grained, well sorted, sub angular to sub rounded, moderately spherical, trace to minor light grey argillaceous matrix, non calcareous, minor reddish brown rounded lithic grains, rare greyish black carbonaceous material, poor visual porosity. No shows.	95	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt grains, non calcareous				
2680	2685	70	**SANDSTONE**: as above	30	**CLAYSTONE:** as above				
2685	2690	70	**SANDSTONE**: predominantly as above, minor loose grains, minor carbonaceous material both as laminae and fragments	30	**CLAYSTONE:** as above				
2690	2695	80	**SANDSTONE:** predominantly as above, in part minor to common argillaceous matrix	20	**CLAYSTONE:** as above				
2695	2700	90	**SANDSTONE:** as above	10	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2700	2705	90	**SANDSTONE:** as above	10	**CLAYSTONE:** dominantly as above, rarely sub fissile				
2705	2710	95	**SANDSTONE:** very light grey to light grey, predominantly clear to translucent quartz grains, rare rose quartz, dominantly soft friable aggregates, trace loose grains, minor rock flour, very fine to fine grained, well sorted, sub angular to rounded, moderately to very spherical, dominantly moderately spherical, trace to minor light grey argillaceous matrix, non calcareous, rare reddish brown rounded lithic grains, minor greyish black to black carbonaceous material, rare greenish grey glauconite(?) grains, poor visual and fair inferred porosity. No shows.	5	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2710	2715	100	**SANDSTONE:** very light grey to light grey, predominantly clear to translucent quartz grains, rare rose quartz, rare to trace orange stained quartz grains, dominantly loose grains, trace soft friable aggregates, fine to medium grained, well sorted, sub rounded to rounded, rare well rounded, spherical, light grey argillaceous matrix in part, minor greyish black to black carbonaceous material, rare greenish grey glauconite (?) grains, fair visual and fair to moderately good inferred porosity. No shows.	Tr	**COAL:** black, vitreous, blocky, sub conchoidal fracture, moderately hard to hard				
2715	2720	100	**SANDSTONE:** as above	Tr	**COAL:** as above				
2720	2725	95	**SANDSTONE**: as above	5	**CLAYSTONE:** medium grey, firm, blocky, rare carbonaceous fragments				
2725	2730	95	**SANDSTONE:** predominantly as above, sub angular to well rounded, dominantly sub rounded to rounded	5	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2730	2735	95	**SANDSTONE:** predominantly as above, becoming white to very light grey, minor to common rock flour	5	**CLAYSTONE:** as above				
2735	2740		Not collected - ROP						
2740	2745	100	**SANDSTONE:** white to very light grey, predominantly clear to translucent quartz grains, rare to trace orange stained quartz grains, dominantly loose grains, rare soft friable aggregates, fine to medium grained, dominantly medium, well to very well sorted, sub angular to rounded, dominantly sub rounded, spherical, light grey argillaceous matrix in part, rare greyish black to black carbonaceous material, rare greenish grey glauconite (?) grains, moderate visual and inferred porosity. No shows.						
2745	2750		Not collected- ROP						
2750	2755	100	**SANDSTONE:** as above						
2755	2760	100	**SANDSTONE:** as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2760	2765	95	SANDSTONE: very light grey to light grey, predominantly clear to translucent loose quartz grains, minor soft friable aggregates, fine to medium grained, predominantly fine, well to very well sorted, sub angular to sub rounded, spherical, very light grey argillaceous matrix in part, minor greyish black to black carbonaceous material, poor visual and inferred porosity. No shows.	5	**CLAYSTONE:** medium grey to medium dark grey, firm, blocky	Tr	**COAL:** as above		
2765	2770	90	**SANDSTONE**: as above	10	**CLAYSTONE:** as above				
2770	2775	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above				
2775	2780	40	**SANDSTONE**: as above	60	**CLAYSTONE:** medium grey to medium dark grey, firm, blocky, rare sub fissile in part, rare carbonaceous laminae, common to abundant quartz silt grains, grading in part to SILTSTONE				
2780	2785	30	**SANDSTONE**: as above	70	**CLAYSTONE:** as above				
2785	2790	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
2790	2795	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2795	2800	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above				
2800	2805		No sample-ROP						
2805	2810	10	**SANDSTONE:** white to very light grey, clear to translucent quartz grains, dominantly soft friable aggregates, fine grained, very well sorted, sub angular to sub rounded, spherical, very light grey argillaceous matrix, poor visual porosity. No shows.	90	**CLAYSTONE:** as above				
2810	2815	10	**SANDSTONE**: as above	90	**CLAYSTONE:** medium light grey to medium dark grey, soft, rarely firm, sub blocky to rarely blocky, trace carbonaceous material				
2815	2820		Unreliable sample, flow line cleaned out across screens						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2820	2825	95	**SANDSTONE**: white to very light grey, clear to translucent, trace orange stained, quartz grains, dominantly loose, common soft friable aggregates, very fine to medium grained, dominantly fine to medium grained, moderate to well sorted, sub angular to sub rounded, spherical, very light grey argillaceous matrix, poor visual and fair inferred porosity. No shows	5	**CLAYSTONE:** as above	Tr	**COAL:** black, vitreous, blocky, sub conchoidal fracture, hard, sandy		
2825	2830	95	**SANDSTONE:** as above	5	**COAL:** as above				
2830	2835	100	**SANDSTONE**: as above	Tr	**COAL:** as above				
2835	2840	100	**SANDSTONE:** as above	Tr	**COAL:** as above				
2840	2841	100	**SANDSTONE:** as above						
2841	2896		**CORE: as below**						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
	2849.65	100	**SANDSTONE:** light grey to medium grey, dominantly white, clear to translucent quartz grains, very hard, fine to medium grained, dominantly fine, moderate to well sorted, angular to sub rounded, dominantly sub angular, sub spherical, abundant light grey argillaceous matrix, common to abundant brownish grey lithic grains, minor possible reworked light bluish grey Claystone fragments, common coal fragments, abundant biotite mica and feldspar, possible glauconite, poor visual porosity. Rare to trace mineral fluorescence. No shows						
	2858.81	100	**CLAYSTONE:** medium dark grey to dark grey, hard, non calc, micromicaceous, very silty, very fine arenaceous, trace carbonaceous fragments						
	2867.74	100	**CLAYSTONE:** as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
	2876.87	100	**SANDSTONE:** light grey to medium light grey, dominantly clear to translucent quartz grains, very hard, fine to medium grained, dominantly medium, moderate to well sorted, angular to sub angular grains, sub spherical, abundant white silica cement, common light grey argillaceous matrix, common brownish grey lithic grains, minor coal fragments, common biotite mica and feldspar, poor visual porosity. No shows						
	2886.03	100	**SANDSTONE:** dark grey, dominantly white, clear, translucent quartz grains, very fine to fine grained, moderate to well sorted, angular to sub angular, sub spherical, dark grey argillaceous matrix, minor silica cement, trace black vitreous coal fragments, minor micromicaceous, poor visual porosity. No shows						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2896	2900	40	**SANDSTONE:** very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to predominantly fine grained, trace medium, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, trace black lithic grains, trace weathered feldspar grains, poor visual porosity. No Shows.	60	**CLAYSTONE:** medium dark grey to dark grey, hard, sub blocky to blocky, common bit generated texture, trace quartz silt, trace carbonaceous fragments, non calcareous.				
2900	2905	10	**SANDSTONE:** as above.	90	**CLAYSTONE:** as above.				
2905	2910	5	**SANDSTONE:** as above.	95	**CLAYSTONE:** as above.				
2910	2915	5	**SANDSTONE:** as above.	95	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2915	2920	20	**SANDSTONE:** predominantly as above, very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to predominantly fine grained, trace medium, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, trace black lithic grains, trace weathered feldspar grains, poor visual porosity. No Shows.	80	**CLAYSTONE:** medium dark grey to dark grey, minor brownish grey, hard, sub blocky to blocky, common bit generated texture, trace quartz silt, trace carbonaceous fragments, non calcareous.				
2920	2925	5	**SANDSTONE:** as above.	95	**CLAYSTONE:** as above.				
2925	2930	10	**SANDSTONE:** as above.	90	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2930	2935	30	**SANDSTONE:** predominantly as above, very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to predominantly fine grained, trace medium, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, minor argillaceous matrix, trace black lithic grains, trace weathered feldspar grains, poor visual porosity. No Shows.	70	**CLAYSTONE:** medium dark grey to dark grey, minor brownish grey, hard, sub blocky to blocky, common bit generated texture, trace quartz silt, trace to rare fine to medium quartz grains in part, trace carbonaceous fragments, non calcareous.				
2935	2940	20	**SANDSTONE:** as above.	80	**CLAYSTONE:** as above.				
2940	2945	40	**SANDSTONE:** as above.	60	**CLAYSTONE:** as above.				
2945	2950	30	**SANDSTONE:** as above.	70	**CLAYSTONE:** as above.				
2950	2955		Sample missed						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2955	2960	60	**SANDSTONE:** very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, fine to medium grained, trace very fine, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, trace argillaceous matrix, trace black, lithic grains, trace weathered feldspar grains, poor visual porosity. No Shows.	40	**CLAYSTONE:** medium dark grey to dark grey, minor brownish grey, hard, sub blocky to blocky, common bit generated texture, trace quartz silt, trace to rare fine to medium quartz grains in part, trace carbonaceous fragments, non calcareous.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2960	2965	70	**SANDSTONE:** very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, fine to very coarse grained, trace very fine, trace coarse and very coarse, sub angular to sub rounded, trace angular, moderate to high sphericity, well sorted quartz, trace silica cement, trace argillaceous matrix, trace black, dark reddish brown and greyish orange lithic grains, trace fresh and weathered feldspathic grains, poor visual porosity. No Shows.	30	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2965	2970	100	**VOLCANICS:** varicoloured, predominantly shades of light grey and greenish grey, minor white and pale reddish brown, returned as loose grains and minor microcrystalline rock fragments, common clear quartz, common black Basalt(?), medium to granule sized grains, dominantly coarse to granule, sub angular to very angular, rare nodular Pyrite, trace fresh and weathered feldspathic grains						
2970	2975	100	**VOLCANICS**: as above						
2975	2980	100	**VOLCANICS**: as above						
2980	2985	100	**VOLCANICS**: as above						
2985	2988	100	**VOLCANICS**: as above						
	2988		TD 9.5” Pilot hole						

Interval (m)		Lithology / Show Description							
From	To	%1	Comment / Lithology 1	%2	Lithology 2	%3	Lithology 3	%4	Lithology 4

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Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2600	2605	50	**SILTSTONE:** medium to dark grey, firm to hard, blocky to sub blocky, minor argillaceous matrix, trace carbonaceous fragments.	50	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt, non calcareous.				
2605	2610	5	**SILTSTONE:** as above.	95	**CLAYSTONE:** as above.				
2610	2615	40	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, very fine to medium grained, predominantly fine to medium, angular to sub rounded, moderate to high sphericity, moderately well sorted quartz, trace light grey argillaceous matrix, trace weathered feldspar grains, common bit generated rock flour, poor to fair inferred porosity. No shows.	60	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2615	2620	95	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, fine to very coarse grained, predominantly fine to medium, trace coarse and very coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor to fair inferred porosity. No shows.	5	**CLAYSTONE:** as above.	Tr	**COAL:** brownish black to black, firm, brittle, sub vitreous lustre.		
2620	2625	90	**SANDSTONE:** as above.	5	**CLAYSTONE:** as above.	5	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2625	2630	90	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, fine to coarse grained, predominantly fine to medium, trace coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor to fair inferred porosity. No shows.	10	**CLAYSTONE:** as above.	Tr	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2630	2635	40	**SANDSTONE:** white to very light grey, clear to predominantly translucent grains, returned loose, trace friable aggregates, fine to very coarse grained, predominantly fine to medium, trace coarse and very coarse, angular to sub rounded, minor rounded, moderate to high sphericity, moderately sorted quartz, trace very light grey argillaceous matrix, trace weathered feldspar grains, minor bit generated rock flour, poor visual and inferred porosity. No shows.	60	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt, non calcareous.				
2635	2640	5	**SANDSTONE:** as above.	95	**CLAYSTONE:** as above.				
2640	2645	100	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt and silty laminae, non calcareous.						
2645	2650	100	**CLAYSTONE:** as above.						
2650	2655	100	**CLAYSTONE:** generally as above, trace carbonaceous fragments and laminae.						
2655	2660	100	**CLAYSTONE:** as above.						
2660	2665	100	**CLAYSTONE:** as above						
2665	2670	100	**CLAYSTONE**: as above						

Interval (m)		Lithology / Show Description						
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2670	2675	100	**CLAYSTONE**: dominantly as above, becoming greyish brown, medium dark grey to dark grey						
2675	2680	5	**SANDSTONE:** medium light grey to light grey, predominantly clear to translucent quartz grains, soft friable aggregates, very fine to fine grained, well sorted, sub angular to sub rounded, moderately spherical, trace to minor light grey argillaceous matrix, non calcareous, minor reddish brown rounded lithic grains, rare greyish black carbonaceous material, poor visual porosity. No shows.	95	**CLAYSTONE:** medium dark grey to dark grey, firm to moderately hard, sub-blocky to blocky, trace quartz silt grains, non calcareous				
2680	2685	70	**SANDSTONE**: as above	30	**CLAYSTONE:** as above				
2685	2690	70	**SANDSTONE**: predominantly as above, minor loose grains, minor carbonaceous material both as laminae and fragments	30	**CLAYSTONE:** as above				
2690	2695	80	**SANDSTONE:** predominantly as above, in part minor to common argillaceous matrix	20	**CLAYSTONE:** as above				
2695	2700	90	**SANDSTONE:** as above	10	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2700	2705	90	Cement	10	**SANDSTONE:**				
2705	2710	70	Cement	30	**SANDSTONE:**				
2710	2715	50	Cement	50	**SANDSTONE:**				
2715	2720	30	Cement	70	**SANDSTONE:** light grey to medium grey, predominantly clear, translucent and rare pink quartz, dominantly soft friable aggregates, minor loose, sub rounded to rounded, very fine to rare medium grained, moderately well sorted, spheroidal, minor light grey argillaceous matrix, common dark grey lithic grains, common black vitreous coal fragments, rare green glauconite grains, trace to minor weathered feldspar, fair visual and inferred porosity. No Shows.				
2720	2725	10	Cement	90	**SANDSTONE:** as above	Tr	**CLAYSTONE:** medium dark grey, hard, blocky, sub fissile in part, non calc		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2725	2730	95	**SANDSTONE:** light grey to medium light grey, predominantly clear, minor translucent and rare pink quartz, friable aggregates, minor loose, common bit generated texture, sub rounded to rounded, very fine to fine, trace medium grained, moderately well sorted, moderate to high sphericity, minor light grey argillaceous matrix, common dark grey lithic grains, common black vitreous coal fragments, trace moderate red lithic grains, trace to minor fresh and weathered feldspar grains, fair visual and inferred porosity. No Shows.	5	**CLAYSTONE:** medium dark grey, hard, blocky, sub fissile in part, non calcareous	Tr	Cement		
2730	2735	100	**SANDSTONE:** as above.	Tr	**CLAYSTONE:** as above	Tr	**Cement**		
2735	2740	100	**SANDSTONE:** as above.	Tr	**CLAYSTONE:** as above	Tr	**Cement**		
2740	2745	100	**SANDSTONE:** generally as above, trace carbonaceous/coaly wisps.	Tr	**CLAYSTONE:** as above				
2745	2750	100	**SANDSTONE:** as above.	Tr	**CLAYSTONE:** as above				
2750	2755	100	**SANDSTONE:** as above.	Tr	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2755	2760	100	**SANDSTONE:** light grey to medium light grey, predominantly clear, minor translucent and rare pink quartz, friable aggregates, minor loose, common bit generated texture, sub rounded to rounded, very fine to fine grained, trace medium, moderately well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor dark grey to greyish black lithic grains, rare black vitreous coal fragments, trace moderate red lithic grains, trace to rare fresh and weathered feldspar grains, poor to fair visual and inferred porosity. No Shows.	Tr	**CLAYSTONE:** medium dark grey, hard, blocky, sub fissile in part, non calcareous				
2760	2765	95	**SANDSTONE:** as above.	5	**CLAYSTONE:** as above.				
2765	2770	95	**SANDSTONE:** as above.	5	**CLAYSTONE:** as above.				
2770	2775	60	**SANDSTONE:** as above.	40	**CLAYSTONE:** medium grey to medium dark grey, firm, blocky, rare sub fissile in part, rare carbonaceous laminae, common to abundant quartz silt grains, grading in part to SILTSTONE				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2775	2780	20	**SANDSTONE:** light grey to medium light grey, predominantly clear, minor translucent, friable aggregates, minor loose, common bit generated texture, very fine to fine grained, trace medium, sub rounded to rounded, moderately well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor dark grey to greyish black lithic grains, rare black vitreous coal fragments, trace moderate red lithic grains, trace to rare fresh and weathered feldspar grains, poor to fair visual and inferred porosity. No Shows.	80	**CLAYSTONE:** medium grey to medium dark grey, moderately hard, blocky, trace silt, trace carbonaceous fragments, non calcareous.				
2780	2785	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above.				
2785	2790	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above.				
2790	2795	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above.				
2795	2800	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above.				
2800	2805	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above.				
2805	2810	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2810	2815	100	**CLAYSTONE:** medium grey to medium dark grey, moderately hard, blocky, trace silt, trace carbonaceous fragments, non calcareous.	Tr	**COAL:** brownish black to black, moderately hard, blocky, brittle, sub vitreous lustre				
2815	2820	100	**CLAYSTONE:** as above						
2820	2825	100	**CLAYSTONE:** as above						
2825	2830	30	**SANDSTONE:** light grey to medium light grey, clear to translucent grains, trace pink grains, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, sub rounded to rounded, minor angular to sub angular, well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, trace moderate red lithics, fair inferred porosity. No Shows.	70	**CLAYSTONE:** medium grey to medium dark grey, moderately hard, blocky, trace silt and very fine grained quartz, trace finely disseminated carbonaceous fragments, non calcareous.				
2830	2835	80	**SANDSTONE:** as above	20	**CLAYSTONE:** as above				
2835	2840	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above				
2840	2845	90	**SANDSTONE:** generally as above, trace coarse grains, common bit generated texture.	10	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2845	2850	90	**SANDSTONE:** light grey to medium light grey, clear to translucent grains, trace pink and moderate orange pink grains, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, sub rounded to rounded, minor angular to sub angular, well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, trace moderate red lithics, fair inferred porosity. No Shows.	10	**CLAYSTONE:** medium grey to medium dark grey, moderately hard, blocky, trace silt and very fine grained quartz, trace finely disseminated carbonaceous fragments, non calcareous.				
2850	2855	90	**SANDSTONE:** generally as above, common bit generated texture.	10	**CLAYSTONE:** as above				
2855	2860	80	**SANDSTONE:** generally as above, common bit generated texture.	10	**CLAYSTONE:** as above	Tr	**COAL:** brownish black to black, moderately hard, blocky, brittle, sub vitreous lustre.		
2860	2865	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above	Tr	**COAL:** as above.		
2865	2870	20	**SANDSTONE:** generally as above, trace coarse grains.	80	**CLAYSTONE:** as above				
2870	2875	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above	Tr	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2875	2880	40	**SANDSTONE:** light grey to medium light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, sub rounded to rounded, minor angular to sub angular, well sorted, moderate to high sphericity, trace light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, fair inferred porosity. No Shows.	60	**CLAYSTONE:** medium grey to medium dark grey, moderately hard, blocky, trace silt and very fine grained quartz, trace finely disseminated carbonaceous fragments, non calcareous.	Tr	**COAL:** brownish black to black, moderately hard, blocky, brittle, sub vitreous lustre.		
2880	2885	30	**SANDSTONE**: as above	70	**CLAYSTONE:** as above	Tr	**COAL:** as above		
2885	2890	30	**SANDSTONE:** predominantly as above, very fine to fine, rarely medium grains,	70:	**CLAYSTONE:** as above	Tr	**COAL:** as above		
2890	2895	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above	Tr	**COAL:** as above		
2895	2900	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
2900	2905	30	**SANDSTONE:** as above	70	**CLAYSTONE**: as above				
2905	2910	50	**SANDSTONE:** as above	50	**CLAYTONE:** as above				
2910	2915	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2915	2920	30	**SANDSTONE:** light grey to medium light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to rarely medium grained, predominantly very fine to fine, angular to sub rounded, well sorted, moderate to high sphericity, trace to minor light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, fair inferred porosity. No Shows.	70	**CLAYSTONE:** as above				
2920	2925	50	**SANDSTONE:** as above	50	**CLAYSTONE:** medium grey to dark grey, moderately hard, blocky, trace finely disseminated carbonaceous material, non calcareous, trace very fine sand grains, grading in part to SILTSTONE				
2925	2930	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
2930	2935	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
2935	2940	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2940	2945	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
2945	2950	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
2950	2955	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
2955	2960	20	**SANDSTONE:** as above	80	**CLAYSTONE:** medium grey to dark grey tending to brownish grey hues, trace dark greenish grey, moderately hard, blocky, rare finely disseminated carbonaceous material, non calcareous				
2960	2965	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
2965	2970	30	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2970	2975	20	**SANDSTONE**: light grey to medium light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to trace medium grained, predominantly very fine to fine, angular to sub rounded, rare well rounded, dominantly well sorted, moderate sphericity, minor light grey argillaceous matrix, minor greyish black lithic grains, trace fresh and weathered feldspar grains, fair inferred porosity. No Shows.	80	**CLAYSTONE:** as above				
2975	2980	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
2980	2985	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
2985	2990	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
2990	2995	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above	Tr	**COAL:** brownish black to greyish black, sub vitreous lustre, moderately hard, blocky, silty in part.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
2995	3000	10	**SANDSTONE:** as above	80	**CLAYSTONE:** medium grey to dark grey, dominantly soft, minor firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous	10	**COAL:** as above		
3000	3005	10	**SANDSTONE:** as above	80	**CLAYSTONE:** as above	10	**COAL:** as above		
3005	3010	20	**SANDSTONE:** light grey to greenish grey, clear to translucent grains, dominantly soft friable aggregates, very fine to fine grained, predominantly very fine, angular to sub rounded, rare well rounded, well to very well sorted, moderate sphericity, minor light grey argillaceous matrix, poor visual porosity. No Shows.	80	**CLAYSTONE:** as above	Tr	**COAL:** as above		
3010	3015	30	**SANDSTONE:** predominantly as above, returned loose, trace friable aggregates	70	**CLAYSTONE:** as above				
3015	3020	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
3020	3025	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3025	3030	20	**SANDSTONE:** light grey to greenish grey, clear to translucent grains, dominantly soft friable aggregates, very fine to fine grained, predominantly very fine, angular to sub rounded, rare well rounded, well to very well sorted, moderate sphericity, minor light grey argillaceous matrix, poor visual porosity. No Shows.	80	**CLAYSTONE:** medium grey to dark grey, dominantly soft, minor firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous	Tr	**COAL:** as above		
3030	3035	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3035	3040	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3040	3045	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3045	3050	20	**SANDSTONE**: as above	80	**CLAYSTONE:** as above				
3050	3055	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3055	3060	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3060	3065	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3065	3070	5	**SANDSTONE:** very light grey to light grey, clear to translucent grains, dominantly soft friable aggregates, very fine to predominantly fine grained, angular to sub rounded, rare well rounded, well to very well sorted, moderate sphericity, minor light grey argillaceous matrix, poor visual porosity. No Shows.	95	**CLAYSTONE:** medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous				
3070	3075	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3075	3080	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3080	3085	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3085	3090	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3090	3095	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3095	3100	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3100	3105	5	**SANDSTONE:** very light grey to light grey, clear to translucent grains, dominantly soft friable aggregates, very fine to predominantly fine grained, angular to sub rounded, rare well rounded, well to very well sorted, moderate sphericity, minor light grey argillaceous matrix, poor visual porosity. No Shows.	95	**CLAYSTONE:** medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous				
3105	3110	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3110	3115	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3115	3120	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3120	3125	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3125	3130	5	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3130	3135	60	**SANDSTONE:** very light grey to light grey, clear to translucent grains, common friable aggregates, very fine to fine grained, predominantly fine, angular to sub rounded, rare well rounded, moderate sphericity well sorted, minor light grey argillaceous matrix, minor greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual porosity. No Shows.	40	**CLAYSTONE:** medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous				
3135	3140	80	**SANDSTONE:** generally as above, trace very coarse quartz grains.	20	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3140	3145	90	**SANDSTONE:** very light grey to light grey, clear to translucent grains, common friable aggregates, minor loose, very fine to very coarse grained, predominantly fine, trace coarse and very coarse, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual porosity. No Shows.	10	**CLAYSTONE:** medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous				
3145	3150	95	**SANDSTONE**: as above	95	**CLAYSTONE:** as above				
3150	3155	60	**SANDSTONE**: as above	40	**CLAYSTONE:** as above				
3155	3160	30	**SANDSTONE**: as above	70	**CLAYSTONE:** as above				
3160	3165	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				
3165	3170	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3170	3175	60	**SANDSTONE:** very light grey to light grey, clear to translucent grains, returned loose, common friable aggregates, trace to minor bit generated white rock flour, very fine to fine grained, predominantly fine, very rarely medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, minor greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual and fair inferred porosity. No Shows.	40	**CLAYSTONE:** as above				
3175	3180	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3180	3185	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3185	3190	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3190	3195	95	**SANDSTONE**: as above, common bit generated rock flour	5	**CLAYSTONE:** as above				
3195	3200	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3200	3205	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3205	3210	95	**SANDSTONE**: as above	5	**CLAYSTONE:** medium grey to dark grey, moderately firm to firm, amorphous to blocky, dominantly sub blocky, rare finely disseminated carbonaceous material, non calcareous				
3210	3215	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3215	3220	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3220	3225	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3225	3230	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3230	3235	95	**SANDSTONE**: as above	5	**CLAYSTONE:** as above				
3235	3240	90	**SANDSTONE**: as above	10	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3240	3245	70	**SANDSTONE:** very light grey to light grey, clear to translucent grains, dominantly friable aggregates, minor grains returned loose, trace to minor bit generated white rock flour, very fine to fine grained, predominantly fine, very rarely medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, minor to common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual and fair inferred porosity. No Shows.	30	**CLAYSTONE:** medium grey to dark grey, soft to firm, sub blocky to blocky, dominantly blocky, rare finely disseminated carbonaceous material, non calcareous				
3245	3250	50	**SANDSTONE**: as above but dominantly returned loose	50	**CLAYSTONE:** as above				
3250	3255	70	**SANDSTONE**: as above but dominantly returned loose	30	**CLAYSTONE:** as above				
3255	3260	80	**SANDSTONE**: as above but dominantly returned loose, rare nodular Pyrite	20	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3260	3265	30	**SANDSTONE**: very light grey to light grey, clear to translucent grains, dominantly returned loose, minor to common friable aggregates, trace to minor bit generated white rock flour, very fine to fine grained, predominantly fine, very rarely medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, minor to common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual and fair inferred porosity. No Shows.	70	**CLAYSTONE:** medium grey to dark grey, soft to firm, sub blocky to blocky, dominantly blocky, rare finely disseminated carbonaceous material, non calcareous				
3265	3270	10	**SANDSTONE:** as above	90					
3270	3275	10	**SANDSTONE:** as above	90	**CLAYSTONE:** dominantly as above, dominantly soft	Tr	**COAL:** black, sub vitreous lustre, blocky, moderately hard		
3275	3280	20	**SANDSTONE:** as above	80	**CLAYSTONE:** dominantly as above, dominantly soft	Tr	**COAL:** as above		
3280	3285	20	**SANDSTONE:** as above	80	**CLAYSTONE:** dominantly as above, dominantly soft				

Interval (m)		Lithology / Show Description						
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3285	3290	10	**SANDSTONE**: very light grey to light grey, clear to translucent grains, dominantly returned loose, minor to common friable aggregates, trace to minor bit generated white rock flour, very fine to fine grained, predominantly fine, very rarely medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, minor to common greyish black lithics, rare fresh and weathered feldspars, trace moderate red lithics, trace carbonaceous/coaly fragments, poor visual and fair inferred porosity. No Shows.	90	**CLAYSTONE:** medium grey to dark grey, soft to firm, sub blocky to blocky, dominantly blocky, rare finely disseminated carbonaceous material, non calcareous				
3290	3295	10	**SANDSTONE:** as above	90	**CLAYSTONE:** medium grey to dark grey, soft to firm, dominantly firm, sub blocky to blocky, dominantly blocky, rare finely disseminated carbonaceous material, non calcareous				
3295	3300	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above	Tr	**COAL:** as above		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3300	3305	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
3305	3310	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above, faint brown hues developing				
3310	3315	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3315	3320	20	**SANDSTONE:** as above	80	**CLAYSTONE:** predominantly as above, dominantly soft, amorphous, trace sub blocky				
3320	3325	10	**SANDSTONE:** as above	90	**CLAYSTONE:** predominantly as above, dominantly soft, amorphous, trace sub blocky				
3325	3330	20	**SANDSTONE:** as above	80	**CLAYSTONE:** predominantly as above, dominantly soft, amorphous, trace sub blocky				
3330	3335	10	**SANDSTONE:** as above	90	**CLAYSTONE:** predominantly as above, dominantly soft, amorphous, trace sub blocky				
3335	3340	10	**SANDSTONE:** as above	90	**CLAYSTONE:** predominantly as above, dominantly soft, amorphous, trace sub blocky				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3340	3345	40	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to fine grained, predominantly fine, trace medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, rare greyish black lithics, rare fresh and weathered feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.	60	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, rare finely disseminated carbonaceous material, non calcareous				
3345	3350	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
3350	3355	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
3355	3360	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
3360	3365	50	**SANDSTONE:** as above	50	**CLAYSTONE:** as above				
3365	3370	90	**SANDSTONE:** as above	10	**CLAYSTONE:** as above				
3370	3375	40	**SANDSTONE:** generally as above, trace coarse grains.	60	**CLAYSTONE:** as above				
3375	3380	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3380	3385	20	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to fine grained, predominantly fine, trace medium, angular to sub rounded, rare well rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, rare greyish black lithics, rare fresh and weathered feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.	80	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.				
3385	3390	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3390	3395	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above				
3395	3400	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3400	3405	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above				
3405	3410	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3410	3415	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3415	3420	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3420	3425	90	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to predominantly fine grained, angular to sub rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.	10	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.				
3425	3430	90	**SANDSTONE:** as above	10	**CLAYSTONE:** as above				
3430	3435	60	**SANDSTONE:** as above	40	**CLAYSTONE:** as above				
3435	3440	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
3440	3445	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3445	3450	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
3450	3455	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3455	3460	60	**SANDSTONE:** as above	40	**CLAYSTONE:** as above				
3460	3465	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above	Tr	**COAL:** black, sub vitreous lustre, blocky, moderately hard		
3465	3470	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above	Tr	**COAL:** as above.		

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3470	3475	40	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to predominantly fine grained, angular to sub rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.	60	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.		**COAL:** black, sub vitreous lustre, blocky, moderately hard, brittle.		
3475	3480	70	**SANDSTONE:** as above	30	**CLAYSTONE:** as above	Tr	**COAL:** as above.		
3480	3485	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3485	3490	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above				
3490	3495	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3495	3500	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3500	3505	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3505	3520	30	**SANDSTONE:** as above	70	**CLAYSTONE:** as above				
3520	3530	10	**SANDSTONE:** as above	90	**CLAYSTONE:** as above				
3530	3540	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3540	3550	10	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to predominantly fine grained, angular to sub rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.	90	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.				
3550	3560	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above	Tr	**COAL:** black, vitreous lustre, moderately hard, blocky		
3560	3577	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above				
3577	3580	80	**SANDSTONE:** as above	20	**CLAYSTONE:** as above	Tr	**COAL:** as above.		
3580	3590	20	**SANDSTONE:** as above	80	**CLAYSTONE:** as above	Tr	**COAL:** as above.		
3590	3600	40	**SANDSTONE:** as above	60	**CLAYSTONE:** as above	Tr	**COAL:** as above.		
3600	3610	30	**SANDSTONE:** generally as above, trace chert.	70	**CLAYSTONE:** as above				
3610	3620	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above				
3620	3630	5	**SANDSTONE:** as above	95	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3630	3640	40	**SANDSTONE**: very light grey to light grey, clear to translucent grains, returned loose, minor friable aggregates, very fine to predominantly fine grained, angular to sub rounded, low to moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, poor visual and fair inferred porosity. No Shows.	70	**CLAYSTONE:** medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.				
3640	3650	90	**SANDSTONE:** as above	10	**CLAYSTONE:** as above				
3650	3660	100	**SANDSTONE:** as above	Tr	**CLAYSTONE:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3660	3670	100	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine to medium, angular to sub rounded, low to moderate sphericity, well sorted, trace light grey argillaceous matrix, rare greyish black lithics, trace moderate reddish brown lithics, trace feldspars, fair inferred porosity. No Shows.						
3670	3680	100	**SANDSTONE:** as above.						
3680	3690	100	**SANDSTONE:** as above						
3690	3700	100	**SANDSTONE:** as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3700	3710	100	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine, common medium, angular to sub rounded, sub spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace feldspars, fair inferred porosity. No Shows.						
3710	3720	100	**SANDSTONE**: as above						
3720	3730	100	**SANDSTONE**: as above						
3730	3740	100	**SANDSTONE**: as above						
3740	3750	100	**SANDSTONE**: as above						
3750	3760	100	**SANDSTONE**: as above						
3760	3770	100	**SANDSTONE**: as above						
3770	3780	100	**SANDSTONE**: as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3780	3790	100	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to coarse grained, predominantly fine, common medium, rare coarse, angular to sub rounded, sub spheroidal, moderately well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace feldspars, fair inferred porosity. No Shows.						
3790	3800	100	**SANDSTONE**: as above						
3800	3810	100	**SANDSTONE**: as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3810	3820	100	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine, common medium, sub angular to sub rounded, sub spheroidal-spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace fresh and weathered feldspars, fair inferred porosity. No Shows.						
3820	3830	100	**SANDSTONE**: as above						
3830	3840	95	**SANDSTONE**: as above	5	**COAL:** greyish black to black, firm, blocky				
3840	3850	100	**SANDSTONE**: as above	Tr	**COAL:** as above				
3850	3860	100	**SANDSTONE**: as above						
3860	3870	100	**SANDSTONE**: as above						
3870	3880	100	**SANDSTONE**: as above						
3880	3890	100	**SANDSTONE**: as above						
3890	3900	100	**SANDSTONE**: as above, trace coaly fragments.						
3900	3910	100	**SANDSTONE**: as above						
3910	3920	100	**SANDSTONE**: as above	Tr	**COAL:** as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3920	3930	100	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine, common medium, sub angular to sub rounded, sub spheroidal-spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace fresh and weathered feldspars, fair inferred porosity. No Shows.	Tr	**COAL:** greyish black to black, firm, blocky				
3930	3940	100	**SANDSTONE**: as above						
3940	3950	40	**SANDSTONE**: as above	60	**CLAYSTONE:** medium grey to medium dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
3950	3960	10	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to medium grained, predominantly fine, common medium, sub angular to sub rounded, sub spheroidal-spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace fresh and weathered feldspars, fair inferred porosity. No Shows.	90	**CLAYSTONE:** medium grey to medium dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace carbonaceous material, non calcareous.				
3960	3970	10	**SANDSTONE**: as above	90	**CLAYSTONE**: as above				
3970	3980	10	**SANDSTONE**: as above	90	**CLAYSTONE**: as above				
3980	3990	10	**SANDSTONE**: as above	90	**CLAYSTONE**: as above				
3990	4000	Tr	**SANDSTONE**: as above	100	**CLAYSTONE**: as above				
4000	4010	Tr	**SANDSTONE**: as above	100	**CLAYSTONE**: as above				
4010	4020	Tr	**SANDSTONE**: as above	100	**CLAYSTONE**: as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4020	4030	30	**SANDSTONE**: very light grey to light grey, clear to translucent grains, friable aggregates, very fine to fine grained, predominantly very fine, grading to siltstone, sub angular to sub rounded, sub spheroidal-spheroidal, well sorted, trace light grey silty to argillaceous matrix, trace greyish black lithics, trace fresh and weathered feldspars, trace pyrite, trace carbonaceous wisps, fair inferred porosity. No Shows.	70	**CLAYSTONE:** medium grey to medium dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace carbonaceous material, non calcareous.				
4030	4040	30	**SANDSTONE**: as above	70	**CLAYSTONE**: as above				
4040	4050	60	**SANDSTONE**: as above	40	**CLAYSTONE**: as above				
4050	4060	30	**SANDSTONE**: as above	70	**CLAYSTONE**: as above				
4060	4070	10	**SANDSTONE**: as above	90	**CLAYSTONE**: as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4070	4080	40	**SANDSTONE**: very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, friable aggregates, very fine to medium grained, predominantly fine, common medium, sub angular to sub rounded, sub spheroidal to spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace fresh and weathered feldspars, fair inferred porosity. No Shows.	60	**CLAYSTONE:** medium grey to medium dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace carbonaceous material, non calcareous.				
4080	4090	70	**SANDSTONE**: as above	30	**CLAYSTONE**: as above				
4090	4100	100	**SANDSTONE**: as above						
4100	4110	100	**SANDSTONE**: as above						
4110	4120	100	**SANDSTONE**: as above						
4120	4130	100	**SANDSTONE:** as above commonly returned loose						
4130	4140	100	**SANDSTONE:** as above commonly returned loose						
4140	4150	100	**SANDSTONE:** as above commonly returned loose						
4150	4160	100	**SANDSTONE:** as above commonly returned loose						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4160	4170	100	**SANDSTONE:** as above commonly returned loose						
4170	4180	100	**SANDSTONE:** as above commonly returned loose						
4180	4190		No sample/crew change						
4190	4200	100	**CLAYSTONE:** medium grey to medium dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, trace to minor carbonaceous material, non calcareous.						
4200	4210	100	**CLAYSTONE:** medium grey to medium dark grey, firm to moderately hard, predominantly bit generated texture, blocky, trace to minor carbonaceous material, non calcareous						
4210	4220	100	**CLAYSTONE:** medium dark grey to greyish black, firm to moderately hard, blocky, minor to common carbonaceous material, non calcareous						
4220	4230	100	**CLAYSTONE**: as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4230	4240	20	**SANDSTONE:** very light grey to light grey, clear to translucent grains, trace light greenish grey, friable aggregates, very fine to fine grained, predominantly fine, sub angular to sub rounded, sub spheroidal to spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace feldspars, trace carbonaceous/coaly fragments, fair inferred porosity. No Shows.	80	**CLAYSTONE:** medium grey to medium dark grey, firm, sub blocky to blocky, trace to minor carbonaceous, non calcareous				
4240	4250	70	**SANDSTONE**: as above	30	**CLAYSTONE**: as above				
4250	4260	80	**SANDSTONE**: as above	20	**CLAYSTONE**: as above				
4260	4270	90	**SANDSTONE**: generally as above, trace coarse.	30	**CLAYSTONE**: as above				
4270	4280	90	**SANDSTONE**: generally as above, trace coarse to very coarse.	30	**CLAYSTONE**: as above				
4280	4290	95	**SANDSTONE**: as above	5	**CLAYSTONE**: as above				
4290	4300	95	**SANDSTONE**: as above	5	**CLAYSTONE**: as above				
4300	4310	100	**SANDSTONE**: as above	Tr	**CLAYSTONE**: as above				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4310	4320	100	**SANDSTONE:** very light grey to light grey, clear to translucent grains, trace light greenish grey and moderate reddish orange, returned loose, common friable aggregates, very fine to fine grained, predominantly fine, sub angular to sub rounded, minor angular, sub spheroidal to spheroidal, well sorted, trace light grey argillaceous matrix, rare greyish black lithics, trace fresh and weathered feldspars, trace carbonaceous/coaly fragments, fair inferred porosity. No Shows.						
4320	4330	100	**SANDSTONE**: as above	Tr	**COAL:** greyish black to black, firm, blocky				
4330	4340	100	**SANDSTONE**: as above	Tr	**COAL:** as above.				
4340	4350	100	**SANDSTONE**: as above	Tr	**COAL:** as above.				
4350	4360	100	**SANDSTONE**: as above						
4360	4370	100	**SANDSTONE**: as above						
4370	4380	100	**SANDSTONE**: as above						
4380	4390	100	**SANDSTONE**: as above						
4390	4400	100	**SANDSTONE**: as above						
4400	4410	40	**SANDSTONE**: as above	60	**CLAYSTONE:** medium grey to medium dark grey, firm, blocky, homogeneous, non calcareous.				
4410	4420	10	**SANDSTONE**: as above	90	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4420	4430	5	**SANDSTONE:** very light grey to light grey, clear to translucent grains, trace light greenish grey and moderate reddish orange, returned loose, common friable aggregates, very fine to fine grained, predominantly fine, sub angular to sub rounded, minor angular, sub spheroidal to spheroidal, well sorted, trace light grey argillaceous matrix, rare greyish black lithics, trace fresh and weathered feldspars, trace carbonaceous/coaly fragments, fair inferred porosity. No Shows.	95	**CLAYSTONE:** medium grey to medium dark grey, light brownish grey in part, firm, blocky, homogeneous, non calcareous.				
4430	4440	Tr	**SANDSTONE**: as above	100	**CLAYSTONE:** as above.				
4440	4450	40	**SILTSTONE:** light grey to medium light grey, medium grey in part, firm to friable, sub blocky, minor very fine grained quartz, grading to very fine grained sandstone, trace carbonaceous wisps and fragments, very poor inferred porosity. No Shows	60	**CLAYSTONE:** as above.				
4450	4460	80	**SILTSTONE:** as above.	20	**CLAYSTONE:** as above.				

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4460	4470	20	**SILTSTONE:** light grey to medium light grey, medium grey in part, firm to friable, sub blocky, minor light grey argillaceous matrix, minor very fine grained quartz, grading to very fine grained sandstone, trace carbonaceous wisps and fragments, very poor inferred porosity. No Shows	80	**CLAYSTONE:** medium dark grey to dark grey, greyish black in part, firm, blocky, homogeneous, common bit generated texture, non calcareous.				
4470	4480	10	**SILTSTONE:** as above.	90	**CLAYSTONE:** as above.				
4480	4490	Tr	**SILTSTONE:** as above.	100	**CLAYSTONE:** as above.				
4490	4500	30	**SILTSTONE:** as above.	70	**CLAYSTONE:** as above.				
4500	4510	20	**SILTSTONE:** as above.	60	**CLAYSTONE:** as above.				
4510	4520	30	**SILTSTONE:** as above.	70	**CLAYSTONE:** as above.				
4520	4530	10	**SILTSTONE:** as above.	90	**CLAYSTONE:** as above.				
4530	4540	10	**SILTSTONE:** as above.	90	**CLAYSTONE:** as above.				
4540	4550	100	**CLAYSTONE:** dark grey to greyish black, firm to moderately hard, blocky, common bit generated texture, non calcareous						
4550	4560	100	**CLAYSTONE:** as above, blocky, sub fissile in part						
4560	4570	100	**CLAYSTONE:** as above						
4570	4580	100	**CLAYSTONE:** as above						

Interval (m)		Lithology / Show Description							
From	**To**	**%1**	**Comment / Lithology 1**	**%2**	**Lithology 2**	**%3**	**Lithology 3**	**%4**	**Lithology 4**
4580	4590	100	**CLAYSTONE:** as above						
4590	4600	100	**CLAYSTONE:** predominantly as above, minor light grey to medium grey, soft, sub blocky, non calcareous						
4600	4610	100	**CLAYSTONE:** light grey grading to light brownish grey, minor dark grey to greyish black, moderately hard, blocky, non calcareous						
4610	4620	50	**SANDSTONE**: very light grey to light grey, clear to translucent, rare light greenish grey grains, dominantly returned loose, common friable aggregates, trace bit generated rock flour, very fine to fine grained, predominantly fine, sub angular to sub rounded, minor angular, sub spheroidal to spheroidal, well sorted, trace light grey argillaceous matrix, rare greyish black lithics, trace fresh and weathered feldspars, trace carbonaceous/coaly fragments, fair inferred porosity. No Shows.	50	**CLAYSTONE:** as above				
4620	4630	100	**SANDSTONE**: as above						
4630	4640	100	**SANDSTONE**: as above		**TD 4648m @ 0230hrs**				
4640	4648	100	**SANDSTONE**: as above		**August 10th 2008**				

Interval (m)		Lithology / Show Description							
From	To	%1	Comment / Lithology 1	%2	Lithology 2	%3	Lithology 3	%4	Lithology 4

APPENDIX 10: DIRECTIONAL DRILLING AND LWD END OF WELL REPORT

Schlumberger

nexus ENERGY

Longtom - 4
Longtom - 4 P
Longtom - 4 H

End of Well Report

	Name	Signature	Date
Schlumberger QC			
Client approval			

Schlumberger

nexus ENERGY

Contents

1. General Information
2. Geomagnetic and Survey Reference Criteria
3. Definitive Survey
4. Health, Safety, and Environment
5. Logging Overview
6. Performance Drilling Report
7. BHA Reports
8. Drilling Parameter Sheets
9. Drilling Tool Run Reports
10. Drill Bit Grading
11. Service Quality Issues
12. Drilling Mechanics

General Information

Well Name:	**Longtom-4**
Rig:	West Triton
Field:	Longtom
Location:	VIC/L29
Country:	Australia
Cell Members:	Patrick Dassens(DD) Punniamoorthy Sellathurai(DD) Jason Condon(DD Trainee) Yuda Muhammad(MWD) Chirstopher Hibberson (MWD) San Thida Aung(MWD) Michael Van kampen (MWD Mark Lu(MWD)
Town Contacts:	David de Freitas Directional Drilling Coordinator Mee Yean Tan Field Services Manager Ryan Mulligan Drilling Engineer
Company Representatives:	Sean De Freitas Company Representative Bill Openshaw Company Representative Stefan Schmidt Company Representative Rocco Rossouw Company Representative Cliff Menhennitt Wellsite Geologist Simon Ward Wellsite Geologist Hamish Little Wellsite Geologist

Geomagnetic and Survey Reference Criteria

Geomagnetic Data

Magnetic Model:	**BGGM version 2007**
Magnetic Date:	26 June 2008
Magnetic Field Strength:	1195.93 HCNT
Magnetic Declination:	13.1°
Magnetic Dip:	-68.59°

Survey Reference Criteria

Reference G:	1000.02mG
Reference H:	1195.93 HCNT
Reference Dip:	-68.59°
G value Tolerance:	2.50 mG
H value Tolerance:	6.00 HCNT
Dip Tolerance:	0.45°

Survey Corrections Applied

Reference North:	Grid North
Magnetic Declination:	13.1°
Grid Convergence:	-0.83°
Total Azimuth Correction:	13.93°
Vertical Section Azimuth:	183.55°

Survey Reference Location

Location Coordinates

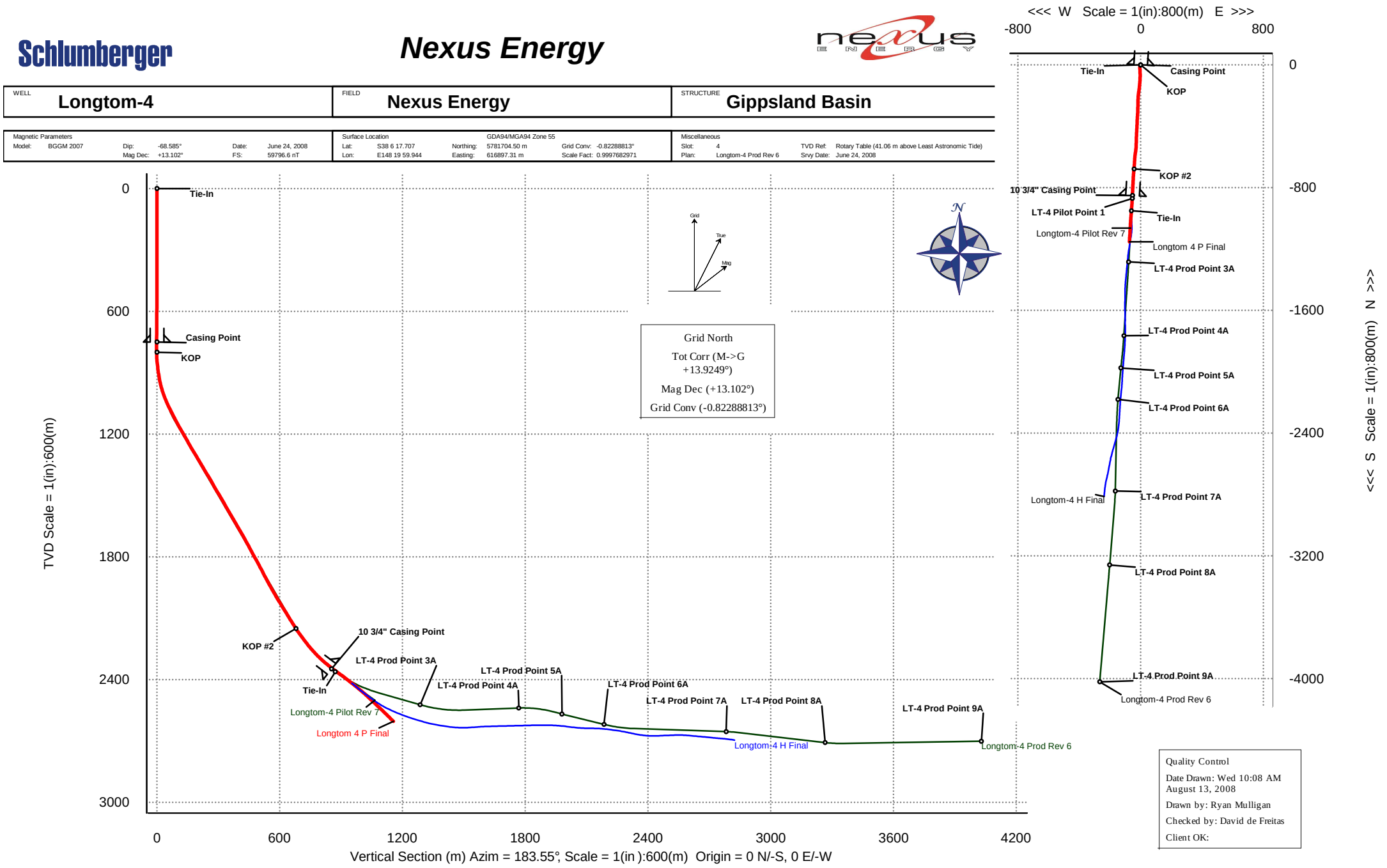
Latitude:	38° 06' 17.707" South
Longitude:	148° 19' 59.944" East
Easting:	616897.309 m
Northing:	5781704.499 m
Reference System:	GDA94/MGA94 Zone 55

Schlumberger

Nexus Energy

WELL	FIELD	STRUCTURE
Longtom-4	Nexus Energy	Gippsland Basin

Magnetic Parameters				Surface Location				Miscellaneous			
Model:	BGGM 2007	Dip:	-68.585°		GDA94/MGA94 Zone 55			Slot:	4	TVD Ref:	Rotary Table (41.06 m above Least Astronomic Tide)
		Mag Dec:	+13.102°	Lat:	S38 6 17.707	Northing:	5781704.50 m	Plan:	Longtom-4 Prod Rev 6	Srvy Date:	June 24, 2008
		Date:	June 24, 2008	Lon:	E148 19 59.944	Easting:	616897.31 m				
		FS:	59796.6 nT			Grid Conv:	-0.82288813°				
						Scale Fact:	0.9997682971				



Quality Control

Date Drawn: Wed 10:08 AM August 13, 2008

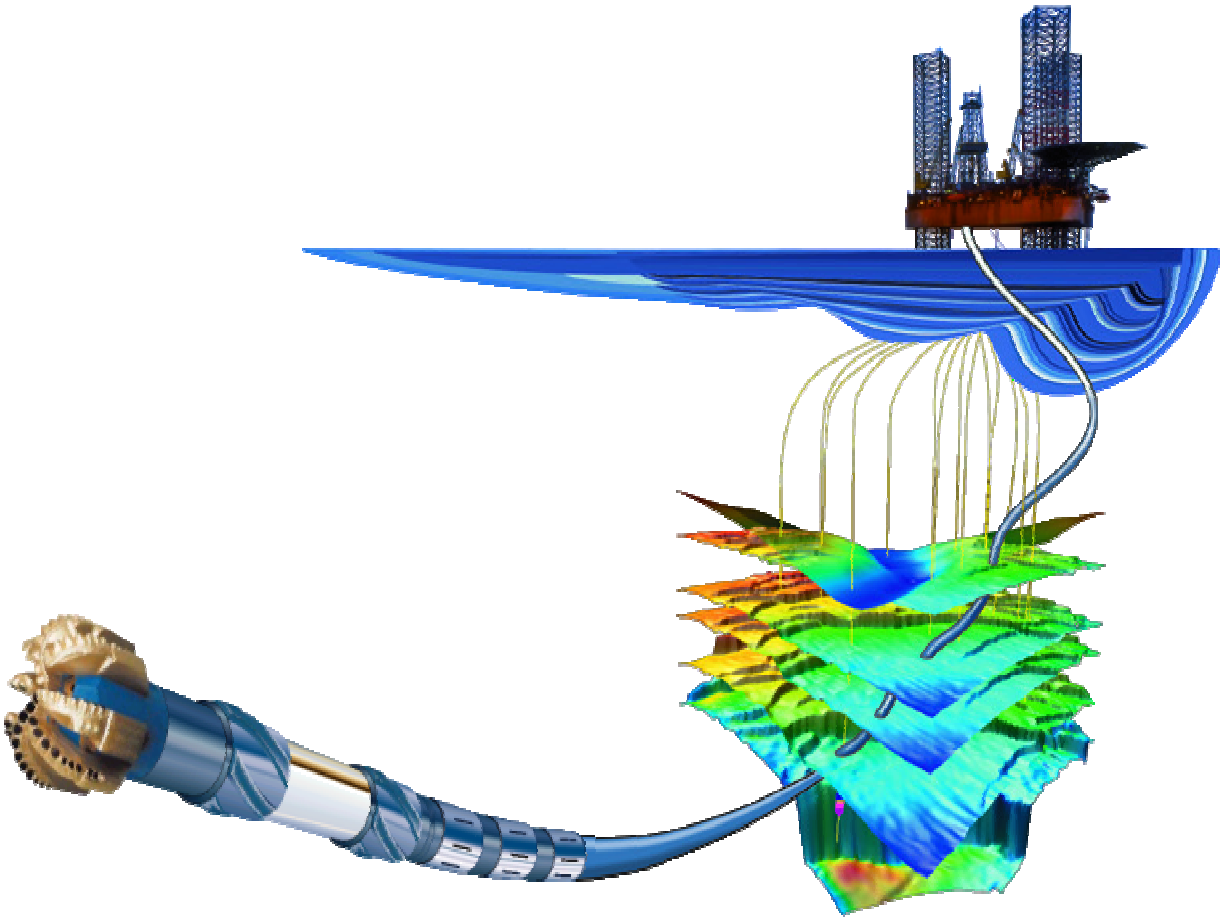
Drawn by: Ryan Mulligan

Checked by: David de Freitas

Client OK:

Schlumberger

Definitive Survey



Longtom-4 P Survey Report

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	Rotary Table
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.102°
Survey Name / Date:	Longtom-4 P / June 26, 2008	Total Field Strength:	59796.482 nT
Tort / AHD / DDI / ERD ratio:	102.345° / 1164.28 m / 5.652 / 0.447	Magnetic Dip:	-68.585°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	June 26, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.925°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	Closure (m)	Closure Azimuth (deg)	DLS (deg/30 m)	Mag / Grav Tool Face (deg)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
Sea Bed	97.03	0.00	0.00	97.03	0.00	0.00	0.00	0.00	0.00	0.00	328.34M
	116.15	0.69	328.34	116.15	-0.09	0.10	-0.06	0.12	328.34	1.08	358.29M
	124.06	0.56	358.29	124.06	-0.17	0.18	-0.09	0.20	333.96	1.31	43.93M
	147.44	0.36	43.93	147.44	-0.34	0.34	-0.04	0.35	353.53	0.52	335.69M
	204.75	0.52	335.69	204.75	-0.71	0.71	-0.02	0.71	358.29	0.27	189.14M
	324.05	0.78	189.14	324.04	-0.38	0.40	-0.37	0.55	317.18	0.31	326.57M
	382.91	0.23	326.57	382.90	-0.07	0.11	-0.50	0.51	281.89	0.49	250.06M
	412.77	0.34	250.06	412.76	-0.09	0.13	-0.62	0.63	281.47	0.37	118.87M
	442.90	0.19	118.87	442.89	-0.03	0.07	-0.66	0.66	276.14	0.48	328.15M
	531.83	0.85	328.15	531.82	-0.50	0.56	-0.88	1.04	302.55	0.34	289.41M
	563.30	0.97	289.41	563.29	-0.77	0.85	-1.25	1.51	304.08	0.59	355.43M
	651.66	0.44	355.43	651.64	-1.31	1.43	-1.98	2.45	305.85	0.30	334.49M
	741.14	0.59	334.49	741.12	-2.05	2.19	-2.21	3.11	314.76	0.08	327.45M
	750.39	0.71	327.45	750.37	-2.14	2.28	-2.26	3.21	315.27	0.47	304.12M
	783.28	0.52	304.12	783.25	-2.38	2.54	-2.49	3.56	315.50	0.28	203.29M
	812.94	2.32	203.29	812.91	-1.88	2.06	-2.84	3.51	305.96	2.50	197.97M
	842.62	5.16	197.97	842.52	-0.02	0.24	-3.49	3.50	273.94	2.89	20.38L
	872.25	7.16	192.11	871.98	3.09	-2.83	-4.29	5.14	236.57	2.12	50.10L
	901.94	8.22	183.91	901.40	7.04	-6.76	-4.82	8.30	215.52	1.54	19.98L
	931.42	10.19	179.91	930.50	11.76	-11.47	-4.96	12.50	203.40	2.11	0.59L
	960.94	13.95	179.75	959.36	17.91	-17.64	-4.94	18.32	195.66	3.82	3.86L
	990.68	17.52	178.95	987.98	25.96	-25.70	-4.85	26.16	190.68	3.61	8.88L
	1020.40	20.88	177.48	1016.05	35.68	-35.47	-4.53	35.76	187.28	3.43	5.81L
	1050.08	24.28	176.64	1043.45	47.00	-46.85	-3.94	47.02	184.81	3.45	28.71R
	1078.64	25.70	178.42	1069.33	59.00	-58.90	-3.43	59.00	183.33	1.69	43.44R
	1108.28	26.85	180.79	1095.91	72.09	-72.02	-3.34	72.10	182.66	1.58	44.27R
	1137.39	27.64	182.43	1121.79	85.41	-85.34	-3.72	85.42	182.49	1.12	38.72R
	1166.97	28.48	183.83	1147.89	99.32	-99.23	-4.48	99.33	182.59	1.08	20.67R
	1196.40	29.46	184.58	1173.64	113.57	-113.45	-5.53	113.58	182.79	1.07	32.39R
	1225.95	30.16	185.46	1199.28	128.26	-128.08	-6.81	128.26	183.05	0.84	151.55R
	1255.99	29.83	185.82	1225.30	143.27	-143.03	-8.29	143.27	183.32	0.38	65.89R
	1285.37	30.03	186.70	1250.76	157.91	-157.60	-9.89	157.91	183.59	0.49	30.44R
	1315.16	31.09	187.90	1276.41	173.02	-172.62	-11.81	173.02	183.92	1.23	58.07L
	1344.99	31.21	187.53	1301.94	188.41	-187.91	-13.89	188.42	184.23	0.23	121.69L
	1374.68	30.42	184.92	1327.44	203.60	-203.03	-15.54	203.62	184.38	1.57	112.29L

	1404.59	30.04	183.00	1353.28	218.66	-218.05	-16.58	218.68	184.35	1.04	12.90L
	1433.94	31.67	182.29	1378.48	233.71	-233.08	-17.27	233.72	184.24	1.71	151.53L
	1463.79	30.65	181.20	1404.02	249.14	-248.52	-17.75	249.15	184.08	1.17	158.53L
	1493.62	30.04	180.72	1429.77	264.20	-263.59	-18.00	264.20	183.91	0.66	60.36L
	1523.35	30.08	180.58	1455.50	279.07	-278.48	-18.17	279.07	183.73	0.08	64.68R
	1553.11	30.38	181.81	1481.21	294.04	-293.46	-18.48	294.04	183.60	0.69	95.56R
	1583.05	30.31	183.44	1507.05	309.16	-308.57	-19.17	309.16	183.56	0.83	84.97R
	1612.84	30.34	184.08	1532.76	324.20	-323.58	-20.16	324.20	183.56	0.33	63.54L
	1642.12	30.48	183.53	1558.01	339.03	-338.37	-21.14	339.03	183.58	0.32	129.44L
	1671.81	30.16	182.75	1583.64	354.01	-353.33	-21.96	354.01	183.56	0.51	117.45L
	1701.38	29.96	181.97	1609.24	368.82	-368.13	-22.57	368.82	183.51	0.45	12.42R
	1730.84	30.49	182.20	1634.69	383.65	-382.95	-23.11	383.65	183.45	0.55	96.28R
	1760.64	30.44	183.16	1660.38	398.75	-398.04	-23.82	398.75	183.42	0.49	166.46R
	1790.34	29.76	183.49	1686.07	413.65	-412.91	-24.68	413.65	183.42	0.71	170.08L
	1820.04	29.12	183.26	1711.94	428.25	-427.48	-25.54	428.25	183.42	0.66	168.58L
	1849.86	28.05	182.80	1738.12	442.51	-441.73	-26.30	442.51	183.41	1.10	17.22L
	1879.39	28.45	182.54	1764.13	456.49	-455.69	-26.95	456.49	183.38	0.43	22.86L
	1909.08	29.18	181.91	1790.15	470.79	-469.99	-27.50	470.80	183.35	0.80	72.88R
	1938.97	29.25	182.37	1816.24	485.38	-484.57	-28.05	485.38	183.31	0.24	166.53L
	1968.51	27.81	181.63	1842.19	499.48	-498.67	-28.54	499.49	183.28	1.51	178.57R
	1998.05	27.26	181.66	1868.38	513.13	-512.32	-28.94	513.14	183.23	0.56	176.29R
	2028.03	26.98	181.70	1895.07	526.79	-525.98	-29.34	526.80	183.19	0.28	37.10R
	2057.68	29.01	184.81	1921.25	540.70	-539.87	-30.14	540.71	183.20	2.53	71.52R
	2087.27	29.58	188.03	1947.05	555.16	-554.25	-31.76	555.16	183.28	1.70	170.67L
	2116.78	29.55	188.02	1972.72	569.67	-568.67	-33.79	569.68	183.40	0.03	18.10L
	2146.82	30.97	187.12	1998.67	584.77	-583.68	-35.78	584.77	183.51	1.49	46.26L
	2176.36	31.76	185.57	2023.89	600.13	-598.96	-37.48	600.13	183.58	1.15	107.71L
	2206.21	31.48	183.82	2049.31	615.77	-614.55	-38.76	615.77	183.61	0.96	121.49L
	2235.88	31.35	183.41	2074.63	631.24	-629.99	-39.74	631.24	183.61	0.25	40.46R
	2265.38	32.11	184.62	2099.72	646.75	-645.46	-40.83	646.75	183.62	1.01	152.32R
	2295.93	31.69	185.04	2125.66	662.89	-661.55	-42.19	662.89	183.65	0.47	4.12L
	2325.11	33.21	184.84	2150.28	678.54	-677.15	-43.53	678.55	183.68	1.57	5.44R
	2355.31	35.92	185.28	2175.15	695.67	-694.21	-45.05	695.67	183.71	2.70	39.05L
	2385.09	36.82	184.07	2199.13	713.32	-711.81	-46.48	713.33	183.74	1.16	30.95L
	2413.59	37.70	183.21	2221.81	730.58	-729.03	-47.58	730.58	183.73	1.08	1.76L
	2472.44	42.55	182.99	2266.80	768.49	-766.89	-49.62	768.50	183.70	2.47	3.21L
	2502.19	45.34	182.77	2288.21	789.13	-787.51	-50.66	789.14	183.68	2.82	6.16R
	2531.76	48.61	183.24	2308.39	810.75	-809.09	-51.80	810.75	183.66	3.34	12.86L
	2561.19	50.89	182.57	2327.40	833.21	-831.53	-52.93	833.21	183.64	2.38	12.63R
	2578.22	52.52	183.03	2337.96	846.57	-844.87	-53.59	846.57	183.63	2.94	7.28L
	2621.57	53.72	182.84	2363.97	881.24	-879.50	-55.36	881.24	183.60	0.84	121.71R
	2651.30	53.37	183.55	2381.64	905.16	-903.38	-56.69	905.16	183.59	0.68	148.63R
	2681.00	52.50	184.22	2399.54	928.85	-927.02	-58.30	928.85	183.60	1.03	168.04R
	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	952.50	183.62	1.09	178.40L
	2740.27	50.60	184.48	2436.43	975.23	-973.26	-61.88	975.23	183.64	0.85	154.36R
	2770.05	50.01	184.85	2455.46	998.14	-996.10	-63.74	998.14	183.66	0.66	157.77L
	2798.55	47.70	183.57	2474.21	1019.60	-1017.50	-65.32	1019.60	183.67	2.63	168.51L
	2857.04	46.14	183.13	2514.16	1062.32	-1060.15	-67.82	1062.32	183.66	0.82	20.83L
	2886.94	46.56	182.91	2534.79	1083.95	-1081.76	-68.96	1083.95	183.65	0.45	142.09R
	2916.37	46.19	183.31	2555.10	1105.25	-1103.03	-70.12	1105.25	183.64	0.48	151.91R
	2946.06	45.04	184.18	2575.87	1126.47	-1124.20	-71.50	1126.47	183.64	1.32	71.14R
	2970.49	45.14	184.59	2593.11	1143.77	-1141.45	-72.82	1143.77	183.65	0.38	---
Projected to TD	2987.00	45.14	184.59	2604.76	1155.47	-1153.12	-73.76	1155.47	183.66	0.00	---

Survey Type: Non-Def Survey

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom-4 P
97.06	2970.49	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom-4 P
2970.49	2987.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 -> Longtom-4 P

Longtom-4 P Geodetic Survey

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	Rotary Table
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.102°
Survey Name / Date:	Longtom-4 P / June 26, 2008	Total Field Strength:	59796.482 nT
Tort / AHD / DDI / ERD ratio:	102.345° / 1164.28 m / 5.652 / 0.447	Magnetic Dip:	-68.585°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	June 26, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.925°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5781704.50	616897.31	S 38 6 17.707	E 148 19 59.944
Sea Bed	97.03	0.00	0.00	97.03	0.00	0.00	0.00	0.00	5781704.50	616897.31	S 38 6 17.707	E 148 19 59.944
	116.15	0.69	328.34	116.15	-0.09	0.10	-0.06	1.08	5781704.60	616897.25	S 38 6 17.704	E 148 19 59.942
	124.06	0.56	358.29	124.06	-0.17	0.18	-0.09	1.31	5781704.68	616897.22	S 38 6 17.701	E 148 19 59.941
	147.44	0.36	43.93	147.44	-0.34	0.34	-0.04	0.52	5781704.84	616897.27	S 38 6 17.696	E 148 19 59.942
	204.75	0.52	335.69	204.75	-0.71	0.71	-0.02	0.27	5781705.21	616897.29	S 38 6 17.684	E 148 19 59.943
	324.05	0.78	189.14	324.04	-0.38	0.40	-0.37	0.31	5781704.90	616896.94	S 38 6 17.694	E 148 19 59.929
	382.91	0.23	326.57	382.90	-0.07	0.11	-0.50	0.49	5781704.60	616896.81	S 38 6 17.704	E 148 19 59.924
	412.77	0.34	250.06	412.76	-0.09	0.13	-0.62	0.37	5781704.62	616896.69	S 38 6 17.703	E 148 19 59.919
	442.90	0.19	118.87	442.89	-0.03	0.07	-0.66	0.48	5781704.57	616896.65	S 38 6 17.705	E 148 19 59.917
	531.83	0.85	328.15	531.82	-0.50	0.56	-0.88	0.34	5781705.06	616896.43	S 38 6 17.689	E 148 19 59.908
	563.30	0.97	289.41	563.29	-0.77	0.85	-1.25	0.59	5781705.35	616896.06	S 38 6 17.680	E 148 19 59.892
	651.66	0.44	355.43	651.64	-1.31	1.43	-1.98	0.30	5781705.93	616895.33	S 38 6 17.662	E 148 19 59.862
	741.14	0.59	334.49	741.12	-2.05	2.19	-2.21	0.08	5781706.69	616895.10	S 38 6 17.637	E 148 19 59.852
	750.39	0.71	327.45	750.37	-2.14	2.28	-2.26	0.47	5781706.78	616895.05	S 38 6 17.634	E 148 19 59.850
	783.28	0.52	304.12	783.25	-2.38	2.54	-2.49	0.28	5781707.04	616894.82	S 38 6 17.626	E 148 19 59.840
	812.94	2.32	203.29	812.91	-1.88	2.06	-2.84	2.50	5781706.56	616894.47	S 38 6 17.642	E 148 19 59.826
	842.62	5.16	197.97	842.52	-0.02	0.24	-3.49	2.89	5781704.74	616893.82	S 38 6 17.701	E 148 19 59.801
	872.25	7.16	192.11	871.98	3.09	-2.83	-4.29	2.12	5781701.67	616893.02	S 38 6 17.801	E 148 19 59.770
	901.94	8.22	183.91	901.40	7.04	-6.76	-4.82	1.54	5781697.74	616892.49	S 38 6 17.929	E 148 19 59.750
	931.42	10.19	179.91	930.50	11.76	-11.47	-4.96	2.11	5781693.03	616892.35	S 38 6 18.081	E 148 19 59.747
	960.94	13.95	179.75	959.36	17.91	-17.64	-4.94	3.82	5781686.86	616892.37	S 38 6 18.282	E 148 19 59.752
	990.68	17.52	178.95	987.98	25.96	-25.70	-4.85	3.61	5781678.80	616892.46	S 38 6 18.543	E 148 19 59.760
	1020.40	20.88	177.48	1016.05	35.68	-35.47	-4.53	3.43	5781669.04	616892.78	S 38 6 18.860	E 148 19 59.779
	1050.08	24.28	176.64	1043.45	47.00	-46.85	-3.94	3.45	5781657.66	616893.37	S 38 6 19.228	E 148 19 59.810
	1078.64	25.70	178.42	1069.33	59.00	-58.90	-3.43	1.69	5781645.61	616893.88	S 38 6 19.619	E 148 19 59.838
	1108.28	26.85	180.79	1095.91	72.09	-72.02	-3.34	1.58	5781632.49	616893.97	S 38 6 20.044	E 148 19 59.850
	1137.39	27.64	182.43	1121.79	85.41	-85.34	-3.72	1.12	5781619.18	616893.59	S 38 6 20.476	E 148 19 59.842
	1166.97	28.48	183.83	1147.89	99.32	-99.23	-4.48	1.08	5781605.29	616892.83	S 38 6 20.927	E 148 19 59.819
	1196.40	29.46	184.58	1173.64	113.57	-113.45	-5.53	1.07	5781591.08	616891.78	S 38 6 21.389	E 148 19 59.784
	1225.95	30.16	185.46	1199.28	128.26	-128.08	-6.81	0.84	5781576.45	616890.50	S 38 6 21.864	E 148 19 59.740
	1255.99	29.83	185.82	1225.30	143.27	-143.03	-8.29	0.38	5781561.50	616889.02	S 38 6 22.349	E 148 19 59.688
	1285.37	30.03	186.70	1250.76	157.91	-157.60	-9.89	0.49	5781546.94	616887.42	S 38 6 22.823	E 148 19 59.631
	1315.16	31.09	187.90	1276.41	173.02	-172.62	-11.81	1.23	5781531.92	616885.50	S 38 6 23.311	E 148 19 59.561
	1344.99	31.21	187.53	1301.94	188.41	-187.91	-13.89	0.23	5781516.63	616883.43	S 38 6 23.807	E 148 19 59.485
	1374.68	30.42	184.92	1327.44	203.60	-203.03	-15.54	1.57	5781501.52	616881.77	S 38 6 24.298	E 148 19 59.426
	1404.59	30.04	183.00	1353.28	218.66	-218.05	-16.58	1.04	5781486.50	616880.73	S 38 6 24.786	E 148 19 59.392
	1433.94	31.67	182.29	1378.48	233.71	-233.08	-17.27	1.71	5781471.47	616880.04	S 38 6 25.274	E 148 19 59.373
	1463.79	30.65	181.20	1404.02	249.14	-248.52	-17.75	1.17	5781456.03	616879.57	S 38 6 25.775	E 148 19 59.362
	1493.62	30.04	180.72	1429.77	264.20	-263.59	-18.00	0.66	5781440.97	616879.31	S 38 6 26.264	E 148 19 59.361
	1523.35	30.08	180.58	1455.50	279.07	-278.48	-18.17	0.08	5781426.08	616879.15	S 38 6 26.747	E 148 19 59.363

	1553.11	30.38	181.81	1481.21	294.04	-293.46	-18.48	0.69	5781411.11	616878.83	S 38 6 27.232	E 148 19 59.359
	1583.05	30.31	183.44	1507.05	309.16	-308.57	-19.17	0.83	5781396.00	616878.14	S 38 6 27.723	E 148 19 59.339
	1612.84	30.34	184.08	1532.76	324.20	-323.58	-20.16	0.33	5781381.00	616877.15	S 38 6 28.210	E 148 19 59.308
	1642.12	30.48	183.53	1558.01	339.03	-338.37	-21.14	0.32	5781366.21	616876.17	S 38 6 28.690	E 148 19 59.276
	1671.81	30.16	182.75	1583.64	354.01	-353.33	-21.96	0.51	5781351.25	616875.35	S 38 6 29.176	E 148 19 59.251
	1701.38	29.96	181.97	1609.24	368.82	-368.13	-22.57	0.45	5781336.45	616874.74	S 38 6 29.656	E 148 19 59.235
	1730.84	30.49	182.20	1634.69	383.65	-382.95	-23.11	0.55	5781321.64	616874.20	S 38 6 30.137	E 148 19 59.221
	1760.64	30.44	183.16	1660.38	398.75	-398.04	-23.82	0.49	5781306.55	616873.49	S 38 6 30.627	E 148 19 59.201
	1790.34	29.76	183.49	1686.07	413.65	-412.91	-24.68	0.71	5781291.68	616872.63	S 38 6 31.109	E 148 19 59.175
	1820.04	29.12	183.26	1711.94	428.25	-427.48	-25.54	0.66	5781277.11	616871.77	S 38 6 31.582	E 148 19 59.148
	1849.86	28.05	182.80	1738.12	442.51	-441.73	-26.30	1.10	5781262.87	616871.02	S 38 6 32.044	E 148 19 59.125
	1879.39	28.45	182.54	1764.13	456.49	-455.69	-26.95	0.43	5781248.91	616870.37	S 38 6 32.498	E 148 19 59.107
	1909.08	29.18	181.91	1790.15	470.79	-469.99	-27.50	0.80	5781234.62	616869.81	S 38 6 32.962	E 148 19 59.092
	1938.97	29.25	182.37	1816.24	485.38	-484.57	-28.05	0.24	5781220.04	616869.27	S 38 6 33.435	E 148 19 59.079
	1968.51	27.81	181.63	1842.19	499.48	-498.67	-28.54	1.51	5781205.94	616868.77	S 38 6 33.892	E 148 19 59.067
	1998.05	27.26	181.66	1868.38	513.13	-512.32	-28.94	0.56	5781192.30	616868.38	S 38 6 34.335	E 148 19 59.059
	2028.03	26.98	181.70	1895.07	526.79	-525.98	-29.34	0.28	5781178.64	616867.98	S 38 6 34.778	E 148 19 59.050
	2057.68	29.01	184.81	1921.25	540.70	-539.87	-30.14	2.53	5781164.75	616867.18	S 38 6 35.229	E 148 19 59.025
	2087.27	29.58	188.03	1947.05	555.16	-554.25	-31.76	1.70	5781150.37	616865.56	S 38 6 35.696	E 148 19 58.967
	2116.78	29.55	188.02	1972.72	569.67	-568.67	-33.79	0.03	5781135.96	616863.52	S 38 6 36.165	E 148 19 58.892
	2146.82	30.97	187.12	1998.67	584.77	-583.68	-35.78	1.49	5781120.96	616861.53	S 38 6 36.652	E 148 19 58.820
	2176.36	31.76	185.57	2023.89	600.13	-598.96	-37.48	1.15	5781105.68	616859.84	S 38 6 37.148	E 148 19 58.759
	2206.21	31.48	183.82	2049.31	615.77	-614.55	-38.76	0.96	5781090.09	616858.55	S 38 6 37.655	E 148 19 58.715
	2235.88	31.35	183.41	2074.63	631.24	-629.99	-39.74	0.25	5781074.66	616857.58	S 38 6 38.156	E 148 19 58.685
	2265.38	32.11	184.62	2099.72	646.75	-645.46	-40.83	1.01	5781059.19	616856.49	S 38 6 38.658	E 148 19 58.649
	2295.93	31.69	185.04	2125.66	662.89	-661.55	-42.19	0.47	5781043.10	616855.13	S 38 6 39.180	E 148 19 58.603
	2325.11	33.21	184.84	2150.28	678.54	-677.15	-43.53	1.57	5781027.51	616853.79	S 38 6 39.687	E 148 19 58.557
	2355.31	35.92	185.28	2175.15	695.67	-694.21	-45.05	2.70	5781010.45	616852.27	S 38 6 40.241	E 148 19 58.505
	2385.09	36.82	184.07	2199.13	713.32	-711.81	-46.48	1.16	5780992.85	616850.84	S 38 6 40.812	E 148 19 58.456
	2413.59	37.70	183.21	2221.81	730.58	-729.03	-47.58	1.08	5780975.64	616849.74	S 38 6 41.371	E 148 19 58.421
	2472.44	42.55	182.99	2266.80	768.49	-766.89	-49.62	2.47	5780937.79	616847.70	S 38 6 42.600	E 148 19 58.359
	2502.19	45.34	182.77	2288.21	789.13	-787.51	-50.66	2.82	5780917.17	616846.66	S 38 6 43.269	E 148 19 58.329
	2531.76	48.61	183.24	2308.39	810.75	-809.09	-51.80	3.34	5780895.59	616845.52	S 38 6 43.970	E 148 19 58.295
	2561.19	50.89	182.57	2327.40	833.21	-831.53	-52.93	2.38	5780873.17	616844.39	S 38 6 44.698	E 148 19 58.262
	2578.22	52.52	183.03	2337.96	846.57	-844.87	-53.59	2.94	5780859.82	616843.74	S 38 6 45.131	E 148 19 58.243
	2621.57	53.72	182.84	2363.97	881.24	-879.50	-55.36	0.84	5780825.20	616841.96	S 38 6 46.255	E 148 19 58.190
	2651.30	53.37	183.55	2381.64	905.16	-903.38	-56.69	0.68	5780801.33	616840.63	S 38 6 47.030	E 148 19 58.150
	2681.00	52.50	184.22	2399.54	928.85	-927.02	-58.30	1.03	5780777.69	616839.02	S 38 6 47.797	E 148 19 58.098
	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	1.09	5780754.12	616837.23	S 38 6 48.563	E 148 19 58.038
	2740.27	50.60	184.48	2436.43	975.23	-973.26	-61.88	0.85	5780731.46	616835.44	S 38 6 49.298	E 148 19 57.978
	2770.05	50.01	184.85	2455.46	998.14	-996.10	-63.74	0.66	5780708.63	616833.58	S 38 6 50.040	E 148 19 57.915
	2798.55	47.70	183.57	2474.21	1019.60	-1017.50	-65.32	2.63	5780687.23	616832.00	S 38 6 50.735	E 148 19 57.863
	2857.04	46.14	183.13	2514.16	1062.32	-1060.15	-67.82	0.82	5780644.59	616829.50	S 38 6 52.119	E 148 19 57.785
	2886.94	46.56	182.91	2534.79	1083.95	-1081.76	-68.96	0.45	5780622.99	616828.36	S 38 6 52.820	E 148 19 57.751
	2916.37	46.19	183.31	2555.10	1105.25	-1103.03	-70.12	0.48	5780601.73	616827.21	S 38 6 53.510	E 148 19 57.717
	2946.06	45.04	184.18	2575.87	1126.47	-1124.20	-71.50	1.32	5780580.56	616825.83	S 38 6 54.198	E 148 19 57.672
	2970.49	45.14	184.59	2593.11	1143.77	-1141.45	-72.82	0.38	5780563.31	616824.50	S 38 6 54.758	E 148 19 57.628
Projected to TD	2987.00	45.14	184.59	2604.76	1155.47	-1153.12	-73.76	0.00	5780551.65	616823.57	S 38 6 55.136	E 148 19 57.596

Survey Type: Non-Def Survey

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom-4 P
97.06	2970.49	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom-4 P
2970.49	2987.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 -> Longtom-4 P

Longtom-4 P EOU Report

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	Rotary Table
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.102°
Survey Name / Date:	Longtom-4 P / June 26, 2008	Total Field Strength:	59796.482 nT
Tort / AHD / DDI / ERD ratio:	102.345° / 1164.28 m / 5.652 / 0.447	Magnetic Dip:	-68.585°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	June 26, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.925°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Semi-Axis Major NEV (m)	Semi-Axis Minor NEV (m)	EOU Unc Vertical (m)	Major Axis Azimuth NEV (deg)	Survey Tool Model
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.38	0.00	90.00	SLB_MWD+SAG-Depth Only
Sea Bed	97.03	0.00	0.00	97.03	0.00	0.00	0.00	0.00	0.38	0.38	0.98	90.00	SLB_MWD+SAG-Depth Only
	116.15	0.69	328.34	116.15	-0.09	0.10	-0.06	1.08	0.41	0.41	0.98	148.07	SLB_MWD+SAG
	124.06	0.56	358.29	124.06	-0.17	0.18	-0.09	1.31	0.42	0.42	0.98	162.61	SLB_MWD+SAG
	147.44	0.36	43.93	147.44	-0.34	0.34	-0.04	0.52	0.43	0.43	0.98	132.82	SLB_MWD+SAG
	204.75	0.52	335.69	204.75	-0.71	0.71	-0.02	0.27	0.42	0.42	0.99	70.44	SLB_MWD+SAG
	324.05	0.78	189.14	324.04	-0.38	0.40	-0.37	0.31	0.70	0.70	1.00	12.09	SLB_MWD+SAG
	382.91	0.23	326.57	382.90	-0.07	0.11	-0.50	0.49	0.70	0.70	1.01	5.07	SLB_MWD+SAG
	412.77	0.34	250.06	412.76	-0.09	0.13	-0.62	0.37	0.69	0.69	1.02	178.74	SLB_MWD+SAG
	442.90	0.19	118.87	442.89	-0.03	0.07	-0.66	0.48	0.73	0.73	1.02	17.36	SLB_MWD+SAG
	531.83	0.85	328.15	531.82	-0.50	0.56	-0.88	0.34	0.62	0.62	1.04	13.84	SLB_MWD+SAG
	563.30	0.97	289.41	563.29	-0.77	0.85	-1.25	0.59	0.61	0.61	1.05	20.77	SLB_MWD+SAG
	651.66	0.44	355.43	651.64	-1.31	1.43	-1.98	0.30	0.69	0.68	1.07	14.63	SLB_MWD+SAG
	741.14	0.59	334.49	741.12	-2.05	2.19	-2.21	0.08	0.62	0.61	1.10	49.59	SLB_MWD+SAG
	750.39	0.71	327.45	750.37	-2.14	2.28	-2.26	0.47	0.61	0.59	1.10	49.22	SLB_MWD+SAG
	783.28	0.52	304.12	783.25	-2.38	2.54	-2.49	0.28	0.64	0.62	1.11	36.28	SLB_MWD+SAG
	812.94	2.32	203.29	812.91	-1.88	2.06	-2.84	2.50	0.73	0.72	1.12	26.45	SLB_MWD+SAG
	842.62	5.16	197.97	842.52	-0.02	0.24	-3.49	2.89	0.82	0.81	1.13	13.92	SLB_MWD+SAG
	872.25	7.16	192.11	871.98	3.09	-2.83	-4.29	2.12	0.92	0.91	1.14	175.46	SLB_MWD+SAG
	901.94	8.22	183.91	901.40	7.04	-6.76	-4.82	1.54	1.01	0.99	1.15	130.42	SLB_MWD+SAG
	931.42	10.19	179.91	930.50	11.76	-11.47	-4.96	2.11	1.12	1.07	1.16	106.74	SLB_MWD+SAG
	960.94	13.95	179.75	959.36	17.91	-17.64	-4.94	3.82	1.27	1.16	1.17	99.65	SLB_MWD+SAG
	990.68	17.52	178.95	987.98	25.96	-25.70	-4.85	3.61	1.46	1.26	1.19	95.96	SLB_MWD+SAG
	1020.40	20.88	177.48	1016.05	35.68	-35.47	-4.53	3.43	1.69	1.35	1.20	93.31	SLB_MWD+SAG
	1050.08	24.28	176.64	1043.45	47.00	-46.85	-3.94	3.45	1.96	1.43	1.22	91.51	SLB_MWD+SAG
	1078.64	25.70	178.42	1069.33	59.00	-58.90	-3.43	1.69	2.26	1.52	1.24	91.04	SLB_MWD+SAG
	1108.28	26.85	180.79	1095.91	72.09	-72.02	-3.34	1.58	2.57	1.59	1.26	91.14	SLB_MWD+SAG
	1137.39	27.64	182.43	1121.79	85.41	-85.34	-3.72	1.12	2.89	1.66	1.29	91.38	SLB_MWD+SAG
	1166.97	28.48	183.83	1147.89	99.32	-99.23	-4.48	1.08	3.23	1.74	1.32	91.72	SLB_MWD+SAG
	1196.40	29.46	184.58	1173.64	113.57	-113.45	-5.53	1.07	3.60	1.82	1.35	92.02	SLB_MWD+SAG
	1225.95	30.16	185.46	1199.28	128.26	-128.08	-6.81	0.84	3.97	1.90	1.38	92.36	SLB_MWD+SAG
	1255.99	29.83	185.82	1225.30	143.27	-143.03	-8.29	0.38	4.30	1.93	1.40	92.64	SLB_MWD+SAG
	1285.37	30.03	186.70	1250.76	157.91	-157.60	-9.89	0.49	4.61	1.94	1.42	93.00	SLB_MWD+SAG
	1315.16	31.09	187.90	1276.41	173.02	-172.62	-11.81	1.23	4.99	2.01	1.46	93.42	SLB_MWD+SAG
	1344.99	31.21	187.53	1301.94	188.41	-187.91	-13.89	0.23	5.37	2.08	1.49	93.62	SLB_MWD+SAG
	1374.68	30.42	184.92	1327.44	203.60	-203.03	-15.54	1.57	5.70	2.10	1.50	93.48	SLB_MWD+SAG
	1404.59	30.04	183.00	1353.28	218.66	-218.05	-16.58	1.04	6.01	2.09	1.51	93.28	SLB_MWD+SAG
	1433.94	31.67	182.29	1378.48	233.71	-233.08	-17.27	1.71	6.37	2.13	1.54	93.13	SLB_MWD+SAG
	1463.79	30.65	181.20	1404.02	249.14	-248.52	-17.75	1.17	6.73	2.17	1.56	92.92	SLB_MWD+SAG
	1493.62	30.04	180.72	1429.77	264.20	-263.59	-18.00	0.66	7.04	2.14	1.57	92.75	SLB_MWD+SAG
	1523.35	30.08	180.58	1455.50	279.07	-278.48	-18.17	0.08	7.38	2.16	1.59	92.60	SLB_MWD+SAG
	1553.11	30.38	181.81	1481.21	294.04	-293.46	-18.48	0.69	7.75	2.22	1.62	92.58	SLB_MWD+SAG
	1583.05	30.31	183.44	1507.05	309.16	-308.57	-19.17	0.83	8.11	2.27	1.65	92.67	SLB_MWD+SAG
	1612.84	30.34	184.08	1532.76	324.20	-323.58	-20.16	0.33	8.47	2.31	1.68	92.73	SLB_MWD+SAG
	1642.12	30.48	183.53	1558.01	339.03	-338.37	-21.14	0.32	8.83	2.36	1.71	92.70	SLB_MWD+SAG

	1671.81	30.16	182.75	1583.64	354.01	-353.33	-21.96	0.51	9.18	2.39	1.73	92.63	SLB_MWD+SAG
	1701.38	29.96	181.97	1609.24	368.82	-368.13	-22.57	0.45	9.51	2.40	1.75	92.53	SLB_MWD+SAG
	1730.84	30.49	182.20	1634.69	383.65	-382.95	-23.11	0.55	9.88	2.45	1.78	92.50	SLB_MWD+SAG
	1760.64	30.44	183.16	1660.38	398.75	-398.04	-23.82	0.49	10.25	2.51	1.81	92.53	SLB_MWD+SAG
	1790.34	29.76	183.49	1686.07	413.65	-412.91	-24.68	0.71	10.59	2.53	1.83	92.55	SLB_MWD+SAG
	1820.04	29.12	183.26	1711.94	428.25	-427.48	-25.54	0.66	10.92	2.52	1.84	92.54	SLB_MWD+SAG
	1849.86	28.05	182.80	1738.12	442.51	-441.73	-26.30	1.10	11.24	2.52	1.86	92.51	SLB_MWD+SAG
	1879.39	28.45	182.54	1764.13	456.49	-455.69	-26.95	0.43	11.57	2.56	1.89	92.47	SLB_MWD+SAG
	1909.08	29.18	181.91	1790.15	470.79	-469.99	-27.50	0.80	11.93	2.64	1.93	92.40	SLB_MWD+SAG
	1938.97	29.25	182.37	1816.24	485.38	-484.57	-28.05	0.24	12.30	2.72	1.96	92.39	SLB_MWD+SAG
	1968.51	27.81	181.63	1842.19	499.48	-498.67	-28.54	1.51	12.63	2.75	1.98	92.32	SLB_MWD+SAG
	1998.05	27.26	181.66	1868.38	513.13	-512.32	-28.94	0.56	12.94	2.75	2.00	92.29	SLB_MWD+SAG
	2028.03	26.98	181.70	1895.07	526.79	-525.98	-29.34	0.28	13.26	2.76	2.02	92.25	SLB_MWD+SAG
	2057.68	29.01	184.81	1921.25	540.70	-539.87	-30.14	2.53	13.59	2.80	2.06	92.41	SLB_MWD+SAG
	2087.27	29.58	188.03	1947.05	555.16	-554.25	-31.76	1.70	13.95	2.90	2.10	92.63	SLB_MWD+SAG
	2116.78	29.55	188.02	1972.72	569.67	-568.67	-33.79	0.03	14.29	2.93	2.13	92.74	SLB_MWD+SAG
	2146.82	30.97	187.12	1998.67	584.77	-583.68	-35.78	1.49	14.65	2.96	2.17	92.80	SLB_MWD+SAG
	2176.36	31.76	185.57	2023.89	600.13	-598.96	-37.48	1.15	15.04	3.03	2.21	92.80	SLB_MWD+SAG
	2206.21	31.48	183.82	2049.31	615.77	-614.55	-38.76	0.96	15.42	3.08	2.23	92.75	SLB_MWD+SAG
	2235.88	31.35	183.41	2074.63	631.24	-629.99	-39.74	0.25	15.78	3.11	2.26	92.73	SLB_MWD+SAG
	2265.38	32.11	184.62	2099.72	646.75	-645.46	-40.83	1.01	16.16	3.17	2.30	92.79	SLB_MWD+SAG
	2295.93	31.69	185.04	2125.66	662.89	-661.55	-42.19	0.47	16.55	3.22	2.34	92.83	SLB_MWD+SAG
	2325.11	33.21	184.84	2150.28	678.54	-677.15	-43.53	1.57	16.93	3.27	2.38	92.85	SLB_MWD+SAG
	2355.31	35.92	185.28	2175.15	695.67	-694.21	-45.05	2.70	17.36	3.34	2.45	92.90	SLB_MWD+SAG
	2385.09	36.82	184.07	2199.13	713.32	-711.81	-46.48	1.16	17.80	3.42	2.50	92.88	SLB_MWD+SAG
	2413.59	37.70	183.21	2221.81	730.58	-729.03	-47.58	1.08	18.23	3.49	2.55	92.84	SLB_MWD+SAG
	2472.44	42.55	182.99	2266.80	768.49	-766.89	-49.62	2.47	19.19	3.63	2.70	92.80	SLB_MWD+SAG
	2502.19	45.34	182.77	2288.21	789.13	-787.51	-50.66	2.82	19.71	3.71	2.78	92.77	SLB_MWD+SAG
	2531.76	48.61	183.24	2308.39	810.75	-809.09	-51.80	3.34	20.26	3.78	2.87	92.77	SLB_MWD+SAG
	2561.19	50.89	182.57	2327.40	833.21	-831.53	-52.93	2.38	20.83	3.85	2.96	92.73	SLB_MWD+SAG
	2578.22	52.52	183.03	2337.96	846.57	-844.87	-53.59	2.94	21.17	3.89	3.02	92.73	SLB_MWD+SAG
	2621.57	53.72	182.84	2363.97	881.24	-879.50	-55.36	0.84	22.06	3.99	3.15	92.70	SLB_MWD+SAG
	2651.30	53.37	183.55	2381.64	905.16	-903.38	-56.69	0.68	22.65	4.06	3.21	92.71	SLB_MWD+SAG
	2681.00	52.50	184.22	2399.54	928.85	-927.02	-58.30	1.03	23.20	4.10	3.26	92.73	SLB_MWD+SAG
	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	1.09	23.74	4.14	3.30	92.76	SLB_MWD+SAG
	2740.27	50.60	184.48	2436.43	975.23	-973.26	-61.88	0.85	24.26	4.17	3.34	92.78	SLB_MWD+SAG
	2770.05	50.01	184.85	2455.46	998.14	-996.10	-63.74	0.66	24.80	4.21	3.39	92.81	SLB_MWD+SAG
	2798.55	47.70	183.57	2474.21	1019.60	-1017.50	-65.32	2.63	25.30	4.26	3.42	92.79	SLB_MWD+SAG
	2857.04	46.14	183.13	2514.16	1062.32	-1060.15	-67.82	0.82	26.31	4.33	3.51	92.76	SLB_MWD+SAG
	2886.94	46.56	182.91	2534.79	1083.95	-1081.76	-68.96	0.45	26.83	4.39	3.57	92.75	SLB_MWD+SAG
	2916.37	46.19	183.31	2555.10	1105.25	-1103.03	-70.12	0.48	27.35	4.45	3.63	92.75	SLB_MWD+SAG
	2946.06	45.04	184.18	2575.87	1126.47	-1124.20	-71.50	1.32	27.86	4.50	3.67	92.77	SLB_MWD+SAG
	2970.49	45.14	184.59	2593.11	1143.77	-1141.45	-72.82	0.38	28.28	4.55	3.72	92.79	SLB_MWD+SAG
Projected to TD	2987.00	45.14	184.59	2604.76	1155.47	-1153.12	-73.76	0.00	31.29	4.85	3.73	92.97	SLB_BLIND+TREND

Survey Type: Non-Def Survey
NOTES: Only depth error sources are used from surface to mud-line.
Structure Uncertainty: 0.00 m Included
Slot Uncertainty: 0.00 m Included
Hole Diameter: 30.00 in Included
Global Error Sources Used: YES
Along-Hole Depth Uncertainty: At survey stations

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**
Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom-4 P
97.06	2970.49	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom-4 P
2970.49	2987.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 -> Longtom-4 P

Longtom-4 H Survey Report

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	RKB
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4 H	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.095°
Survey Name / Date:	Longtom-4 HZ (RM) / August 5, 2008	Total Field Strength:	59818.482 nT
Tort / AHD / DDI / ERD ratio:	251.772° / 2838.82 m / 6.607 / 1.053	Magnetic Dip:	-68.570°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	August 05, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.918°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	Closure (m)	Closure Azimuth (deg)	DLS (deg/30 m)	Mag / Grav Tool Face (deg)
Tie-In	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	952.50	183.62	1.09	128.57L
	2733.77	49.85	181.87	2432.46	970.09	-968.16	-61.08	970.09	183.61	3.40	66.38L
	2763.58	51.38	177.62	2451.38	993.06	-991.19	-60.97	993.06	183.52	3.65	32.82L
	2792.31	53.01	176.31	2468.99	1015.61	-1013.86	-59.76	1015.62	183.37	2.02	21.31R
	2820.01	54.07	176.82	2485.45	1037.72	-1036.09	-58.43	1037.74	183.23	1.23	72.78R
	2850.81	54.91	179.97	2503.34	1062.69	-1061.15	-57.73	1062.72	183.11	2.63	65.59R
	2881.69	57.25	185.74	2520.58	1088.29	-1086.72	-59.02	1088.33	183.11	5.18	21.39R
	2911.49	62.80	188.17	2535.47	1114.05	-1112.33	-62.16	1114.07	183.20	5.97	13.05R
	2941.41	65.11	188.76	2548.60	1140.83	-1138.92	-66.12	1140.84	183.32	2.38	12.37R
Xceed Surveys	2957.37	66.49	189.09	2555.15	1155.32	-1153.30	-68.38	1155.33	183.39	2.65	24.75R
Xceed Surveys	2987.28	68.43	190.05	2566.61	1182.79	-1180.54	-72.97	1182.79	183.54	2.14	29.61L
Xceed Surveys	3016.23	69.92	189.15	2576.90	1209.70	-1207.22	-77.48	1209.70	183.67	1.77	58.29L
Xceed Surveys	3046.70	71.87	185.88	2586.88	1238.42	-1235.76	-81.24	1238.43	183.76	3.60	30.02L
Xceed Surveys	3076.34	72.83	185.30	2595.87	1266.64	-1263.87	-84.00	1266.66	183.80	1.12	63.66R
Xceed Surveys	3106.22	72.92	185.49	2604.66	1295.18	-1292.30	-86.68	1295.20	183.84	0.20	13.04R
Xceed Surveys	3136.04	75.98	186.22	2612.66	1323.89	-1320.87	-89.61	1323.91	183.88	3.16	13.11L
Xceed Surveys	3164.24	80.13	185.24	2618.49	1351.45	-1348.32	-92.36	1351.48	183.92	4.53	132.68R
Xceed Surveys	3194.93	79.46	185.98	2623.93	1381.63	-1378.38	-95.32	1381.67	183.96	0.97	38.62L
Xceed Surveys	3224.35	81.52	184.32	2628.79	1410.63	-1407.27	-97.92	1410.67	183.98	2.68	5.35L
Xceed Surveys	3254.13	84.39	184.05	2632.44	1440.18	-1436.75	-100.08	1440.23	183.98	2.90	51.35L
Xceed Surveys	3283.78	87.22	180.52	2634.61	1469.74	-1466.28	-101.25	1469.78	183.95	4.57	18.23L
Xceed Surveys	3313.51	90.41	179.47	2635.23	1499.40	-1496.00	-101.25	1499.43	183.87	3.39	47.27R
Xceed Surveys	3343.47	93.13	182.42	2634.30	1529.31	-1525.94	-101.74	1529.33	183.81	4.02	42.58L
Xceed Surveys	3373.36	94.02	181.60	2632.44	1559.13	-1555.75	-102.79	1559.14	183.78	1.21	91.60L
Xceed Surveys	3402.75	93.92	178.26	2630.40	1588.39	-1585.07	-102.75	1588.39	183.71	3.40	176.10L
Xceed Surveys	3431.88	91.13	178.07	2629.12	1617.36	-1614.15	-101.82	1617.36	183.61	2.88	51.42R
Xceed Surveys	3461.34	91.68	178.76	2628.40	1646.69	-1643.59	-101.01	1646.69	183.52	0.90	95.25R
Xceed Surveys	3492.03	91.51	180.60	2627.54	1677.30	-1674.27	-100.84	1677.30	183.45	1.81	97.92L
Xceed Surveys	3521.63	91.27	178.88	2626.82	1706.82	-1703.86	-100.70	1706.83	183.38	1.76	84.99R
Xceed Surveys	3551.39	91.44	180.83	2626.12	1736.51	-1733.61	-100.63	1736.53	183.32	1.97	164.07R
MWD Surveys	3564.74	91.37	180.85	2625.79	1749.84	-1746.95	-100.82	1749.86	183.30	0.16	53.12R
	3594.59	91.46	180.97	2625.06	1779.65	-1776.79	-101.30	1779.67	183.26	0.15	90.00R
	3624.29	91.46	182.60	2624.30	1809.33	-1806.46	-102.22	1809.35	183.24	1.65	83.15R
	3653.86	91.66	184.27	2623.49	1838.89	-1835.97	-103.99	1838.91	183.24	1.71	159.95L
	3684.08	90.29	183.77	2622.98	1869.10	-1866.11	-106.11	1869.12	183.25	1.45	113.41R
	3711.90	89.74	185.04	2622.97	1896.91	-1893.85	-108.25	1896.94	183.27	1.49	171.00L

	3740.99	88.54	184.85	2623.41	1925.99	-1922.82	-110.75	1926.01	183.30	1.25	175.87L
	3770.39	85.50	184.63	2624.94	1955.34	-1952.08	-113.18	1955.36	183.32	3.11	180.00L
	3799.79	83.81	184.62	2627.68	1984.61	-1981.26	-115.54	1984.62	183.34	1.72	140.62L
	3829.12	82.94	183.90	2631.06	2013.74	-2010.31	-117.70	2013.75	183.35	1.15	31.93L
	3859.22	84.01	183.23	2634.48	2043.64	-2040.16	-119.56	2043.66	183.35	1.26	4.58L
	3888.65	86.13	183.06	2637.01	2072.96	-2069.43	-121.17	2072.98	183.35	2.17	43.10R
	3918.67	88.74	185.50	2638.35	2102.95	-2099.33	-123.41	2102.96	183.36	3.57	40.87R
	3948.20	89.63	186.27	2638.77	2132.45	-2128.70	-126.44	2132.46	183.40	1.20	165.53L
	3977.71	86.96	185.58	2639.65	2161.92	-2158.04	-129.48	2161.92	183.43	2.80	155.56L
	4006.54	83.81	184.14	2641.97	2190.64	-2186.67	-131.92	2190.64	183.45	3.60	152.21L
	4035.61	82.10	183.23	2645.54	2219.49	-2215.46	-133.77	2219.49	183.46	2.00	78.20R
	4065.35	82.21	183.76	2649.60	2248.95	-2244.87	-135.57	2248.96	183.46	0.54	173.43L
	4094.84	79.90	183.49	2654.18	2278.08	-2273.94	-137.41	2278.08	183.46	2.37	176.89R
	4124.38	77.56	183.62	2659.95	2307.05	-2302.85	-139.21	2307.05	183.46	2.38	45.16R
	4153.91	78.91	185.00	2665.97	2335.96	-2331.68	-141.38	2335.96	183.47	1.94	42.14R
	4183.07	81.41	187.28	2670.96	2364.65	-2360.24	-144.45	2364.65	183.50	3.46	41.33R
	4212.97	85.21	190.62	2674.44	2394.21	-2389.56	-149.08	2394.21	183.57	5.06	35.13R
	4242.27	89.94	193.94	2675.68	2423.13	-2418.15	-155.30	2423.14	183.67	5.91	33.04R
	4270.99	92.69	195.73	2675.02	2451.28	-2445.91	-162.65	2451.31	183.80	3.43	174.81R
	4301.34	92.03	195.79	2673.77	2480.92	-2475.09	-170.89	2480.98	183.95	0.66	10.13L
	4331.00	92.98	195.62	2672.48	2509.89	-2503.61	-178.91	2510.00	184.09	0.98	174.03L
	4360.69	90.97	195.41	2671.45	2538.91	-2532.20	-186.85	2539.09	184.22	2.04	146.24L
	4390.61	87.74	193.25	2671.79	2568.30	-2561.19	-194.25	2568.54	184.34	3.90	133.75L
	4419.25	84.58	189.93	2673.71	2596.59	-2589.17	-199.99	2596.88	184.42	4.80	21.09R
	4448.12	85.64	190.34	2676.17	2625.16	-2617.49	-205.05	2625.51	184.48	1.18	123.26R
	4478.07	84.87	191.52	2678.65	2654.76	-2646.79	-210.71	2655.17	184.55	1.41	99.94R
	4507.60	84.61	193.02	2681.35	2683.82	-2675.52	-216.96	2684.31	184.64	1.54	99.79L
	4538.99	84.55	192.67	2684.32	2714.66	-2705.99	-223.91	2715.24	184.73	0.34	82.98L
	4568.77	84.96	189.40	2687.04	2744.06	-2735.10	-229.58	2744.71	184.80	3.31	92.19L
	4598.48	84.84	186.02	2689.68	2773.57	-2764.42	-233.55	2774.26	184.83	3.40	175.25L
	4627.92	82.10	185.79	2693.03	2802.79	-2793.51	-236.56	2803.51	184.84	2.80	170.87L
Xceed Survey	4643.88	80.20	185.48	2695.49	2818.55	-2809.20	-238.11	2819.27	184.84	3.62	---
Projected to TD	4648.00	80.20	185.48	2696.19	2822.61	-2813.24	-238.50	2823.33	184.85	0.00	---

Survey Type: Definitive Survey

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
97.06	2711.02	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
2711.02	4643.88	Act-Stns	SLB_MWD+SAG	Longtom-4 H -> Longtom-4 HZ (RM)
4643.88	4648.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 H -> Longtom-4 HZ (RM)

Longtom-4 H Geodetic Survey

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	RKB
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4 H	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.095°
Survey Name / Date:	Longtom-4 HZ (RM) / August 5, 2008	Total Field Strength:	59818.482 nT
Tort / AHD / DDI / ERD ratio:	251.772° / 2838.82 m / 6.607 / 1.053	Magnetic Dip:	-68.570°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	August 05, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.918°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	1.09	5780754.12	616837.23	S 38 6 48.563	E 148 19 58.038
	2733.77	49.85	181.87	2432.46	970.09	-968.16	-61.08	3.40	5780736.56	616836.24	S 38 6 49.133	E 148 19 58.008
	2763.58	51.38	177.62	2451.38	993.06	-991.19	-60.97	3.65	5780713.54	616836.36	S 38 6 49.879	E 148 19 58.026
	2792.31	53.01	176.31	2468.99	1015.61	-1013.86	-59.76	2.02	5780690.88	616837.56	S 38 6 50.614	E 148 19 58.089
	2820.01	54.07	176.82	2485.45	1037.72	-1036.09	-58.43	1.23	5780668.64	616838.89	S 38 6 51.334	E 148 19 58.157
	2850.81	54.91	179.97	2503.34	1062.69	-1061.15	-57.73	2.63	5780643.59	616839.59	S 38 6 52.147	E 148 19 58.200
	2881.69	57.25	185.74	2520.58	1088.29	-1086.72	-59.02	5.18	5780618.03	616838.30	S 38 6 52.977	E 148 19 58.162
	2911.49	62.80	188.17	2535.47	1114.05	-1112.33	-62.16	5.97	5780592.42	616835.16	S 38 6 53.808	E 148 19 58.048
	2941.41	65.11	188.76	2548.60	1140.83	-1138.92	-66.12	2.38	5780565.84	616831.20	S 38 6 54.673	E 148 19 57.902
Xceed Surveys	2957.37	66.49	189.09	2555.15	1155.32	-1153.30	-68.38	2.65	5780551.47	616828.95	S 38 6 55.140	E 148 19 57.817
Xceed Surveys	2987.28	68.43	190.05	2566.61	1182.79	-1180.54	-72.97	2.14	5780524.23	616824.35	S 38 6 56.025	E 148 19 57.645
Xceed Surveys	3016.23	69.92	189.15	2576.90	1209.70	-1207.22	-77.48	1.77	5780497.56	616819.84	S 38 6 56.893	E 148 19 57.475
Xceed Surveys	3046.70	71.87	185.88	2586.88	1238.42	-1235.76	-81.24	3.60	5780469.03	616816.08	S 38 6 57.820	E 148 19 57.338
Xceed Surveys	3076.34	72.83	185.30	2595.87	1266.64	-1263.87	-84.00	1.12	5780440.92	616813.33	S 38 6 58.733	E 148 19 57.242
Xceed Surveys	3106.22	72.92	185.49	2604.66	1295.18	-1292.30	-86.68	0.20	5780412.50	616810.65	S 38 6 59.656	E 148 19 57.148
Xceed Surveys	3136.04	75.98	186.22	2612.66	1323.89	-1320.87	-89.61	3.16	5780383.93	616807.72	S 38 7 0.584	E 148 19 57.045
Xceed Surveys	3164.24	80.13	185.24	2618.49	1351.45	-1348.32	-92.36	4.53	5780356.50	616804.97	S 38 7 1.475	E 148 19 56.948
Xceed Surveys	3194.93	79.46	185.98	2623.93	1381.63	-1378.38	-95.32	0.97	5780326.44	616802.01	S 38 7 2.452	E 148 19 56.844
Xceed Surveys	3224.35	81.52	184.32	2628.79	1410.63	-1407.27	-97.92	2.68	5780297.55	616799.41	S 38 7 3.390	E 148 19 56.755
Xceed Surveys	3254.13	84.39	184.05	2632.44	1440.18	-1436.75	-100.08	2.90	5780268.09	616797.26	S 38 7 4.347	E 148 19 56.683
Xceed Surveys	3283.78	87.22	180.52	2634.61	1469.74	-1466.28	-101.25	4.57	5780238.55	616796.08	S 38 7 5.305	E 148 19 56.653
Xceed Surveys	3313.51	90.41	179.47	2635.23	1499.40	-1496.00	-101.25	3.39	5780208.84	616796.08	S 38 7 6.269	E 148 19 56.670
Xceed Surveys	3343.47	93.13	182.42	2634.30	1529.31	-1525.94	-101.74	4.02	5780178.91	616795.59	S 38 7 7.240	E 148 19 56.668
Xceed Surveys	3373.36	94.02	181.60	2632.44	1559.13	-1555.75	-102.79	1.21	5780149.11	616794.54	S 38 7 8.207	E 148 19 56.642
Xceed Surveys	3402.75	93.92	178.26	2630.40	1588.39	-1585.07	-102.75	3.40	5780119.80	616794.58	S 38 7 9.158	E 148 19 56.661
Xceed Surveys	3431.88	91.13	178.07	2629.12	1617.36	-1614.15	-101.82	2.88	5780090.72	616795.51	S 38 7 10.101	E 148 19 56.716
Xceed Surveys	3461.34	91.68	178.76	2628.40	1646.69	-1643.59	-101.01	0.90	5780061.29	616796.32	S 38 7 11.055	E 148 19 56.767
Xceed Surveys	3492.03	91.51	180.60	2627.54	1677.30	-1674.27	-100.84	1.81	5780030.62	616796.50	S 38 7 12.050	E 148 19 56.792
Xceed Surveys	3521.63	91.27	178.88	2626.82	1706.82	-1703.86	-100.70	1.76	5780001.04	616796.63	S 38 7 13.009	E 148 19 56.815
Xceed Surveys	3551.39	91.44	180.83	2626.12	1736.51	-1733.61	-100.63	1.97	5779971.29	616796.71	S 38 7 13.974	E 148 19 56.836
MWD Surveys	3564.74	91.37	180.85	2625.79	1749.84	-1746.95	-100.82	0.16	5779957.95	616796.51	S 38 7 14.407	E 148 19 56.836
	3594.59	91.46	180.97	2625.06	1779.65	-1776.79	-101.30	0.15	5779928.12	616796.04	S 38 7 15.375	E 148 19 56.834
	3624.29	91.46	182.60	2624.30	1809.33	-1806.46	-102.22	1.65	5779898.45	616795.11	S 38 7 16.337	E 148 19 56.813
	3653.86	91.66	184.27	2623.49	1838.89	-1835.97	-103.99	1.71	5779868.96	616793.34	S 38 7 17.295	E 148 19 56.758
	3684.08	90.29	183.77	2622.98	1869.10	-1866.11	-106.11	1.45	5779838.82	616791.22	S 38 7 18.273	E 148 19 56.689
	3711.90	89.74	185.04	2622.97	1896.91	-1893.85	-108.25	1.49	5779811.09	616789.09	S 38 7 19.174	E 148 19 56.617
	3740.99	88.54	184.85	2623.41	1925.99	-1922.82	-110.75	1.25	5779782.12	616786.58	S 38 7 20.115	E 148 19 56.532
	3770.39	85.50	184.63	2624.94	1955.34	-1952.08	-113.18	3.11	5779752.87	616784.16	S 38 7 21.065	E 148 19 56.449
	3799.79	83.81	184.62	2627.68	1984.61	-1981.26	-115.54	1.72	5779723.70	616781.80	S 38 7 22.012	E 148 19 56.370
	3829.12	82.94	183.90	2631.06	2013.74	-2010.31	-117.70	1.15	5779694.65	616779.63	S 38 7 22.955	E 148 19 56.298
	3859.22	84.01	183.23	2634.48	2043.64	-2040.16	-119.56	1.26	5779664.82	616777.77	S 38 7 23.924	E 148 19 56.239

	3888.65	86.13	183.06	2637.01	2072.96	-2069.43	-121.17	2.17	5779635.55	616776.16	S 38 7 24.874	E 148 19 56.190
	3918.67	88.74	185.50	2638.35	2102.95	-2099.33	-123.41	3.57	5779605.65	616773.93	S 38 7 25.845	E 148 19 56.116
	3948.20	89.63	186.27	2638.77	2132.45	-2128.70	-126.44	1.20	5779576.29	616770.90	S 38 7 26.799	E 148 19 56.009
	3977.71	86.96	185.58	2639.65	2161.92	-2158.04	-129.48	2.80	5779546.96	616767.86	S 38 7 27.752	E 148 19 55.901
	4006.54	83.81	184.14	2641.97	2190.64	-2186.67	-131.92	3.60	5779518.34	616765.42	S 38 7 28.681	E 148 19 55.818
	4035.61	82.10	183.23	2645.54	2219.49	-2215.46	-133.77	2.00	5779489.55	616763.57	S 38 7 29.616	E 148 19 55.759
	4065.35	82.21	183.76	2649.60	2248.95	-2244.87	-135.57	0.54	5779460.15	616761.77	S 38 7 30.570	E 148 19 55.703
	4094.84	79.90	183.49	2654.18	2278.08	-2273.94	-137.41	2.37	5779431.09	616759.93	S 38 7 31.514	E 148 19 55.644
	4124.38	77.56	183.62	2659.95	2307.05	-2302.85	-139.21	2.38	5779402.18	616758.13	S 38 7 32.452	E 148 19 55.588
	4153.91	78.91	185.00	2665.97	2335.96	-2331.68	-141.38	1.94	5779373.36	616755.96	S 38 7 33.388	E 148 19 55.515
	4183.07	81.41	187.28	2670.96	2364.65	-2360.24	-144.45	3.46	5779344.81	616752.89	S 38 7 34.316	E 148 19 55.406
	4212.97	85.21	190.62	2674.44	2394.21	-2389.56	-149.08	5.06	5779315.49	616748.27	S 38 7 35.269	E 148 19 55.233
	4242.27	89.94	193.94	2675.68	2423.13	-2418.15	-155.30	5.91	5779286.91	616742.04	S 38 7 36.199	E 148 19 54.995
	4270.99	92.69	195.73	2675.02	2451.28	-2445.91	-162.65	3.43	5779259.16	616734.69	S 38 7 37.102	E 148 19 54.709
	4301.34	92.03	195.79	2673.77	2480.92	-2475.09	-170.89	0.66	5779229.98	616726.46	S 38 7 38.053	E 148 19 54.388
	4331.00	92.98	195.62	2672.48	2509.89	-2503.61	-178.91	0.98	5779201.46	616718.44	S 38 7 38.981	E 148 19 54.076
	4360.69	90.97	195.41	2671.45	2538.91	-2532.20	-186.85	2.04	5779172.88	616710.51	S 38 7 39.912	E 148 19 53.767
	4390.61	87.74	193.25	2671.79	2568.30	-2561.19	-194.25	3.90	5779143.91	616703.10	S 38 7 40.855	E 148 19 53.480
	4419.25	84.58	189.93	2673.71	2596.59	-2589.17	-199.99	4.80	5779115.93	616697.37	S 38 7 41.766	E 148 19 53.261
	4448.12	85.64	190.34	2676.17	2625.16	-2617.49	-205.05	1.18	5779087.62	616692.30	S 38 7 42.686	E 148 19 53.070
	4478.07	84.87	191.52	2678.65	2654.76	-2646.79	-210.71	1.41	5779058.32	616686.65	S 38 7 43.639	E 148 19 52.855
	4507.60	84.61	193.02	2681.35	2683.82	-2675.52	-216.96	1.54	5779029.59	616680.40	S 38 7 44.574	E 148 19 52.615
	4538.99	84.55	192.67	2684.32	2714.66	-2705.99	-223.91	0.34	5778999.13	616673.45	S 38 7 45.565	E 148 19 52.348
	4568.77	84.96	189.40	2687.04	2744.06	-2735.10	-229.58	3.31	5778970.04	616667.78	S 38 7 46.512	E 148 19 52.132
	4598.48	84.84	186.02	2689.68	2773.57	-2764.42	-233.55	3.40	5778940.72	616663.81	S 38 7 47.464	E 148 19 51.986
	4627.92	82.10	185.79	2693.03	2802.79	-2793.51	-236.56	2.80	5778911.64	616660.80	S 38 7 48.409	E 148 19 51.880
Xceed Survey	4643.88	80.20	185.48	2695.49	2818.55	-2809.20	-238.11	3.62	5778895.95	616659.25	S 38 7 48.919	E 148 19 51.825
Projected to TD	4648.00	80.20	185.48	2696.19	2822.61	-2813.24	-238.50	0.00	5778891.91	616658.87	S 38 7 49.050	E 148 19 51.812

Survey Type: Definitive Survey

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
97.06	2711.02	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
2711.02	4643.88	Act-Stns	SLB_MWD+SAG	Longtom-4 H -> Longtom-4 HZ (RM)
4643.88	4648.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 H -> Longtom-4 HZ (RM)

Longtom-4 H EOU Report

Schlumberger

Report Date:	August 13, 2008	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:	Nexus Energy	Vertical Section Azimuth:	183.550°
Field:	Nexus Energy	Vertical Section Origin:	N 0.000 m, E 0.000 m
Structure / Slot:	Gippsland Basin / 4	TVD Reference Datum:	RKB
Well:	Longtom-4	TVD Reference Elevation:	41.1 m relative to Least Astronomic Tide
Borehole:	Longtom-4 H	Sea Bed / Ground Level Elevation:	-56.000 m relative to Least Astronomic Tide
UWI/API#:		Magnetic Declination:	13.095°
Survey Name / Date:	Longtom-4 HZ (RM) / August 5, 2008	Total Field Strength:	59818.482 nT
Tort / AHD / DDI / ERD ratio:	251.772° / 2838.82 m / 6.607 / 1.053	Magnetic Dip:	-68.570°
Grid Coordinate System:	GDA94/MGA94 Zone 55	Declination Date:	August 05, 2008
Location Lat/Long:	S 38 6 17.707, E 148 19 59.944	Magnetic Declination Model:	BGGM 2008
Location Grid N/E Y/X:	N 5781704.499 m, E 616897.309 m	North Reference:	Grid North
Grid Convergence Angle:	-0.82288813°	Total Corr Mag North -> Grid North:	+13.918°
Grid Scale Factor:	0.99976830	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Semi-Axis Major NEV (m)	Semi-Axis Minor NEV (m)	EOU Unc Vertical (m)	Major Axis Azimuth NEV (deg)	Survey Tool Model
Tie-In	2711.02	51.43	184.51	2418.03	952.50	-950.60	-60.10	1.09	23.73	4.14	3.30	92.76	SLB_MWD+SAG
	2733.77	49.85	181.87	2432.46	970.09	-968.16	-61.08	3.40	24.14	4.17	3.33	92.67	SLB_MWD+SAG
	2763.58	51.38	177.62	2451.38	993.06	-991.19	-60.97	3.65	24.70	4.23	3.41	92.47	SLB_MWD+SAG
	2792.31	53.01	176.31	2468.99	1015.61	-1013.86	-59.76	2.02	25.27	4.30	3.50	92.29	SLB_MWD+SAG
	2820.01	54.07	176.82	2485.45	1037.72	-1036.09	-58.43	1.23	25.84	4.36	3.58	92.15	SLB_MWD+SAG
	2850.81	54.91	179.97	2503.34	1062.69	-1061.15	-57.73	2.63	26.47	4.40	3.66	92.12	SLB_MWD+SAG
	2881.69	57.25	185.74	2520.58	1088.29	-1086.72	-59.02	5.18	27.10	4.46	3.76	92.27	SLB_MWD+SAG
	2911.49	62.80	188.17	2535.47	1114.05	-1112.33	-62.16	5.97	27.74	4.50	3.88	92.42	SLB_MWD+SAG
	2941.41	65.11	188.76	2548.60	1140.83	-1138.92	-66.12	2.38	28.42	4.56	3.99	92.56	SLB_MWD+SAG
Xceed Surveys	2957.37	66.49	189.09	2555.15	1155.32	-1153.30	-68.38	2.65	28.78	4.59	4.05	92.64	SLB_MWD+SAG
Xceed Surveys	2987.28	68.43	190.05	2566.61	1182.79	-1180.54	-72.97	2.14	29.47	4.64	4.17	92.81	SLB_MWD+SAG
Xceed Surveys	3016.23	69.92	189.15	2576.90	1209.70	-1207.22	-77.48	1.77	30.15	4.68	4.28	92.92	SLB_MWD+SAG
Xceed Surveys	3046.70	71.87	185.88	2586.88	1238.42	-1235.76	-81.24	3.60	30.87	4.69	4.38	92.94	SLB_MWD+SAG
Xceed Surveys	3076.34	72.83	185.30	2595.87	1266.64	-1263.87	-84.00	1.12	31.58	4.73	4.49	92.97	SLB_MWD+SAG
Xceed Surveys	3106.22	72.92	185.49	2604.66	1295.18	-1292.30	-86.68	0.20	32.30	4.77	4.60	93.01	SLB_MWD+SAG
Xceed Surveys	3136.04	75.98	186.22	2612.66	1323.89	-1320.87	-89.61	3.16	33.02	4.80	4.72	93.07	SLB_MWD+SAG
Xceed Surveys	3164.24	80.13	185.24	2618.49	1351.45	-1348.32	-92.36	4.53	33.72	4.82	4.83	93.08	SLB_MWD+SAG
Xceed Surveys	3194.93	79.46	185.98	2623.93	1381.63	-1378.38	-95.32	0.97	34.46	4.84	4.94	93.14	SLB_MWD+SAG
Xceed Surveys	3224.35	81.52	184.32	2628.79	1410.63	-1407.27	-97.92	2.68	35.16	4.85	5.03	93.12	SLB_MWD+SAG
Xceed Surveys	3254.13	84.39	184.05	2632.44	1440.18	-1436.75	-100.08	2.90	35.92	4.87	5.15	93.12	SLB_MWD+SAG
Xceed Surveys	3283.78	87.22	180.52	2634.61	1469.74	-1466.28	-101.25	4.57	36.67	4.88	5.26	93.02	SLB_MWD+SAG
Xceed Surveys	3313.51	90.41	179.47	2635.23	1499.40	-1496.00	-101.25	3.39	37.43	4.90	5.37	92.92	SLB_MWD+SAG
Xceed Surveys	3343.47	93.13	182.42	2634.30	1529.31	-1525.94	-101.74	4.02	38.20	4.89	5.48	92.92	SLB_MWD+SAG
Xceed Surveys	3373.36	94.02	181.60	2632.44	1559.13	-1555.75	-102.79	1.21	38.96	4.88	5.60	92.87	SLB_MWD+SAG
Xceed Surveys	3402.75	93.92	178.26	2630.40	1588.39	-1585.07	-102.75	3.40	39.69	4.90	5.71	92.74	SLB_MWD+SAG
Xceed Surveys	3431.88	91.13	178.07	2629.12	1617.36	-1614.15	-101.82	2.88	40.38	4.90	5.81	92.65	SLB_MWD+SAG
Xceed Surveys	3461.34	91.68	178.76	2628.40	1646.69	-1643.59	-101.01	0.90	41.09	4.89	5.91	92.57	SLB_MWD+SAG
Xceed Surveys	3492.03	91.51	180.60	2627.54	1677.30	-1674.27	-100.84	1.81	41.85	4.89	6.02	92.53	SLB_MWD+SAG
Xceed Surveys	3521.63	91.27	178.88	2626.82	1706.82	-1703.86	-100.70	1.76	42.56	4.90	6.13	92.44	SLB_MWD+SAG
Xceed Surveys	3551.39	91.44	180.83	2626.12	1736.51	-1733.61	-100.63	1.97	43.29	4.89	6.23	92.42	SLB_MWD+SAG
MWD Surveys	3564.74	91.37	180.85	2625.79	1749.84	-1746.95	-100.82	0.16	43.61	4.89	6.27	92.40	SLB_MWD+SAG
	3594.59	91.46	180.97	2625.06	1779.65	-1776.79	-101.30	0.15	44.33	4.89	6.38	92.36	SLB_MWD+SAG
	3624.29	91.46	182.60	2624.30	1809.33	-1806.46	-102.22	1.65	45.07	4.90	6.49	92.36	SLB_MWD+SAG
	3653.86	91.66	184.27	2623.49	1838.89	-1835.97	-103.99	1.71	45.79	4.90	6.60	92.39	SLB_MWD+SAG
	3684.08	90.29	183.77	2622.98	1869.10	-1866.11	-106.11	1.45	46.51	4.90	6.71	92.39	SLB_MWD+SAG
	3711.90	89.74	185.04	2622.97	1896.91	-1893.85	-108.25	1.49	47.16	4.91	6.80	92.43	SLB_MWD+SAG
	3740.99	88.54	184.85	2623.41	1925.99	-1922.82	-110.75	1.25	47.84	4.92	6.89	92.45	SLB_MWD+SAG
	3770.39	85.50	184.63	2624.94	1955.34	-1952.08	-113.18	3.11	48.52	4.93	6.99	92.47	SLB_MWD+SAG
	3799.79	83.81	184.62	2627.68	1984.61	-1981.26	-115.54	1.72	49.20	4.94	7.08	92.48	SLB_MWD+SAG
	3829.12	82.94	183.90	2631.06	2013.74	-2010.31	-117.70	1.15	49.88	4.95	7.18	92.49	SLB_MWD+SAG
	3859.22	84.01	183.23	2634.48	2043.64	-2040.16	-119.56	1.26	50.61	4.96	7.29	92.48	SLB_MWD+SAG
	3888.65	86.13	183.06	2637.01	2072.96	-2069.43	-121.17	2.17	51.35	4.98	7.41	92.48	SLB_MWD+SAG
	3918.67	88.74	185.50	2638.35	2102.95	-2099.33	-123.41	3.57	52.11	5.00	7.53	92.53	SLB_MWD+SAG

	3948.20	89.63	186.27	2638.77	2132.45	-2128.70	-126.44	1.20	52.85	5.01	7.66	92.57 SLB_MWD+SAG
	3977.71	86.96	185.58	2639.65	2161.92	-2158.04	-129.48	2.80	53.56	5.01	7.78	92.60 SLB_MWD+SAG
	4006.54	83.81	184.14	2641.97	2190.64	-2186.67	-131.92	3.60	54.24	5.02	7.87	92.59 SLB_MWD+SAG
	4035.61	82.10	183.23	2645.54	2219.49	-2215.46	-133.77	2.00	54.92	5.04	7.97	92.59 SLB_MWD+SAG
	4065.35	82.21	183.76	2649.60	2248.95	-2244.87	-135.57	0.54	55.63	5.05	8.08	92.59 SLB_MWD+SAG
	4094.84	79.90	183.49	2654.18	2278.08	-2273.94	-137.41	2.37	56.34	5.08	8.18	92.59 SLB_MWD+SAG
	4124.38	77.56	183.62	2659.95	2307.05	-2302.85	-139.21	2.38	57.02	5.11	8.28	92.60 SLB_MWD+SAG
	4153.91	78.91	185.00	2665.97	2335.96	-2331.68	-141.38	1.94	57.73	5.13	8.39	92.62 SLB_MWD+SAG
	4183.07	81.41	187.28	2670.96	2364.65	-2360.24	-144.45	3.46	58.45	5.17	8.51	92.69 SLB_MWD+SAG
	4212.97	85.21	190.62	2674.44	2394.21	-2389.56	-149.08	5.06	59.18	5.23	8.64	92.80 SLB_MWD+SAG
	4242.27	89.94	193.94	2675.68	2423.13	-2418.15	-155.30	5.91	59.89	5.32	8.76	92.94 SLB_MWD+SAG
	4270.99	92.69	195.73	2675.02	2451.28	-2445.91	-162.65	3.43	60.58	5.37	8.87	93.09 SLB_MWD+SAG
	4301.34	92.03	195.79	2673.77	2480.92	-2475.09	-170.89	0.66	61.28	5.38	8.99	93.23 SLB_MWD+SAG
	4331.00	92.98	195.62	2672.48	2509.89	-2503.61	-178.91	0.98	61.96	5.37	9.10	93.36 SLB_MWD+SAG
	4360.69	90.97	195.41	2671.45	2538.91	-2532.20	-186.85	2.04	62.65	5.37	9.22	93.48 SLB_MWD+SAG
	4390.61	87.74	193.25	2671.79	2568.30	-2561.19	-194.25	3.90	63.33	5.32	9.33	93.57 SLB_MWD+SAG
	4419.25	84.58	189.93	2673.71	2596.59	-2589.17	-199.99	4.80	64.00	5.27	9.43	93.61 SLB_MWD+SAG
	4448.12	85.64	190.34	2676.17	2625.16	-2617.49	-205.05	1.18	64.70	5.29	9.55	93.67 SLB_MWD+SAG
	4478.07	84.87	191.52	2678.65	2654.76	-2646.79	-210.71	1.41	65.41	5.33	9.67	93.76 SLB_MWD+SAG
	4507.60	84.61	193.02	2681.35	2683.82	-2675.52	-216.96	1.54	66.10	5.37	9.78	93.85 SLB_MWD+SAG
	4538.99	84.55	192.67	2684.32	2714.66	-2705.99	-223.91	0.34	66.83	5.38	9.90	93.94 SLB_MWD+SAG
	4568.77	84.96	189.40	2687.04	2744.06	-2735.10	-229.58	3.31	67.54	5.33	10.01	93.97 SLB_MWD+SAG
	4598.48	84.84	186.02	2689.68	2773.57	-2764.42	-233.55	3.40	68.25	5.31	10.12	93.97 SLB_MWD+SAG
	4627.92	82.10	185.79	2693.03	2802.79	-2793.51	-236.56	2.80	68.95	5.33	10.23	93.98 SLB_MWD+SAG
Xceed Survey	4643.88	80.20	185.48	2695.49	2818.55	-2809.20	-238.11	3.62	69.33	5.35	10.29	93.98 SLB_MWD+SAG
Projected to TD	4648.00	80.20	185.48	2696.19	2822.61	-2813.24	-238.50	0.00	69.52	5.99	10.23	93.98 SLB_BLIND+TREND

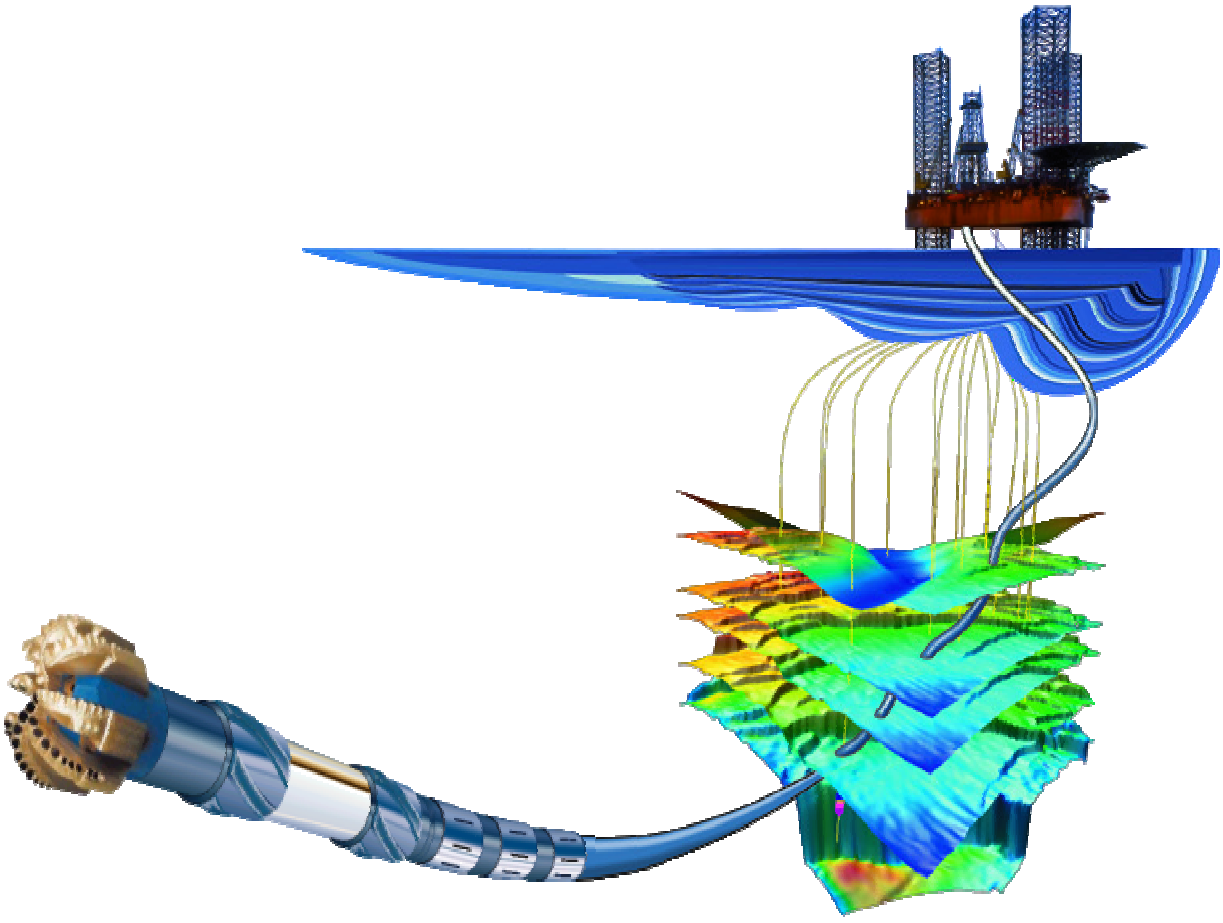
Survey Type: Definitive Survey
NOTES: Only depth error sources are used from surface to mud-line.
Structure Uncertainty: 0.00 m Included
Slot Uncertainty: 0.00 m Included
Hole Diameter: 30.00 in Included
Global Error Sources Used: YES
Along-Hole Depth Uncertainty: At survey stations

Survey Error Model: **SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma**
Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	97.06	Act-Stns	SLB_MWD+SAG-Depth Only	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
97.06	2711.02	Act-Stns	SLB_MWD+SAG	Longtom-4 -> Longtom 4 Pilot Surveys (RM)
2711.02	4643.88	Act-Stns	SLB_MWD+SAG	Longtom-4 H -> Longtom-4 HZ (RM)
4643.88	4648.00	Act-Stns	SLB_BLIND+TREND	Longtom-4 H -> Longtom-4 HZ (RM)

Schlumberger

Performance Drilling Report



BHA 4 / Bit 3
13 ½" (343 mm) Rotary Steerable Assembly
758m – 2031 m MD (1273m)

BHA
13 ½" Reed Hycalog RSX616 MA 3 PDC Bit (3 x 16 & 3 x 18 jets)
PowerDrive 900 X5 (without flow restrictor)
PowerDrive 900 Receiver – 13 3/8" Stabilized (with ported float)
Flex Collar
ARC-8
Telescope MWD (600-1200 gpm)
ADN-8
Crossover Sub
5 ½" HW Drill Pipe (6 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (9 joints)

Drilling Summary

The shoe track and rat hole in this section were drilled out with a 14 ¾" rotary clean out assembly. Three meters of new formation was drilled out and a leak off test conducted. The clean out assembly was then pulled out and the 13 ½" drilling directional assembly, above, was made up and RIH.

Kick off point commenced at 780m MD and the well angle was built up with dogleg severities of 1 to 3.8 º/30m to an inclination of 30.3º at 1221m MD. This BHA has dropping tendency of about 0.8º/30m (13 3/8" stabilized SRX), so it is probably capable of around 4.6º/30m in a neutral configuration and 100% steering ratio.

The tangent section at 30.3 º inclination was drilled using Inclination Hold mode with the PowerDrive using steering ratios between 20-60% to maintain tangency. From 1820m to 1860m MD the steering ratio required to maintain tangency increased to 100% and by 1950m MD the tool was unable to maintain the tangent and the well path started dropping. Drilling parameters were varied in an attempt to arrest the drop but with no result. At 2031m the inclination had dropped by 4º so the assembly was pulled out of hole.

Once at surface the PowerDrive Bias Unit pads were worn beyond 13 ½" so it was the cause for the lack of steering control. There was about 200m of abrasive formation in this well section. There were also several hard stringers with may have contributed to the pad wear.

Bit was graded as 2-4-CT-A-X-I-WT-BHA

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	1273	42.3	30.09

BHA 5 / Bit 4
13 ½" (343 mm) Rotary Steerable Assembly
2031m – 2600 m MD (569m)

BHA
13 ½" Smith M516 LSPX PDC Bit (3 x 18 & 2 x 20 jets)
PowerDrive 900 X5 (without flow restrictor)
PowerDrive 900 Receiver – 13 3/8" Stabilized (with ported float)
Flex Collar
ARC-8
Telescope MWD (600-1200 gpm)
ADN-8
Crossover Sub
5 ½" HW Drill Pipe (6 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (9 joints)

Drilling Summary

This assembly was ran in hole with a replacement PowerDrive and new bit. From the start of the run the well path was built using about 50% steering ratio in order to recover from drop in inclination in the previous run. The rate of penetration was significantly higher with the new bit. Once the inclination was recovered the tangent was maintained until the second kick off point at 2316m MD was reached.

The kick off and build section was achieved using build rates of 1 to 3.3 º/30m with 50-75% steering ratios until the 10 ¾" casing point was reached at 2600m MD.

Little or no stick-slip was observed for the duration of the run. Formation firmed up a bit towards the end of the run. No problems were experienced during the trip out of the hole.

At surface the bit was graded as 0-0-NO-A-X-I-NO-TD

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	569	11.8	48.22

Longtom-4 P

BHA 9 / Bit 7
9 ½" (241 mm) Rotary Steerable Assembly
2600 m – 2841m MD (241m)

BHA
9 ½" Smith M716SPXC PDC Bit (7 x 16 jets)
Xceed 675 (with ported float) – 9 3/8" stabilizer
EcoScope 675 – 9 1/8" Stabilizer
Telescope MWD (400-800 gpm)
5" NM HWDP
Crossover Sub
5 ½" HW Drill Pipe (3 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (15 joints)

Drilling Summary

The shoe track drilled out and rat hole cleaned. Then four meters of new formation to 2604m MD was drilled out and a formation integrity test conducted.

Once drilling commenced the tangent was maintained at around 54º inclination to about 2660m from which point the communication to the Xceed tool was lost. Drilling continued on the premise that maybe there is only a problem with the extender between EcoScope and Xceed and then evaluate the tools steering response further on.

The assembly showed a dropping tendency so the Xceed was taken out of Hold Inclination and Azimuth (HIA) mode at 2701m MD and set with a steering setting of 20% steering ratio and 0º toolface. Prior to 2701m the drop rate based on the MWD's continuous inclination readings was about 1.4º/30m and after 2701m the drop rate was 0.5º/30m so it appeared that the tool may be have been responding. A steering setting of 60% steering ratio and 0º toolface was sent however the assembly continued to drop. By time that it was certain the tool had failed rather than just the real time extender link. As this was a pilot hole the decision was made that the plan could tolerate the drop in the well path. By core point the well path had dropped 9º.

Little or no stick-slip was observed for the duration of the run. No problems were experienced during the trip out of the hole.

At surface the bit was graded as 2-4-BT-A-X-I-RO-CP.

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	241	9.4	25.64

Longtom-4 P

BHA 11 / Bit 9
9 ½" (241 mm) Rotary Assembly
2896 m – 2987m MD (m)

BHA
9 ½" Smith M716SPXC PDC Bit (7 x 16 jets)
Bit Sub (with ported float)
Crossover Sub
EcoScope 675 – 9 1/8" Stabilizer
Telescope MWD (400-800 gpm)
5" NM HWDP
Crossover Sub
5 ½" HW Drill Pipe (3 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (15 joints)

In the previous run a 8 1/2" core assembly was used from 2841 to 2896 m MD
Since the directional requirements were met in previous section, no Xceed tool was used in this BHA. Prior to reaching the cored interval four sections were re-logged due to problems in the previous LWD run.

The cored section was 8 ½" hole size so extra care was taken to ream it out to 9 ½"

The average penetration rate drilling from 2896m to 2965m was 49m/hr with little stick slip. The assembly had a drop rate of about 0.5º/30m.

The volcanic basement was encountered at 2965m where the drilling torque became was very erratic resulting in higher stick slip as compared to the formation drilled above. The bit was picked off bottom periodically to mitigate stick slip and cut a new bit pattern on bottom.

At surface the bit was graded as 1-7-WT-S-X-I-RO-TD.

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	91	6.8	13.38

Longtom-4 H

BHA 13 / Bit 10
9 ½" (241 mm) Rotary Steerable Assembly
2690 m – 3577m MD (877m)

BHA
9 ½" Hycalog RSR616M-B3 PDC Bit (6 x 16 jets)
Xceed 675 (with ported float) – 9 3/8" stabilizer
EcoScope 675 – 9 1/8" Stabilizer
Telescope MWD (400-800 gpm)
5" NM HWDP
Crossover Sub
5 ½" HW Drill Pipe (6 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (12 joints)

Drilling Summary

The side track for this hole section commenced by washing down from 2667m MD. Soft cement was encountered at 2687m and firm cement at 2690m. The cement was dressed for six meters to 2696m and reciprocated five times to 2692 in order to initiate the side track. Time drilling was carried out at the following rates:-

Depth (m MD)		Rate
From	To	
2696.0	2697.5	1.2 m/hr
2697.5	2700.0	1.5 m/hr
2700.0	2703.5	1.8 m/hr
2703.5	2726.4	2.1 m/hr
2726.4	2729.7	3 m/hr
2729.7	2733.0	4 m/hr
2733.0	2736.0	5 m/hr
2736.0	2738.0	7 m/hr
2738.0	2740.0	9 m/hr
2740.0	2743.0	12 m/hr
2743.0	2746.0	21-30 m/hr
2746.0	2754.0	30-41 m/hr

The percentage of formation progressively increased from 5% at 2703.5m to 50% at 2717 m and finally to 95% at 2726.4m. Although the new formation cuttings percentage was high; the surveys showed that the well had not completely sidetracked from pilot hole. On the assumption that the well may just be following along the pilot hole the drilling rate was increased progressively in stages to reduce the risk of drilling back into the pilot hole. Before increasing the drilling rate, time was allowed for the cuttings to reach surface to verify that formation cutting percentage.

A successful sidetrack was established after 19.7 hours on bottom and drilling continued following the planned well trajectory.

At 2962m the MWD survey measurements were out of specification so the surveys from the PowerDrive Xceed tool were used instead. The Xceed surveys fell within Field Acceptance Criteria. The majority of the interval was geo-steered based on the real time LWD data with instructions coming from the Operation Geologist onsite. Overall the tool responded well and had a build tendency of 1 to 1.5º/30m when at 0% steering ratio.

Stick slip was extremely low in comparison to the pilot well. The bit used on this well created minimum variance in torque which resulted in extremely low stick slip. All down links to the Xceed tool was done with 6-8% flow rate changes. At 3577 m the MWD tool was unable to modulate thereby losing all downhole communication. The decision was to pull out of hole to replace the MWD.

At surface the bit was graded as 2-6-BT-S-X-I-JD-DTF.

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	887	54.8	16.19

BHA 14 / Bit 11
9 ½" (241 mm) Rotary Steerable Assembly
3577 m – 4648m MD (1071m)

BHA
9 ½" Hycalog RSX616M-A4 PDC Bit (6 x 16 jets)
Xceed 675 (with ported float) – 9 3/8" stabilizer
EcoScope 675 – 9 1/8" Stabilizer
Telescope MWD (400-800 gpm)
5" NM HWDP
Crossover Sub
5 ½" HW Drill Pipe (6 joints)
Crossover Sub
Hydraulic Jar
Crossover Sub
5 ½" HW Drill Pipe (12 joints)

Drilling Summary

The majority of the interval was geo-steered based on the real time LWD data with instructions coming from the onsite Operations Geologist. At approximately 4211 to 4261 m, the well deviated significantly to the right despite only steering only slightly to the right to correct the well path. This is probably related to the formation change in that interval. Overall the tool responded well and had a neutral tendency when at 0% steering ratio.

Little or no stick-slip was observed for the duration of the run. All down links to the Xceed tool was done with 8-11% flow rate changes. The well was washed and reamed up to the 10 ¾" shoe in preparation for running the liner. No problems were experienced during the trip out of the hole.

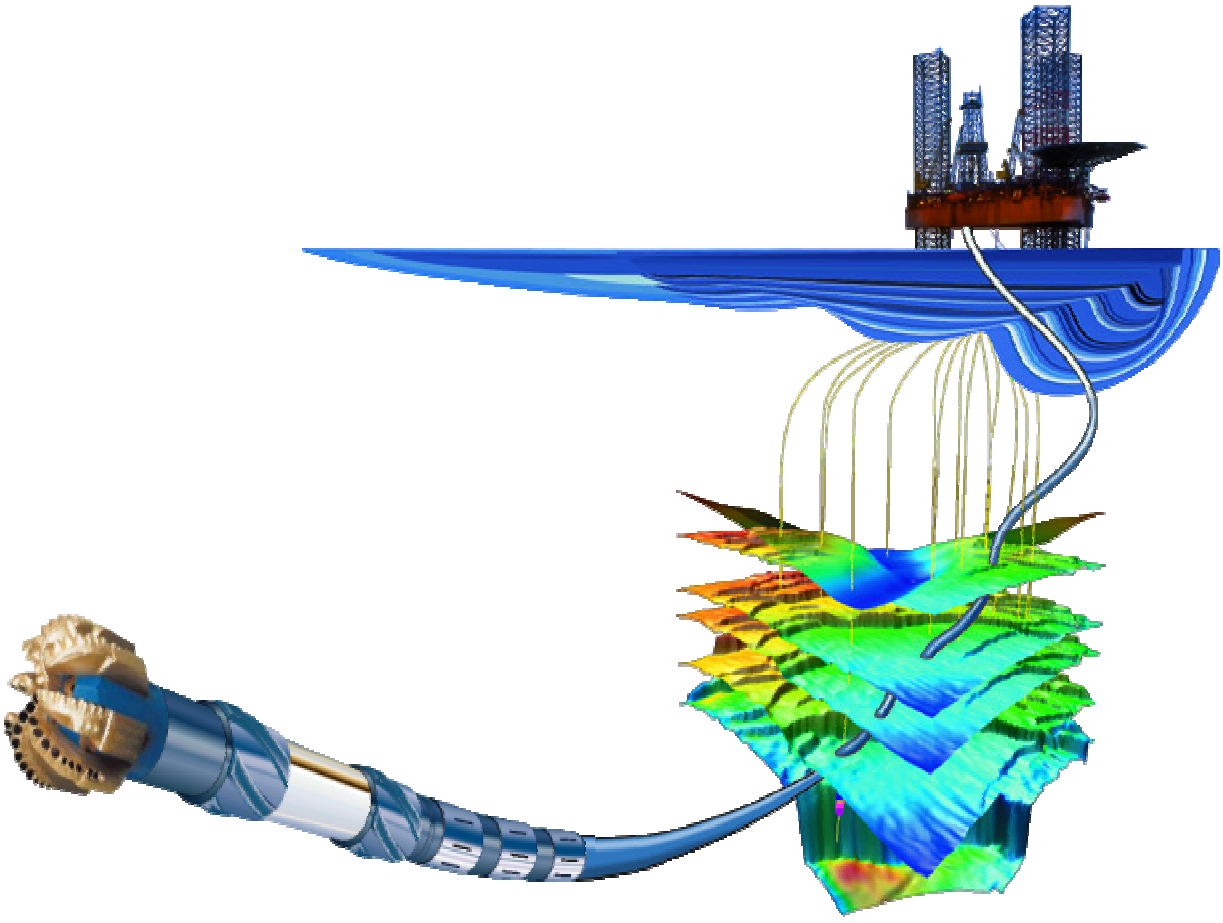
At surface the bit was graded as 1-1-WT-N-X-I-NO-TD

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	1071	41.1	26.06

Schlumberger

BHA Reports



BHA Data Sheet

Nexus Energy - Longtom-4

BHA #	BHA 4_13 1/2" X5 PD_ARC_PP_ADN	**Date**	July 06, 2008
Field	Nexus Energy	**Well**	Longtom-4
Structure	Gippsland Basin	**Borehole**	Longtom-4

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	13 1/2 " PDC Bit	Reed Hycalog	219224		8.75	13.50		0.26	0.26
		RSX616M-A3			3.75		6.63 Reg Pin		
2	PD 900 BA 13 1/2"	Schlumberger	52680/49568		9.25	9.50	6.63 Reg Box	4.21	4.47
		PD 900 BA 13 1/2"			3.00		6.63 Reg Box		
3	PD Emag Receiver (ported float)	Schlumberger	50566	8.38	8.38	13.38	6.63 Reg Pin	1.88	6.35
				0.48	5.13		6.63 FH Box		
4	Flex Collar	Schlumberger	49688		8.13	8.13	6.63 FH Pin	2.94	9.29
					3.50		6.63 FH Box		
5	ARC-8	Schlumberger	1815		8.25	9.10	6.63 FH Pin	5.53	14.82
		ARC-8			2.81		6.63 FH Box		
6	Telescope 825 HF	Schlumberger	E405		8.25	8.41	6.63 FH Pin	8.38	23.20
		Telescope 825 HF			5.11		6.63 FH Pin		
7	ADN-8	Schlumberger	VC 73		8.25	8.41	6.63 FH Box	6.57	29.77
		ADN-8			2.81		6.63 Reg Box		
8	Crossover	Sea Drill	11559		8.25	8.25	6.63 Reg Pin	0.50	30.27
					2.81		5.50 XT57 Box		
9	5 1/2" HWDP (6 joints)				5.50	7.00	5.50 XT57 Pin	56.36	86.63
					3.25		5.50 XT57 Box		
10	Crossover		11323.1		7.00	7.00	5.50 XT57 Pin	0.91	87.54
					2.88		4.50 IF Box		
11	Hydraulic Jar	Dailey Petroleum S	1416-1588	6.25	6.25	6.25	4.50 IF Pin	9.73	97.27
				0.40	2.75		4.50 IF Box		
12	Crossover	Seadrill	SSSD7142		7.00	8.25	4.50 IF Pin	1.22	98.49
					2.88		5.50 XT57 Box		
13	5 1/2" HWDP (9 joints)				5.50	7.00	5.50 XT57 Pin	84.60	183.09
					3.25		5.50 XT57 Box		
14	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 XT57 Pin	0.00	183.09
	5.5,24.7,10% Wear				4.67		5.50 XT57 Box		
					Total Weight (lbf)		46461	**Total Len.**	183.09
					Below Jar (lbf)		25353.6		

BHA Comments:	

Stabilizer	
Blade Length (m)	**Mid-Pt. To Bit (m)**
0.60	5.22
	Bend To Bottom
Bent Housing Angle (deg)	**Connection (m)**

Sensor	
Type	**Distance To Bit (m)**
PD D&I	2.62
Resistivity	11.77
Gamma Ray	11.82
D&I	18.94
Density	26.58
Neutron	27.63

Bit Nozzles	
Count	**Size(1/32 in)**
3	16.00
3	18.00
TFA (in2)	1.34

Quality Control	
Created By:	PSellathurai
Checked By:	

Nexus Energy
Longtom-4
Gippsl& Basin
Nexus Energy
Longtom-4
BHA 4_13 1/2" X5 PD_ARC_PP_ADN

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	183.09
5 1/2" HWDP (9 joints)	183.09
Crossover	98.49
Hydraulic Jar	97.27
Crossover	87.54
5 1/2" HWDP (6 joints)	86.63
Crossover	30.27
ADN-8	29.77
Telescope 825 HF	23.20
ARC-8	14.82
Flex Collar	9.29
PD Emag Receiver (ported float	6.35
PD 900 BA 13 1/2"	4.47
13 1/2 " PDC Bit	0.26

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
13 1/2 " PDC Bit	0.26	13.50	3.75	13.50
PD 900 BA 13 1/2"	4.21	9.25	3.00	9.50
PD Emag Receiver (ported	1.88	8.38	5.13	13.38
Flex Collar	2.94	8.13	3.50	8.13
ARC-8	5.53	8.25	2.81	9.10
Telescope 825 HF	8.38	8.25	5.11	8.41
ADN-8	6.57	8.25	2.81	8.41
Crossover	0.50	8.25	2.81	8.25
5 1/2" HWDP (6 joints)	56.36	5.50	3.25	7.00
Crossover	0.91	7.00	2.88	7.00
Hydraulic Jar	9.73	6.25	2.75	6.25
Crossover	1.22	7.00	2.88	8.25
5 1/2" HWDP (9 joints)	84.60	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	0.00	5.42	4.67	7.00

Bit to PD Inc Sensor = 2.62 m
Bit to Resistivity Sensor = 11.82 m
Bit to Direction & Inclination Sensor = 18.94 m
Bit to Density Sensor = 26.58 m
Bit to Neutron Sensor = 27.63 m

DRILLING OVERVIEW

KOP @ 780m & built @ DLS of 1 to 3.8 º/30m to an inc. of 30.3º at 1221m.BHA has dropping tendency ~ 0.8º/30m. Tangent sect. @ 30.3 º inc. was drilled using Inc. Hold with the PD using SR between 20-60%. 1820m to 1860m the SR required to maintain tangency increased to 100% & by 1950m the tool was unable to maintain the tangent & the well path started dropping. @ 2031m the inc. had dropped by 4º so the assembly was pulled out of hole. @ surface the PD Bias Unit pads were worn. Several hard stringers with may have contributed to the pad wear.Bit was graded as 2-4-CT-A X-I-WT-BHA

Depth in:	758.00 m	Depth out:	2031.00 m
Inclination in:	0.52°	To:	27.26°
Direction in:	304.12°	To:	181.66°
Total Drilled	1273.00 m	Dogleg:	0.28-3.82

Schlumberger

Quality Control
Created by: PSellathurai Date: 7/6/2008
Checked by: Date:

BHA Data Sheet

Nexus Energy - Longtom-4

BHA #	BHA 5_13 1/2" X5 PD_ARC_PP_ADN	**Date**	July 06, 2008
Field	Nexus Energy	**Well**	Longtom-4
Structure	Gippsland Basin	**Borehole**	Longtom-4

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	13 1/2 " PDC Bit	Smith International	JY2593		8.00	13.50		0.28	0.28
		M516-LSPX			3.75		6.63 Reg Pin		
2	PD 900 BA 13 1/2"	Schlumberger	52683/50240		9.25	9.50	6.63 Reg Box	4.24	4.52
		PD 900 BA 13 1/2"			3.00		6.63 Reg Box		
3	PD Emag Receiver (ported float)	Schlumberger	49246	8.38	8.38	13.19	6.63 Reg Pin	1.88	6.40
				0.48	5.13		6.63 FH Box		
4	Flex Collar	Schlumberger	50904		8.13	8.13	6.63 FH Pin	2.95	9.35
					3.50		6.63 FH Box		
5	ARC-8	Schlumberger	1854		8.25	9.10	6.63 FH Pin	6.37	15.72
		ARC-8			2.81		6.63 FH Box		
6	Telescope 825 HF	Schlumberger	E405		8.25	8.41	6.63 FH Pin	8.38	24.10
		Telescope 825 HF			5.11		6.63 FH Pin		
7	ADN-8	Schlumberger	43150		8.25	8.41	6.63 FH Box	6.58	30.68
		ADN-8			2.81		6.63 Reg Box		
8	Crossover	Sea Drill	11559		8.25	8.25	6.63 Reg Pin	0.50	31.18
					2.81		5.50 XT57 Box		
9	5 1/2" HWDP (6 joints)				5.50	7.00	5.50 XT57 Pin	56.36	87.54
					3.25		5.50 XT57 Box		
10	Crossover		11323.1		7.00	7.00	5.50 XT57 Pin	0.91	88.45
					2.88		4.50 IF Box		
11	Hydraulic Jar	Dailey Petroleum S	1416-1588	6.25	6.25	6.25	4.50 IF Pin	9.73	98.18
				0.40	2.75		4.50 IF Box		
12	Crossover	Seadrill	SSSD7142		7.00	8.25	4.50 IF Pin	1.22	99.40
					2.88		5.50 XT57 Box		
13	5 1/2" HWDP (9 joints)				5.50	7.00	5.50 XT57 Pin	84.60	184.00
					3.25		5.50 XT57 Box		
14	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 XT57 Pin	0.00	184.00
	5.5,24.7,10% Wear				4.67		5.50 XT57 Box		
					Total Weight (lbf)		46911	**Total Len.**	184.00
					Below Jar (lbf)		25804.1		

BHA Comments:	

Stabilizer	
Blade Length (m)	**Mid-Pt. To Bit (m)**
0.60	5.27
	Bend To Bottom
Bent Housing Angle (deg)	**Connection (m)**

Sensor	
Type	**Distance To Bit (m)**
PD D&I	2.67
Resistivity	12.31
Gamma Ray	12.36
D&I	19.84
Density	27.58
Neutron	28.53

Bit Nozzles	
Count	**Size(1/32 in)**
3	18.00
2	20.00
TFA (in2)	1.36

Quality Control	
Created By:	PSellathurai
Checked By:	

Nexus Energy
Longtom-4
Gippsland Basin
Nexus Energy
Longtom-4
BHA 5_13 1/2" X5 PD_ARC_PP_ADN

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	184.00
5 1/2" HWDP (9 joints)	184.00
Crossover	99.40
Hydraulic Jar	98.18
Crossover	88.45
5 1/2" HWDP (6 joints)	87.54
Crossover	31.18
ADN-8	30.68
Telescope 825 HF	24.10
ARC-8	15.72
Flex Collar	9.35
PD Emag Receiver (ported float	6.40
PD 900 BA 13 1/2"	4.52
13 1/2 " PDC Bit	0.28

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
13 1/2 " PDC Bit	0.28	13.50	3.75	13.50
PD 900 BA 13 1/2"	4.24	9.25	3.00	9.50
PD Emag Receiver (ported	1.88	8.38	5.13	13.19
Flex Collar	2.95	8.13	3.50	8.13
ARC-8	6.37	8.25	2.81	9.10
Telescope 825 HF	8.38	8.25	5.11	8.41
ADN-8	6.58	8.25	2.81	8.41
Crossover	0.50	8.25	2.81	8.25
5 1/2" HWDP (6 joints)	56.36	5.50	3.25	7.00
Crossover	0.91	7.00	2.88	7.00
Hydraulic Jar	9.73	6.25	2.75	6.25
Crossover	1.22	7.00	2.88	8.25
5 1/2" HWDP (9 joints)	84.60	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	0.00	5.42	4.67	7.00

Bit to PD Inc = 2.67 m
Bit to Resistivity Sensor = 12.31 m
Bit to Direction & Inclination Sensor = 19.84 m
Bit to Density Sensor = 27.58 m
Bit to Neutron Sensor = 28.53 m

DRILLING OVERVIEW

Built using about 50% SR to recover from drop in inc.in the previous run. ROP was higher with the new bit. Once the inc. was recovered the tangent was maintained until the second kick off point @ 2316m.
KO was achieved using build rates of 1 to 3.3 º/30m with 50-75% SR until the 10 3/4" casing point was reached at 2600m MD.Little or no stick-slip was observed for the duration of the run. Formation firmed up a bit towards the end of the run. No problems were experienced during the trip out of the hole.
Bit was graded as 0-0-NO-A-X-I-NO-TD

Depth in:	2031.00 m	Depth out:	2600.00 m
Inclination in:	26.98°	To:	52.52°
Direction in:	181.70°	To:	183.03°
Total Drilled	569.00 m	Dogleg:	0.28-3.34

Schlumberger

Quality Control
Created by: PSellathurai Date: 7/6/2008
Checked by: Date:

BHA Data Sheet

Nexus Energy - Longtom-4 P

BHA #	BHA 9_9 1/2" Xceed_ECO_TEL_Pilot	**Date**	July 25, 2008
Field	Nexus Energy	**Well**	Longtom-4 P
Structure	Gippsland Basin	**Borehole**	Longtom-4 P

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	9 1/2 " PDC Bit	Smith International	JY2083		6.25	9.50		0.25	0.25
		M716 SPXC			2.25		4.50 Reg Pin		
2	PD Xceed 675	Schlumberger	111	6.88	6.75	9.38	6.63 Reg Box	7.66	7.91
	Ported Float in Xceed bit box	Xceed 675		4.48	5.25		5.50 FH Box		
3	EcoScope w/ 9 1/8 Stabilizer	Schlumberger	VA86		6.75	9.13	5.50 FH Pin	8.01	15.92
		EcoScope w/ 9 1/8 Stabilizer		6.81	2.00		5.50 FH Box		
4	TeleScope (MWD)	Schlumberger	E0330		6.88	6.88	5.50 FH Pin	8.52	24.44
		TeleScope			3.88		4.50 IF Box		
5	5" NM HWDP	Schlumberger	SBD 3170		5.00	6.75	4.50 IF Pin	9.19	33.63
					2.81		4.50 IF Box		
6	Crossover				6.50	6.50	4.50 IF Pin	0.49	34.12
					3.00		5.50 XT57 Box		
7	5 1/2" HWDP (3 joints)				5.50	7.00	5.50 XT57 Pin	28.03	62.15
					3.25		5.50 XT57 Box		
8	Crossover				7.00	7.00	5.50 XT57 Pin	0.91	63.06
					2.88		4.50 IF Box		
9	Hydraulic Jar	Dailey Petroleum S	1416-1588	6.25	6.25	6.25	4.50 IF Pin	9.73	72.79
				0.40	2.75		4.50 IF Box		
10	Crossover				6.75	6.75	4.50 IF Pin	1.22	74.01
					2.81		5.50 XT57 Box		
11	5 1/2" HWDP (15 joints)				5.50	7.00	5.50 XT57 Pin	140.96	214.97
					3.25		5.50 XT57 Box		
12	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 WT56 IEU Pin		to surface
	5.5,24.7,10% Wear				4.67		5.50 WT56 IEU		
					Total Weight (lbf)		47099	**Total Len.**	214.97
					Below Jar (lbf)		15663.4		

BHA Comments:	

Stabilizer	
Blade Length (m)	**Mid-Pt. To Bit (m)**
0.35	0.65
0.33	4.10
	Bend To Bottom
Bent Housing Angle (deg)	**Connection (m)**

Sensor	
Type	**Distance To Bit (m)**
D&I	4.14
Gamma Ray	9.70
D&I	10.22
Resistivity	12.75
D&I	20.07

Bit Nozzles	
Count	**Size(1/32 in)**
7	16.00
TFA (in2)	1.37

Quality Control	
Created By:	PSellathurai
Checked By:	

Nexus Energy
Longtom-4 P
Gippsland Basin
Nexus Energy
Longtom-4 P
BHA 9_9 1/2" Xceed_ECO_TEL_Pilot

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	to surface
5 1/2" HWDP (15 joints)	214.97
Crossover	74.01
Hydraulic Jar	72.79
Crossover	63.06
5 1/2" HWDP (3 joints)	62.15
Crossover	34.12
5" NM HWDP	33.63
TeleScope (MWD)	24.44
EcoScope w/ 9 1/8 Stabilizer	15.92
PD Xceed 675	7.91
9 1/2 " PDC Bit	0.25

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
9 1/2 " PDC Bit	0.25	9.50	2.25	9.50
PD Xceed 675	7.66	6.75	5.25	9.38
EcoScope w/ 9 1/8 Stabiliz	8.01	6.75	2.00	9.13
TeleScope (MWD)	8.52	6.88	3.88	6.88
5" NM HWDP	9.19	5.00	2.81	6.75
Crossover	0.49	6.50	3.00	6.50
5 1/2" HWDP (3 joints)	28.03	5.50	3.25	7.00
Crossover	0.91	7.00	2.88	7.00
Hydraulic Jar	9.73	6.25	2.75	6.25
Crossover	1.22	6.75	2.81	6.75
5 1/2" HWDP (15 joints)	140.96	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	to surface	5.42	4.67	7.00

Bit to Direction & Inclination Sensor = 4.14 m

DRILLING OVERVIEW

Tangent was maintained at ~ 54º inc. to ~ 2660m from which point the comm. to the Xceed tool was lost. Drilling cont. on the premise that maybe there is only a problem with the extender between EcoScope & Xceed & then evaluate the tools.Assembly showed a dropping tendency; Xceed was taken out of Hold Inc.& Azi. (HIA) mode @ 2701m MD & set with a steering setting of 20% SR & 0º. Prior to 2701m the DR rate on the MWD's continuous inc.readings was ~ 1.4º/30m and after 2701m the DR was 0.5º/30m. 60% SR & 0º TF cont. to drop. Xceed had failed.Drilled to core point.Post analysis showed tool failed.

Depth in:	2600.00 m	Depth out:	2841.00 m
Inclination in:	53.72°	To:	47.70°
Direction in:	182.84°	To:	183.57°
Total Drilled	241.00 m	Dogleg:	

Schlumberger

Quality Control

Created by: PSellathurai Date: 7/25/2008

Checked by: Date:

BHA Data Sheet

Nexus Energy - Longtom-4 P

BHA #	BHA 11_9 1/2" Rotery_ECO_TEL_Pilot	**Date**	July 27, 2008
Field	Nexus Energy	**Well**	Longtom-4 P
Structure	Gippsland Basin	**Borehole**	Longtom-4 P

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	9 1/2 " PDC Bit	Smith Internationa	JY2802		6.25	9.50		0.25	0.25
		M716 SPXC			2.25		4.50 Reg Pin		
2	Bit sub complete with ported floa	Seadrill	BXNC50B		6.75	6.75	4.50 API Regular	1.22	1.47
					2.81		4.50 NC50 (4 1/2		
3	Crossover	Schlumberger	SBD-0360		6.88	6.88	4.50 NC50 (4 1/2	0.46	1.93
					3.38		5.50 FH Box		
4	EcoScope w/ 9 1/8 Stabilize	Schlumberger	763		6.75	9.13	5.50 FH Pin	8.04	9.97
		EcoScope w/ 9 1/8 Stabilize		6.81	2.00		5.50 FH Box		
5	TeleScope (MWD)	Schlumberger	E0330		6.88	6.88	5.50 FH Pin	8.52	18.49
		TeleScope			3.88		4.50 IF Box		
6	5" NM HWDP	Schlumberger	SBD 3170		5.00	6.75	4.50 IF Pin	9.19	27.68
					2.81		4.50 IF Box		
7	Crossover				6.50	6.50	4.50 IF Pin	0.49	28.17
					3.00		5.50 XT57 Box		
8	5 1/2" HWDP (3 joints)				5.50	7.00	5.50 XT57 Pin	28.03	56.20
					3.25		5.50 XT57 Box		
9	Crossover				7.00	7.00	5.50 XT57 Pin	0.91	57.11
					2.88		4.50 IF Box		
10	Hydraulic Jar	Dailey Petroleum Se	1416-1588	6.25	6.25	6.25	4.50 IF Pin	9.73	66.84
				0.40	2.75		4.50 IF Box		
11	Crossover				6.75	6.75	4.50 IF Pin	1.22	68.06
					2.81		5.50 XT57 Box		
12	5 1/2" HWDP (15 joints)				5.50	7.00	5.50 XT57 Pin	140.96	209.02
					3.25		5.50 XT57 Box		
13	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 WT56 IEU Pin	0.00	to surface
	5.5,24.7,10% Wear				4.67		5.50 WT56 IEU		

Nexus Energy
Longtom-4 P
Gippsland Basin
Nexus Energy
Longtom-4 P
BHA 11_9 1/2" Rotery_ECO_TEL_Pilot

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	to surface
5 1/2" HWDP (15 joints)	209.02
Crossover	68.06
Hydraulic Jar	66.84
Crossover	57.11
5 1/2" HWDP (3 joints)	56.20
Crossover	28.17
5" NM HWDP	27.68
TeleScope (MWD)	18.49
EcoScope w/ 9 1/8 Stabilizer	9.97
Crossover	1.93
Bit sub complete with ported floa	1.47
9 1/2 " PDC Bit	0.25

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
9 1/2 " PDC Bit	0.25	9.50	2.25	9.50
Bit sub complete with port	1.22	6.75	2.81	6.75
Crossover	0.46	6.88	3.38	6.88
EcoScope w/ 9 1/8 Stabiliz	8.04	6.75	2.00	9.13
TeleScope (MWD)	8.52	6.88	3.88	6.88
5" NM HWDP	9.19	5.00	2.81	6.75
Crossover	0.49	6.50	3.00	6.50
5 1/2" HWDP (3 joints)	28.03	5.50	3.25	7.00
Crossover	0.91	7.00	2.88	7.00
Hydraulic Jar	9.73	6.25	2.75	6.25
Crossover	1.22	6.75	2.81	6.75
5 1/2" HWDP (15 joints)	140.96	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	to surface	5.42	4.67	7.00

Bit to Direction & Inclination Sensor = 14.11m

DRILLING OVERVIEW

This assembly was used to ream 55m of 8 1/2" cored section and 91m meters of formation to TD. It had a drop rate of about 0.5 deg/30m.Directional requirements were met; no Xceed tool was used in this BHA. The cored section was 8 ½" hole size so extra care was taken to ream it out to 9 ½".ROP from 2896m to 2965m was 49m/hr with little stick slip. volcanic basement was encountered at 2965m where the drilling torque became was very erratic resulting in higher stick slip as compared to the formation drilled above. The bit was picked off bottom periodically to mitigate stick slip and cut a new bit pattern on bottom. Bit was graded as 1-7-WT-S-X-I-RO-TD.

Depth in:	2896.00 m	Depth out:	2987.00 m
Inclination in:	46.19°	To:	45.14°
Direction in:	183.31°	To:	184.59°
Total Drilled	91.00 m	Dogleg:	1.32

Schlumberger

Quality Control

Created by: PSellathurai Date: 7/27/2008

Checked by: Date:

BHA Data Sheet

Nexus Energy - Longtom-4

BHA #	BHA 13_9 1/2" Xceed_ECO_TEL_Horizonta	**Date**	August 02, 2008
Field	Nexus Energy	**Well**	Longtom-4
Structure	Gippsland Basin	**Borehole**	Longtom-4

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	9 1/2 " PDC Bit	Hycalog	218795		6.25	9.50		0.22	0.22
		RSR616M-B3			2.25		4.50 Reg Pin		
2	PD Xceed 675	Schlumberger	241	6.88	6.75	9.38	6.63 Reg Box	7.66	7.88
	Ported Float in Xceed bit box	Xceed 675		4.48	5.25		5.50 FH Box		
3	EcoScope w/ 9 1/8 Stabilizer	Schlumberger	963		6.75	9.13	5.50 FH Pin	8.05	15.93
		EcoScope w/ 9 1/8 Stabilizer		6.81	2.00		5.50 FH Box		
4	TeleScope (MWD)	Schlumberger	E0330		6.88	6.88	5.50 FH Pin	8.52	24.45
		TeleScope			3.88		4.50 IF Box		
5	5" NM HWDP	Schlumberger	SBD 3170		5.00	6.75	4.50 IF Pin	9.19	33.64
					2.81		4.50 IF Box		
6	Crossover	Seadrill	508A67		6.50	6.50	4.50 IF Pin	0.91	34.55
					3.00		5.50 XT57 Box		
7	5 1/2" HWDP (6 joints)				5.50	7.00	5.50 XT57 Pin	56.23	90.78
					3.25		5.50 XT57 Box		
8	Crossover	Seadrill	115612		7.00	7.00	5.50 XT57 Pin	0.42	91.20
					2.88		4.50 IF Box		
9	Hydraulic Jar	Dailey Petroleum S	1416-1515	6.32	6.50	6.50	4.50 IF Pin	9.62	100.82
				0.32	2.75		4.50 IF Box		
10	Crossover	Seadrill	SSD7142		6.75	6.75	4.50 IF Pin	1.22	102.04
					2.81		5.50 XT57 Box		
11	5 1/2" HWDP (12 joints)				5.50	7.00	5.50 XT57 Pin	112.76	214.80
					3.25		5.50 XT57 Box		
12	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 WT56 IEU Pin	to surface	
	5.5,24.7,10% Wear				4.67		5.50 WT56 IEU		

Nexus Energy
Longtom-4
Gippsland Basin
Nexus Energy
Longtom-4
BHA 13_9 1/2" Xceed_ECO_TEL_Horizontal

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	to surface
5 1/2" HWDP (12 joints)	214.80
Crossover	102.04
Hydraulic Jar	100.82
Crossover	91.20
5 1/2" HWDP (6 joints)	90.78
Crossover	34.55
5" NM HWDP	33.64
TeleScope (MWD)	24.45
EcoScope w/ 9 1/8 Stabilizer	15.93
PD Xceed 675	7.88
9 1/2 " PDC Bit	0.22

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
9 1/2 " PDC Bit	0.22	9.50	2.25	9.50
PD Xceed 675	7.66	6.75	5.25	9.38
EcoScope w/ 9 1/8 Stabiliz	8.05	6.75	2.00	9.13
TeleScope (MWD)	8.52	6.88	3.88	6.88
5" NM HWDP	9.19	5.00	2.81	6.75
Crossover	0.91	6.50	3.00	6.50
5 1/2" HWDP (6 joints)	56.23	5.50	3.25	7.00
Crossover	0.42	7.00	2.88	7.00
Hydraulic Jar	9.62	6.50	2.75	6.50
Crossover	1.22	6.75	2.81	6.75
5 1/2" HWDP (12 joints)	112.76	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	to surface	5.42	4.67	7.00

Bit to Direction & Inclination Sensor = 4.11 m

DRILLING OVERVIEW

Sidetrack for this hole section commenced by washing down from 2667m MD. Cement was dressed for 6 m to 2696 m and reciprocated five times to 2692 in order to initiate the side track. % of formation progressively increased @ 2703.5m @ 2717 m & @ 2726.4m. Successful sidetrack was established after 19.7 hours on bottom and drilling continued following the planned well trajectory. The majority of the interval was geo-steered based on the real time LWD data with instructions coming from the Operation Geologist onsite. Stick slip waslow. MWD tool was unable to modulate @ 3577 m. POOH.

Depth in:	2896.00 m	Depth out:	3577.00 m
Inclination in:	51.43°	To:	91.44°
Direction in:	184.51°	To:	180.83°
Total Drilled	681.00 m	Dogleg:	0.2º-5.97

Schlumberger

Quality Control

Created by: PSellathurai Date: 8/2/2008

Checked by: Date:

BHA Data Sheet

Nexus Energy - Longtom-4 H

BHA #	BHA 14_9 1/2" Xceed_ECO_TEL_Horizonta	**Date**	August 09, 2008
Field	Nexus Energy	**Well**	Longtom-4 H
Structure	Gippsland Basin	**Borehole**	Longtom-4 H

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	9 1/2 " PDC Bit	Hycalog	216535		6.25	9.50		0.22	0.22
		RSX616M-A4			2.25		4.50 Reg Pin		
2	PD Xceed 675	Schlumberger	267	6.88	6.75	9.38	6.63 Reg Box	7.66	7.88
	Ported Float in Xceed bit box	Xceed 675		4.48	5.25		5.50 FH Box		
3	EcoScope w/ 9 1/8 Stabilizer	Schlumberger	805		6.75	9.13	5.50 FH Pin	8.05	15.93
		EcoScope w/ 9 1/8 Stabilizer		6.81	2.00		5.50 FH Box		
4	TeleScope (MWD)	Schlumberger	FU22		6.88	6.88	5.50 FH Pin	8.51	24.44
		TeleScope			3.88		4.50 IF Box		
5	5" NM HWDP	Schlumberger	SBD 3170		5.00	6.75	4.50 IF Pin	9.19	33.63
					2.81		4.50 IF Box		
6	Crossover	Seadrill	508A67		6.50	6.50	4.50 IF Pin	0.91	34.54
					3.00		5.50 XT57 Box		
7	5 1/2" HWDP (6 joints)				5.50	7.00	5.50 XT57 Pin	56.23	90.77
					3.25		5.50 XT57 Box		
8	Crossover	Seadrill	115612		7.00	7.00	5.50 XT57 Pin	0.42	91.19
					2.88		4.50 IF Box		
9	Hydraulic Jar	Dailey Petroleum S	1416-1515	6.32	6.50	6.50	4.50 IF Pin	9.62	100.81
				0.32	2.75		4.50 IF Box		
10	Crossover	Seadrill	SSD7142		6.75	6.75	4.50 IF Pin	1.22	102.03
					2.81		5.50 XT57 Box		
11	5 1/2" HWDP (12 joints)				5.50	7.00	5.50 XT57 Pin	112.76	214.79
					3.25		5.50 XT57 Box		
12	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 WT56 IEU Pin	to surface	
	5.5,24.7,10% Wear				4.67		5.50 WT56 IEU		

Nexus Energy
Longtom-4 H
Gippsland Basin
Nexus Energy
Longtom-4 H
BHA 14_9 1/2" Xceed_ECO_TEL_Horizontal

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	to surface
5 1/2" HWDP (12 joints)	214.79
Crossover	102.03
Hydraulic Jar	100.81
Crossover	91.19
5 1/2" HWDP (6 joints)	90.77
Crossover	34.54
5" NM HWDP	33.63
TeleScope (MWD)	24.44
EcoScope w/ 9 1/8 Stabilizer	15.93
PD Xceed 675	7.88
9 1/2 " PDC Bit	0.22

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
9 1/2 " PDC Bit	0.22	9.50	2.25	9.50
PD Xceed 675	7.66	6.75	5.25	9.38
EcoScope w/ 9 1/8 Stabiliz	8.05	6.75	2.00	9.13
TeleScope (MWD)	8.51	6.88	3.88	6.88
5" NM HWDP	9.19	5.00	2.81	6.75
Crossover	0.91	6.50	3.00	6.50
5 1/2" HWDP (6 joints)	56.23	5.50	3.25	7.00
Crossover	0.42	7.00	2.88	7.00
Hydraulic Jar	9.62	6.50	2.75	6.50
Crossover	1.22	6.75	2.81	6.75
5 1/2" HWDP (12 joints)	112.76	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% We	to surface	5.42	4.67	7.00

Bit to Direction & Inclination Sensor = 4.11 m

DRILLING OVERVIEW

The majority of the interval was geo-steered based on the real time LWD data with instructions coming from the Operation Geologist onsite. At around 4211 to 4261 the well deviated significantly to the right despite only steering only slightly to the right to correct the well path. This is probably related to the formation change in that interval.Little or no stick-slip was observed for the duration of the run. All down links to the Xceed tool was done with 8-11% flow rate changes. The well was washed and reamed up to the 10 ¾" shoe in preparation for running the liner. No problems were experienced.

Depth in:	3577.00 m	Depth out:	4648.00 m
Inclination in:	51.43°	To:	80.20°
Direction in:	184.51°	To:	185.79°
Total Drilled	1071.00 m	Dogleg:	0.15 to 5.91

Schlumberger

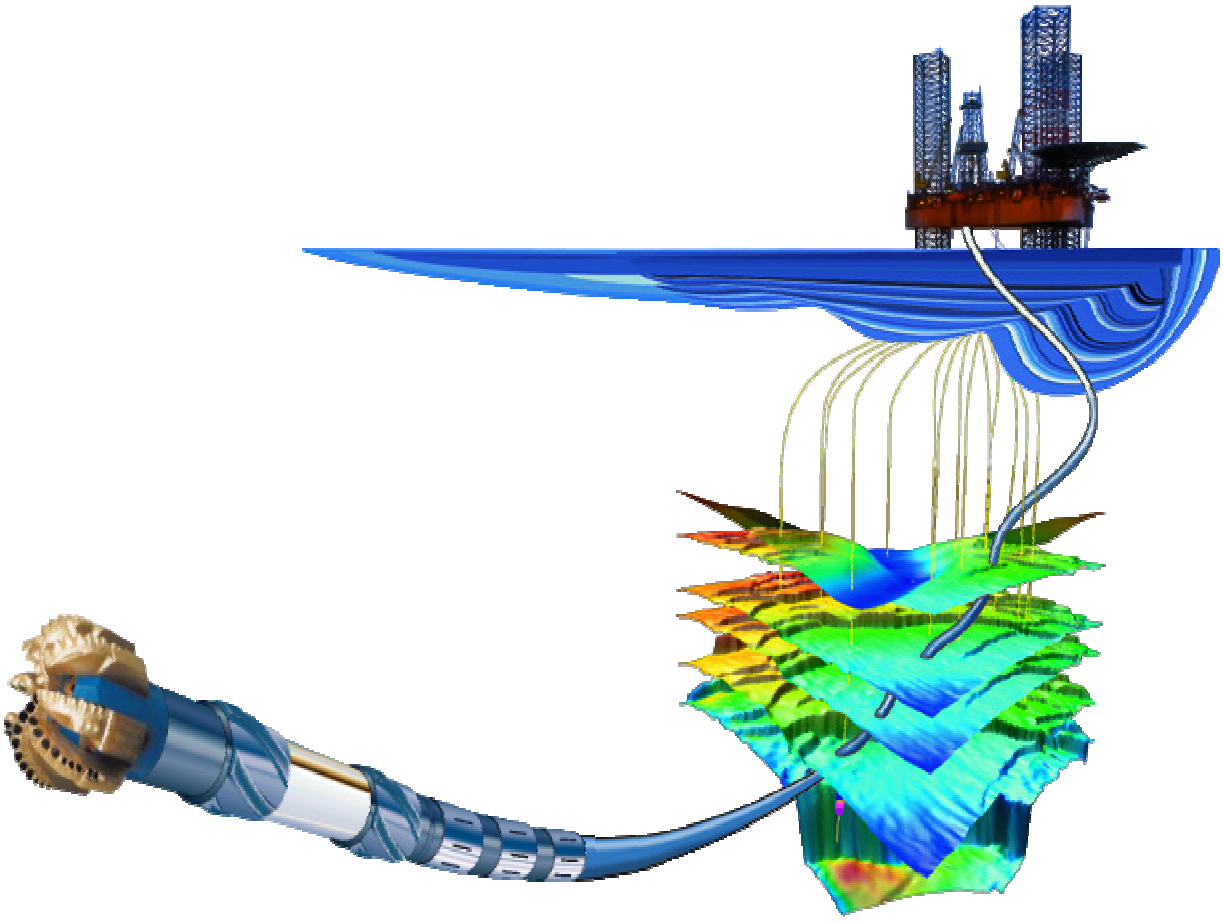
Quality Control

Created by: PSellathurai Date: 8/9/2008

Checked by: Date:

Schlumberger

Drilling Parameter Sheets



WELL# Longtom-4 **DATE:** 30-Jun-08 **Depth In :** 755.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 52.3°

Planned Direction : 183.55°

BHA # 4 **BIT#** 3 **BHA :** 13.5" PDC Bit, PD 900 13.5" BA, Receiver, FlexCollar, ARC8, Telescope 8.25 HG, 'ADN 8', X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 9 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 18.94 m **Last Casing :** 16" @ 750 m **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 2.63 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	3:57	4:37	0:40	758	773	15	0	0							170	995	80		3-12	2-3		2,325	2,300	P/U 132, S/0 128, Rot 130; MW=11.9
R	4:47	4:58	0:11	773	780	7									170	995	80		12	2-3	38	2,400	2,400	
R	4:58	5:27	0:29	780	802	22	180	75	783.28	0.52	304.12	-0.17	-21.28	0.28	172	1006	80		20	1-3	46	2,400	2,400	D/L with 14 strokes
R	5:45	6:07	0:22	802	825	23			812.94	2.32	203.29	1.82	-101.99	2.50	172	1006	120		25	4-6	63	2,400	2,400	
R	6:07	6:20	0:13	825	832	7									172	1006	120		25	4-6	32	2,400	2,400	
R	6:25	6:56	0:31	832	851	19			842.62	5.16	197.97	2.87	-5.37	2.89	172	1006	120		25	4-6	37	2,400	2,400	
R	6:56	7:12	0:16	851	861	10	324	50							172	1006	120		25	4-6	38	2,400	2,400	D/L GTF; D/L Steer desired T/F and Steer ratio
R	7:20	7:48	0:28	861	890	29			872.25	7.16	192.11	2.02	-5.93	2.12	172	1006	120		25	4-6	62	2,400	2,400	P/U 137, S/0 131, Rot 133;
R	8:05	8:25	0:20	890	920	30			901.94	8.22	183.91	1.07	-8.29	1.54	180	1053	130		30	5-7	90	2,600	2,600	Inclination insufficient to plan
R	8:34	8:47	0:13	920	934	14	0	75	931.42	10.19	179.91	1.97	-4.00	2.07	172	1006	100-140		10-32	5-20	65	2,800	2,800	Hard stringer at different depth
R	8:47	9:02	0:15	934	949	15	0	100							172	1006	130		11	4-7	60	2,500	2,500	Control ROP @ 60 m/hr
R	9:12	9:52	0:40	949	980	31	0	100	960.94	13.95	179.75	3.82	-0.16	3.82	172	1006	130		12	7-9	47	2,500	2,500	Increase ROP @ 70 m/hr
R	10:05	10:28	0:23	980	1010	30	0	100	990.68	17.52	178.95	3.60	-0.81	3.61	180	1053	130		32	7-9	78	2,700	2,700	P/U 147, S/0 137, Rot 141;
R	10:35	11:00	0:25	1010	1039	29	0	100	1020.40	20.88	177.48	3.39	-1.48	3.43	180	1053	130		32	7-9	70	2,700	2,700	
R	11:08	11:21	0:13	1039	1055	16	0	100	1050.08	24.28	176.64	3.44	-0.85	3.45	180	1053	140		25	7-9	74	2,700	2,700	
R	11:21	11:34	0:13	1055	1069	14	36	50							180	1053	140		32	7-9	65	2,700	2,700	
R	11:40	12:02	0:22	1069	1098	29	36	50	1078.64	25.70	178.42	1.49	1.87	1.69	180	1053	140		32	7-9	79	2,700	2,700	P/U 153, S/0 143, Rot 147;
R	12:51	13:20	0:29	1098	1128	30	36	50	1108.28	26.85	180.79	1.16	2.40	1.58	180	1053	140		32	8-10	62	2,800	2,800	
R	13:48	14:03	0:15	1128	1156	28	36	50	1137.39	27.64	182.43	0.81	1.69	1.12	180	1053	140		32	8-10	112	2,800	2,800	D/L PD Steer 208
R	14:20	14:40	0:20	1156	1186	30	24	50	1166.97	28.48	183.83	0.85	1.42	1.08	180	1053	140		32	8-10	90	2,800	2,800	
R	14:55	15:20	0:25	1186	1216	30	24	50	1196.40	29.46	184.58	1.00	0.76	1.07	180	1053	140		25	8-10	72	2,800	2,800	P/U 153, S/0 143, Rot 147;
R	15:35	15:40	0:05	1216	1221	5	24	50							180	1053	140		22	8-10	60	2,800	2,800	D/L Inclination Hold Zero Azimuth
R	15:40	15:50	0:10	1221	1245	24	0	IH	1225.95	30.16	185.46	0.71	0.89	0.84	180	1053	150		30	8-10	22	2,800	2,800	
R	16:24	16:45	0:21	1245	1275	30			1255.99	29.83	185.82	-0.33	0.36	0.38	180	1053	150		30	8-10	86	2,800	2,800	P/U 160, S/0 150, Rot 159
R	17:00	17:27	0:27	1275	1305	30			1285.37	30.03	186.70	0.20	0.90	0.49	180	1053	150		30	8-13	67	2,800	2,800	
R	17:45	17:58	0:13	1305	1320	15			1315.16	31.09	187.90	1.07	1.21	1.23	180	1053	150		27	8-13	69	2,800	2,800	
R	17:58	18:15	0:17	1320	1335	15	25L	IH							180	1053	150		13	4-5	53	2,800	2,800	D/L Inclination, Left Azimuth 25%
R	18:31	18:59	0:28	1335	1354	19			1344.99	31.21	187.53	0.12	-0.37	0.23	172	1006	150		13-16	4-5	41	2,700	2,700	Losing mud over shakers, reduce flow rate

TIME BREAKDOWN: (for new formation only)

Rotated Time : 9.73 **Meters Rotated :** 596 **Rotating ROP:** 61.2 m/hr

Total Time : 9.73 **Meters Drilled :** 596 **Average ROP:** 61.2 m/hr

WELL# Longtom-4 **DATE:** 30-Jun-08 **Depth In :** 755.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 52.3°

Planned Direction : 183.55°

BHA # 4 **BIT#** 3 **BHA :** 13.5" PDC Bit, PD 900 13.5" BA, Receiver, FlexCollar, ARC8, Telescope 8.25 HG, 'ADN 8', X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 9 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 18.94 m **Last Casing :** 16" @ 750 m **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 2.63 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	18:59	19:20	0:21	1354	1364	10	25L	IH							192	1123	150		16	5-7	29	3,200	3,200	P/U 170, S/0 156, Rot 168; Tor 2-3
R	19:46	20:20	0:34	1364	1394	30			1374.68	30.42	184.92	-0.80	-2.64	1.57	192	1123	150		14-28	7-12	53	3,300	3,300	Control ROP to 80-100 m/hr
R	21:05	21:43	0:38	1394	1424	30			1404.59	30.04	183.00	-0.38	-1.93	1.04	192	1123	150		25	9-11	47	3,400	3,400	SCR's, P/U 174, S/0 158, Rot 168
R	22:14	22:33	0:19	1424	1439	15			1433.94	31.67	182.29	1.67	-0.73	1.71	192	1123	150		25	3-15	47	3,350	3,350	
R	22:33	1:20	2:47	1439	1453	14	0	IH							192	1123	80-100		25	3-15	5	3,325	3,325	DL with one pump at 10 stks, hard stringer at 1447-1448.5m
R	1:41	1:48	0:07	1453	1459	6									192	1123	150		25	9-12	51	3,250	3,250	P/U 177, S/0 160, Rot 168 (1 July)
R	1:48	2:31	0:43	1459	1483	24	0	-1/2 °	1463.79	30.65	181.20	-1.03	-1.10	1.17	192	1123	150		25	7-8	33	3,250	3,250	
R	2:46	4:41	1:55	1483	1505	22			1493.62	30.04	180.72	-0.61	-0.48	0.66	192	1123	150		25	6-7	11	3,300	3,300	
R	4:41	10:00	5:19	1505	1512	7	25R	IH							192	1123	90		25	3-5	1	3,250	3,250	Hard stringer at 1505m
R	10:10	13:37	3:27	1512	1542	30									172	1006	100-140		10-32	5-20	9	2,800	2,800	Hard drilling intervals at different depth
R	13:45	15:32	1:47	1542	1576	34			1553.11	30.38	181.81	0.30	1.24	0.69	170	995	150		10-20	5-20	19	2,750	2,750	High variance in torque. P/U 184; S/O165. Rot.178
R	15:32	17:00	1:28	1576	1602	26	0	IH	1583.05	30.31	183.44	-0.07	1.63	0.83	170	995	130-160		18-20	5-20	18	2,800	2,800	
R	17:21	19:04	1:43	1602	1632	30			1612.84	30.34	184.08	0.03	0.64	0.33	180	1053	160		10-22	5-20	17	3,000	3,000	P/U 189, S/0 170, Rot 179
R	19:20	20:36	1:16	1632	1662	30			1642.12	30.48	183.53	0.14	-0.56	0.32	180	1053	155		20-27	6-12	24	3,000	3,000	P/U 190, S/0 170, Rot 178
R	20:53	21:03	0:10	1662	1664	2									180	1053	155		22-25	6-9	12	3,050	3,050	
R	21:03	22:12	1:09	1664	1691	27	0	-1/2 °	1671.81	30.16	182.75	-0.32	-0.79	0.51	180	1053	155		20-25	7-14	23	3,050	3,050	DL with one pump at 6 stks (3.3% flow)
R	22:28	23:15	0:47	1691	1708	17			1701.38	29.96	181.97	-0.20	-0.79	0.45	180	1053	160		20-25	7-14	22	3,050	3,050	SCR's
R	23:36	23:55	0:19	1708	1721	13									180	1053	160		15	11-15	41	3,050	3,050	P/U 195, S/0 171, Rot 182, Tor 3-4
R	0:13	1:00	0:47	1721	1750	29			1730.84	30.49	182.20	0.54	0.23	0.55	180	1053	155		19-25	6-16	37	3,100	3,100	Erratic torque (2 July)
R	1:26	2:35	1:09	1750	1780	30			1760.64	30.44	183.16	-0.05	0.97	0.49	192	1123	160		25	10-13	26	3,425	3,425	Smoother drilling from 1750m
R	2:48	4:11	1:23	1780	1810	30			1790.34	29.76	183.49	-0.69	0.33	0.71	192	1123	170		20-25	8-11	22	3,475	3,475	P/U 201, S/0 180, Rot 182, Tor 3-4
R	4:41	6:12	1:31	1810	1839	29			1820.04	29.12	183.26	-0.65	-0.23	0.66	192	1123	155		20	8-11	19	3,425	3,425	P/U 202, S/0 180, Rot 188
R	6:27	7:20	0:53	1839	1868	29			1849.86	28.05	182.80	-1.08	-0.46	1.10	192	1123	170		21	9-11	33	3,450	3,500	P/U 202, S/0 180, Rot 188
R	7:25	7:42	0:17	1868	1880	12			1879.39	28.45	182.54	0.41	-0.26	0.43	192	1123	170		21	9-11	42	3,450	3,500	
R	7:42	8:13	0:31	1880	1898	18	0	+1/2 °							192	1123	170		21	9-11	35	3,450	3,500	P/U 206, S/0 185, Rot 193; Toq2-3
R	8:32	8:55	0:23	1898	1914	16			1909.08	29.18	181.91	0.74	-0.64	0.80	192	1123	170		21	9-11	42	3,450	3,500	
R	8:55	9:25	0:30	1914	1928	14	0	+1/2 °							192	1123	170		21	9-11	28	3,450	3,500	
R	10:57	11:18	0:21	1928	1935	7									192	1123	170		20-25	9-11	20	3,450	3,500	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 32.57 **Meters Rotated :** 581 **Rotating ROP:** 17.8 m/hr

Total Time : 32.57 **Meters Drilled :** 581 **Average ROP:** 17.8 m/hr

WELL# Longtom-4 DATE: 30-Jun-08 Depth In : 755.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : 52.3°

Planned Direction : 183.55°

BHA # 4 BIT# 3 BHA : 13.5" PDC Bit, PD 900 13.5" BA, Receiver, FlexCollar, ARC8, Telescope 8.25 HG, 'ADN 8', X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 9 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 18.94 m Last Casing : 16" @ 750 m DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2

PD SURVEY SPACING = 2.63 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	11:18	12:15	0:57	1935	1958	23	0	25%R	1938.97	29.25	182.37	0.07	0.46	0.24	192	1123	170		20-25	9-10	24	3,450	3,500	
R	12:40	13:15	0:35	1958	1962	4									192	1123	170		22-25	9-10	7	3,500	3,500	
R	13:15	14:00	0:45	1962	1988	26		+1/2 °	1968.51	27.81	181.63	-1.46	-0.75	1.51	180	1053	170		15-18	9-10	35	3,200	3,200	P/U 211, S/0 188, Rot 193; Toq2-3
R	14:15	14:45	0:30	1988	1997	9	18	75							180	1053	170		15-18	9-10	18	3,200	3,200	Inclination dropping.
R	14:45	15:00	0:15	1997	2001	4	18	100	1998.05	27.26	181.66	-0.56	0.03	0.56	180	1053	170		10	3-5	16	3,200	3,200	Inclination dropping.
R	15:00	15:45	0:45	2001	2009	8	0	100							180	1053	130		10	3-5	11	3,200	3,200	Inclination dropping.; Control ROP to arrest drop
R	15:45	16:00	0:15	2009	2011	2	0	100							190	1112	130		10	3-5	8	3,500	3,500	
R	16:00	16:45	0:45	2011	2017	6	0	100							170	995	130		12	3-5	8	2,937	2,937	
R	17:10	17:30	0:20	2017	2021	4	0	100							205	1199	130		25	3-5	12	3,900	3,900	Trouble shoot TDS. RPM slows down on btm
R	19:04	19:26	0:22	2021	2031	10									205	1199	150		25	3-5	27	3,850	3,850	Still dropping on PD continuous inclination
																								POOH due to no tool response

TIME BREAKDOWN: (for new formation only)

Rotated Time : 5.48 **Meters Rotated :** 96 **Rotating ROP:** 17.5 m/hr

Total Time : 5.48 **Meters Drilled :** 96 **Average ROP:** 17.5 m/hr

WELL# Longtom-4 **DATE:** 3-Jul-08 **Depth In :** 2031.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 52.3°

Planned Direction : 183.55°

BHA # 5 **BIT#** 4 **BHA :** 13.5" PDC Bit, PD 900 13.5" BA, Receiver, FlexCollar, ARC8, Telescope 8.25 HG, 'ADN 8', X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 9 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 18.94 m **Last Casing :** 16" @ 750 m **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 2.63 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	22:48	23:10	0:22	2031	2044	13	18R	75	2028.03	26.98	181.70	-0.28	0.04	0.28	188	1100	150		25	14-16	35	3,750	3,750	Break in new bit with 100rpm, 3 WOB
R	23:18	23:25	0:07	2044	2048	4									188	1100	150		25	14-16	34	3,750	3,750	SCRs
R	23:56	0:02	0:06	2048	2055	7									188	1100	150		25	14-17	70	3,800	3,800	
R	0:02	0:20	0:18	2055	2078	23	36R	50	2057.68	29.01	184.81	2.05	3.15	2.53	188	1100	150		25	16-18	77	3,750	3,750	PU 223, SO 185, ROT wt 200 (4 July)
R	0:45	0:55	0:10	2078	2095	17			2087.27	29.58	188.03	0.58	3.26	1.70	194	1135	150		25	16-19	102	3,950	3,950	
R	0:55	1:07	0:12	2095	2108	13	45L	25							194	1135	150		25	16-18	65	3,950	3,950	PU 226, SO 185, ROT wt 202
R	1:25	1:40	0:15	2108	2126	18			2116.78	29.55	188.02	-0.03	-0.01	0.03	194	1135	150		22	8-20	72	3,975	3,975	Erratic torque, lower WOB
R	1:40	1:54	0:14	2126	2137	11	36L	50							194	1135	150		25	12-14	47	3,975	3,975	PU 226, SO 186, ROT wt 205
R	2:11	2:38	0:27	2137	2167	30			2146.82	30.97	187.12	1.42	-0.90	1.49	194	1135	150		25	13-19	67	3,975	3,975	
R	2:57	3:05	0:08	2167	2175	8									194	1135	150		22	8-23	60	3,975	3,975	Erratic torque, lower WOB
R	3:05	3:28	0:23	2175	2197	22	25%L	IH	2176.36	31.76	185.57	0.80	-1.57	1.15	194	1135	150		25	14-18	57	3,975	3,975	PU 230, SO 188, ROT wt 206
R	3:46	4:09	0:23	2197	2222	25			2206.21	31.48	183.82	-0.28	-1.76	0.96	194	1135	150		25	14-16	65	4,000	4,000	
R	4:09	4:15	0:06	2222	2226	4	no az	IH							194	1135	150		22	14-15	40	3,975	3,975	PU 238, SO 192, ROT wt 207
R	4:43	4:55	0:12	2226	2242	16			2235.88	31.35	183.41	-0.13	-0.41	0.25	194	1135	150		22	15-17	80	3,950	3,950	IBOP issue, pop off went
R	4:55	5:11	0:16	2242	2256	14		+ 1/2º	2265.38	32.11	184.62	0.77	1.23	1.01	194	1135	150		22	14-15	53	3,950	3,950	
R	5:31	6:11	0:40	2256	2286	30									194	1135	150		25	14-15	45	3,950	3,950	PU 246, SO 194, ROT wt 212
R	6:25	6:45	0:20	2286	2306	20			2295.93	31.69	185.04	-0.41	0.41	0.47	194	1135	150		25	14-15	60	3,950	3,950	
R	6:45	7:00	0:15	2306	2316	10									194	1135	150		22	14-15	40	3,950	3,950	2nd Kick off point 2316m
R	7:19	7:45	0:26	2316	2330	14	18L	75							194	1135	170		22	14-15	32	4,000	4,000	
R	8:08	8:15	0:07	2330	2345	15			2325.11	33.21	184.84	1.56	-0.21	1.57	194	1135	150		22	14-15	129	4,000	4,000	PU 250, SO 196, ROT wt 214
R	8:35	8:40	0:05	2345	2347	2	18L	65							194	1135	150		10	14-15	24	4,000	4,000	Stand pipe leaking. Work on it
R	15:10	15:21	0:11	2347	2360	13			2355.31	35.92	185.28	2.69	0.44	2.70	194	1135	150		20	14-15	71	4,050	4,050	ROP 70-80 m/hr
R	15:21	15:36	0:15	2360	2375	15	36L	50							194	1135	150		20	14-15	60	4,050	4,050	
R	15:51	16:12	0:21	2375	2403	28			2385.09	36.82	184.07	0.91	-1.22	1.16	194	1135	150		20	14-15	80	4,050	4,050	Seals on the SPP blew. Rack one stand and work
R	16:45	16:50	0:05	2403	2405	2									194	1135	150		20	14-15	24	4,050	4,050	
R	6:45	7:02	0:17	2405	2422	17			2413.59	37.70	183.21	0.93	-0.91	1.08	194	1135	150		16-20	14-22	60	4,050	4,050	
R	7:02	7:25	0:23	2422	2434	12	18L	75							194	1135	150		16-20	14-22	31	4,050	4,050	Seals on the SPP blew.
R	23:10	23:46	0:36	2434	2463	29									188	1100	150		17-20	15-17	48	3,900	3,900	PU 255, SO 198, ROT wt 221, reduce flow for standpipe

TIME BREAKDOWN: (for new formation only)

Rotated Time : 7.67 **Meters Rotated :** 432 **Rotating ROP:** 56.3 m/hr

Total Time : 7.67 **Meters Drilled :** 432 **Average ROP:** 56.3 m/hr

WELL# Longtom-4 DATE: 5-Jul-08 Depth In : 2031.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : 52.3°

Planned Direction : 183.55°

BHA # 5 BIT# 4 BHA : 13.5" PDC Bit, PD 900 13.5" BA, Receiver, FlexCollar, ARC8, Telescope 8.25 HG, 'ADN 8', X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 9 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 18.94 m Last Casing : 16" @ 750 m DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2

PD SURVEY SPACING = 2.63 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	0:11	0:47	0:36	2463	2493	30	18L	75	2472.44	42.55	182.99	2.47	-0.11	2.47	184	1076	150		20	17-21	50	3,775	3,775	High torque at 25 WOB
R	1:07	1:46	0:39	2493	2522	29			2502.19	45.34	182.77	2.81	-0.22	2.82	184	1076	150		20	15-17	45	3,775	3,775	SCR's
R	2:26	2:36	0:10	2522	2529	7									184	1076	150		20	11-14	42	3,775	3,775	
R	2:36	3:10	0:34	2529	2552	23	18L	65	2531.76	48.61	183.24	3.32	0.48	3.34	184	1076	150		20-23	11-15	41	3,775	3,775	
R	3:35	4:27	0:52	2552	2582	30			2561.19	50.89	182.57	2.32	-0.68	2.38	184	1076	150		21	12-13	35	3,800	3,800	PU 263, SO 200, ROT wt 225,
R	4:52	5:15	0:23	2582	2595	13			2578.22	52.52	183.03	2.87	0.81	2.94	184	1076	150		25	13-18	34	3,800	3,800	TD Survey
R	5:38	5:48	0:10	2595	2600	5									184	1076	150		20	15-20	30	3,775	3,775	Section TD

TIME BREAKDOWN: (for new formation only)

Rotated Time : 3.40 **Meters Rotated :** 137 **Rotating ROP:** 40.3 m/hr

Total Time : 3.40 **Meters Drilled :** 137 **Average ROP:** 40.3 m/hr

WELL# Longtom-4 P **DATE:** 25-Jul-08 **Depth In :** 2600.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 54.3°

Planned Direction : 183.55°

BHA # 9 **BIT#** 7 **BHA :** 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 3 x 5 1/2" HWDP,X/O, Jar, X/O, 15 x 5 1/2" HWDP, DP to surface

Wt below jar 12 Klbs

WD SURVEY SPACING = 20.07 m **Last Casing :** 10 3/8" @ 2591 m BHA Wt 33 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 4.14 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	5:35	5:45	0:10	2525	2551	26									68	398						1,000		Wash to bottom, tag cement at 2551m
	5:45	6:00	0:15	2551	2554	3									104	608	60		3	2-3	12	2,400	2,400	Drill Cement
	6:00	6:51	0:51	2554	2583	29									105	614	60		3	2-3	34	2,300	2,300	
	7:05	7:44	0:39	2583	2600	17			2599.84	54.17	183.43	(Xceed survey)			112	652	60				26	2,500	2,500	Xceed Survey. MWD survey bad
	7:44	8:10	0:26	2600	2604	4									112	652	60		10	2-3	9	2,500	2,500	Circulate hole clean for FIT
	10:05	10:34	0:29	2604	2613	9	0	0	2608.75	53.86	184.62	(Xceed survey)			120	702	100		10-25	2-15	19	2,900	2,900	Xceed Survey. MWD survey bad
	10:35	11:15	0:40	2613	2625	12			2621.57	53.72	182.84	0.83	-0.13	0.84	120	702	150		15-18	9-12	18	2,900	2,900	
	12:36	12:45	0:09	2625	2632	7									120	702	150		15-18	9-12	47	2,900	2,900	
	12:45	13:38	0:53	2632	2641	9	0	0							120	702	170		15-18	9-12	10	2,900	2,900	D/L High ROP
	14:20	14:38	0:18	2641	2645	4									120	702	180		15-18	9-12	13	2,900	2,900	D/L HIA; P/U 240; S/O 202; RT 218
	14:38	15:20	0:42	2645	2660	15	HIA		2651.30	53.37	183.55	-0.35	0.72	0.68	120	702	170		15	9-15	21	2,900	2,900	D/L Increase 0.4 deg
	15:20	16:18	0:58	2660	2671	11									110	644	170		10	9-10	11	2,400	2,400	No response on Xceed tool; P/U 240; S/O 202; RT 218
	16:35	17:04	0:29	2671	2685	14			2681.00	52.50	184.22	-0.88	0.68	1.03	110	644	170		10	9-10	29	2,400	2,400	
	17:04	17:25	0:21	2685	2690	5									110	644	170		10	9-10	14	2,400	2,400	D/L Increase 0.4 deg
	17:25	17:45	0:20	2690	2699	9									110	644	170		10	9-10	27	2,400	2,400	
	17:45	18:10	0:25	2699	2701	2									110	644	170		10	9-10	5	2,400	2,400	D/L High ROP
	18:24	19:14	0:50	2701	2731	30	0	20	2711.02	51.43	184.51	-1.07	0.29	1.09	128	749	180		10-20	11-13	36	3,000	3,000	PU 244, SO 200, RotWt 218
	19:42	19:50	0:08	2731	2736	5									128	749	180		15	13-15	38	3,025	3,025	
	20:00	20:16	0:16	2736	2748	12			2740.27	50.60	184.48	-0.85	-0.03	0.85	128	749	180		15	12-13	45	3,050	3,050	Hi torque at 20 WOB
	20:16	20:31	0:15	2748	2761	13	0	60							128	749	180		20	14-16	52	3,075	3,075	PU 246, SO 202, RotWt 222, fix leak on TDS
	20:55	21:15	0:20	2761	2765	4									128	749	170		19	14-17	12	3,075	3,075	
	21:15	22:01	0:46	2765	2790	25			2770.05	50.01	184.85	-0.59	0.37	0.66	128	749	170		15	14-16	33	3,075	3,075	PU 247, SO 202
	22:20	22:28	0:08	2790	2795	5									128	749	170		15	14-16	38	3,075	3,075	
	22:32	23:30	0:58	2795	2818	23			2798.55	47.70	183.57	-2.43	-1.35	2.63	128	749	180		17	8-14	24	3,075	3,075	PU 247, SO 208, RotWt 221
	23:30	0:59	1:29	2818	2841	23	0	0							128	749	180		7-15	7-11	16	3,100	3,100	Control ROP to 25 m/hr, core point at 2842 m

TIME BREAKDOWN: (for new formation only)

Rotated Time : 9.40 **Meters Rotated :** 241 **Rotating ROP:** 25.6 m/hr

Total Time : 9.40 **Meters Drilled :** 241 **Average ROP:** 25.6 m/hr

WELL# Longtom-4 P **DATE:** 27-Jul-08 **Depth In :** 2896.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** N/A

Planned Direction : 183.55°

BHA # 11 **BIT#** 9 **BHA :** 9.5" PDC Bit, Bit Sub c/w Ported Float,X/O, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 3 x 5 1/2" HWDP,X/O, Jar, X/O, 15 x 5 1/2" HWDP, DP to surface

Wt below jar 7 Klbs

WD SURVEY SPACING = 14.11 m **Last Casing :** 10 3/8" @ 2591 m BHA Wt 29 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = N/A m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	6:00	6:30	0:30	2607	2637	30									85	497	120		2-3	3-4		1,700	1,700	2620m taking wt. Wash down; wash + ream
R	6:48	7:05	0:17	2637	2666	29									85	497	60		2-3	3-4		1,700	1,700	Start logging
R	7:15	7:19	0:04	2666	2670	4									85	497	60		2-3	3-4		1,700	1,700	
				2670	2715	45																		RIH
R	7:37	7:43	0:06	2715	2724	9									85	497	60		2-3	3-4		1,600	1,600	Logging
R	7:52	7:56	0:04	2724	2735	11									85	497	60		2-3	3-4		1,600	1,600	Logging
				2735	2744	9																		RIH
R	7:59	8:14	0:15	2744	2754	10									85	497	60		2-3	3-4		1,600	1,600	Logging
R	8:14	8:25	0:11	2754	2766	12									85	497	60		2-3	3-4		1,600	1,600	Logging
				2766	2783	17									85	497	60					1,600	1,600	Wash down
				2783	2790	7																1,600	1,600	Wash down + RIH
R	8:40	9:00	0:20	2790	2813	23									85	497	60		2-3	3-4		1,600	1,600	
R	9:10	9:22	0:12	2813	2842	29									123	720	120		2-5	4-10		2,950	2,950	Wash + ream last stand prior to coring
R	9:33	10:37	1:04	2842	2871	29			2857.04	46.14	183.13	-0.80	-0.23	0.82	123	720	160		2-5	4-10	27	2,950	2,950	
R	10:50	11:35	0:45	2871	2896	25			2886.94	46.56	182.91	0.42	-0.22	0.45	123	720	160		2-5	4-10	33	2,900	2,900	
R	11:45	12:10	0:25	2896	2902	6									123	720	160		10-15	9-12	14	2,800	2,800	Drilling new formation
R	12:15	13:05	0:50	2902	2931	29			2916.37	46.19	183.31	-0.38	0.41	0.48	123	720	160		20-22	9-12	35	2,800	2,800	Off Btm Tq=9k P/U 247; RT 225; S/O 212
R	13:31	14:00	0:29	2931	2960	29			2946.06	45.04	184.18	-1.16	0.88	1.32	123	720	160		22	9-12	60	2,900	2,900	P/U 253; S/O 208; RT 224
R	14:15	15:05	0:50	2960	2976	16			2970.49	45.14	184.59	0.12	0.50	0.38	123	720	150		23	9-12	19	2,950	2,950	Hard drilling interval. Volcanic ~ 2965m. Attempt varying parameters. Max WOB 29k Pick up and restart pattern
R	15:05	16:00	0:55	2976	2978	2									110	644	120		29	9-12	2	2,300	2,300	
R	16:00	20:55	4:55	2978	2987	9									110	644	120		29	9-12	2	2,300	2,300	
																								Bit grade 1-7-WT-S-X-I-RO-TD

TIME BREAKDOWN: (for new formation only)

Rotated Time : 8.40 **Meters Rotated :** 91 **Rotating ROP:** 10.8 m/hr

Total Time : 8.40 **Meters Drilled :** 91 **Average ROP:** 10.8 m/hr

WELL# Longtom-4 H **DATE:** 2-Aug-08 **Depth In :** 2861.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 91.0°

Planned Direction : 183.55°

BHA # 13 **BIT#** 10 **BHA :** 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surfac

Wt below jar 14 klbs

WD SURVEY SPACING = 20.08 m **Last Casing :** 10 3/4" @ 2591 m BHA Wt 30 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2 **Downlink stks=** 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	8:38	8:55	0:17	2667	2690	23									68	398	50		25	2	81	900	900	Wash down. Soft cement @ 2687m
	9:00	9:23	0:23	2690	2695	5			2689.88	52.15	183.78	Xceed	Survey		111	649	120				13	2,600	2,600	Hard cement 2690m. P/U 230 S/O 197 RO 212
	9:45	11:00	1:15	2692.0	2696.0	4	108L	100							111	649	120				3	2,550	2,550	Ream 5 x ↑↓ initiate Ledge
	11:00	12:14	1:14	2696.0	2697.5	1.5									111	649	120		1-6	4-6	1	2,400	2,400	Time drill @ 4 ft/hr
	12:14	14:00	1:46	2697.5	2700.0	2.5									111	649	120				1	2,500	2,500	Time drill @ 5 ft/hr
	14:00	16:10	2:10	2700.0	2703.5	3.5									111	649	120				2	2,500	2,500	Time drill @ 6 ft/hr
	16:10	18:00	1:50	2703.5	2707.6	4.1									111	649	120		5-6	5-6	2	2,500	2,500	Time drill @ 7 ft/hr; 5- 10% formation
	18:00	19:00	1:00	2707.6	2709.5	1.9									112	655	120		7-8	4-5	2		2,550	5-20% formation
	19:00	20:00	1:00	2709.5	2711.2	1.7									112	655	120		8	4-5	2		2,450	20% formation
	20:00	21:00	1:00	2711.2	2713.4	2.2									112	655	120		7-8	5	2		2,450	20-25% formation
	21:00	22:00	1:00	2713.4	2715.4	2									112	655	120		7-8	5	2		2,450	40% formation
	22:00	23:00	1:00	2715.4	2717.5	2.1	120L	100							112	655	120		7-8	5-6	2		2,450	40, 50, 35% formation, downlink to 120 deg L
	23:00	0:00	1:00	2717.5	2719.8	2.3			2719.86	50.85	184.03	Xceed	Survey		112	655	120		6-7	5-6	2		2,475	60-70% formation, no change in continuous D&I
	0:00	2:53	2:53	2719.8	2724.8	5									112	655	120		7-8	5-6	2		2,475	70-90% formation, RtWt 212, PU 232, SO 200
	3:23	4:08	0:45	2724.8	2726.4	1.6									112	655	120		3	5-6	2		2,450	90-95% formation, WOB on last stand was +4 out
	4:08	5:12	1:04	2726.4	2729.7	3.3									112	655	120		2-3	6	3		2,425	Time drill @ 10 ft/hr
	5:12	6:00	0:48	2729.7	2733	3.3									112	655	120		4-5	6-7	4		2,425	
	6:00	6:36	0:36	2733	2736	3			2733.77	49.85	181.87	-2.08	-3.48	3.40	112	655	120		4-5	6-7	5		2,425	95% formation. Tr cement ROP 20 ft/hr
	6:36	6:53	0:17	2736	2738	2	84L	100							112	655	120		4-5	6-7	7		2,425	ROP 25 fr/hr. Keep TF to achieve separation 10m
	6:53	7:10	0:17	2738	2740	2									112	655	120		10	6-7	7		2,425	ROP 30 fr/hr
	7:10	7:18	0:08	2740	2743	3	84L	60							112	655	120		16	10-12	23		2,425	ROP 40 fr/hr
	7:18	7:25	0:07	2743	2746	3									112	655	120		16	10-12	26		2,425	ROP 70-100 fr/hr
	7:25	7:40	0:15	2746	2754	8			2749.72	50.46	179.37	Xceed	Survey		112	655	150		20	13-15	32		2,425	ROP 100-135 fr/hr
	8:00	8:10	0:10	2754	2758	4									120	702	150		20	14-16	24	2,750	2,750	
	8:10	8:40	0:30	2758	2770	12	84L	40	2763.58	51.38	177.62	1.54	-4.28	3.65	120	702	150		20	14-16	24	2,750	2,750	ROP 30 m/hr
	8:40	9:00	0:20	2770	2778	8	84L	30							120	702	160		25	13-14	24	2,800	2,800	
	9:00	9:05	0:05	2778	2784	6	84L	10	2779.54	52.30	176.37	Xceed	Survey		120	702	160		25	13-14	72	2,800	2,800	Connection as per K&M engineer
	9:35	9:49	0:14	2784	2792	8									120	702	160		25	13-14	34	2,800	2,800	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 23.40 **Meters Rotated :** 128 **Rotating ROP:** 5.5 m/hr

Total Time : 23.40 **Meters Drilled :** 128 **Average ROP:** 5.5 m/hr

WELL# Longtom-4 H DATE: 2-Aug-08 Depth In : 2861.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : 91.0° Page 2 of 4

Planned Direction : 183.55°

BHA # 13 BIT# 10 BHA : 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surface

Wt below jar 14 klbs

WD SURVEY SPACING = 20.08 m Last Casing : 10 3/4" @ 2591 m BHA Wt 30 klbs DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2 Downlink stks= 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	9:49	10:25	0:36	2792	2811	19	36R	10							120	702	160		25	14-15	32	2,800	2,800	Control ROP @ 35 m/hr. CBU due to engine
	10:53	11:05	0:12	2811	2813	2									100	585	160		10	12-13	10	1,950	1,950	problem. Continue at lower flow rate. Ream ↑↓
	11:25	12:01	0:36	2813	2822	9			2820.01	54.07	176.82	1.15	0.55	1.23	105	614	150		10-11	10-11	15	2,100	2,100	
	12:01	12:10	0:09	2822	2824	2	84R	10							105	614	150		10-11	10-11	13	2,100	2,100	Control ROP @ 20 m/hr
	12:10	12:44	0:34	2824	2835	11	84R	50							105	614	150		9-10	10-11	19	2,100	2,100	Control ROP @ 20 m/hr
	12:44	12:56	0:12	2835	2841	6	72R	50	2836.05	54.47	178.72	Xceed	Survey		105	614	150		9-10	10-11	30	2,100	2,100	
	12:56	13:07	0:11	2841	2842	1	72R	60							105	614	150		9-10	10-11	5	2,100	2,100	↑254k ↓212
	13:42	13:53	0:11	2842	2845	3	72R	60							105	614	150		9-10	10-11	16	2,100	2,100	
	13:53	14:04	0:11	2845	2846	1	72R	100							105	614	150		9-10	10-11	5	2,100	2,100	
	14:04	14:45	0:41	2846	2866	20	48	100	2850.81	54.91	179.97	0.82	3.07	2.63	105	614	150		9-10	10-11	29	2,100	2,100	To catch up inc and azimuth
	14:45	15:02	0:17	2866	2872	6	48	80	2867.31	56.31	183.11	Xceed	Survey		105	614	150		9-10	10-11	21	2,100	2,100	Recycle pump 3 x for survey. Change in formation
	15:33	15:45	0:12	2872	2874	2	48	80							105	614	150		9-10	10-11	10	2,100	2,200	↑260k ↓215 ROT=221
	15:45	16:04	0:19	2874	2883	9	48	100	2881.69	57.25	185.74	2.27	5.61	5.18	105	614	150		15-20	10-14	28	2,200	2,200	High DLS. Cut back Steering Ratio 2910m on wards
	16:04	16:40	0:36	2883	2902	19	0	100	2897.71	59.95	187.04	Xceed	Survey		105	614	150		15-20	10-14	32	2,200	2,200	
	17:00	17:20	0:20	2902	2910	8									120	702	150		9	10-11	24	2,700	2,700	
	17:20	17:30	0:10	2910	2914	4	0	70	2911.49	62.80	188.17	5.59	2.45	5.97	120	702	150		9	10-11	24	2,800	2,800	High DLS from previous survey. Reduce S Ratio
	17:35	17:55	0:20	2914	2923	9		30							120	702	150		9	10-11	27	2,800	2,800	High DLS from previous survey. Reduce S Ratio
	17:55	18:15	0:20	2923	2932	9		10	2927.30	64.32	187.78	Xceed	Survey		120	702	150		9	10-11	27	2,800	2,800	
	18:46	19:15	0:29	2932	2940	8									120	702	150		10-11	11-12	17		2,825	
	19:33	19:56	0:23	2940	2949	9			2941.41	65.11	188.76	2.32	0.59	2.38	120	702	150		10-11	11-12	23		2,825	Formations coming up high, instructed to stay above pl
	19:56	20:05	0:09	2949	2953	4	HS	30		Xceed surveys here on					120	702	150		6-7	11-12	27		2,800	
	20:05	20:28	0:23	2953	2962	9	24L	30	2957.37	66.49	189.09	2.59	0.62	2.65	120	702	150		7-8	11-12	23		2,800	RtWt 219, PU 260, SO 211
	21:03	21:20	0:17	2962	2969	7									120	702	150		7-8	11-12	25		2,850	MWD survey D&I gone bad, use Xceed surveys
	21:20	22:04	0:44	2969	2986	17	24L	0							120	702	150		7-8	11-12	23		2,850	Formation tops on target, drill as per plan
	22:04	22:23	0:19	2986	2991	5	84L	20	2987.28	68.43	190.05	1.95	0.96	2.14	120	702	150		9-10	11-12	16	2,850	2,825	RtWt 221, PU 264, SO 213
	23:12	0:34	1:22	2991	3019	28									120	702	150		10	11-12	20		2,850	
	0:34	0:48	0:14	3019	3021	2	84L	40	3016.23	69.90	189.20	1.52	-0.88	1.73	120	702	150		10	11-12	9		2,825	RtWt 220, PU 260, SO 212
	1:22	2:50	1:28	3021	3051	30			3046.70	71.87	185.88	1.94	-3.27	3.65	120	702	150		9	11-12	20		2,825	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 11.92 **Meters Rotated : 259** **Rotating ROP: 21.7 m/hr**

Total Time : 11.92 **Meters Drilled : 259** **Average ROP: 21.7 m/hr**

WELL# Longtom-4 H **DATE:** 2-Aug-08 **Depth In :** 2861.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 91.0°

Planned Direction : 183.55°

BHA # 13 **BIT#** 10 **BHA :** 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surface

Wt below jar 14 klbs

WD SURVEY SPACING = 20.08 m **Last Casing :** 10 3/4" @ 2591 m BHA Wt 30 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2 **Downlink stks=** 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	3:12	4:02	0:50	3051	3068	17	84L	40							120	702	150		7-8	11-12	20	2,825	2,825	DL off bottom to stop build
	4:09	4:46	0:37	3068	3081	13	180	40	3076.34	72.83	185.30	0.97	-0.59	1.12	120	702	150		7-8	11-12	21	2,825	2,825	
	5:56	6:50	0:54	3081	3096	15									120	702	150		7-8	11-12	17	2,825	2,825	
	6:50	7:23	0:33	3096	3102	6	12L	40							120	702	150		7-8	11-12	11	2,825	2,825	Build angle on geo inst
	7:23	8:01	0:38	3102	3108	6	12L	60	3016.23	69.90	189.20	1.52	-0.88	1.73	110	644	150		7-8	11-12	9	2,500	2,500	Reduce flow to achieve req. inc Control ROP as requir
	8:01	8:10	0:09	3108	3111	3									120	702	150		7-8	11-12	20	2,825	2,825	
	8:40	9:08	0:28	3111	3119	8									120	702	150		7-8	11-12	17	2,825	2,825	
	9:20	9:49	0:29	3119	3130	11	12L	30							110	644	150		7-8	11-12	23	2,825	2,825	
	9:49	9:56	0:07	3130	3132	2		10							120	702	150		7-8	11-12	17	2,825	2,825	Build to 77 deg and hold
	9:56	10:15	0:19	3132	3140	8	96L	10	3136.04	75.98	186.22	3.08	0.73	3.16	120	702	150		7-8	11-12	25	2,825	2,825	Arrest the building trend
	10:45	11:06	0:21	3140	3144	4									120	702	150		7-8	11-12	11	2,825	2,825	Stop drilling on Geo inst. Wait on decision
	11:06	11:20	0:14	3144	3147	3	48L	10							120	702	150		7-8	11-12	13	2,825	2,825	Continue drilling to build angle to max
	11:20	12:30	1:10	3147	3152	5	0	100							86	503	120		3-4	11-12	4	1,700	1,700	TQ spikes 4 short while. Inform Coman.
	12:30	13:25	0:55	3152	3159	7									100	585	120		5-6	11-13	8	2,200	2,200	↑272k ↓213 ROT=225
	13:25	14:10	0:45	3159	3170	11			3164.24	80.13	185.24	4.41	-1.04	4.53	100	585	120		5-6	11-13	15	2,200	2,200	Survey b4 connection. Wait on decision. Drop inc to 77
	15:40	17:00	1:20	3170	3184	14	168L	100							123	720	150		1-2	10-11	11	3,000	3,000	Drop inc to 77 in 30m- Coman Bill instruction
	17:20	17:44	0:24	3184	3191	7	84L	10							123	720	150		1-2	10-11	18	3,000	3,000	Maintain inc @ 78.5 until further. Flow check
	17:00	18:35	1:35	3191	3199	8	12L	40	3194.93	79.46	185.98	-0.65	0.72	0.97	100	585	150		1-2	9-11	5	2,125	2,125	Go to 81.5 inc @ 2.5 deg/30, ↑270k ↓216 ROT=227
	19:16	19:53	0:37	3199	3212	13									120	702	150		6-7	9-11	21	2,850	2,850	
	19:53	20:47	0:54	3212	3229	17	120L	40	3224.35	81.52	184.32	2.10	-1.69	2.68	120	702	150		7-8	9-11	19	2,850	2,850	DL to 96L then 120L
	21:39	22:18	0:39	3229	3247	18	36L	40							122	714	150		2-3	11-12	28	2,875	2,875	Go to 90 inc @ 2.5 deg/30 then hold 90 deg, ROP 30 m
	22:18	22:44	0:26	3247	3259	12	60L	40	3254.13	84.39	184.05	2.89	-0.27	2.90	130	761	150		10-15	13-14	28	3,225	3,225	ROP 46 m/hr
	23:58	0:08	0:10	3259	3263	4									130	761	150		10-15	13-14	24	3,225	3,225	Lost one pump
	0:20	1:03	0:43	3263	3289	26			3283.78	87.22	180.52	2.86	-3.57	4.57	136	796	150		20	14-16	36	3,475	3,475	MWD tool unable to start up 5 times
	1:38	1:53	0:15	3289	3299	10									136	796	150		20	14-15	40	3,450	3,450	Go to 93 inc @ 3 deg/30, hold 2.6 stds then drop to 90
	1:53	2:25	0:32	3299	3318	19	12L	20	3313.51	90.41	179.47	3.22	-1.06	3.39	136	796	150		20	14-15	36	3,450	3,450	
	2:56	3:35	0:39	3318	3345	27			3343.47	93.13	182.42	2.72	2.95	4.02	136	796	150		17-20	14-15	42	3,450	3,450	
	3:35	3:39	0:04	3345	3347	2	168L	20							136	796	150		20	14-15	30	3,450	3,450	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 16.78 **Meters Rotated :** 296 **Rotating ROP:** 17.6 m/hr

Total Time : 16.78 **Meters Drilled :** 296 **Average ROP:** 17.6 m/hr

WELL# Longtom-4 H DATE: 2-Aug-08 Depth In : 2861.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : 91.0° Page 4 of 4

Planned Direction : 183.55°

BHA # 13 BIT# 10 BHA : 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surface

Wt below jar 14 klbs

WD SURVEY SPACING = 20.08 m Last Casing : 10 3/4" @ 2591 m BHA Wt 30 klbs DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2 Downlink stks= 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	4:09	4:37	0:28	3347	3367	20	168R	20	3373.36	94.02	181.60	0.89	-0.82	1.21	136	796	150		18-19	14-16	43	3,450	3,450	↑276k ↓204 ROT=218
	4:37	4:53	0:16	3367	3378	11	156L	30							136	796	150		18-19	14-16	41	3,450	3,450	Missed DL 2-3
	5:29	5:44	0:15	3378	3388	10									136	796	150		20	15-16	40	3,425	3,425	
	5:44	6:06	0:22	3388	3403	15	180	40	3402.75	93.92	178.26	-0.10	-3.41	3.40	136	796	150		20	15-16	41	3,425	3,425	
	6:06	6:17	0:11	3403	3407	4		60							136	796	150		20	15-16	22	3,425	3,425	Service TDS
	6:55	7:40	0:45	3407	3425	18									130	761	150		17	15-16	24	3,300	3,300	
	7:40	8:00	0:20	3425	3437	12	144		3431.88	91.13	178.07	-2.87	-0.20	2.88	130	761	150		17	15-16	36	3,300	3,300	↑276k ↓204 ROT=218
	8:46	9:10	0:24	3437	3440	3	84	10							130	761	150		17	15-16	8	3,300	3,300	Hold 91° from Coman
	9:10	9:40	0:30	3440	3459	19									130	761	150		17	15-16	38	3,300	3,300	
	9:40	10:20	0:40	3459	3467	8	96	10	3461.34	91.68	178.76	0.56	0.70	0.90	130	761	150		17	15-16	12	3,300	3,300	
	10:45	11:00	0:15	3467	3471	4	HIA								130	761	150		17	15-16	16	3,300	3,300	HIA Desired Inc 91.2° ↑270k ↓206 ROT=216
	11:00	12:02	1:02	3471	3496	25			3492.03	91.51	180.60	-0.17	1.80	1.81	130	761	150		10-12	11-12	24	3,300	3,300	Increase Azimuth 2°
	12:40	12:55	0:15	3496	3506	10									130	761	150		10-12	11-12	40	3,300	3,300	Increase Azimuth 2° ↑272k ↓205 ROT=215 Desired Azi=181.9°
	12:55	13:35	0:40	3506	3525	19			3521.63	91.27	178.88	-0.24	-1.74	1.76	130	761	150		10-12	11-12	29	3,300	3,300	MWD tool not modulating. Trouble shoot
	15:30	15:50	0:20	3525	3535	10									111	649	150		7	14-15	30	2,600	2,600	
	15:50	16:30	0:40	3535	3549	14									111	649	150		7	14-15	21	2,600	2,600	DesAzimuth183.9°
	16:35	16:57	0:22	3549	3556	7			3551.39	91.44	180.83	0.17	1.97	1.97	107	626	150		8	14-15	19	2,500	2,550	
	17:37	18:22	0:45	3556	3574	18									107	626	150		6-8	12-14	24	2,600	2,600	Control ROP 80 ft/hr. ↑275k ↓199 ROT=217
	18:51	18:55	0:04	3574	3577	3									107	626	150		6-8	12-14	45	2,600	2,600	MWD tool not modulating. Trouble shoot
																								Decision to POOH to change MWD

TIME BREAKDOWN: (for new formation only)

Rotated Time : 8.57 **Meters Rotated : 230** **Rotating ROP: 26.8 m/hr**

Total Time : 8.57 **Meters Drilled : 230** **Average ROP: 26.8 m/hr**

WELL# Longtom-4 H **DATE:** 7-Aug-08 **Depth In :** 3577.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** -

Planned Direction : 183.55°

BHA # 14 **BIT#** 11 **BHA :** 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surfac

Wt below jar 14 klbs

WD SURVEY SPACING = 20.07 m **Last Casing :** 10 3/4" @ 2591 m BHA Wt 30 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2 **Downlink stks=** 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	8:22	8:40	0:18	3577	3584	7	0	0	3564.74	91.37	180.85	-0.16	0.04	0.16	112	655	150	0	9	13-14	23	2,900	2,900	
	9:10	9:20	0:10	3584	3590	6	HIA								112	655	140	0	10	13-14	36	2,700	2,700	Maintain inc as per Geologist Kevin
	9:20	10:27	1:07	3590	3614	24	↑2°	184.3°	3594.59	91.46	180.97	0.09	0.12	0.15	112	655	140	0	12	13-14	21	2,750	2,750	↑278k ↓183 ROT=215
	10:45	11:00	0:15	3614	3624	10									112	655	140	0	12	13-14	40	2,750	2,750	
	11:00	11:38	0:38	3624	3644	20	↑2°	186.3°	3624.29	91.46	182.60	0.00	1.65	1.65	112	655	140	0	12	13-14	32	2,750	2,750	
	11:58	12:37	0:39	3644	3660	16			3653.86	91.66	184.27	0.20	1.69	1.71	112	655	140	0	20	13-14	25	2,750	2,750	
	12:37	13:40	1:03	3660	3670	10	180	80							112	655	140	0	2-3	10-12	10	2,750	2,750	D/L High ROP. To drop inclination as per Geo
	13:40	13:50	0:10	3670	3673	3	180	20							112	655	140	0	2-3	10-12	18	2,750	2,750	↑266k ↓205
	14:20	15:45	1:25	3673	3678	5									112	655	140	0	2-3	10-12	4	2,750	2,750	
	16:00	16:32	0:32	3678	3689	11	HIA		3684.08	90.29	183.77	-1.36	-0.50	1.45	103	603	140	0	2-3	10-11	21	2,400	2,400	
	16:32	17:55	1:23	3689	3703	14									103	603	140	0	7	12-13	10	2,400	2,400	Desired Inc 90.4°
	18:35	18:59	0:24	3703	3714	11			3711.90	89.74	185.04	-0.59	1.37	1.49	120	702	150	0	7-8	12-13	28	3,075	3,075	
	18:59	19:08	0:09	3714	3718	4	180	20							120	702	150	0	7-8	12-13	27	3,075	3,075	
	19:08	19:22	0:14	3718	3724	6	180	40							120	702	150	0	7-8	12-13	26	3,075	3,075	
	19:22	19:55	0:33	3724	3732	8	180	0							120	702	150	0	18-19	15-16	15	3,075	3,075	ROT=216 ↑270k ↓185
	20:35	21:00	0:25	3732	3743	11			3740.99	88.54	184.85	-1.24	-0.20	1.25	120	702	150	0	18-19	15-16	26	3,100	3,100	
	21:00	21:41	0:41	3743	3762	19	180	30							120	702	150	0	7-8	13-14	28	3,100	3,100	
	22:13	22:20	0:07	3762	3765	3									120	702	150	0	7-8	13-14	26	3,100	3,100	
	22:20	23:18	0:58	3765	3791	26	180	20	3770.39	85.50	184.63	-3.10	-0.22	3.11	120	702	150	0	10-12	12-15	27	3,200	3,200	ROT=218 ↑262k ↓200
	23:55	0:39	0:44	3791	3814	23			3799.79	83.81	184.62	-1.72	-0.01	1.72	123	720	150	0	10-12	12-13	31	3,150	3,200	Go to 83 inc
	0:39	0:50	0:11	3814	3820	6	180	0							131	766	150	0	5-6	12-13	33	3,550	3,550	ROT=215 ↑271k ↓205 Tor 9-10 8 Aug
	1:12	1:49	0:37	3820	3838	18			3829.12	82.94	183.90	-0.89	-0.74	1.15	130	761	150	0	5-6	12-13	29	3,550	3,550	
	1:49	2:20	0:31	3838	3850	12	0	10							130	761	150	0	7-8	12-13	23	3,550	3,550	
	2:53	3:24	0:31	3850	3864	14			3859.22	84.01	183.23	1.07	-0.67	1.26	132	772	150	0	7-8	12-13	27	3,550	3,550	
	3:24	3:57	0:33	3864	3880	16	0	20							132	772	150	0	9-10	13-14	29	3,550	3,550	Go to 85 inc, ROT=218 ↑275k ↓207 Tor 9
	4:20	4:27	0:07	3880	3883	3									132	772	150	0	6	12-13	26	3,550	3,550	
	4:27	5:21	0:54	3883	3909	26	24R	30	3888.65	86.13	183.06	2.16	-0.17	2.17	132	772	150	0	6	12	29	3,550	3,550	Go to 88 inc
	5:46	6:52	1:06	3909	3939	30			3918.67	88.74	185.50	2.61	2.44	3.57	132	772	150	0	4-5	13-14	27	3,550	3,550	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 16.42 **Meters Rotated :** 362 **Rotating ROP:** 22.1 m/hr

Total Time : 16.42 **Meters Drilled :** 362 **Average ROP:** 22.1 m/hr

WELL# Longtom-4 H DATE: 8-Aug-08 Depth In : 3577.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : -

Planned Direction : 183.55°

BHA # 14 BIT# 11 BHA : 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surfac

Wt below jar 14 klbs

MWD SURVEY SPACING = 20.07 m Last Casing : 10 3/4" @ 2591 m BHA Wt 30 klbs DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2 Downlink stks= 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	7:12	7:51	0:39	3939	3958	19	168R	30	3948.20	89.63	186.27	0.90	0.78	1.20	132	772	150		7-10	13-14	29	3,600	3,600	
	7:51	8:13	0:22	3958	3968	10	168L	30							132	772	150		7-10	13-14	27	3,600	3,600	↑285k ↓193 ROT-215
	8:35	9:10	0:35	3968	3981	13			3977.71	86.96	185.58	-2.71	-0.70	2.80	132	772	150		7-10	13-14	22	3,600	3,600	Aiming to drop 3 º
	9:10	9:45	0:35	3981	3998	17	168L	40							132	772	150		7-10	13-14	29	3,600	3,600	
	10:15	11:11	0:56	3998	4026	28			4006.54	83.81	184.14	-3.28	-1.50	3.60	128	749	150		7-10	13-14	30	3,500	3,500	
	11:35	12:35	1:00	4026	4050	24	0	40							128	749	150		7-10	13-14	24	3,500	3,500	Build inc @ 3º.
	12:35	12:50	0:15	4050	4056	6	168R	40							128	749	150		7-10	13-14	24	3,500	3,500	Stop build. Continue drop @ 3º
	13:12	14:55	1:43	4056	4086	30			4065.35	82.21	183.76	0.11	0.53	0.54	128	749	150		7-10	13-14	17	3,500	3,500	↑301k ↓200 ROT-220
	16:00	16:40	0:40	4086	4096	10	HIA		4094.84	79.90	183.49	-2.35	-0.27	2.37	128	749	150		8-9	12-13	15	3,500	3,500	Instructed to hold it at 80º for this stand by geo
	16:40	17:00	0:20	4096	4100	4	168R	40							128	749	150		8-9	12-13	12	3,500	3,500	Drop inc=78º Then hold until further inst
	17:15	17:54	0:39	4100	4112	12									120	702	150		8-9	12-13	18	3,150	3,150	
	17:54	18:15	0:21	4112	4115	3	84R	10							120	702	150		8-9	12-13	9	3,150	3,150	Hold Inc for 1 stand
	18:46	19:46	1:00	4115	4142	27			4124.38	77.56	183.62	-2.38	0.13	2.38	131	766	150		7-8	13-14	27	3,550	3,550	Hold Inc for 1 stand
	19:46	19:58	0:12	4142	4145	3	24R	30							131	766	150		11-12	13-14	15	3,625	3,625	ROT=220 ↑280k ↓207
	20:23	20:33	0:10	4145	4149	4									131	766	150		11-12	13-14	24	3,625	3,625	
	20:33	21:06	0:33	4149	4164	15	24R	40	4153.91	78.91	185.00	1.37	1.40	1.94	131	766	150		9-10	13-14	27	3,700	3,700	
	21:06	21:32	0:26	4164	4174	10									131	766	150		9-10	13-14	23	3,600	3,600	Go to 93 inc then 90 inc at TVD 2671m RT
	22:00	22:10	0:10	4174	4180	6									131	766	150		9-10	13-14	36	3,600	3,600	
	22:10	22:19	0:09	4180	4185	5			4183.07	81.41	187.28	2.57	2.35	3.46	131	766	150		9-10	13-14	33	3,600	3,600	
	22:19	22:36	0:17	4185	4195	10	24R	60							131	766	150		9-10	13-14	35	3,600	3,600	
	22:36	22:42	0:06	4195	4198	3									131	766	150		9-10	13-14	30	3,600	3,600	
	22:42	22:58	0:16	4198	4204	6	24R	40							131	766	150		9-10	13-14	23	3,600	3,600	
	23:28	23:41	0:13	4204	4211	7									131	766	150		12-13	13-15	32	3,600	3,650	
	23:41	0:20	0:39	4211	4233	22	12R	60	4212.97	85.21	190.62	3.81	3.35	5.06	131	766	150		12-13	13-15	34	3,650	3,650	ROT=217 ↑308k ↓184 Tor 10
	0:44	0:56	0:12	4233	4239	6									131	766	150		7-9	14-15	30	3,750	3,750	9 Aug
	0:56	1:34	0:38	4239	4261	22	12R	50	4242.27	89.94	193.94	4.84	3.40	5.91	131	766	150		19-20	15-17	35	3,750	3,750	ROT=216 ↑290k ↓201
	1:34	1:38	0:04	4261	4263	2	12R	30							131	766	150		10-20	15-17	30	3,750	3,750	
	1:58	2:11	0:13	4263	4270	7									131	766	150		10	15-17	32	3,750	3,750	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 13.38 **Meters Rotated : 331** **Rotating ROP: 24.7 m/hr**

Total Time : 13.38 **Meters Drilled : 331** **Average ROP: 24.7 m/hr**

WELL# Longtom-4 H **DATE:** 9-Aug-08 **Depth In :** 3577.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** -

Planned Direction : 183.55°

BHA # 14 **BIT#** 11 **BHA :** 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surfac

Wt below jar 14 klbs

WD SURVEY SPACING = 20.07 m **Last Casing :** 10 3/4" @ 2591 m BHA Wt 30 klbs **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2 **Downlink stks=** 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	2:11	2:28	0:17	4270	4280	10	180	30	4270.99	92.69	195.73	2.87	1.87	3.43	132	772	150		10	15-16	35	3,750	3,750	
	2:28	2:40	0:12	4280	4286	6	180	10							132	772	150		10	15-16	30	3,750	3,750	Downlink off bottom due to dropping too fast
	3:00	3:08	0:08	4286	4291	5	0	20							132	772	150		13	15-16	38	3,750	3,750	
	3:33	3:57	0:24	4291	4307	16			4301.34	92.03	195.79	-0.65	0.06	0.66	132	772	150		10	14-15	40	3,700	3,700	ROT=218 ↑286k ↓206
	3:57	4:03	0:06	4307	4310	3	0	0							130	761	150		7	14-15	30	3,775	3,775	
	4:03	4:22	0:19	4310	4322	12									130	761	150		10	14-15	38	3,775	3,775	
	4:44	4:54	0:10	4322	4329	7	180	0							131	766	150		9-10	14-15	42	3,800	3,800	
	4:54	5:23	0:29	4329	4348	19	180	20	4331.00	92.98	195.62	0.96	-0.17	0.98	131	766	150		12-13	14-16	39	3,800	3,800	Start going to 2671m TVD RT
	5:23	5:30	0:07	4348	4351	3	180	10							131	766	150		12-13	14-16	26	3,800	3,800	
	5:57	6:02	0:05	4351	4356	5									131	766	150		9-10	15-16	60	3,800	3,800	Go to 2676m drop @ 3-4°/30m
	6:02	6:11	0:09	4356	4360	4	180	30							131	766	150		12-13	14-16	27	3,800	3,800	Go to Inc 85 @ 3-4°/30m
	6:11	6:24	0:13	4360	4365	5			4360.69	90.97	195.41	-2.03	-0.21	2.04	131	766	150		12-13	14-16	23	3,800	3,800	
	6:24	6:31	0:07	4365	4370	5	156L	40							131	766	150		12-13	14-16	43	3,800	3,800	
	6:32	6:52	0:20	4370	4381	11									131	766	150		12-13	14-16	33	3,800	3,800	
	7:16	7:58	0:42	4381	4401	20			4390.61	87.74	193.25	-3.24	-2.17	3.90	131	766	150		12-14	14-16	29	3,900	3,900	
	8:28	8:46	0:18	4401	4423	22			4419.25	84.58	189.93	-3.31	-3.48	4.80	131	766	150		12-14	14-16	73	3,900	3,900	
	8:46	8:56	0:10	4423	4428	5		30							131	766	150		12-14	14-16	30	3,900	3,900	Continue drop 2
	8:56	9:06	0:10	4428	4429	1									131	766	150		12-14	14-16	6	3,900	3,900	Maintain Inc 84°
	9:07	9:17	0:10	4429	4433	4	HIA								131	766	150		12-14	14-16	24	3,900	3,900	Maintain Inc 84°
	9:17	9:35	0:18	4433	4438	5									131	766	150		12-14	14-16	17	3,900	3,900	Reduce Azimuth 2°
	9:35	9:47	0:12	4438	4439	1	12L	30							131	766	150		12-14	14-16	5	3,900	3,900	Build back to 90° @ 2.5-3°/30m
	10:10	10:53	0:43	4439	4453	14			4448.12	85.64	190.34	1.10	0.43	1.18	131	766	150		12-14	14-16	20	3,900	3,900	
	11:04	11:52	0:48	4453	4469	16	HIA								131	766	150		12-14	14-16	20	3,900	3,900	Stop building back. Hold Inc @ 84.7°
	12:20	13:09	0:49	4469	4484	15			4478.07	84.87	191.52	-0.77	1.18	1.41	131	766	150		12-14	14-16	18	3,900	3,900	
	13:09	13:45	0:36	4484	4498	14									131	766	150		12-14	14-16	23	3,900	3,900	D/L <2° Azimuth
	14:16	14:50	0:34	4498	4520	22			4507.60	84.61	193.02	-0.26	1.52	1.54	131	766	150		18-20	14-16	39	3,900	3,900	
	14:50	15:15	0:25	4520	4528	8									131	766	150		18-20	14-16	19	3,900	3,900	D/L <3° Azimuth
	16:12	16:22	0:10	4528	4531	3									131	766	150		18-20	14-16	18	3,900	3,900	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 9.18 **Meters Rotated :** 261 **Rotating ROP:** 28.4 m/hr

Total Time : 9.18 **Meters Drilled :** 261 **Average ROP:** 28.4 m/hr

WELL# Longtom-4 H DATE: 9-Aug-08 Depth In : 3577.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : -

Planned Direction : 183.55°

BHA # 14 BIT# 11 BHA : 9.5" PDC Bit, Xceed 675, EcoScope 675, Telescope 675, 5" NM HWDP, X/O, 6 x 5 1/2" HWDP,X/O, Jar, X/O, 12 x 5 1/2" HWDP, DP to surfac

Wt below jar 14 klbs

WD SURVEY SPACING = 20.07 m Last Casing : 10 3/4" @ 2591 m BHA Wt 30 klbs DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2 Downlink stks= 2x4

PD SURVEY SPACING = 4.11 m

	DRILLING TIME			RSS Work Sheet			Des	Steer	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf				ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Dist	T/F	%	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM		WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
	16:22	17:15	0:53	4531	4558	27	HIA		4538.99	84.55	192.67	-0.06	-0.33	0.34	131	766	150		18-20	14-16	31	3,900	3,900	D/L <6° Azimuth
	22:30	22:40	0:10	4558	4560	2									131	766	150		10	14-16	12	3,975	3,975	Picked up 4 more stands of drill pipe
	23:08	0:07	0:59	4560	4591	31			4568.77	84.96	189.40	0.41	-3.29	3.31	131	766	150		18-19	17-18	32	4,100	4,100	DL to 4 min drill cycle at 23:21, 4568m
	0:30	0:42	0:12	4591	4595	4									131	766	150		14	14-16	20	4,050	4,050	ROT=213 ↑339k ↓165 Tor 10-11, 10 Aug
	0:42	1:24	0:42	4595	4619	24	180	30	4598.48	84.84	186.02	-0.12	-3.41	3.40	131	766	150		14-20	15-16	34	4,050	4,050	Go down at 3-4 deg/30m
	1:45	1:52	0:07	4619	4623	4			4627.92	82.10	185.79	-2.79	-0.23	2.80	131	766	150		17	17-18	34	3,975	3,975	
	1:52	2:30	0:38	4623	4648	25	180	45	4643.88	80.20	185.48	-3.57	-0.58	3.62	131	766	150		17-18	16-18	39	4,050	4,050	TD well, ROT=211↑280k ↓177
							180	0	(last survey is from Xceed tool)															Set Xceed to neutral
																								Bit Grade: 1-1-WT-N-X-I-NO-TD

TIME BREAKDOWN: (for new formation only)

Rotated Time : 3.68 Meters Rotated : 117 Rotating ROP: 31.8 m/hr

Total Time : 3.68 Meters Drilled : 117 Average ROP: 31.8 m/hr

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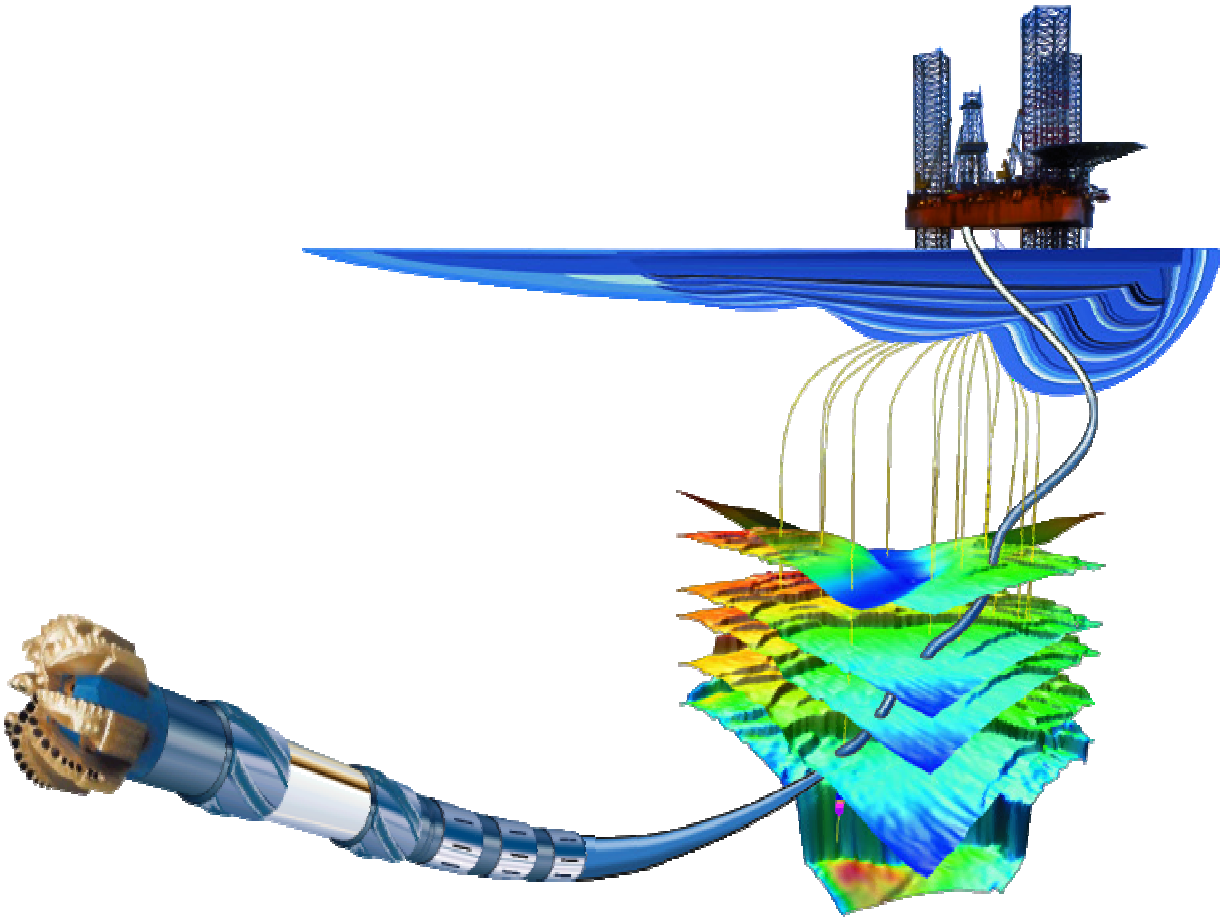
Drilling Tool Run Reports



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Equipment Run Summary Report

22-Jun-2008
7:57AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 1

Run Information

	Date In		Date Out
	20-Jun-2008 11:29PM		21-Jun-2008 8:00AM
Depth (MD):	97.0 m	to	133.0 m
Depth (TVD):	97.0 m	to	133.0 m
Inclination:	0.00 deg	to	0.56 deg
Azimuth:	0.00 deg	to	358.29 deg

Drilling Distance:	133.00 m	Drilling Hours:	2.60 hrs
Rotary Drilling Distance:	133.00 m	Rotary Drilling Hrs:	2.60 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	0.00 m	Reaming Hours:	0.00 hrs
		Hrs Below Rotary:	8.00 hrs
		Total Pumping Hrs:	2.60 hrs

Hole Size:	36.00 in	Min DLS:	0.00 deg/30 m
Last Casing Size:	0.000 in	Max DLS:	0.44 deg/30 m
Last Casing Depth:	0.0 m (MD)	Max DLS Depth:	124.1 m
Tool Face Arc:	.0 cm	Surface Screen:	No
Total Face Angle:	0.00 deg	DFS Used:	No

North Ref Used:	Magnetic North	Inline Filter:	No
Magnetic Dec:	13.100 deg		
Grid Correction:	0.000 deg		
Total Correction:	13.100 deg		
Est. Mag. Int:	0.00 deg		

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	67.00 m	Pulse Damp Press:	700 psi
Air Gap:	17.00 m	Number of Pumps:	1
RKB Height:	40.00 m	Pump Line ID:	6.50 in
Ground Elevation:	106.95 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

Longtom-4 well is located in VIC/L 29 Gippsland Basin, approximately 32km from nearest landfall in south eastern Victoria in approximately 57m water depth. Planned to drill up to 3 sections.

This run will drill 36in hole using 26in bit x 36in holeopener to 30in conductor point @133m. PowerPulse will be used to provide inclination. Inclination will be provided before spudding seabed.

D&M Crew List:

Cell Manager: Yuda
Crew: San thida Aung, MWD
Yuda Yuda, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m	RSS Manufacturer:	
Motor Type:		Bearing Play In:	in	RSS Type:	
Motor Size:		Bearing Play Out:	in	RSS SN:	
Serial No.:		Bent Sub Angle:	deg	RSS Size:	
Lobe Config:		Bent HSG Angle:	deg	Pulse Ht Threshold:	
Stage Length:	m			Min Pulse Width:	
Rubber:				Max Pulse Width:	
Sleeve Position:				Conn Phase Angle:	deg
Sleeve Size:	in			Rise Time Const:	
Bearing Type:				Fall Time Const:	
				Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	0.00 deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.01200 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	25.0 psi
SPT Type:	HA						

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Equipment Run Summary Report

22-Jun-2008
7:57AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 1

Drilling Parameters

	Min	Max	Avg
BH Temperature:			
Surface RPM:	60.00 rpm	60.00 rpm	60.00 rpm
ROP:	3.80 m/hr	88.60 m/hr	40.00 m/hr
Surface Torque:	1.20 kft.lbf	1.20 kft.lbf	1.20 kft.lbf
Flow Rate:	1,014.00 galUS/min	1,014.00 galUS/min	1,014.00 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 k
Max Shock Level: 0
Max Shock Duration: 0 sec
Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg

Average Pump Pressure: psi
H2S In Well: No

Turbine RPM @ Min Flow Rate: rpm Min Flow Rate: galUS/min SPP Off Bottom: psi
Turbine RPM @ Max Flow Rate: rpm Max Flow Rate: galUS/min SPP On Bottom: 800.00 psi

Mud Information

Mud Type: Sea Water Mud Clean: No pH:
Mud Company: Halliburton LCM Type: Chlorides: ppm
Mud Brand: Baroid Fluid Services LCM Size: Sand Content: %
Funnel Viscosity: 155.00 s/qt LCM Concentration: lbs/bbl Solids: %
Plastic Viscosity: 20.00 cp Weighting Material: Barite Percent Oil: %
Yield Point: 70.00 lbm/100ft2 Mud Weight: 9.60 lbm/galUS
Mud Resistivity: ohm-m

IADC Bit Grading

Manufacturer: Hycalog Total Revs: IADC Code: 115
Model: Y11C Stick/Slip: 0 Jets (/ 32 in): 3X22
Type: Milltooth Reason Pulled: Total Depth/Casing Depth Bit TFA: 1.11 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	1.00	WT	A	E	I	NO

End of Run - Summary

Sync Hours: 0.00 hrs Downhole Noise: No Run Failed: No
Jamming: No 0.00 hrs Surface System Failure: No D&M Trip: No
Surface Vibration: No Surface Noise: No Low Oil Flag: No 0.00 hrs
Trans Fail: No H2S in Well: No Filter Screen/Plug Shear: No

Client Inconvenience: **No** Lost Time: hrs
Reason for POOH: Total Depth/Casing Depth
D&M Run Obj Met? [DD and MWD/LWD]: **No**

Brief Run Summary:

Power Pulse D&I only was used on this run. Servey was taken before spudding the sea bed to make sure the inclination was less than 0 deg. Drill to 133m at 30in conductor point. It took about 4 hrs drilling time to reach TD.

Three surveys were obtained during the section.
All the surveys are within Tool G and out of Tool H and Dip due to Drill string magnetic interference.
The tool was racked back and ready to use for next section.

If not, why?:

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Equipment Run Summary Report

22-Jun-2008
7:57AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 1

Equipment on the Run

	Pump Hours			
Equipment	Start	Cumulative	Software Version	Tool Size
MDCIX-HA-E0438	0.00 hrs	2.60 hrs	8.0	9.50 in

Services on the Run

			Real Time			Recorded Mode			
Equipment	Service	Tool Name	Hours	Failed	Depth	Hours	Failed	Depth	CAF
MWD	D&I	PowerPulse	2.60 hrs		133.0 m	hrs			
MWD	Cont D&I	PowerPulse	2.60 hrs		133.0 m	hrs			

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BHA Repo

22-Jun-2
7:5

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Sean De Freitas **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 1 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	OD	Len, m	OD	Size	Type	Size	Type	Cumul Le
1	BIT	Hycalog	Milltooth	34406	0.62 m	26.00									0.62
2	BIT SUB	SeaDrill		Seadrill	2.77 m	36.00	3.63								3.39
3	FLOAT SUB	SeaDrill		7207	1.23 m	9.50	3.50								4.62
4	MWD	D&M	PowerPulse	E0438	8.83 m	9.50	3.50								13.45

Predicted BHA Tendency:

Hookload Out:
Pickup Out:
Slack Weight:

Wt Below Jars:
Wt Above Jars:
Total Air Wt:

	Mid Pt	Blade			Gauge		
Stab Description	to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port			Bit to Measurement Port	
MWD-PowerPulse	9.10	m	PowerPulse-D&I	9.05

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Time Description Report

22-Jun-2008
7:57AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Sean De Freitas	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run Number:	1				

Date/Time	Depth		Description
20-Jun-2008 7:00PM	0.0	m	Pick MWD on 26 x 36 in BHA.
20-Jun-2008 8:30PM	0.0	m	Tool BRT
20-Jun-2008 9:00PM	0.0	m	RIH to sea bed.
21-Jun-2008 1:00AM	39.0	m	SHT OK. Flow 649, 2 x 111 SPM, MWD Stat = 0, Signal strength = 20psi.
21-Jun-2008 4:00AM	133.0	m	TD 36in Section.
21-Jun-2008 5:00AM	133.0	m	Circulate and POOH to surface for running conductor.
21-Jun-2008 8:00AM	0.0	m	Tool ART. Rack back BHA.

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Drilling Parameters Repo

22-Jun-2
7:57:4

Job Number: 08ASQ0007
Company Rep: Sean De Freitas
Run Number: 1

Company: NEXUS ENERGY LTD
Location: MEA-APG-ASS

Rig Name: West Triton
Well Name: Longtom-4

	21-Jun-2008 3:30 AM
Field Engineer	San thida Aung
Depth	130.00 m
Avg ROP	4.50 m/hr
On Bottom ROP	13.85 m/hr
Flow Rate	1,014.00 galUS/min
Turbine RPM	
Surface RPM	60 rpm
WOB Rotating	129.60 klbm
WOB Sliding	
DH WOB	
Surface Torque	1.20 kft.lbf
DH Torque	
Hookload	
PickUp Weight	
Slack Weight	
Friction	
SPP On Bottom	800.00 psi
SPP Off Bottom	
Diff Pressure	
BH Temperature	
Total Shocks (k)	
Max Shock Level	
Max Shock Duration	
Torsional Vib	
Lateral Vib	
Axial Vib	
CRPM	50 rpm
Stick/Slip	
Formation	Other
Signal Strength	15.00 psi
Percent Signal Conf	90 %

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Daily Drilling Activity Report

22-Jun-2008
7:57AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Sean De Freitas	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	1				

From	To	Elapsed	Depth in m From	Depth in m To	IADC Activity	Description
20-Jun-2008						
00:00	06:30	6.50	0.0	0.0	Rig up / Rig down	Jacking up to 17ft, install combo hose
06:30	12:00	5.50	0.0	0.0	MWD/LWD service quality	continue rig skid in to drilling position ,make rig secure, install service lines
12:00	17:30	5.50	0.0	0.0	Rig up / Rig down	RIH, change elevator for 5" and troubleshoot drive
17:30	20:00	2.50	0.0	0.0	Rig up / Rig down	Make up 30" running tool,
20:00	00:00	4.00	0.0	0.0	Rig up / Rig down	Pick up BHA. sea level 39.9m
21-Jun-2008						
00:00	03:00	3.00	97.0	124.0	Drilling	Making connection and drilling
03:00	04:00	1.00	124.0	133.0	Drilling	Hit TD @ 4:12 am
04:00	06:30	2.50	0.0	0.0	PU / LD BHA / Tripping	POOH with 26" BHA from 132 m to 60 m, Laid out8.25 DC.
06:30	12:00	5.50	0.0	0.0	Run casing / cement	Install 30" conductor handriling equipment. Install bulls eye.
12:00	15:00	3.00	0.0	0.0	PU / LD BHA / Tripping	RIH 30" conductor. Set @ 128.86m.
15:00	17:00	2.00	0.0	0.0	Squeeze cement	Displace cement @ SBPM
17:00	22:00	5.00	0.0	0.0	Wait on cement	Prepare next BHA. RIH Down cement line
22:00	00:00	2.00	0.0	0.0	PU / LD BHA / Tripping	Release 30" conductor R/T. Start breaking R/T connections.

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Equipment Run Summary Report

24-Jun-2008
6:35PM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2

Run Information

	Date In		Date Out
	22-Jun-2008 4:08AM		24-Jun-2008 7:30AM
Depth (MD):	133.0 m	to	755.2 m
Depth (TVD):	133.0 m	to	755.2 m
Inclination:	0.56 deg	to	0.71 deg
Azimuth:	358.29 deg	to	327.45 deg

Drilling Distance:	622.00 m	Drilling Hours:	31.00 hrs
Rotary Drilling Distance:	622.00 m	Rotary Drilling Hrs:	31.00 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	0.00 m	Reaming Hours:	0.00 hrs
		Hrs Below Rotary:	22.00 hrs
		Total Pumping Hrs:	32.00 hrs

Hole Size:	22.00 in		
Last Casing Size:	30.000 in	North Ref Used:	Magnetic North
Last Casing Depth:	128.8 m (MD)	Magnetic Dec:	13.100 deg
Tool Face Arc:	.0 cm	Grid Correction:	0.000 deg
Total Face Angle:	0.00 deg	Total Correction:	13.100 deg
		Est. Mag. Int:	0.00 deg

Min DLS:	0.03 deg/30 m
Max DLS:	0.20 deg/30 m
Max DLS Depth:	563.3 m
Surface Screen:	No
DFS Used:	No
Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	67.00 m	Pulse Damp Press:	700 psi
Air Gap:	17.00 m	Number of Pumps:	1
RKB Height:	40.00 m	Pump Line ID:	6.50 in
Ground Elevation:	106.95 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

The 22in surface hole will be drilled vertically to +/-760mMDRT.

The 16in shoe will be set in the Gippsland Limestone. This will allow the 13.5in hole section to be drilled with full BOP control. The predicted fracture gradient at the shoe is expected to be +/-14.6ppg.

Schlumberger's Powerpulse MWD tool will be included in the BHA for survey and real time GR.
The objective is to drill the 22in section in a single run using Smith's XR+C milled tooth bit.

D&M Crew List:

Cell Manager: Yuda
Crew: San thida Aung, MWD
Yuda Yuda, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m	Stage Length:	m
Motor Type:		Bearing Play In:	in	Rubber:	
Motor Size:		Bearing Play Out:	in	Sleeve Position:	
Serial No.:		Bent Sub Angle:	deg	Sleeve Size:	in
Lobe Config:		Bent HSG Angle:	deg	Bearing Type:	

RSS Information

RSS Manufacturer:		Min Pulse Width:	
RSS Type:		Max Pulse Width:	
RSS SN:		Conn Phase Angle:	deg
RSS Size:		Rise Time Const:	
Pulse Ht Threshold:		Fall Time Const:	
		Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.01200 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	12.0 psi
SPT Type:	HA						

Schlumberger

Equipment Run Summary Report

24-Jun-2008
6:35PM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2

Drilling Parameters

	Min	Max	Avg
BH Temperature:	18.00 degC	21.00 degC	19.28 degC
Surface RPM:	108.00 rpm	160.00 rpm	142.29 rpm
ROP:	14.10 m/hr	25.24 m/hr	20.66 m/hr
Surface Torque:	0.02 kft.lbf	3.09 kft.lbf	1.21 kft.lbf
Flow Rate:	1,140.00 galUS/min	1,169.00 galUS/min	1,153.57 galUS/min
WOB Sliding:			

Total DH Shocks (k):	0 k
Max Shock Level:	0
Max Shock Duration:	0 sec
Checkshot Type:	
Checkshot Depth:	m
Checkshot Incl:	deg
Checkshot Azim:	deg
H2S In Well:	No

Average Pump Pressure: 5 psi

Turbine RPM @ Min Flow Rate:	4,023 rpm	Min Flow Rate:	1,140.00galUS/min	SPP Off Bottom:	1,690.00 psi
Turbine RPM @ Max Flow Rate:	4,101 rpm	Max Flow Rate:	1,169.00galUS/min	SPP On Bottom:	1,697.00 psi

Mud Information

Mud Type:	Sea Water	Mud Clean:	Yes	pH:	
Mud Company:	Halliburton	LCM Type:		Chlorides:	ppm
Mud Brand:	Baroid	LCM Size:		Sand Content:	%
Funnel Viscosity:	155.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	%
Plastic Viscosity:	20.00 cp	Weighting Material:		Percent Oil:	%
Yield Point:	70.00 lbm/100ft2	Mud Weight:	9.60 lbm/galUS		
Mud Resistivity:	ohm-m				

IADC Bit Grading

Manufacturer:	Smith	Total Revs:		IADC Code:	115
Model:	XR-C	Stick/Slip:	0	Jets (/ 32 in):	3X22 1X15
Type:	Milltooth	Reason Pulled:	Total Depth/Casing Depth	Bit TFA:	1.28 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	1.00	WT	A	E	I	NO

End of Run - Summary

Sync Hours:	0.00 hrs			Downhole Noise:	No	Run Failed:	No
Jamming:	No	0.00 hrs		Surface System Failure:	No	D&M Trip:	No
Surface Vibration:	No			Surface Noise:	No	Low Oil Flag:	No 0.00 hrs
Trans Fail:	No			H2S in Well:	No	Filter Screen/Plug Shear:	No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: **No**

Brief Run Summary:

Slick BHA was picked for this run. Having problem while stabbing the hole due to weather and ROV not functioning. Managed to stab the hole after a while. RIH to top of cement @125m. Drilled out cement and drill new formation to section TD.

Powerpulse D&I and Gamma Ray were provided on this section. Survey was taken every 3 stands. Drill from 133m to 755m MD.
All the surveys are in within Tool G. Tool H and DIP were out throughout the run due drill string magnetic interference. Good signal from MWD were observed.

TD 22in section @755m. POOH for running 16in casing.

If not, why?:

Schlumberger

Equipment Run Summary Report

24-Jun-2008
6:35PM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2

Equipment on the Run

	Pump Hours			
Equipment	Start	Cumulative	Software Version	Tool Size
MDCIX-HA-E0438	2.60 hrs	34.60 hrs	8.0	9.50 in

Services on the Run

			Real Time			Recorded Mode			
Equipment	Service	Tool Name	Hours	Failed	Depth	Hours	Failed	Depth	CAF
MWD	D&I	PowerPulse	32.00 hrs		622.0 m	hrs			
MWD	Gamma Ray	PowerPulse	32.00 hrs		622.0 m	hrs			

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BHA Repo

24-Jun-2
6:3

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2 **BHA Type:** Rotary

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	OD	Len, m	OD	Size	Type	Size	Type	Cumul Le
1	BIT	Smith	Milltooth	M23173	0.58 m	22.00							7 5/8"	API REG PIN	0.58
2	BIT SUB	Sea Drill		7207	1.23 m	9.50	3.50				7 5/8"	API REG PIN	7 5/8"	API REG BOX	1.81
3	MWD	D&M	PowerPulse	E0438	8.84 m	9.50	3.50				7 5/8"	API REG PIN	7 5/8"	API REG BOX	10.65

Predicted BHA Tendency: Drill Vertical.

Hookload Out:
Pickup Out:
Slack Weight:
Wt Below Jars:
Wt Above Jars:
Total Air Wt:

	Mid Pt	Blade			Gauge		
Stab Description	to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port		
MWD-PowerPulse	3.90	m

Bit to Measurement Port	
PowerPulse-D&I	6.24
PowerPulse-Gamma Ray	5.59

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Time Description Report

24-Jun-2008
6:35PM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossc **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2

Date/Time	Depth		Description
22-Jun-2008 2:40AM	0.0	m	Make up BHA with 22" bit.
22-Jun-2008 4:00AM	0.0	m	Tool BRT
22-Jun-2008 5:00AM	0.0	m	SHT OK.
22-Jun-2008 6:00AM	97.0	m	Attempt to stab the bit to the hole.
22-Jun-2008 12:40PM	97.0	m	Managed stabbing to the hole. Continue RIH to bottom.
22-Jun-2008 1:58PM	125.0	m	TOC @125m. DOC.
22-Jun-2008 7:39PM	258.7	m	Driling ahead with good signal, drill with high flow rate=1181 gpm, 137 RPM,pressure testing.
22-Jun-2008 9:24PM	304.6	m	Drilling ahead with high flow rate. 101 spm per each pump. (pump 1and 3), 136 rpm.
22-Jun-2008 10:41PM	339.2	m	Drilling ahead with good signal and high flow rate. RPM 137 , ROP 59.
22-Jun-2008 11:59PM	379.0	m	Drilling ahead with good signal.
23-Jun-2008 12:00AM	379.0	m	Midnight depth.
23-Jun-2008 2:23AM	409.7	m	Drilling ahead with 1169 gpm, crpm 139, stick slip 75.
23-Jun-2008 5:36AM	459.0	m	Drilling ahead with good signals, ROP 26, SWOB 20, SPPA 1800, RPM 160.
23-Jun-2008 11:59PM	749.0	m	Drilling ahead with ROP 30m/hr.
24-Jun-2008 12:00AM	749.0	m	Midnight Depth.
24-Jun-2008 12:28AM	755.2	m	TD@755.2, circulate bottom's up.
24-Jun-2008 3:33AM	755.2	m	POOH to surface.
24-Jun-2008 7:30AM	0.0	m	Tool ART. Laydown MWD.

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Drilling Parameters Repo

24-Jun-2
6:35:2

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 2

	23-Jun-2008 11:50 PM	23-Jun-2008 11:08 PM	23-Jun-2008 3:58 PM	23-Jun-2008 6:23 AM	23-Jun-2008 4:27 AM	22-Jun-2008 11:59 PM	22-Jun-2008 5:29 PM
Field Engineer	San thida Aung	San thida Aung	Yuda Yuda	Yuda Yuda	San thida Aung	San thida Aung	Yuda Yuda
Depth	751.85 m	746.49 m	686.00 m	476.88 m	444.54 m	381.00 m	210.00 m
Avg ROP	15.42 m/hr	15.42 m/hr	15.42 m/hr	15.42 m/hr	15.42 m/hr	12.38 m/hr	12.38 m/hr
On Bottom ROP	45.68 m/hr	45.68 m/hr	45.68 m/hr	45.68 m/hr	45.68 m/hr	24.64 m/hr	24.64 m/hr
Flow Rate	1,152.00 galUS/min	1,146.00 galUS/min	1,169.00 galUS/min	1,152.00 galUS/min	1,158.00 galUS/min	1,158.00 galUS/min	1,140.00 galUS/min
Turbine RPM	4,062 rpm	4,023 rpm	4,101 rpm	4,101 rpm	4,062 rpm	4,062 rpm	4,023 rpm
Surface RPM	147 rpm	139 rpm	147 rpm	160 rpm	158 rpm	137 rpm	108 rpm
WOB Rotating	33.00 klbm	18.00 klbm	15.00 klbm	30.00 klbm	11.00 klbm	11.00 klbm	3.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	3.09 kft.lbf	.36 kft.lbf	1.71 kft.lbf	1.49 kft.lbf	.74 kft.lbf	1.05 kft.lbf	.02 kft.lbf
DH Torque							
Hookload	137 klbm	135 klbm	140 klbm	135 klbm	131 klbm	127 klbm	112 klbm
PickUp Weight							
Slack Weight							
Friction							
SPP On Bottom	1,893.00 psi	1,869.00 psi	1,762.00 psi	1,799.00 psi	1,805.00 psi	1,739.00 psi	1,697.00 psi
SPP Off Bottom		1,862.00 psi	1,760.00 psi	1,795.00 psi	1,800.00 psi	1,732.00 psi	1,690.00 psi
Diff Pressure		7 psi	2 psi	4 psi	5 psi	7 psi	7 psi
BH Temperature	20.00 degC	21.00 degC	20.39 degC	19.60 degC	18.00 degC	18.00 degC	18.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib							
Axial Vib							
CRPM							
Stick/Slip							
Formation	Limestone	Limestone	Limestone	Limestone	Limestone	Limestone	Limestone
Signal Strength	10.00 psi	12.00 psi	12.00 psi	10.60 psi	10.30 psi	10.20 psi	10.40 psi
Percent Signal Conf	93 %	85 %	98 %	79 %	97 %	91 %	83 %

Schlumberger

Daily Drilling Activity Report

24-Jun-2008
6:35PM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Sean De Freitas, Rocco Ros	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	2				

From	To	Elapsed	Depth in m From	Depth in m To	IADC Activity	Description
22-Jun-2008						
00:00	05:00	5.00	0.0	0.0	PU / LD BHA / Tripping	Pick up and make up 22" BHA
05:00	09:30	4.50	0.0	0.0	PU / LD BHA / Tripping	RIH to 95m Top of 30" wellhead housing attempt to stab in
09:30	12:00	2.50	0.0	0.0	MWD/LWD service quality	Launch small ROV to observe position of BHA
12:00	14:00	2.00	0.0	127.0	PU / LD BHA / Tripping	Wait on ROV instruction to stab in well @95.13m. tag cement @124.87
14:00	00:00	10.00	133.0	379.0	Drilling	Drill 22" section from 132.8m to 374m.
23-Jun-2008						
00:00	12:00	12.00	379.0	580.0	Drilling	Driling ahead to TD
12:00	00:00	12.00	580.0	749.0	Drilling	Drilling 22" section
24-Jun-2008						
00:00	00:30	0.50	749.0	755.2	Drilling	Drilling 22" section

Schlumberger

Equipment Run Summary Report

4-Jul-2008
10:35AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Run Information

	Date In		Date Out
	29-Jun-2008 4:00PM		3-Jul-2008 5:00AM
Depth (MD):	758.0 m	to	2031.0 m
Depth (TVD):	758.0 m	to	1897.0 m
Inclination:	0.71 deg	to	27.26 deg
Azimuth:	327.45 deg	to	181.66 deg

Hole Size:	13.50 in
Last Casing Size:	16.000 in
Last Casing Depth:	754.0 m (MD)
Tool Face Arc:	.0 cm
Total Face Angle:	0.00 deg

Drilling Distance:	1,273.00 m
Rotary Drilling Distance:	1,273.00 m
Sliding Distance:	0.00 m
Reaming Distance:	0.00 m
North Ref Used:	Grid North
Magnetic Dec:	13.100 deg
Grid Correction:	-0.823 deg
Total Correction:	12.277 deg
Est. Mag. Int:	0.22 deg

Drilling Hours:	42.30 hrs
Rotary Drilling Hrs:	60.10 hrs
Sliding Hours:	0.00 hrs
Reaming Hours:	0.00 hrs
Hrs Below Rotary:	85.00 hrs
Total Pumping Hrs:	60.80 hrs
Min DLS:	0.00 deg/30 m
Max DLS:	0.00 deg/30 m
Max DLS Depth:	0.0 m
Surface Screen:	No
DFS Used:	No
Inline Filter:	No

Rig Information

Rig Type:	Jack Up
Water Depth:	57.00 m
Air Gap:	17.00 m
RKB Height:	40.00 m
Ground Elevation:	96.95 m

Pump Type:	Triplex
Pulse Damp Press:	700 psi
Number of Pumps:	1
Pump Line ID:	6.50 in
Pump Output:	5.85 galUS/stroke
Pump Stroke Len:	14.00 in

Run Objective

The objective of this run is to set the 10.75in shoe at +/- 2590mMDRT. This is +/-15mMD above the top of the 200 sand. The planned top of the 7in liner at +/-2570mMDRT (20m overlap) will place it approximately 5mMD below the 300 sands (2565mMDRT).
The 16in shoe will be located at 750mTVDRT and the formation strength at this point is expected to be 14.6ppg.
Based on a mud weight of 12ppg and a pore pressure of 10.4ppg the kick tolerance in the 13.5in hole section based on a 0.1psi/ft gas influx is 28bbls. It should be noted that the 12ppg mud weight has a 580psi overbalance through the interval where the Admiral Formation has a pore pressure of 10.4ppg (+/-2100mTVDRT).

D&M Crew List:

Cell Manager: Yuda
Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Chris Hibberson, LWD
Punniamoorthy Sellathurai, DD
Yuda Yuda, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m
Motor Type:		Bearing Play In:	in
Motor Size:		Bearing Play Out:	in
Serial No.:		Bent Sub Angle:	deg
Lobe Config:		Bent HSG Angle:	deg
Stage Length:	m		
Rubber:			
Sleeve Position:			
Sleeve Size:	in		
Bearing Type:			

RSS Information

RSS Manufacturer:	D&M		
RSS Type:	PowerDrive X5		
RSS SN:	49568		
RSS Size:			9.00
Pulse Ht Threshold:			
Min Pulse Width:			
Max Pulse Width:			
Conn Phase Angle:		deg	
Rise Time Const:			
Fall Time Const:			
Digit Time:			

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.01200 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

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Equipment Run Summary Report

4-Jul-2008
10:35AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Drilling Parameters

	Min	Max	Avg
BH Temperature:	47.00 degC	84.00 degC	71.89 degC
Surface RPM:	93.00 rpm	155.00 rpm	123.75 rpm
ROP:	2.71 m/hr	168.00 m/hr	30.09 m/hr
Surface Torque:	0.92 kft.lbf	11.56 kft.lbf	5.07 kft.lbf
Flow Rate:	959.00 galUS/min	1,125.00 galUS/min	1,044.92 galUS/min
WOB Sliding:			

Total DH Shocks (k): 59 k
Max Shock Level: 2
Max Shock Duration: 0 sec
Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg
H2S In Well: No

Average Pump Pressure: 1 psi

Turbine RPM @ Min Flow Rate: 3,359 rpm
Turbine RPM @ Max Flow Rate: 3,906 rpm
Min Flow Rate: 959.00galUS/min
Max Flow Rate: 1,125.00galUS/min
SPP Off Bottom: 2,420.00 psi
SPP On Bottom: 2,422.00 psi

Mud Information

Mud Type: Oil Base
Mud Company: Halliburton
Mud Brand: Baroid
Funnel Viscosity: 72.00 s/qt
Plastic Viscosity: 38.00 cp
Yield Point: 34.00 lbm/100ft2
Mud Resistivity: 1,000.00 ohm-m

Mud Clean: Yes
LCM Type:
LCM Size:
LCM Concentration: lbs/bbl
Weighting Material: Barite
Mud Weight: 12.00 lbm/galUS

pH:
Chlorides: 51,196.00 ppm
Sand Content: %
Solids: 17.40 %
Percent Oil: 70.00 %

IADC Bit Grading

Manufacturer: Hycalog
Model: RSH616M-A3
Type: PDC

Total Revs: 51,049.00
Stick/Slip: Yes
Reason Pulled: Change Bottom Hole Assembly

IADC Code: 115
Jets (/ 32 in): 3X18 3X16
Bit TFA: 1.34 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	2.00	CT	A		I	WT

End of Run - Summary

Sync Hours: 58.00 hrs
Jamming: No 0.00 hrs
Surface Vibration: No
Trans Fail: No

Downhole Noise: No
Surface System Failure: No
Surface Noise: No
H2S in Well: No

Run Failed: Yes
D&M Trip: No
Low Oil Flag: No 0.00 hrs
Filter Screen/Plug Shear: No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Change Bottom Hole Assembly

D&M Run Obj Met? [DD and MWD/LWD]: **No**

Brief Run Summary:

We picked up V825 and PowerDrive to start drill this 13.5in section. Tag bottom at 785m and start driling the section. Power Drive started build on first KOP from 800m to set the angle at 30.26deg. ROP was average 100m/hr at the beginning and start dropping to average 40 m/hr due to changing in formation.

Drilled f/758m to 2031m. At 2031m Power Drive inclination was dropping for 100% build up setting. Decided to POOH to check the BHA. Found out after laid down the tools, Power Drive pad is worn out. ARC wearband also worn out.

If not, why?:

PD inclination was dropping. Supected PD failure. Decided to POOH to check the BHA.

Schlumberger

Equipment Run Summary Report

4-Jul-2008
10:35AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Equipment on the Run

Equipment	Pump Hours Start	Pump Hours Cumulative	Software Version	Tool Size
ADDC-HA-VC73	0.00 hrs	60.80 hrs	8.2	8.25 in
ARC8D-BB-1815	0.00 hrs	60.80 hrs	9.3	8.25 in
H524743-59573	0.00 hrs	60.80 hrs		8.25 in
H524743-59574	0.00 hrs	60.80 hrs		8.25 in
H524743-59981	0.00 hrs	60.80 hrs		8.25 in
H524743-59982	0.00 hrs	60.80 hrs		8.25 in
MDCIX-GA-E0405	0.00 hrs	60.80 hrs	9.2	8.25 in
PDSC9-BA-49568	0.00 hrs	60.80 hrs		8.25 in
PLF9C-AA-49688	0.00 hrs	60.80 hrs		8.25 in

Services on the Run

Equipment	Service	Tool Name	Real Time Hours	Real Time Failed	Real Time Depth	Recorded Mode Hours	Recorded Mode Failed	Recorded Mode Depth	CAF
LWD	Resistivity	arcVision	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
LWD	Gamma Ray	arcVision	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
MWD	Shock and Vibration	TeleScope	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
MWD	Cont D&I	TeleScope	60.80 hrs		1,273.0 m	hrs			
MWD	D&I	TeleScope	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
LWD	Caliper	adnVision	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
LWD	Density	adnVision	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
LWD	Neutron	adnVision	60.80 hrs		1,273.0 m	85.00 hrs		1,273.0 m	
RSS	PowerDrive X5	PowerDrive X5	60.80 hrs		1,273.0 m	hrs			
RSS	T/F	PowerDrive X5	60.80 hrs		1,273.0 m	hrs			
RSS	Cont D&I	PowerDrive X5	60.80 hrs		1,273.0 m	hrs			
RSS	Shock risk	PowerDrive X5	60.80 hrs		1,273.0 m	hrs			
RSS	Stick/Slip risk	PowerDrive X5	60.80 hrs		1,273.0 m	hrs			

Schlumberger

BHA Repo

4-Jul-2
10:3

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 3 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD	ID	OD	Len, m	OD	Size	Type	Size	Type	Cumul Le
1	BIT	Hycalog	PDC	219224	0.26 m	13.50							6 5/8"	REG PIN	0.26
2	RSS	D&M	PowerDrive X5	49568	6.09 m	8.25					6 5/8"	REG BOX	6 5/8"	REG BOX	6.35
3	FLEX COLLAR	D&M	Flex Collar	49688	2.94 m	8.25					6 5/8"	REG PIN	6 5/8"	FH BOX	9.29
4	LWD	D&M	arcVISION	1815	5.53 m	8.25	4.38				6 5/8"	FH PIN	6 5/8"	FH BOX	14.82
5	MWD	D&M	TeleScope	E0405	8.38 m	8.25	4.25				6 5/8"	FH PIN	6 5/8"	FH PIN	23.20
6	LWD	D&M	adnVISION	VC73	6.57 m	8.25	4.25				6 5/8"	FH BOX	6 5/8"	REG BOX	29.77

Predicted BHA Tendency: Build the angle 47deg to 10 3/4in casing point.

Hookload Out:
Pickup Out:
Slack Weight:

Wt Below Jars:
Wt Above Jars:
Total Air Wt:

Stab Description	Mid Pt to Bit	Blade Type	Blade Len	Blade Width	Gauge Len	Gauge In	Gauge Out

Bit to Read Out Port		
LWD-arcVISION	11.60	m
MWD-TeleScope	16.60	m
LWD-adnVISION	25.20	m
RSS-PowerDrive X5	2.00	m

Bit to Measurement Port	
arcVISION-Resistivity	10.47
arcVISION-Gamma Ray	10.52
adnVISION-Caliper	26.19
adnVISION-Density	26.58
adnVISION-Neutron	27.63

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Time Description Report

4-Jul-2008
10:36AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Ste **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Date/Time	Depth		Description
29-Jun-2008 12:30AM	0.0	m	Prepare for 13.5in BHA.
29-Jun-2008 1:00AM	0.0	m	Programmed MWD TeleScope. QPSK, 12Hz 6bps.
29-Jun-2008 11:18AM	0.0	m	Initialized ARC8. Set Record rate to 6s.
29-Jun-2008 11:24AM	0.0	m	Initialized ADN8. Set Record rate to 5s.
29-Jun-2008 3:18PM	0.0	m	SHT to check PowerDrive and Tools Communication. OK. 816 psi, 2 x 68 strokes = 800 GPM. Signal strength 8.46 psi.
29-Jun-2008 4:00PM	0.0	m	Tools BRT.
29-Jun-2008 5:23PM	70.0	m	SHT OK after loading radioactive source. Pressure 800 psi, 2 x 68 strokes = 800 GPM. Signal strength 13.1 psi.
29-Jun-2008 5:25PM	70.0	m	Continue RIH to bottom.
30-Jun-2008 3:58AM	757.0	m	Set Depth.
30-Jun-2008 4:00AM	757.0	m	Start drilling for 13.5in BHA with Power Drive.
30-Jun-2008 12:00PM	1099.3	m	SCR and Circulating bottom's up.
30-Jun-2008 12:35PM	1099.3	m	Make up connection and continue drilling.
30-Jun-2008 1:59PM	1154.0	m	Downlink f/ STEER_b = 128 to STEER_b = 208.
30-Jun-2008 8:32PM	1394.0	m	SCR's.
30-Jun-2008 10:03PM	1424.0	m	SCR and repair the rig system.
30-Jun-2008 11:21PM	1447.0	m	Stop drilling to change drill parameter for hard formation.
30-Jun-2008 11:48PM	1447.0	m	Drilling again ROP ~1m/hr.
1-Jul-2008 12:00AM	1447.0	m	Midnight Depth.
1-Jul-2008 1:05AM	1448.0	m	ROP back to 30m/hr through sting.
1-Jul-2008 7:20AM	1512.0	m	Pick up off bottom to release high torque and stick slip. Stick slip was down while reaming. Means high stickslip occured in drilling mode due formation related.
1-Jul-2008 7:28AM	1512.0	m	Back to bottom.
1-Jul-2008 11:14PM	1707.0	m	Pick up off bottom, take SCR's
1-Jul-2008 11:59PM	1720.0	m	Bact to drill.
2-Jul-2008 12:00AM	1720.0	m	Midnight Depth.
2-Jul-2008 1:22AM	1750.0	m	back to drilling after long connection ROP 30-60m/hr.
2-Jul-2008 2:55AM	1783.6	m	Drill ahead with ROP 22, Flow rate 1123.
2-Jul-2008 3:44AM	1801.8	m	Drill ahead with 1123 flow rate, RPM153.
2-Jul-2008 9:57AM	1928.0	m	Rig Repair. Circulating mud.
2-Jul-2008 10:31AM	1928.0	m	Making connection and continue drilling.
2-Jul-2008 2:24PM	1993.0	m	Inclination is dropping. Set dowlink to 100% up.
2-Jul-2008 5:42PM	2021.0	m	Top Drive problem. Fix for topdrive. Pick off bottom.
2-Jul-2008 6:51PM	2022.4	m	Circulating with 701gpm, Fix top drive problem
2-Jul-2008 7:04PM	2024.0	m	Top drive fixed, back drilling ahead.
2-Jul-2008 8:58PM	2031.4	m	Circulating off bottom.
2-Jul-2008 9:30PM	2031.0	m	Decided to POOH due to inclination dropping.
3-Jul-2008 5:00AM	0.0	m	Tool ART
3-Jul-2008 5:15AM	0.0	m	Remove Radioactive Source.
3-Jul-2008 7:00AM	0.0	m	Dump ADN on the RF. Successfully dump and unable to reinitialize the ADN. The tool was laid down to deck. Decided to change the ADN with backup.
3-Jul-2008 8:00AM	0.0	m	Dump ARC after laid down the tool on deck. The ARC tool wear band is worn. Decided to change the ARC with the backup.
3-Jul-2008 9:00AM	0.0	m	Prepare all backup tools for next run.

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Drilling Parameters Repo

4-Jul-2
10:36:0

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

	02-Jul-2008 4:28 PM	02-Jul-2008 4:52 AM	02-Jul-2008 1:30 AM	01-Jul-2008 7:43 PM	01-Jul-2008 11:53 AM	01-Jul-2008 7:54 AM	01-Jul-2008 3:25 AM
Field Engineer	Yuda Yuda	San thida Aung	Chris Hibberson	San thida Aung	Yuda Yuda	Yuda Yuda	San thida Aung
Depth	2,014.00 m	1,814.00 m	1,752.00 m	1,644.00 m	1,519.00 m	1,512.00 m	1,498.45 m
Avg ROP	12.96 m/hr	12.96 m/hr	12.96 m/hr	11.38 m/hr	11.38 m/hr	11.38 m/hr	11.38 m/hr
On Bottom ROP	17.77 m/hr	17.77 m/hr	17.77 m/hr	11.92 m/hr	11.92 m/hr	11.92 m/hr	11.92 m/hr
Flow Rate	994.00 galUS/min	1,123.00 galUS/min	1,125.00 galUS/min	1,041.00 galUS/min	959.00 galUS/min	1,000.00 galUS/min	1,111.33 galUS/min
Turbine RPM	3,281 rpm	3,906 rpm	3,906 rpm	3,632 rpm	3,359 rpm	3,476 rpm	3,906 rpm
Surface RPM	127 rpm	125 rpm	155 rpm	154 rpm	103 rpm	116 rpm	93 rpm
WOB Rotating	16.00 klbm	20.00 klbm	18.00 klbm	19.00 klbm	35.00 klbm	20.00 klbm	30.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	2.09 kft.lbf	3.04 kft.lbf	9.00 kft.lbf	5.50 kft.lbf	11.56 kft.lbf	.92 kft.lbf	6.00 kft.lbf
DH Torque							
Hookload	174 klbm	190 klbm	181 klbm	178 klbm	170 klbm	150 klbm	130 klbm
PickUp Weight	205.00 klbm	201.00 klbm	198.00 klbm	198.00 klbm	185.00 klbm	175.00 klbm	140.00 klbm
Slack Weight	185.00 klbm	180.00 klbm	175.00 klbm	175.00 klbm	170.00 klbm	160.00 klbm	130.00 klbm
Friction							
SPP On Bottom	2,885.00 psi	3,418.00 psi	3,425.00 psi	3,004.00 psi	2,540.00 psi	2,540.00 psi	2,500.00 psi
SPP Off Bottom	2,885.00 psi	3,418.00 psi	3,425.00 psi		2,540.00 psi	2,540.00 psi	2,500.00 psi
Diff Pressure				4 psi			
BH Temperature	84.00 degC	82.00 degC	80.00 degC	76.00 degC	76.00 degC	76.00 degC	76.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib							
Axial Vib							
CRPM	128 rpm	120 rpm	155 rpm	130 rpm	107 rpm	105 rpm	132 rpm
Stick/Slip	12	117	144	150	255	84	240
Formation	Sandstone	Sandstone	Sandstone	Sandstone	Sandstone	Sandstone	Claystone
Signal Strength	5.16 psi	13.00 psi	12.00 psi	10.00 psi	12.60 psi	10.10 psi	12.80 psi
Percent Signal Conf	88 %	74 %	85 %	78 %	76 %	74 %	95 %

	30-Jun-2008 7:37 AM	30-Jun-2008 7:17 AM
Field Engineer	Yuda Yuda	Yuda Yuda
Depth		885.00 m
Avg ROP	28.71 m/hr	28.71 m/hr
On Bottom ROP	56.06 m/hr	56.06 m/hr
Flow Rate		1,006.00 galUS/min
Turbine RPM		3,515 rpm
Surface RPM		117 rpm
WOB Rotating		25.00 klbm
WOB Sliding		
DH WOB		
Surface Torque		2.45 kft.lbf
DH Torque		
Hookload	115 klbm	113 klbm
PickUp Weight	125.00 klbm	
Slack Weight	115.00 klbm	
Friction		
SPP On Bottom	2,450.00 psi	2,422.00 psi
SPP Off Bottom	2,450.00 psi	2,420.00 psi
Diff Pressure		2 psi
BH Temperature	50.00 degC	47.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		
Lateral Vib		
Axial Vib		
CRPM	119 rpm	119 rpm
Stick/Slip	18	18
Formation	Limestone	Limestone
Signal Strength	12.00 psi	12.80 psi
Percent Signal Conf	90 %	83 %

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Daily Drilling Activity Report

4-Jul-2008
10:35AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Sean De Freitas, Schmidt S	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	3				

			Depth in m			
From	**To**	**Elapsed**	**From**	**To**	**IADC Activity**	**Description**
27-Jun-2008						
00:00	07:00	7.00	0.0	0.0	Other	Wait on weather
07:00	13:30	6.50	0.0	0.0	Run casing / cement	running casing
13:30	14:30	1.00	0.0	0.0	DD service quality	pressure test with ROV checking
14:30	00:00	9.50	0.0	0.0	Rig up / Rig down	rig up CTU
28-Jun-2008						
00:00	03:30	3.50	0.0	0.0	Run casing / cement	pressure test 22" HP Riser
03:30	14:30	11.00	0.0	0.0	Nipple up BOPs	remove 22" elevator from texas deck
14:30	18:00	3.50	0.0	0.0	Rig up / Rig down	break out 22" riser and lay out the same
18:00	00:00	6.00	0.0	0.0	PU / LD BHA / Tripping	service Top drive and RIH
29-Jun-2008						
05:00	12:00	7.00	758.0	0.0	PU / LD BHA / Tripping	POOH and lay down 14 3/4 BHA
12:00	17:30	5.50	0.0	0.0	PU / LD BHA / Tripping	Pick up 13.5 in section BHA
17:30	00:00	6.50	183.0	716.0	PU / LD BHA / Tripping	RIH from 183 m to 716.2m MD (16"casingshoe@750m)
30-Jun-2008						
00:00	01:00	1.00	754.0	754.0	Lubricate rig / Service	Service top drive.
01:00	03:30	2.50	754.0	754.0	Circulate / Condition mud	Displace well to SBM.
03:30	12:00	8.50	758.0	1089.0	Drilling	Continue to drill 13.5" hole
12:00	00:00	12.00	1089.0	1447.0	Drilling	Drill ahead to 1447mMD
1-Jul-2008						
00:00	12:00	12.00	1447.0	1517.0	Drilling	continue drill 13.5" section
12:00	00:00	12.00	1517.0	1720.0	Drilling	continue drilling
2-Jul-2008						
00:00	09:30	9.50	1720.0	1928.0	Drilling	continue driling 13.5" hole
09:30	10:30	1.00	1928.0	1928.0	Repair rig	repair rig camear screen SCR
10:30	17:30	7.00	1928.0	1947.0	Drilling	continue drilling 170RPM
17:30	19:00	1.50	1947.0	1947.0	Repair rig	Troubleshoot Topdrive
19:00	19:30	0.50	1947.0	2031.0	Drilling	continue drilling
19:30	23:00	3.50	2031.0	2031.0	Circulate / Condition mud	Hole cleaning
23:00	00:00	1.00	1883.0	1724.0	PU / LD BHA / Tripping	POOH

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PowerDrive X5 Summary

PowerDrive — The new direction in rotary drilling

Rev 3: Please do not make any changes to this form !!!

JOB NUMBER	COMPANY REP.	DATE IN	DATE OUT	PowerDrive Run #	MWD Run #	Rig Bit Run #	PD Engineer
08ASQ007	Sean/Stefan	29-Jun-08	3-Jul-08	1	3	4	Moorthy / Pat

CLIENT	Hole Depth - FROM	TO	Flex/ILF SN (ft/m)	Xtra Receiver #	Control Unit #
Nexus Energy	758.0 m MD	2031.0 m MD	49688	50566	119

RIG NAME	Inclination - FROM	TO	Control Collar #	Ext Sub #	Bias Unit #
Seadrill - West Triton	0.52 deg	26.26 deg	49568	49398	52680

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
Longtom-4	304.12 deg	181.66 deg	Reed Hycalog	RSX616-MA2	219224

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	13 1/2"	18.94 m	2.67 m	2-4-CT-A-X-I-WT-BHA

Map file name	Mag Dec / Grid Cor / Total Corr.			Connector Phase Angle	Downlink response ?	On Bottom Hours	Last Casing size/wt / depth
n/a (fast downlink)	13.100	-0.83	13.920	120	Good	43.30	16" 750 m

Bit to Bottom of BU Pad	Bit to Midpoint of Stab	Flex Lgth	WOB MIN / MAX		Ave. RPM	Ave. WOB	Off Bottom Circulating Hours	ft / M Drilled this run
0.33 m	5.66 m	2.94 m	3	32	80-170	25	60.80	1273.0

PD MIN/MAX		Initial / Final Battery Voltage		RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
		3.67		80	170	600	1200	86.00	1273.0

Pulse Width MIN/MAX		Pulse height thres	Digit Time	Actual Flow MIN / MAX		Pump Output / Type		PowerDrive Operating Hours	On Btm ROP	Ave ROP
n/a	n/a	n/a	18 sec	995	1200	5.85	Triplex	60.80	30.1	30.1

Tool Response

Max DLS	Max BUR	Max Turn Rt
3.82	3.8	-101.8

Stab gauge before/after run: 13 3/8 / N/A

Run Objective: KO to 30.3 degrees, hold tangent then KO to 52.3 degrees

SOFTWARE VERSION

TSIM	Comms mod	Sensor mod	MWD	IDEAL
AC	CMF523H15	SMV507RN	9.2C02	13_0c_08

Reason for POOH: Unable to maintain tangent inclination

Bit Hydraulics Calculations

Enter data in blue areas

Pump Flow	1122
Mud Weight	12
Bit Diameter	13.5
Bit Flow	1105
Bit Pressure Drop	757
Hydraulic HP	488
HSI	3.4
Impact Press.	1369

Note: Rock compressive strength should be greater than the Impact Pressure.

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	16	0.196
2	16	0.196
3	16	0.196
4	18	0.249
5	18	0.249
6	18	0.249
7		
8		
9		
10		
Bit TFA =		1.335

Flow Restrictor Pressure Drop

Nozzle size (32nd)	TFA	Press. Drop

Total Pressure Drop Below PowerDrive

757 psi

Note: If the box above is red, the total pressure drop below the PowerDrive is not in the optimal range for pad operation. Confirm restrictor and bit nozzle selection is correct such that the total pressure drop below the PowerDrive is between 500 psi an

PowerDrive Serial No.

PART	PFIX	SN	START	CUM
Control Unit	CU	119	0.00	60.80
Control Collar	CC	49568	0.00	60.80
Ext Sub	ES	49398	0.00	60.80
Bias Unit	BU	52680	0.00	60.80
Flex/ILF	PD9RX-AA	49688	0.00	60.80
Xtra Receiver		50566	0.00	60.80
Upper Torquer		45882	0.00	60.80
Lower Torquer		46558	0.00	60.80
Comms Module		571	0.00	60.80
Motor				

PUMP HOURS

Downward Telemetry Calculations

Enter data in the blue areas

Digit Time	18	secs
Falling Time Constant (FTC)	n/a	secs
Rising Time Constant (RTC)	n/a	secs
Driller's Pulse - High / Low	1075 / 983	
Driller's Pulse Height	n/a	%
Pulse Amplitude	n/a	%
Minimum Recoverable Pulse	n/a	%
Minimum Threshold	n/a	%

Motor Run Information

Motor type	Seiral number
N/A	N/A
Bend type	**Bend Angle**
N/A	N/A
Stab type	**Stab Gauge**
N/A	N/A
Off Bottom pressure	**On Bottom pressure**
N/A	N/A
Backreaming Hours	**Total Reaming Hours**
N/A	N/A
Bearing Play after run (mm)	N/A

Mud properties

Mud Company	Baroid
Mud Type	Accolade SBM
MW at **start** of run	12.0 ppg
MW at **end** of run	12.0 ppg
Funnel Viscosity	71 sec
Plastic Viscosity	39
Yeild Point	36
Maximum DH Temp. deg C	84 degC
Sand %	N/A
Soild %	17.70 %

Run Summary

The shoe track and rat hole in this section was drilled out with a 14 ¾" rotary clean out assembly. Three meters of new formation was drilled out and a leak off test conducted. The clean out assembly was then pulled out and the 13 ½" drilling assembly as shown above was made up.

Kick off point commenced at 780m MD and the well was built up with dogleg severities of 1 to 3.8 º/30m to an inclination of 30.3º at 1221m MD. This BHA has dropping tendency of about 0.8º/30m, so it is probably capable of around 4.6º/30m in a neutral configuration and 100% steering ratio.

The tangent section at 30.3 º inclination was drilled using Inclination Hold mode with the PowerDrive using steering ratios between 20-60% to maintain tangency. From 1820m to 1860m MD the steering ratio required to maintain tangency increased to 100% and by 1950m MD the tool was unable to maintain the tangent and the well path started dropping. Drilling parameters were varied in an attempt to arrest the drop but with no result. At 2031m the inclination had dropped by 4º so the assembly was pulled out of hole.

Once at surface the PowerDrive Bias Unit pads were worn beyond 13 ½" so it was the cause for the lack of steering control. There was about 200m of abrasive formation in
Bit was graded as 2-4-CT-A-X-I-WT-BHA

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Equipment Run Summary Report

7-Jul-2008
10:17AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 4

Run Information

	Date In		Date Out
	3-Jul-2008 2:00PM		7-Jul-2008 12:00AM
Depth (MD):	2031.0 m	to	2600.0 m
Depth (TVD):	1897.0 m	to	2351.0 m
Inclination:	27.26 deg	to	52.52 deg
Azimuth:	181.66 deg	to	183.03 deg

Drilling Distance:	569.00 m	Drilling Hours:	11.80 hrs
Rotary Drilling Distance:	569.00 m	Rotary Drilling Hrs:	11.80 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	29.00 m	Reaming Hours:	1.50 hrs
		Hrs Below Rotary:	82.00 hrs
		Total Pumping Hrs:	46.10 hrs

Hole Size:	13.50 in	Min DLS:	0.36 deg/30 m
Last Casing Size:	16.000 in	Max DLS:	3.33 deg/30 m
Last Casing Depth:	750.0 m (MD)	Max DLS Depth:	2,531.0 m
Tool Face Arc:	.0 cm	Surface Screen:	No
Total Face Angle:	0.00 deg	DFS Used:	No

North Ref Used:	Grid North	Inline Filter:	No
Magnetic Dec:	13.100 deg		
Grid Correction:	-0.830 deg		
Total Correction:	13.920 deg		
Est. Mag. Int:	0.00 deg		

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	57.00 m	Pulse Damp Press:	700 psi
Air Gap:	17.00 m	Number of Pumps:	1
RKB Height:	40.00 m	Pump Line ID:	6.50 in
Ground Elevation:	96.95 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

Continue to drill 13.5in Section after having problem with inclination from 2031m MD. Relog was acquired f/1960m to bottom based on client requirement.

The objective of this run is to set the 10.75in shoe at +/- 2590mMDRT. This is +/-15mMD above the top of the 200 sand. The planned top of the 7in liner at +/-2570mMDRT (20m overlap) will place it approximately 5mMD below the 300 sands (2565mMDRT). The 16in shoe will be located at 750mTVDRT and the formation strength at this point is expected to be 14.6ppg.

D&M Crew List:

Cell Manager: Yuda

Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Chris Hibberson, LWD
Punniamoorthy Sellathurai, DD
Yuda Yuda, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m		
Motor Type:		Bearing Play In:	in		
Motor Size:		Bearing Play Out:	in		
Serial No.:		Bent Sub Angle:	deg		
Lobe Config:		Bent HSG Angle:	deg		
Stage Length:	m				
Rubber:					
Sleeve Position:					
Sleeve Size:	in				
Bearing Type:					

RSS Information

RSS Manufacturer:	D&M		
RSS Type:	PowerDrive X5		
RSS SN:	50240		
RSS Size:			9.00
Pulse Ht Threshold:			
Min Pulse Width:			
Max Pulse Width:			
Conn Phase Angle:		deg	
Rise Time Const:			
Fall Time Const:			
Digit Time:			

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.01200 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

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Equipment Run Summary Report

7-Jul-2008
10:17AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 4

Drilling Parameters

	Min	Max	Avg
BH Temperature:	77.00 degC	88.00 degC	83.67 degC
Surface RPM:	147.00 rpm	151.00 rpm	148.67 rpm
ROP:	19.33 m/hr	40.67 m/hr	48.22 m/hr
Surface Torque:	8.90 kft.lbf	11.61 kft.lbf	10.00 kft.lbf
Flow Rate:	1,076.00 galUS/min	1,134.00 galUS/min	1,114.67 galUS/min
WOB Sliding:			

Total DH Shocks (k):	551 k
Max Shock Level:	1
Max Shock Duration:	300 sec
Checkshot Type:	
Checkshot Depth:	m
Checkshot Incl:	deg
Checkshot Azim:	deg
H2S In Well:	No

Average Pump Pressure: 0 psi

Turbine RPM @ Min Flow Rate:	3,710 rpm	Min Flow Rate:	1,076.00galUS/min	SPP Off Bottom:	3,795.00 psi
Turbine RPM @ Max Flow Rate:	3,789 rpm	Max Flow Rate:	1,134.00galUS/min	SPP On Bottom:	3,795.00 psi

Mud Information

Mud Type:	Synthetic Oil Base	Mud Clean:	Yes	pH:	
Mud Company:	Haliburton	LCM Type:		Chlorides:	264,542.00 ppm
Mud Brand:	Baroid	LCM Size:		Sand Content:	0.50 %
Funnel Viscosity:	70.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	19.70 %
Plastic Viscosity:	40.00 cp	Weighting Material:	Barite	Percent Oil:	70.00 %
Yield Point:	35.00 lbm/100ft2	Mud Weight:	12.00 lbm/galUS		
Mud Resistivity:	1,000.00 ohm-m				

IADC Bit Grading

Manufacturer:	Smith	Total Revs:	103,800.00	IADC Code:	M223
Model:	M516LSPX	Stick/Slip:	69	Jets (/ 32 in):	3X18 2X20
Type:	PDC	Reason Pulled:	Total Depth/Casing Depth	Bit TFA:	1.36 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
0.00	0.00	NO	A		I	NO

End of Run - Summary

Sync Hours:	29.39 hrs			Downhole Noise:	No	Run Failed:	No
Jamming:	No	0.00 hrs		Surface System Failure:	No	D&M Trip:	No
Surface Vibration:	No			Surface Noise:	No	Low Oil Flag:	No 0.00 hrs
Trans Fail:	No			H2S in Well:	No	Filter Screen/Plug Shear:	No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

Brief Run Summary:

The new BHA was picked up for this Run. Power Drive, ARC and ADN were replaced with the backup tools. Relog was done f/1960m to bottom as per client requirement. Continue drilling from 2031m to 2600m MD.

Found problem on standpipe due to leaking on seals. It was required plenty of time to fix the standpipe and circulate 700GPM while fixing the problem to avoid getting stuck.

MWD signal has been very good without any critical problem. Power Drive was built per expected without any issue.

TD 13.5in Section @2600m MD. POOH to run Wireline following by casing.

If not, why?:

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Equipment Run Summary Report

7-Jul-2008
10:17AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 4

Equipment on the Run

Equipment	Pump Hours Start	Pump Hours Cumulative	Software Version	Tool Size
ADDC-HA-43150	0.00 hrs	46.10 hrs	8.2	8.25 in
ARC8D-BB-1854	0.00 hrs	46.10 hrs	9.3	8.25 in
H524743-59597	0.00 hrs	46.10 hrs		8.25 in
H524743-e08152	0.00 hrs	46.10 hrs		8.25 in
H524743-e08177	75.00 hrs	121.10 hrs		8.25 in
H524743-e08192	0.00 hrs	46.10 hrs		8.25 in
MDCIX-GA-E0405	0.00 hrs	46.10 hrs	9.2	8.25 in
PDSC9-BA-50240	0.00 hrs	46.10 hrs		9.00 in
PLF9-AA-50904	0.00 hrs	46.10 hrs		9.00 in

Services on the Run

Equipment	Service	Tool Name	Real Time Hours	Real Time Failed	Real Time Depth	Recorded Mode Hours	Recorded Mode Failed	Recorded Mode Depth	CAF
RSS	PowerDrive X5	PowerDrive X5	46.10 hrs		569.0 m	hrs			
RSS	T/F	PowerDrive X5	46.10 hrs		569.0 m	hrs			
RSS	Cont D&I	PowerDrive X5	46.10 hrs		569.0 m	hrs			
RSS	Shock risk	PowerDrive X5	46.10 hrs		569.0 m	hrs			
RSS	Stick/Slip risk	PowerDrive X5	46.10 hrs		569.0 m	hrs			
LWD	Resistivity	arcVision	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
LWD	Gamma Ray	arcVision	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
MWD	Shock and Vibration	TeleScope	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
MWD	Cont D&I	TeleScope	46.10 hrs		569.0 m	hrs			
MWD	D&I	TeleScope	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
LWD	Caliper	adnVision	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
LWD	Density	adnVision	46.10 hrs		569.0 m	82.00 hrs		569.0 m	
LWD	Neutron	adnVision	46.10 hrs		569.0 m	82.00 hrs		569.0 m	

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BHA Repo

7-Jul-2
10:1

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Sean De Freitas, Schmidt Stefan **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 4 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	OD, in	Len, m	OD, in	Size	Type	Size	Type	Cumul Le
1	BIT	Smith	PDC	JY2593	0.28 m	13.50							6 5/8"	REG PIN	0.28
2	RSS	D&M	PowerDrive X5	50240	6.12 m	9.00	8.00		0.53		6 5/8"	REG BOX	6 5/8"	REG BOX	6.40
3	FLEX COLLAR	D&M	Flex Collar	50904	2.95 m	8.19			0.71	13.38	6 5/8"	REG PIN	6 5/8"	FH BOX	9.35
4	LWD	D&M	arcVISION	1854	6.37 m	8.25	2.40				6 5/8"	FH PIN	6 5/8"	FH BOX	15.72
5	MWD	D&M	TeleScope	E0405	8.38 m	8.25	4.25				6 5/8"	FH PIN	6 5/8"	FH PIN	24.10
6	LWD	D&M	adnVISION	43150	6.58 m	8.25	4.25				6 5/8"	FH BOX	6 5/8"	REG BOX	30.68

Predicted BHA Tendency: Build the angle to casing point.

Hookload Out:
Pickup Out:
Slack Weight:

Wt Below Jars:
Wt Above Jars:
Total Air Wt:

	Mid Pt	Blade			Gauge		
Stab Description	to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port		
RSS-PowerDrive X5	0.30	m
LWD-arcVISION	11.60	m
MWD-TeleScope	16.60	m
LWD-adnVISION	25.20	m

Bit to Measurement Port	
arcVISION-Resistivity	10.47
arcVISION-Gamma Ray	10.52
adnVISION-Caliper	26.19
adnVISION-Density	26.58
adnVISION-Neutron	27.63

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Time Description Report

7-Jul-2008
10:17AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Ste **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 4

Date/Time	Depth		Description
3-Jul-2008 8:40AM	0.0	m	Programming and initialized backup ADN. Set Record rate to 10s.
3-Jul-2008 11:17AM	0.0	m	Programming and initialized backup ARC. Set Record rate to 10s.
3-Jul-2008 11:30AM	0.0	m	Pickup BHA. Makeup New Power Drive, ADN and ARC.
3-Jul-2008 1:52PM	0.0	m	SHT OK before loading source. For Power Drive function check.
3-Jul-2008 2:00PM	0.0	m	Tool BRT.
3-Jul-2008 2:20PM	40.0	m	Loading Radioactive Source.
3-Jul-2008 2:55PM	0.0	m	RIH 2 stands HWDP.
3-Jul-2008 3:46PM	60.0	m	SHT OK after loading source. Test for ADN. Pressure 1100psi, Flow 816GPM (2x70).
3-Jul-2008 4:00PM	60.0	m	Conitnue RIH to bottom.
3-Jul-2008 11:20PM	2045.0	m	Continuous drilling with 1099flow rate
4-Jul-2008 12:00AM	2050.0	m	Midnight depth.
4-Jul-2008 12:01AM	2050.0	m	Drill ahead with ROP 98. Flow rate 1128.
4-Jul-2008 7:30AM	2332.0	m	Pump down. Pick up off bottom.
4-Jul-2008 8:00AM	2332.0	m	Pump back on. Back to drilling.
4-Jul-2008 8:30AM	2346.0	m	Standpipe 1 leaking. Fixed on standpipe. Standby while rotating without flow @19RPM.
4-Jul-2008 2:40PM	2346.0	m	Standpipe fixed. Continue drilling.
4-Jul-2008 4:47PM	2405.0	m	Standpipe 2 leaking. Waiting on seals to be replaced.
5-Jul-2008 2:30AM	2405.0	m	Testing Standpipe
5-Jul-2008 6:00AM	2405.0	m	Standpipe fixed. Continue drilling.
5-Jul-2008 7:45AM	2434.0	m	Standpipe leaking.
5-Jul-2008 11:00PM	2434.0	m	Tag Bottom Drilling ahead.
6-Jul-2008 1:10AM	2494.0	m	Drop in GR increase in RES getting gas returns in mud. Good separation in DEN/Porosity data.
6-Jul-2008 2:08AM	2514.0	m	GR back to normal, change in RES.
6-Jul-2008 2:34AM	2529.0	m	Signal interupted intermittently, tranferring mud, 3.4% gas returns in mud.
6-Jul-2008 6:00AM	2600.0	m	TD 13.5in Section.
6-Jul-2008 6:05AM	2600.0	m	Circulate bottom's up.
6-Jul-2008 8:15AM	2600.0	m	Start POOH slowly.
6-Jul-2008 1:26PM	1744.0	m	Tight spot at 1744m. Circulate to clean the hole.
6-Jul-2008 1:26PM	1744.0	m	Continue POOH.
6-Jul-2008 1:45PM	1744.0	m	Continue POOH.
6-Jul-2008 11:30PM	40.0	m	Unloading radioactive source.
7-Jul-2008 12:00AM	0.0	m	Tool ART
7-Jul-2008 12:02AM	0.0	m	Break off the bit.
7-Jul-2008 12:13AM	0.0	m	Download ARC memory on the Rig Floor successfully.
7-Jul-2008 12:25AM	0.0	m	Download ADN memory on the Rig Floor successfully. Put the magnet in after completing download.
7-Jul-2008 12:35AM	0.0	m	Rack back BHA. Will lay down the BHA after completing running casing.

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Drilling Parameters Repo

7-Jul-2
10:17:5

Job Number: 08ASQ0007
Company Rep: Sean De Freitas, Schmidt Stefan
Run Number: 4

Company: NEXUS ENERGY LTD
Location: MEA-APG-ASS

Rig Name: West Triton
Well Name: Longtom-4

	06-Jul-2008 1:35 AM	04-Jul-2008 4:06 AM	04-Jul-2008 12:59 AM
Field Engineer	San thida Aung	San thida Aung	San thida Aung
Depth	2,516.00 m	2,217.38 m	2,101.00 m
Avg ROP	5.67 m/hr		
On Bottom ROP	34.00 m/hr		
Flow Rate	1,076.00 galUS/min	1,134.00 galUS/min	1,134.00 galUS/min
Turbine RPM	3,710 rpm	3,789 rpm	3,867 rpm
Surface RPM	147 rpm	148 rpm	151 rpm
WOB Rotating	20.00 klbm	27.00 klbm	35.00 klbm
WOB Sliding			
DH WOB			
Surface Torque	8.90 kft.lbf	9.50 kft.lbf	11.61 kft.lbf
DH Torque			
Hookload	222 klbm	204 klbm	179 klbm
PickUp Weight			226.00 klbm
Slack Weight			185.00 klbm
Friction			
SPP On Bottom	3,795.00 psi	3,876.00 psi	4,021.00 psi
SPP Off Bottom	3,795.00 psi	3,876.00 psi	4,021.00 psi
Diff Pressure			
BH Temperature	88.00 degC	86.00 degC	77.00 degC
Total Shocks (k)			
Max Shock Level			
Max Shock Duration			
Torsional Vib			
Lateral Vib			
Axial Vib			
CRPM	147 rpm	146 rpm	152 rpm
Stick/Slip			69
Formation	Sandstone	Sandstone	Sandstone
Signal Strength	6.29 psi	8.40 psi	10.70 psi
Percent Signal Conf	82 %	73 %	80 %

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Daily Drilling Activity Report

7-Jul-2008
10:17AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Sean De Freitas, Schmidt S	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	4				

			Depth in m			
From	**To**	**Elapsed**	**From**	**To**	**IADC Activity**	**Description**
3-Jul-2008						
00:00	21:30	21.50	0.0	184.0	PU / LD BHA / Tripping	Lay down and pick up BHA
21:30	22:30	1.00	1960.0	1989.0	Reaming / Hole opener / Unc	Relogged with 60rpm
22:30	23:00	0.50	1989.0	2031.0	Reaming / Hole opener / Unc	Relogged with 60rpm
23:00	00:00	1.00	2031.0	2050.0	Drilling	Continue drilling the section.
4-Jul-2008						
00:00	09:00	9.00	2050.0	2346.0	Drilling	Drill Ahead as per DD instruction.
09:00	11:00	2.00	2346.0	2346.0	Repair rig	Stop drilling due to leaking conenction between manifold & standpipe. Circ & held TBT, prepare to disconnect hose at derrick side.
11:00	14:30	3.50	2346.0	2346.0	Repair rig	Diconnect hose from gooseneck at the derrick side and connect to other standpipe.
14:30	16:30	2.00	2346.0	2405.0	Drilling	Drill ahead as per DD instruction.
16:30	18:30	2.00	2405.0	2405.0	Repair rig	Stop drilling due to leak in standpipe. Attempt to POOH No Go over pull 25k observed swabbing, rigged up surface lines & circ. through cmt hose @ 122 spm 3060 psi & work string. Held TBT & JSA attempt to remove clamps from Standpipe
18:30	00:00	5.50	2405.0	2405.0	Repair rig	Circ. through cmt hose @ 122spm 3060psi & work string whilst removing clamps on standpipe.
5-Jul-2008						
00:00	02:30	2.50	2405.0	2405.0	Repair rig	Circulate thru cmt hose @ 122 stks 3060 psi, & wrk string, while removing clamps on standpipe.
02:30	05:30	3.00	2405.0	2405.0	Repair rig	Change out seal & test Stand pipe to 400psi, Circulate thru standpipe & drilling parameters ok. Reduce to 122spm, 200psi, 20RPM, & Work string while tighten all clamps on stand pipe.
05:30	06:00	0.50	2405.0	2405.0	Repair rig	Rig down circulating lines
06:00	07:30	1.50	2405.0	2434.0	Drilling	Drill ahead as per DD instruction, leak on standpipe manifold
07:30	17:00	9.50	2434.0	2434.0	Repair rig	Held JSA/TBT to work on standpipe1 observed washout at union, circ. through cmt lines & wrk string while working on pipe.
17:00	20:00	3.00	2434.0	2434.0	Repair rig	Work on standpipe2 & change out oring, circ. through cmt lines & work string.
20:00	22:00	2.00	2434.0	2434.0	Repair rig	Test standpipe2 against IBOP 1000psi & tighten clamps.
22:00	22:30	0.50	2434.0	2434.0	Repair rig	Rig down cmt lines
22:30	23:00	0.50	2434.0	2434.0	Reaming / Hole opener / Unc	Wash to btm from 2405m 700gpm @ 60rpm
23:00	00:00	1.00	2434.0	2464.0	Drilling	Drill ahead as per DD instruction 1100gpm 3950psi, 150rpm
6-Jul-2008						
00:00	06:00	6.00	2464.0	2600.0	Drilling	Continue drilling.
06:00	15:30	9.50	2600.0	1715.0	Circulate / Condition mud	POOH, circulate bottom up
15:30	00:00	8.50	0.0	0.0	PU / LD BHA / Tripping	POOH , break off bit

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PowerDrive X5 Summary

PowerDrive — The new direction in rotary drilling

Rev 3: Please do not make any changes to this form !!!

JOB NUMBER	COMPANY REP.	DATE IN	DATE OUT	PowerDrive Run #	MWD Run #	Rig Bit Run #	PD Engineer
08ASQ007	Sean/Stefan	3-Jul-08	6-Jul-08	2	4	5	Moorthy / Pat

CLIENT	Hole Depth - FROM	TO	Flex/ILF SN (ft/m)	Xtra Receiver #	Control Unit #
Nexus Energy	2031.0 m MD	2600.0 m MD	50904	49246	004

RIG NAME	Inclination - FROM	TO	Control Collar #	Ext Sub #	Bias Unit #
Seadrill - West Triton	26.26 deg	52.52 deg	50240	53712	52683

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
Longtom-4	181.66 deg	183.03 deg	Smith	M516-LSPX	JY2593

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	13 1/2"	18.94 m	2.67 m	0-0-NO-A-X-I-NO-TD

Map file name	Mag Dec / Grid Cor / Total Corr.			Connector Phase Angle	Downlink response ?	On Bottom Hours	Last Casing size/wt / depth
n/a (fast downlink)	13.100	-0.83	13.920	120	Good	11.80	16" 750 m

Bit to Bottom of BU Pad	Bit to Midpoint of Stab	Flex Lgth	WOB MIN / MAX		Ave. RPM	Ave. WOB	Off Bottom Circulating Hours	ft / M Drilled this run
0.33 m	5.66 m	2.94 m	16	25	150	20	34.30	569.0

PD MIN/MAX		Initial / Final Battery Voltage		RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
1076	1135	3.67		150	150	600	1135	58.00	569.0

Pulse Width MIN/MAX		Pulse height thres	Digit Time	Actual Flow MIN / MAX		Pump Output / Type		PowerDrive Operating Hours	On Btm ROP	Ave ROP
n/a	n/a	n/a	18 sec	600	1135	5.85	Triplex	46.10	48.2	48.2

Tool Response

Max DLS	Max BUR	Max Turn Rt
3.82	3.8	-101.8

Stab gauge before/after run: 13 3/8 | N/A

Run Objective

Build up inclination back to 30.3 degrees then KO to 52.3 degrees

SOFTWARE VERSION

TSIM	Comms mod	Sensor mod	MWD	IDEAL
AC	CMF523H15	SMV507RN	9.2C02	13_0c_08

Reason for POOH

10 ½" Casing point

Bit Hydraulics Calculations

Enter data in blue areas

Pump Flow	1140
Mud Weight	12
Bit Diameter	13.5
Bit Flow	1123
Bit Pressure Drop	754
Hydraulic HP	494
HSI	3.4
Impact Press.	1363

Note: Rock compressive strength should be greater than the Impact Pressure.

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	18	0.249
2	18	0.249
3	18	0.249
4	20	0.307
5	20	0.307
6		
7		
8		
9		
10		
Bit TFA =		1.359

Flow Restrictor Pressure Drop

Nozzle size (32nd)	TFA	Press. Drop

Total Pressure Drop Below PowerDrive

754 psi

Note: If the box above is red, the total pressure drop below the PowerDrive is not in the optimal range for pad operation. Confirm restrictor and bit nozzle selection is correct such that the total pressure drop below the PowerDrive is between 500 psi an

PowerDrive Serial No.

PART	PFIX	SN	START	CUM
Control Unit	CU	004	0.00	46.10
Control Collar	CC	50240	0.00	46.10
Ext Sub	ES	53712	0.00	46.10
Bias Unit	BU	52683	0.00	46.10
Flex/ILF	PD9RX-AA	50904	0.00	46.10
Xtra Receiver		49246	0.00	46.10
Upper Torquer		54553	0.00	46.10
Lower Torquer		52217	0.00	46.10
Comms Module		516	0.00	46.10
Motor				

Downward Telemetry Calculations

Enter data in the blue areas

Digit Time	18	secs
Falling Time Constant (FTC)	n/a	secs
Rising Time Constant (RTC)	n/a	secs
Driller's Pulse - High / Low	1135 / 1077	
Driller's Pulse Height	n/a	%
Pulse Amplitude	n/a	%
Minimum Recoverable Pulse	n/a	%
Minimum Threshold	n/a	%

PUMP HOURS

Motor Run Information

Motor type	Seiral number
N/A	N/A
Bend type	**Bend Angle**
N/A	N/A
Stab type	**Stab Gauge**
N/A	N/A
Off Bottom pressure	**On Bottom pressure**
N/A	N/A
Backreaming Hours	**Total Reaming Hours**
N/A	N/A
Bearing Play after run (mm)	N/A

Mud properties

Mud Company	Baroid
Mud Type	Accolade SBM
MW at **start** of run	12.0 ppg
MW at **end** of run	12.0 ppg
Funnel Viscosity	74 sec
Plastic Viscosity	45
Yeild Point	41
Maximum DH Temp. deg C	95 degC
Sand %	N/A
Soild %	17.70 %

Run Summary

This assembly was ran in hole with a replacement PowerDrive and new bit. From the start of the run the well path was built using about 50% steering ratio in order to recover from drop in inclination in the previous run. The rate of penetration was significantly higher with the new bit. Once the inclination was recovered the tangent was maintained until the second kick off point at 2316m MD was reached.

The kick off and build section was achieved using build rates of 1 to 3.3 º/30m with 50-75% steering ratios until the 10 3/4" casing point was reached at 2600m MD. Little or no stick-slip was observed for the duration of the run. Formation firmed up a bit towards the end of the run. No problems were experienced during the trip out of the hole.

At surface the bit was graded as 0-0-NO-A-X-I-NO-TD

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Equipment Run Summary Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Run Information

	Date In		Date Out
	24-Jul-2008 5:30PM		26-Jul-2008 12:45PM
Depth (MD):	2604.0 m	to	2841.8 m
Depth (TVD):	2351.0 m	to	2503.3 m
Inclination:	52.52 deg	to	47.00 deg
Azimuth:	183.03 deg	to	183.57 deg

Drilling Distance:	237.00 m	Drilling Hours:	13.50 hrs
Rotary Drilling Distance:	237.00 m	Rotary Drilling Hrs:	13.50 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	79.00 m	Reaming Hours:	2.50 hrs
		Hrs Below Rotary:	43.25 hrs
		Total Pumping Hrs:	21.30 hrs

Hole Size:	9.50 in	Min DLS:	0.22 deg/30 m
		Max DLS:	0.88 deg/30 m
Last Casing Size:	10.750 in	North Ref Used:	Grid North
Last Casing Depth:	2583.0 m (MD)	Magnetic Dec:	13.100 deg
		Max DLS Depth:	2,798.6 m
Tool Face Arc:	.0 cm	Grid Correction:	-0.830 deg
		Surface Screen:	No
Total Face Angle:	0.00 deg	Total Correction:	13.930 deg
		DFS Used:	No
		Est. Mag. Int:	0.11 deg
		Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
		Pulse Damp Press:	700 psi
Water Depth:	57.00 m	Number of Pumps:	1
Air Gap:	17.00 m	Pump Line ID:	6.50 in
RKB Height:	40.00 m	Pump Output:	5.85 galUS/stroke
Ground Elevation:	96.95 m	Pump Stroke Len:	14.00 in

Run Objective

Drill out Casing 10 3/4in casing shoe and cement with 9.5in Directional BHA
Drill ahead from 2600m MD to coring point @ ~2820m MD.

D&M Crew List:

Cell Manager: Michael Van kampen

Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Mark Lu, LWD
Punniamoorthy Sellathurai, DD
Mike van Kampen, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m		
Motor Type:		Bearing Play In:	in		
Motor Size:		Bearing Play Out:	in		
Serial No.:		Bent Sub Angle:	deg		
Lobe Config:		Bent HSG Angle:	deg		
Stage Length:	m				
Rubber:					
Sleeve Position:					
Sleeve Size:	in				
Bearing Type:					

RSS Information

RSS Manufacturer:	D&M		
RSS Type:	PowerDrive Xceed		
RSS SN:	111		
RSS Size:			9.00
Pulse Ht Threshold:			
Min Pulse Width:			
Max Pulse Width:			
Conn Phase Angle:		deg	
Rise Time Const:			
Fall Time Const:			
Digit Time:			

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.08000 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

Schlumberger

Equipment Run Summary Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Drilling Parameters

	Min	Max	Avg
BH Temperature:	32.00 degC	32.00 degC	32.00 degC
Surface RPM:	170.00 rpm	177.00 rpm	173.50 rpm
ROP:	10.57 m/hr	17.80 m/hr	15.93 m/hr
Surface Torque:	14.00 kft.lbf	14.00 kft.lbf	14.00 kft.lbf
Flow Rate:	747.00 galUS/min	750.00 galUS/min	748.50 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 k
Max Shock Level: 3
Max Shock Duration: 300 sec
Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg
H2S In Well: No

Average Pump Pressure: 0 psi

Turbine RPM @ Min Flow Rate: 4,140 rpm
Turbine RPM @ Max Flow Rate: 4,100 rpm
Min Flow Rate: 747.00galUS/min
Max Flow Rate: 750.00galUS/min
SPP Off Bottom: 3,075.00 psi
SPP On Bottom: 3,075.00 psi

Mud Information

Mud Type: Synthetic Oil Base
Mud Company: Haliburton
Mud Brand: Barite
Funnel Viscosity: 128.00 s/qt
Plastic Viscosity: 45.00 cp
Yield Point: 33.00 lbm/100ft2
Mud Resistivity: 1,000.00 ohm-m

Mud Clean: No
LCM Type:
LCM Size:
LCM Concentration: lbs/bbl
Weighting Material: Barite
Mud Weight: 12.20 lbm/galUS

pH:
Chlorides: 63,376.00 ppm
Sand Content: 0.25 %
Solids: 21.70 %
Percent Oil: 68.40 %

IADC Bit Grading

Manufacturer: Hughes Christianson
Model: M713SPXC
Type: PDC

Total Revs:
Stick/Slip:
Reason Pulled: Core Point

IADC Code: M323
Jets (/ 32 in): 7X16
Bit TFA: 1.37 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	4.00	BT	A		I	RO

End of Run - Summary

Sync Hours: 13.87 hrs
Jamming: No 0.00 hrs
Surface Vibration: No
Trans Fail: No

Downhole Noise: No
Surface System Failure: No
Surface Noise: No
H2S in Well: No

Run Failed: Yes
D&M Trip: No
Low Oil Flag: No 0.00 hrs
Filter Screen/Plug Shear: No

Client Inconvenience: **Yes** Lost Time: 2.00hrs

Reason for POOH: Core Point

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

Brief Run Summary:

Ran in hole with 9.5in Directional BHA, tagging cement at a depth of 2551.7m MD
Drilled cement adn casing shoe. Drilled to a depth of 2604m MD and performed Formation Integrity test.
Continued to drill ahead to holding angle to a depth of 2841.8m MD (2503.3m TVD)
At 15:30hrs there was a loss of communication with the XCeed Rotary steerable tool. The tool would not communicate with the telescope through the LTB connection at the EcoScope. Techlogs showed that the XCeed tool had failed whiel downhole and this was the reason for the loss of communication.
EcoScope PNG failed to fire in periods between 2718mMD-2723mMD, 2748mMD-2754mMD, 2790mMD-2800mMD. Pumps were recycled and PNG began firing again. Areas were reamed over after reaching core point.

If not, why?:

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Equipment Run Summary Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Equipment on the Run

	Pump Hours			
Equipment	Start	Cumulative	Software Version	Tool Size
CRSC-AA-111	0.00 hrs	21.30 hrs	37B Build05	6.75 in
DV6MT-AA-773	0.00 hrs	21.30 hrs	Karl2	6.75 in
MDCIX-AB-E0330	0.00 hrs	21.30 hrs	9.2C02	6.75 in
NMHVDC675L-SBD3170	0.00 hrs	21.30 hrs		6.75 in

Services on the Run

			Real Time			Recorded Mode			
Equipment	Service	Tool Name	Hours	Failed	Depth	Hours	Failed	Depth	CAF
RSS	PowerDrive Xceed	PowerDrive Xceed	8.50 hrs		52.0 m	hrs			
LWD	Spectrosity	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Ultrasonic Caliper	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Sigma	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	APWD	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Gamma Ray	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Resistivity	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Density	EcoScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
LWD	Neutron	EcoScope	hrs		121.0 m	hrs		121.0 m	
MWD	Shock and Vibration	TeleScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	
MWD	Cont D&I	TeleScope	21.30 hrs		237.0 m	hrs			
MWD	D&I	TeleScope	21.30 hrs		237.0 m	43.25 hrs		237.0 m	

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BHA Repo

27-Jul-2
8:5

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 5 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	OD, in	Len, m	OD, in	Size	Type	Size	Type	Cumul Le
1	BIT	Hughes Christianson	PDC	JY2083	0.25 m	9.50							4 1/2"	REG PIN	0.25
2	RSS	D&M	PowerDrive Xceed	111	6.12 m	6.75	8.00	6.88	4.48	9.38	4 1/2"	REG BOX	5 1/2"	FH BOX	6.37
3	LWD	D&M	EcoScope	773	6.37 m	6.75	2.40		6.81	9.13	5 1/2"	FH PIN	5 1/2"	FH BOX	12.74
4	MWD	D&M	TeleScope	E0330	8.38 m	6.75	4.25				5 1/2"	FH PIN	4 1/2"	IF BOX	21.12
5	HWDP	D&M	NMHWDP	SBD3170	9.17 m	5.00	2.81				4 1/2"	IF PIN	4 1/2"	IF BOX	30.29
6	CROSSOVER		Crossover	7142	1.22 m	5.00	2.81				4 1/2"	IF PIN	XT57	XT BOX	31.51
7	HWDP		HWDP	000	140.96 m	5.00	2.81				XT57	XT BOX	XT57	XT BOX	172.47

Predicted BHA Tendency: Build.

Hookload Out:
Pickup Out:
Slack Weight:

Wt Below Jars:
Wt Above Jars:
Total Air Wt:

	Mid Pt	Blade			Gauge		
Stab Description	to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port		
RSS-PowerDrive Xceed	0.30	m
LWD-EcoScope	10.00	m
MWD-TeleScope	17.70	m

Bit to Measurement Port	
TeleScope-D&I	20.07
EcoScope-APWD	9.87
EcoScope-Density	10.96
EcoScope-Gamma Ray	19.42
EcoScope-Neutron	13.15
EcoScope-Resistivity	12.75
EcoScope-Sigma	13.30
EcoScope-Spectrosity	13.30
EcoScope-Ultrasonic Caliper	11.33

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Time Description Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Mousso **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Date/Time	Depth		Description
24-Jul-2008 5:00PM	0.0	m	Make up PD to Ecoscope
24-Jul-2008 5:25PM	0.0	m	Make up Ecoscope to Telescope
24-Jul-2008 5:40PM	0.0	m	Make up Bit to PD
24-Jul-2008 6:03PM	0.0	m	Make up NMDC to Telescope
24-Jul-2008 6:23PM	0.0	m	Load source, Pre Loading Survey (Shield-56micro S,Tool-0S), Post Load Survey (Shield-0Sm Tool-56micro S)
24-Jul-2008 8:26PM	150.0	m	Displace to OBM
24-Jul-2008 9:00PM	150.0	m	SHT
25-Jul-2008 5:26AM	2525.2	m	Set Bit Depth 2525.24m MD
25-Jul-2008 5:35AM	2528.6	m	Wash to Bottom
25-Jul-2008 5:45AM			Tag TOC
25-Jul-2008 7:15AM	2587.0	m	Downlink
25-Jul-2008 7:40AM	2593.0	m	Downlink
25-Jul-2008 8:15AM	2594.0	m	Downlink
25-Jul-2008 12:56PM	2673.0	m	Downlink
25-Jul-2008 1:23PM	2640.0	m	Downlink
25-Jul-2008 2:30PM	2644.0	m	Downlink
25-Jul-2008 3:07PM	2656.0	m	Downlink, @ 3:30pm, lost communication with Xceed tool
25-Jul-2008 5:21PM	2690.0	m	Downlink
25-Jul-2008 5:50PM	2698.0	m	Downlink
25-Jul-2008 7:50PM	2725.0	m	PNG related d-points out of range (TNEA = 510, TFAR = 510), MON_v = 0/1, ECOSTAT = 53/61. Pumps recycled and PNG d-points back to normal.
25-Jul-2008 8:06PM	2740.0	m	Downlink
25-Jul-2008 9:21PM	2766.0	m	All PNG related d=points flagging out of range (e.g. TNEA = 510), MON_v 0 or 1, ECOSTAT 53/61 (Indicates PNG firing). Pumps recycled twice with no change. Decision made to continue drilling. PNG related d-points returned to normal after third recycle though no changes in parameters.
25-Jul-2008 11:01PM	2809.9	m	Bit Depth Reset to 2809.94m MD
26-Jul-2008 12:22AM	2819.1	m	Mid Night Depth
26-Jul-2008 12:58AM	2841.8	m	Core point,Circulate bottom up and POOH
26-Jul-2008 2:42AM	2800.0	m	Ream up with 60m/hr. Begin @ 02:42hrs, end first ream at 03:12hrs
26-Jul-2008 3:15AM	2756.0	m	Begin repairs on TDS seal. Repairs end at 03:35hrs
26-Jul-2008 3:37AM	2750.0	m	Ream up @ 60m/hr. Begin @ 03:37hrs, end second ream at 04:17hrs
26-Jul-2008 4:35AM	2725.0	m	Ream up @ 60m/hr. Begin @ 04:35hrs, end last ream at 04:55hrs
26-Jul-2008 12:35PM	0.0	m	Unload RA source (Pre-Unloading Survey: Shield - 0 microS, Tool - 58 microS. Post-Unloading survey: Shield - 56 microS, Tool - 0 microS).
26-Jul-2008 12:45PM	0.0	m	ART
26-Jul-2008 1:10PM	0.0	m	Lay out BHA

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Drilling Parameters Repo

27-Jul-2
8:53:2

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

	26-Jul-2008 12:32 AM	25-Jul-2008 11:03 PM
Field Engineer	San thida Aung	San thida Aung
Depth	2,832.91 m	2,790.00 m
Avg ROP	1.79 m/hr	8.96 m/hr
On Bottom ROP	22.80 m/hr	15.93 m/hr
Flow Rate	747.00 galUS/min	750.00 galUS/min
Turbine RPM	4,140 rpm	4,100 rpm
Surface RPM	177 rpm	170 rpm
WOB Rotating	19.00 klbm	15.00 klbm
WOB Sliding		
DH WOB		
Surface Torque	14.00 kft.lbf	14.00 kft.lbf
DH Torque		
Hookload	222 klbm	220 klbm
PickUp Weight	247.00 klbm	247.00 klbm
Slack Weight	202.00 klbm	202.00 klbm
Friction		
SPP On Bottom	3,230.00 psi	3,075.00 psi
SPP Off Bottom	3,230.00 psi	3,075.00 psi
Diff Pressure		
BH Temperature	32.00 degC	32.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		
Lateral Vib		
Axial Vib		
CRPM	178 rpm	178 rpm
Stick/Slip		
Formation	Claystone	Claystone
Signal Strength	5.20 psi	5.20 psi
Percent Signal Conf	91 %	90 %

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Daily Drilling Activity Report

27-Jul-2008
8:53AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Bill Openshaw/Rocco Mous	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	5				

			Depth in m			
From	To	Elapsed	From	To	IADC Activity	Description
7-Jul-2008						
00:00	01:00	1.00	0.0	0.0	PU / LD BHA / Tripping	MWD rack back stand
01:00	00:00	23.00	0.0	0.0	Wireline logs	Wireline logging
8-Jul-2008						
00:00	23:00	23.00	0.0	0.0	Wireline logs	wireline logging and POOH
23:00	00:00	1.00	0.0	0.0	PU / LD BHA / Tripping	wipe trip
10-Jul-2008						
00:00	00:30	0.50	0.0	0.0	PU / LD BHA / Tripping	Break Bit + Junk Basket Rack back stand in derrick.
00:30	11:30	11.00	0.0	0.0	Wireline logs	JSA, Rig up wireline, RIH MDT and log as per programe.
11:30	12:00	0.50	0.0	0.0	Wireline logs	POOH MDT tool.
12:00	13:30	1.50	0.0	0.0	Wireline logs	Wireline tool at surface, laydown tools and rig down wireline.
13:30	15:00	1.50	0.0	0.0	PU / LD BHA / Tripping	M/U jetting tool & wear bushing retrival tool.
15:00	16:00	1.00	0.0	0.0	Rig up / Rig down	16" outer diverter insert packer.
16:00	16:30	0.50	0.0	0.0	Rig up / Rig down	Jet across BOP area's with 2x60spm, 2500psi.
16:30	00:00	7.50	0.0	0.0	Other	Power failure, troubleshoot problems.
11-Jul-2008						
00:00	12:00	12.00	0.0	0.0	Other	Downtime on rig, Repairing motors whilst running on emergency power
12:00	00:00	12.00	0.0	0.0	Other	Downtime on rig, Repairing motors whilst running on emergency power
24-Jul-2008						
16:30	18:30	2.00	0.0	35.0	PU / LD BHA / Tripping	Pick up 9.5in directional BHA ,RIH to 35m. Load RA source
18:30	20:30	2.00	35.0	154.0	PU / LD BHA / Tripping	RIH w/ directional BHA f/35m to 154m on HWDP.
20:30	21:00	0.50	154.0	154.0	PU / LD BHA / Tripping	Displace hole to SBM and SHT with 600gpm,1400psi OK
21:00	00:00	3.00	154.0	982.0	PU / LD BHA / Tripping	Cont. RIH 9.5in Directional BHA f/154m to 982m. filling every 10stands
25-Jul-2008						
00:00	04:30	4.50	982.0	2406.0	PU / LD BHA / Tripping	Cont to RIH F/982m to 2406m
04:30	05:00	0.50	2406.0	2406.0	MWD/LWD service quality	Held Safety Meeting on rig floor after derrick incident
05:00	05:30	0.50	2406.0	2525.0	PU / LD BHA / Tripping	Cont to RIH F/2406m to 2525m
05:30	08:00	2.50	2525.0	2604.0	Reaming / Hole opener / Unc	M/up TDS was down to TOC @ 2551.7m Drill CMT to 2604m w/600gpm, 3k WOB @ 2500psi
08:00	09:00	1.00	2604.0	2604.0	Circulate / Condition mud	Circ. bottoms up @ 2604 W/640gpm
09:00	10:00	1.00	2604.0	2604.0	MWD/LWD service quality	R/ip test lines & perform FIT test to 802psi EMW = 14.9ppg
10:00	13:30	3.50	2604.0	2641.0	Drilling	Drill 9.5in hole f/ 2604m to 2641m
13:30	14:00	0.50	2641.0	2641.0	Repair rig	re set mud pump pop off after IBOP failed to open correctly.
14:00	00:00	10.00	2641.0	2819.0	Drilling	Cont to drill 9,5in hole f/ 2641m to 2819m (TVD 2487.97)
26-Jul-2008						
00:00	01:00	1.00	2819.0	2841.8	Drilling	continue drill to core point
01:00	02:00	1.00	2841.8	2841.8	Circulate / Condition mud	Circulate the bottom up@750gpm
02:00	04:42	2.70	2800.0	2725.0	Reaming / Hole opener / Unc	Reaming up/topdrive problem

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PowerDrive Xceed Summary

PowerDrive
The new direction in rotary drilling

Xceed Rev 1: Please do not make any changes to this form !!!

JOB NUMBER	COMPANY REP.	DATE IN	DATE OUT	PowerDrive Run #	MWD Run #	Rig Bit Run #	PD Engineer
08-ASQ-0007	Bill Openshaw/Rocco Rossouw	24-Jul-08	26-Jul-08	3	5	7	Moorthy/Pat

CLIENT	Hole Depth - FROM	TO	CRSPA-BA	CRSC-AA	CRSEM-AB
Nexus Energy	2600.0 m MD	2841 m	216	111	55

RIG NAME	Inclination - FROM	TO	CRSSA-AB	CRSDA-AA	
West Triton	53.72 deg	47.70 deg	107	345	

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
Longtom-4 P (Pilot)	182.84 deg	183.57 deg	Smith	M716 SPXC	JY2083

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	9 1/2	20.07 m	4.14 m	2-4-BT-A-X-I-RO-CP

Map file name	Mag Dec / Grid Cor / Total Corr.			Resolver Offset	Downlink response ?	On Bottom Hours	Last Casing size/wt / depth
Fast Downlink	13.100	-0.83	13.925	55	good	9.40	10 3/4"@ 2591m

Bit-Midpoint Lower Szr	Bit-Midpoint Upper Stab	Flex Lgth	WOB MIN / MAX		Ave. RPM	Ave. WOB	Off Bottom Circulating Hours	ft / M Drilled this run
0.65	4.10	n/a	10	20	170	15	11.90	241.0m

PD MIN/MAX		Battery Voltage	Date Due	RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
475	800	3.3	30Oct08	150	180	400	800	42.75	241.0m

Fast Downlink		Pulse height	Used	Actual Flow MIN / MAX		Pump Output / Type		PowerDrive Operating Hours	On Btm ROP	Ave ROP
18 sec	60 sec	11%	18 sec	600	750	5.85	Triplex	21.30	25.6	25.6

Tool Response

Max DLS	Max BUR	Max Turn Rt
n/a	n/a	n/a

Stab gauge before/after run: 9 3/8 / 9 3/8

Run Objective: Maintain tangent of 54.25 deg to core point

SOFTWARE VERSION

Acq	CPU	Comm	MWD	IDEAL
9.1A-70(03)	37b05	9.1A45(00)	V9.2	18_0c_08

Reason for POOH: Core point

Bit Hydraulics Calculations

Enter data in blue areas

Pump Flow	750
Mud Weight	12
Bit Diameter	9.5
Bit Flow	750
Bit Pressure Drop	329
Hydraulic HP	144
HSI	2.0
Impact Press.	595

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	16	0.196
2	16	0.196
3	16	0.196
4	16	0.196
5	16	0.196
6	16	0.196
7	16	0.196
8		
9		
10		
Bit TFA =		1.374

PowerDrive Serial No.

PART	PFIX	SN	PUMP HOURS START	PUMP HOURS CUM
Electronics	CRSEM-AB	55	21.30	21.30
Steering Section	CRSC-AA	111	21.30	21.30
Collar	CRSPA-BA	216	21.30	21.30
Power Generation	CRSSA-AB	107	21.30	21.30
Sub	CRSDA-AA	345	21.30	21.30

Motor Run Information

Motor type	Seiral number
n/a	
Bend type	Bend Angle
Stab type	Stab Gauge
Off Bottom pressure	On Bottom pressure
Backreaming Hours	Total Reaming Hours
Bearing Play after run (mm)	

Mud properties

Mud Company	Bariod
Mud Type	Accolade SBM
MW at **start** of run	12.0 ppg
MW at **end** of run	12.0 ppg
Funnel Viscosity	128 sec
Plastic Viscosity	45
Yeild Point	33
Maximum DH Temp. deg C	85 degC
Sand %	0.25 %
Soild %	21.70 %

Run Summary

Once drilling commenced the tangent was maintained at around 54º inclination to about 2660m from which point the communication to the Xceed tool was lost. Drilling continued on the premise that maybe there is only a problem with the extender between EcoScope and Xceed and then evaluate the tools steering response further on. The assembly showed a dropping tendency so the Xceed was taken out of Hold Inclination and Azimuth (HIA) mode at 2701m MD and set with a steering setting of 20% steering ratio and 0º toolface. Prior to 2701m the drop rate based on the MWD's continuous inclination readings was about 1.4º/30m and after 2701m the drop rate was 0.5º/30m so it appeared that the tool may be have been responding. A steering setting of 60% steering ratio and 0º toolface was sent however the assembly continued to drop. By time that it was certain the tool had failed rather than just the real time extender link. As this was a pilot hole the decision was made that the plan could tolerate the drop in the well path. By core point the well path had dropped 9º.

Once the tool was dumped the tech logs showed that the tool failed at around 15:30 and there was no apparent reasons for the failure.

The dump data and tool was sent to town for further analysis.

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Equipment Run Summary Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 6

Run Information

	Date In		Date Out
	27-Jul-2008 11:00PM		29-Jul-2008 9:00PM
Depth (MD):	2841.0 m	to	2987.0 m
Depth (TVD):	2503.0 m	to	2604.0 m
Inclination:	47.00 deg	to	45.14 deg
Azimuth:	183.57 deg	to	184.59 deg

Drilling Distance:	146.00 m	Drilling Hours:	8.40 hrs
Rotary Drilling Distance:	146.00 m	Rotary Drilling Hrs:	13.50 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	277.00 m	Reaming Hours:	6.00 hrs
		Hrs Below Rotary:	46.00 hrs
		Total Pumping Hrs:	13.80 hrs

Hole Size:	9.50 in	Min DLS:	0.38 deg/30 m
		Max DLS:	1.34 deg/30 m
Last Casing Size:	10.750 in	North Ref Used:	Grid North
Last Casing Depth:	2591.0 m (MD)	Magnetic Dec:	13.100 deg
		Max DLS Depth:	2,946.1 m
Tool Face Arc:		Grid Correction:	-0.830 deg
		Surface Screen:	No
Total Face Angle:	deg	Total Correction:	13.930 deg
		DFS Used:	No
		Est. Mag. Int:	0.10 deg
		Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
		Pulse Damp Press:	700 psi
Water Depth:	57.00 m	Number of Pumps:	1
Air Gap:	17.00 m	Pump Line ID:	6.50 in
RKB Height:	40.00 m	Pump Output:	5.85 galUS/stroke
Ground Elevation:	96.95 m	Pump Stroke Len:	14.00 in

Run Objective

RIH with BHA consisting of TeleScope and EcoScope. Ream down selected intervals (2640 - 2670mMD, 2720-2735mMD, 2750-2766mMD & 2792-2813mMD). Ream from 2841-2896m to clean hole made during coring run. Drill ahead from 2896m to TD of Pilot hole as determined by geology.

D&M Crew List:

Cell Manager: Michael Van kampen

Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Mark Lu, LWD
Punniamoorthy Sellathurai, DD
Mike van Kampen, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m	Stage Length:	m
Motor Type:		Bearing Play In:	in	Rubber:	
Motor Size:		Bearing Play Out:	in	Sleeve Position:	
Serial No.:		Bent Sub Angle:	deg	Sleeve Size:	in
Lobe Config:		Bent HSG Angle:	deg	Bearing Type:	

RSS Information

RSS Manufacturer:	
RSS Type:	
RSS SN:	
RSS Size:	
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle:	deg
Rise Time Const:	
Fall Time Const:	
Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.08000 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

Drilling Parameters

	Min	Max	Avg		
BH Temperature:	85.00 degC	85.00 degC	85.00 degC	Total DH Shocks (k):	0 k
Surface RPM:	160.00 rpm	160.00 rpm	160.00 rpm	Max Shock Level:	3
				Max Shock Duration:	900 sec

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BHA Repo

30-Jul-2
6:3

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 6 **BHA Type:** Rotary

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	OD, in	Len, m	OD, in	Size	Type	Size	Type	Cumul Le
1	BIT	Smith	PDC	JY2802	0.25 m	9.50							4 1/2"	REG PIN	0.25
2	BIT SUB	Sea Drill		BXNC50B	1.22 m	6.50	3.75				4 1/2"	REG PIN	4 1/2"	FH BOX	1.47
3	CROSSOVER	D&M		SBN0360	0.46 m	6.50	3.75				4 1/2"	FH PIN	5 1/2"	FH BOX	1.93
4	LWD	D&M	EcoScope	801	8.04 m	6.75	2.40	9.13	1.89	9.13	5 1/2"	FH PIN	5 1/2"	FH BOX	9.97
5	MWD	D&M	TeleScope	E0330	8.52 m	6.75	4.25				5 1/2"	FH PIN	4 1/2"	IF BOX	18.49
6	HWDP	D&M	NMHWDP	SBD3170	9.19 m	5.00	2.81	6.75	1.12		4 1/2"	IF PIN	4 1/2"	IF BOX	27.68
7	CROSSOVER		Crossover	11560.3	0.49 m	7.00	2.81				4 1/2"	IF PIN	XT57	XT BOX	28.17
8	HWDP	Sea Drill		Sea Drill	28.03 m	7.06	3.06	7.06	0.45		XT57	XT PIN	XT57	XT BOX	56.20
9	CROSSOVER	Sea Drill		11323.1	0.91 m	7.00	2.81				XT57	XT PIN	4 1/2"	IF BOX	57.11
10	JAR	Sea Drill		14161588	9.73 m	6.25	2.75	6.25	0.40		4 1/2"	IF PIN	4 1/2"	IF BOX	66.84
11	CROSSOVER	Sea Drill		7142	1.22 m	7.00	2.88	7.00			4 1/2"	IF PIN	XT57	XT BOX	68.06
12	HWDP	Sea Drill		Sea Drill	140.96 m										209.02

Predicted BHA Tendency: Drop

Hookload Out:	lbm		Wt Below Jars:	7,000	lbm
Pickup Out:	lbm		Wt Above Jars:	29,000	lbm
Slack Weight:	lbm		Total Air Wt:	36,000	lbm

		Blade			Gauge		
Stab Description	Mid Pt to Bit	Type	Len	Width	Len	In	Out

Bit to Read Out Port		
LWD-EcoScope	4.10	m
MWD-TeleScope	14.10	m

Bit to Measurement Port	
EcoScope-Spectrosity	7.35
EcoScope-Ultrasonic Caliper	5.38
EcoScope-Sigma	7.20
EcoScope-APWD	3.92
EcoScope-Gamma Ray	3.75
EcoScope-Resistivity	6.80
EcoScope-Density	5.01
EcoScope-Neutron	7.20
TeleScope-D&I	14.11

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Equipment Run Summary Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 6

ROP:	9.58 m/hr	13.75 m/hr	17.38 m/hr
Surface Torque:	9.00 kft.lbf	9.00 kft.lbf	9.00 kft.lbf
Flow Rate:	720.00 galUS/min	720.00 galUS/min	720.00 galUS/min
WOB Sliding:			

Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg

H2S In Well: No

Average Pump Pressure: 0 psi

Turbine RPM @ Min Flow Rate:	4,023 rpm	Min Flow Rate:	720.00galUS/min	SPP Off Bottom:	2,950.00 psi
Turbine RPM @ Max Flow Rate:	4,023 rpm	Max Flow Rate:	720.00galUS/min	SPP On Bottom:	2,950.00 psi

Mud Information

Mud Type:	Oil Base	Mud Clean:	No	pH:	
Mud Company:	Halliburton	LCM Type:		Chlorides:	272,796.00 ppm
Mud Brand:	Accolade SBM	LCM Size:		Sand Content:	%
Funnel Viscosity:	128.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	19.60 %
Plastic Viscosity:	45.00 cp	Weighting Material:	Barite	Percent Oil:	24.00 %
Yield Point:	20.00 lbm/100ft2	Mud Weight:	12.15 lbm/galUS		
Mud Resistivity:	ohm-m				

IADC Bit Grading

Manufacturer:	Smith	Total Revs:		IADC Code:	M323
Model:	M713SPXC	Stick/Slip:		Jets (/ 32 in):	7X16
Type:	PDC	Reason Pulled:	Total Depth/Casing Depth	Bit TFA:	1.37 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	7.00	WT	S		I	RO

End of Run - Summary

Sync Hours:	11.00 hrs	Downhole Noise:	No	Run Failed:	Yes
Jamming:	No 0.00 hrs	Surface System Failure:	No	D&M Trip:	No
Surface Vibration:	No	Surface Noise:	No	Low Oil Flag:	No 0.00 hrs
Trans Fail:	No	H2S in Well:	No	Filter Screen/Plug Shear:	No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

Brief Run Summary:

Sucessfully re-logged intervals on first run with spiky porosity data at 120m/hr. Cleaned out hole drilled during coring run and continued drilling until TD of Longtom-4 P. TD was called at 2987mMD due to low ROP in extremely hard volcanic formation. Near detector in EcoScope tool failed at 2985mMD. Shocks seen from top of volcanics (~2650m) with lateral shock consistently reading 1G and axial shock of 1G from 2985m. Peak shock on MWD tool reading ~40G and lower over the same interval. EcoScope shock level began reading high (lvl3) at 2986m though MWD Shock Risk remained at 0.

If not, why?:

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Equipment Run Summary Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 6

Equipment on the Run

	Pump Hours			
Equipment	Start	Cumulative	Software Version	Tool Size
DV6MT-AA-801	0.00 hrs	13.80 hrs	Karl2	6.75 in
MDCIX-AB-E0330	21.30 hrs	35.10 hrs	9.2C02	6.75 in
NMHVDC675L-SBD3170	21.30 hrs	35.10 hrs		6.75 in

Services on the Run

			Real Time			Recorded Mode			
Equipment	Service	Tool Name	Hours	Failed	Depth	Hours	Failed	Depth	CAF
LWD	Spectrosity	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Ultrasonic Caliper	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Sigma	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	APWD	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Gamma Ray	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Resistivity	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Density	EcoScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
LWD	Neutron	EcoScope	10.30 hrs		144.0 m	19.50 hrs		144.0 m	
MWD	Shock and Vibration	TeleScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	
MWD	Cont D&I	TeleScope	13.80 hrs		146.0 m	hrs			
MWD	D&I	TeleScope	13.80 hrs		146.0 m	46.00 hrs		146.0 m	

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Time Description Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 6

Date/Time	Depth		Description
27-Jul-2008 9:00AM	0.0	m	Pick up BHA
27-Jul-2008 10:14AM	0.0	m	Make up TeleScope to EcoScope and BRT
27-Jul-2008 10:50AM	0.0	m	Make up bit to BHA
27-Jul-2008 11:05AM	0.0	m	Load RA Source and FNP (Pre-load Survey: Shield-48 microS, Tool-0 microS, Post-load Survey: Shield-0 microS, Tool-39 microS)
28-Jul-2008 12:58AM	220.0	m	SHT with RA source (Tool G 1000mG, good communication, MON_v 141)
28-Jul-2008 6:48AM	2637.0	m	Begin ream @ 2637mMD, 120 m/hr, 720 gpm
28-Jul-2008 7:20AM	2671.0	m	End ream @ 2671m
28-Jul-2008 7:40AM	2720.0	m	Begin ream @ 2720m, 120 m/hr, 720 gpm
28-Jul-2008 7:55AM	2735.0	m	End ream @ 2735m
28-Jul-2008 8:11AM	2750.0	m	Begin ream @ 2750m, 120 m/hr, 720 gpm
28-Jul-2008 8:20AM	2766.0	m	End ream @ 2766m
28-Jul-2008 8:40AM	2792.0	m	Begin ream @ 2792m, 120 m/hr, 720 gpm
28-Jul-2008 9:00AM	2813.0	m	End ream @ 2813m
28-Jul-2008 11:45AM	2896.0	m	Tag bottom
28-Jul-2008 6:23PM	2985.0	m	TNEA_v reading 510. MON_v ok ~140. TFAR reading normally. ROBB and PEB reading out of range also (254).
28-Jul-2008 6:25PM	2985.0	m	Pumps recycled. No change in TNEA_v. PNG appears to be working without incident (MON_v ~ 140, TFAR varying).
28-Jul-2008 8:55PM	2987.0	m	TD called @ 2987mMD
28-Jul-2008 9:10PM	2987.0	m	Take survey on bottom and back ream last stand after recycling pumps. No change in TNEA. PNG ok. ROBB and PEB readings back to normal.
28-Jul-2008 9:15PM	2987.0	m	Circulate bottoms up and POOH.
29-Jul-2008 4:30AM	50.0	m	Unload RA Source and FNP (Pre-unload Survey: Shield-0 microS, Tool-48 microS, Post-unload Survey: Shield-48 microS, Tool-0 microS)
29-Jul-2008 4:45AM	0.0	m	ART
29-Jul-2008 5:05AM	0.0	m	Layout NM HWDP
29-Jul-2008 5:21AM	0.0	m	Layout TeleScope
29-Jul-2008 5:30AM	0.0	m	Layout EcoScope

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Drilling Parameters Repo

30-Jul-2
6:37:5

Job Number: 08ASQ0007
Company Rep:
Run Number: 6

Company: NEXUS ENERGY LTD
Location: MEA-APG-ASS

Rig Name: West Triton
Well Name: Longtom-4

	28-Jul-2008 12:15 PM
Field Engineer	Mike van Kampen
Depth	2,902.00 m
Avg ROP	3.79 m/hr
On Bottom ROP	10.83 m/hr
Flow Rate	720.00 galUS/min
Turbine RPM	4,023 rpm
Surface RPM	160 rpm
WOB Rotating	12.00 klbm
WOB Sliding	
DH WOB	
Surface Torque	9.00 kft.lbf
DH Torque	
Hookload	205 klbm
PickUp Weight	
Slack Weight	
Friction	
SPP On Bottom	2,950.00 psi
SPP Off Bottom	2,950.00 psi
Diff Pressure	
BH Temperature	85.00 degC
Total Shocks (k)	
Max Shock Level	
Max Shock Duration	
Torsional Vib	
Lateral Vib	
Axial Vib	
CRPM	159 rpm
Stick/Slip	36
Formation	Sandstone
Signal Strength	3.40 psi
Percent Signal Conf	80 %

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Daily Drilling Activity Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run No: 6

From	To	Elapsed	Depth in m From	Depth in m To	IADC Activity	Description
27-Jul-2008						
00:00	01:30	1.50	2369.0	2812.0	PU / LD BHA / Tripping	RIH f/ 2369 - 2812m
01:30	02:00	0.50	2812.0	2841.0	Reaming / Hole opener / Unc	Wash down f/ 2812 - 2841m
02:00	02:30	0.50	2841.0	2841.0	MWD/LWD service quality	Drop ball, SCR's
02:30	06:30	4.00	2841.0	2896.0	Coring	Core f/ 2841 - 2896m
06:30	08:30	2.00	2896.0	2308.0	PU / LD BHA / Tripping	Flow check and POOH f/ 2896 to shoe, pump slug and POOH f/ 2951 - 2308m
08:30	12:00	3.50	2308.0	651.0	PU / LD BHA / Tripping	Drop ball, POOH f/ 2308 - 651m
12:00	15:00	3.00	651.0	67.0	PU / LD BHA / Tripping	POOH f/ 651 - 67m
15:00	20:00	5.00	0.0	0.0	Other	Recover core
20:00	21:00	1.00	0.0	0.0	Lubricate rig / Service	Rig service
21:00	00:00	3.00	0.0	143.0	PU / LD BHA / Tripping	Make up 9.5" BHA and load RA source, RIH to 143m
28-Jul-2008						
00:00	00:30	0.50	143.0	209.0	PU / LD BHA / Tripping	continue RIH , BHA weight 29k
00:30	01:00	0.50	220.0	220.0	MWD/LWD service quality	SHT with 650gpm @1400psi
01:00	06:00	5.00	209.0	2620.0	PU / LD BHA / Tripping	continue RIH and filling pipe every 20stands
06:00	09:30	3.50	2620.0	2813.0	Reaming / Hole opener / Unc	logging 2640-2670m,2720-2735m,2750-2766m,2792-2813m, with 500gpm,120rpm,1650psi
09:30	11:30	2.00	2841.0	2896.0	Reaming / Hole opener / Unc	Ream core section to 9.5inch with 150rpm,720gpm,2950psi
11:30	21:00	9.50	2896.0	2987.0	Drilling	Drill 9.5" to TD2987mMD,survey every stand
21:00	22:00	1.00	2977.0	2980.0	Circulate / Condition mud	Hole clean, Re-log,Flow check
22:00	23:00	1.00	2987.0	2590.0	PU / LD BHA / Tripping	POOH
23:00	00:00	1.00	2590.0	2430.0	PU / LD BHA / Tripping	Flow check@shoe, POOH to 2430mMD
29-Jul-2008						
00:00	03:00	3.00	2430.0	209.0	PU / LD BHA / Tripping	POOH f/ 2430 - 209m
03:00	05:30	2.50	209.0	0.0	PU / LD BHA / Tripping	Flow check, unload RA source, lay-out tools
05:30	06:00	0.50	0.0	0.0	MWD/LWD service quality	Clean rig floor & JSA for rig-up (wireline)
06:00	06:30	0.50	0.0	0.0	Wireline logs	Rig up wireline
06:30	09:00	2.50	0.0	0.0	Wireline logs	Pickup and make up wireline tool, RIH to 2720m
09:00	22:00	13.00	0.0	0.0	Wireline logs	Log f/ 2603 - 2967.5m, 40 pressure points
22:00	00:00	2.00	0.0	0.0	Wireline logs	Log f/ 2985 - 2050m

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Equipment Run Summary Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Run Information

	Date In			Date Out
	1-Aug-2008 4:00AM			6-Aug-2008 8:30AM
Depth (MD):	2696.0 m	to	3577.0 m	
Depth (TVD):	2399.5 m	to	2625.5 m	
Inclination:	52.50 deg	to	91.44 deg	
Azimuth:	184.22 deg	to	180.83 deg	

Drilling Distance:	881.00 m	Drilling Hours:	74.33 hrs
Rotary Drilling Distance:	881.00 m	Rotary Drilling Hrs:	74.33 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	3.00 m	Reaming Hours:	2.00 hrs
		Hrs Below Rotary:	124.50 hrs
		Total Pumping Hrs:	77.80 hrs

Hole Size:	9.50 in	Min DLS:	0.21 deg/30 m
Last Casing Size:	10.750 in	Max DLS:	6.07 deg/30 m
Last Casing Depth:	2591.0 m (MD)	Max DLS Depth:	2,911.5 m
Tool Face Arc:		Surface Screen:	No
Total Face Angle:	deg	DFS Used:	No

North Ref Used:	Grid North	Inline Filter:	No
Magnetic Dec:	13.100 deg		
Grid Correction:	-0.830 deg		
Total Correction:	13.930 deg		
Est. Mag. Int:	0.14 deg		

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	57.00 m	Pulse Damp Press:	700 psi
Air Gap:	17.00 m	Number of Pumps:	1
RKB Height:	40.00 m	Pump Line ID:	6.50 in
Ground Elevation:	96.95 m	Pump Output:	5.85 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

Drill 9.5in Production hole with Rotary steerable BHA, building angle from a depth of 2681mMD to a final depth of ~5880mMD. Taking diretcional surveys and logging formation properties with the use of the EcoScope tool.

D&M Crew List:

Cell Manager: Michael Van kampen

Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Mark Lu, LWD
Punniamoorthy Sellathurai, DD
Mike van Kampen, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m		
Motor Type:		Bearing Play In:	in		
Motor Size:		Bearing Play Out:	in		
Serial No.:		Bent Sub Angle:	deg		
Lobe Config:		Bent HSG Angle:	deg		
Stage Length:	m				
Rubber:					
Sleeve Position:					
Sleeve Size:	in				
Bearing Type:					

RSS Information

RSS Manufacturer:	D&M		
RSS Type:	PowerDrive Xceed		
RSS SN:	241		
RSS Size:			7.60
Pulse Ht Threshold:			
Min Pulse Width:			
Max Pulse Width:			
Conn Phase Angle:	deg		
Rise Time Const:			
Fall Time Const:			
Digit Time:			

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.08000 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

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Equipment Run Summary Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Drilling Parameters

	Min	Max	Avg
BH Temperature:	78.00 degC	97.00 degC	86.42 degC
Surface RPM:	118.00 rpm	150.00 rpm	132.78 rpm
ROP:	1.00 m/hr	19.58 m/hr	11.85 m/hr
Surface Torque:	2.76 kft.lbf	10.00 kft.lbf	5.33 kft.lbf
Flow Rate:	550.00 galUS/min	790.00 galUS/min	673.19 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 k
Max Shock Level: 0
Max Shock Duration: 0 sec
Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg

Average Pump Pressure: psi

H2S In Well: No

Turbine RPM @ Min Flow Rate: 3,870 rpm Min Flow Rate: 550.00galUS/min SPP Off Bottom: psi
Turbine RPM @ Max Flow Rate: 4,414 rpm Max Flow Rate: 790.00galUS/min SPP On Bottom: 2,066.00 psi

Mud Information

Mud Type: Synthetic Oil Base Mud Clean: No pH:
Mud Company: Baroid Fluid Service LCM Type: Chlorides: 271,562.00 ppm
Mud Brand: Accolade SBM LCM Size: Sand Content: %
Funnel Viscosity: 85.00 s/qt LCM Concentration: lbs/bbl Solids: 20.90 %
Plastic Viscosity: 48.00 cp Weighting Material: Barite Percent Oil: 56.00 %
Yield Point: 27.00 lbm/100ft2 Mud Weight: 12.10 lbm/galUS
Mud Resistivity: ohm-m

IADC Bit Grading

Manufacturer: Hycalog Total Revs: 447,370.00 IADC Code: M322
Model: RSR616M-B3 Stick/Slip: Jets (/ 32 in): 6X16
Type: PDC Reason Pulled: Downhole Tool Failure Bit TFA: 1.18 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	6.00	BT	S		I	JD

End of Run - Summary

Sync Hours: 37.88 hrs Downhole Noise: No Run Failed: Yes
Jamming: No 0.00 hrs Surface System Failure: No D&M Trip: No
Surface Vibration: No Surface Noise: No Low Oil Flag: No 0.00 hrs
Trans Fail: No H2S in Well: No Filter Screen/Plug Shear: No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Downhole Tool Failure

D&M Run Obj Met? [DD and MWD/LWD]: **No**

Brief Run Summary:

RIH with BHA consisting of Xceed, EcoScope and TeleScope. Tag TOC at 2687mMD and successfully kicked off and drilled 9.5in Production hole to depth of 3577mMD. At 2820mMD trouble was experienced when trying to take an MWD survey. Surveying difficult arose again at 2851mMD where three attempts were required in order to get a survey within FAC. At 2999mMD further surveying issues were experienced. In total fouir surveys were taken at 2999mMD without success. The stand was drilled down and another survey taken. This survey also failed FAC and the raw counts indicated that the D&I package was not functioning correctly. As the Xceed surveys had been within FAC throughout the run the client opted to continue drilling ahead using the Xceed surveys in place of the failed MWD surveys. The Xceed survey FAC was tightened to match the MWD standard FAC.

If not, why?:

MWD tool failure

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 7

Drilling continued within the MWD tool ceasing to modulate intermittently while drilling from 3095mMD onwards. Initially the tool would immediately began modulating without any need to recycle the pumps. As drilling continued the MWD tool would turn off more frequently and difficulty was encountered with no tool not modulating. Different flow rates where used as well as staggering of pumps and reciprication of the pipe. No anti-jam events were seen. Drilling continued to 3577 where further issues were experienced with regaining tool modulation. Client decided to POOH and change out the tools.

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Equipment Run Summary Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Equipment on the Run

	Pump Hours			
Equipment	Start	Cumulative	Software Version	Tool Size
CRSC-AA-241	0.00 hrs	77.80 hrs	37b05	6.75 in
DV6MT-AB-957	0.00 hrs	77.80 hrs	Karl2	6.75 in
MDCIX-AB-E0330	35.10 hrs	112.90 hrs	9.2C02	6.75 in
NMHVDC675L-SBD3170	35.10 hrs	112.90 hrs		6.75 in

Services on the Run

			Real Time			Recorded Mode			
Equipment	Service	Tool Name	Hours	Failed	Depth	Hours	Failed	Depth	CAF
RSS	D&I	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
RSS	Cont D&I	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
RSS	Shock risk	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
RSS	Stick/Slip risk	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
RSS	T/F	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
RSS	PowerDrive Xceed	PowerDrive Xceed	77.80 hrs		881.0 m	hrs			
LWD	Spectrosity	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	Ultrasonic Caliper	EcoScope	18.40 hrs		361.0 m	47.00 hrs		361.0 m	
LWD	Sigma	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	APWD	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	Gamma Ray	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	Resistivity	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	Density	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
LWD	Neutron	EcoScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
MWD	Shock and Vibration	TeleScope	77.80 hrs		881.0 m	124.50 hrs		881.0 m	
MWD	Cont D&I	TeleScope	18.40 hrs		303.0 m	hrs			
MWD	D&I	TeleScope	18.40 hrs		303.0 m	124.50 hrs		881.0 m	

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BHA Repo

7-Aug-2
2:4

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 7 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	OD, in	Len, m	OD, in	Size	Type	Size	Type	Cumul Le
1	BIT	Hycalog	PDC	218795	0.22 m	9.50							4 1/2"	REG PIN	0.22
2	RSS	D&M	PowerDrive Xceed	241	7.66 m	6.75	3.75	6.88	4.48	9.38	4 1/2"	REG BOX	5 1/2"	FH BOX	7.88
3	LWD	D&M	EcoScope	957	8.05 m	6.75	3.88			9.13	5 1/2"	FH PIN	5 1/2"	FH BOX	15.93
4	MWD	D&M	TeleScope	E0330	8.52 m	6.75	3.88				5 1/2"	FH PIN	4 1/2"	IF BOX	24.45
5	HWDP	D&M	NMHWDP	SBD3170	9.19 m	5.00	2.81				4 1/2"	IF PIN	4 1/2"	IF BOX	33.64
6	CROSSOVER	Seadrill	Crossover	11560.3	0.49 m	5.50	3.25				4 1/2"	IF PIN	XT57	XT BOX	34.13
7	HWDP	Sea Drill	HWDP	Sea Drill	56.23 m	5.50	3.25				XT57	XT PIN	XT57	XT BOX	90.36
8	CROSSOVER	Sea Drill	Crossover	SSD7142	1.22 m	7.00	2.88				XT57	XT PIN	4 1/2"	IF BOX	91.58
9	JAR	Weatherford	Jar	1416-1515	9.62 m	6.50	2.75	6.32	0.32		4 1/2"	IF PIN	4 1/2"	IF BOX	101.20
10	CROSSOVER	Sea Drill	Crossover	508A67	0.91 m	6.75	2.81				4 1/2"	IF PIN	XT57	XT 57 BOX	102.11
11	HWDP	Sea Drill	HWDP	Sea Drill	112.76 m	5.50	3.25				5 1/2"	XT 57 PIN	5 1/2"	XT 57 BOX	214.87

Predicted BHA Tendency: Drop

Hookload Out:	lbm	Wt Below Jars:	6,507 lbm
Pickup Out:	lbm	Wt Above Jars:	7,568 lbm
Slack Weight:	lbm	Total Air Wt:	14,075 lbm

Stab Description	Mid Pt to Bit	Blade Type	Blade Len	Blade Width	Gauge Len	Gauge In	Gauge Out

Bit to Read Out Port		
LWD-EcoScope	10.00	m
MWD-TeleScope	17.70	m
RSS-PowerDrive Xceed	0.20	m

Bit to Measurement Port	
EcoScope-Spectrosity	13.32
EcoScope-Ultrasonic Caliper	11.35
EcoScope-Sigma	13.32
EcoScope-APWD	9.89
EcoScope-Gamma Ray	9.73
EcoScope-Resistivity	12.77
EcoScope-Density	10.98
EcoScope-Neutron	13.17
TeleScope-D&I	14.11
PowerDrive Xceed-D&I	4.12
PowerDrive Xceed-Cont D&I	4.12
PowerDrive Xceed-Shock risk	4.12
PowerDrive Xceed-Stick/Slip	4.12
PowerDrive Xceed-T/F	4.12

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Daily Drilling Activity Report

7-Aug-2008
2:43AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Bill Openshaw/Rocco Rossc	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	7				

			Depth in m			
From	**To**	**Elapsed**	**From**	**To**	**IADC Activity**	**Description**
30-Jul-2008						
00:00	00:00	24.00	0.0	0.0	Other	
31-Jul-2008						
00:00	00:30	0.50	0.0	0.0	Lubricate rig / Service	Continue top drive service
00:30	01:00	0.50	253.0	785.0	Repair rig	Commenct Tripping in Hole,loss engine power failure
01:00	03:00	2.00	253.0	785.0	PU / LD BHA / Tripping	Continue TIH
03:00	03:30	0.50	785.0	785.0	Repair rig	Loss engine, power failure
03:30	08:30	5.00	785.0	2591.0	PU / LD BHA / Tripping	Continue TIH
08:30	14:00	5.50	785.0	2591.0	Repair rig	unable to continue RIH, fixed engine
14:00	14:30	0.50	2591.0	2858.0	PU / LD BHA / Tripping	Continue RIH from cement
14:30	18:00	3.50	2858.0	2858.0	Run casing / cement	Cementing job as per program
18:00	19:00	1.00	2858.0	2681.0	PU / LD BHA / Tripping	POOH
19:00	20:00	1.00	2681.0	2681.0	Circulate / Condition mud	Circulate bottoms up @ 800gpm
20:00	00:00	4.00	2681.0	165.0	PU / LD BHA / Tripping	Pump 25bbl slug, casing with 10bbl sbm. POOH
1-Aug-2008						
00:00	02:30	2.50	0.0	0.0	PU / LD BHA / Tripping	Lay down 2 7/8" cement stinger
02:30	03:00	0.50	0.0	0.0	MWD/LWD service quality	Clear rig floor and JSA for Pick up BHA
03:00	04:30	1.50	0.0	0.0	PU / LD BHA / Tripping	make up 9.5 in bit
04:30	05:00	0.50	0.0	0.0	Directional work	Make up HWDP connection and load radioactive source
05:00	06:00	1.00	0.0	0.0	PU / LD BHA / Tripping	continue RIH,pick up joints
06:00	06:30	0.50	150.0	150.0	Directional work	SHT with 600gpm,1500psi,
06:30	12:00	5.50	293.0	803.0	PU / LD BHA / Tripping	continue RIH
12:00	15:30	3.50	803.0	1246.0	PU / LD BHA / Tripping	continue pick up 5.5" DP
15:30	16:30	1.00	1246.0	1246.0	Lubricate rig / Service	Rig service
16:30	18:30	2.00	1246.0	1246.0	Repair rig	Top drive service
18:30	19:30	1.00	1246.0	1452.0	PU / LD BHA / Tripping	Commence RIH with 5.6in DP
19:30	00:00	4.50	1452.0	1452.0	DD service quality	Wait Weather
2-Aug-2008						
00:00	05:30	5.50	1452.0	1452.0	MWD/LWD service quality	Wait on weather
05:30	09:00	3.50	1452.0	2690.0	PU / LD BHA / Tripping	RIH ,tag cement
09:00	11:00	2.00	2690.0	2693.0	Reaming / Hole opener / Unc	clean out cement,drill out cement
11:00	12:00	1.00	2696.0	2697.0	Drilling	drill ,commence kick off
12:00	00:00	12.00	2697.0	2719.0	Drilling	continue drill @680crpm, 112spm.2500psi, 120rpm,5~7wob
3-Aug-2008						
00:00	12:00	12.00	2719.0	2817.0	Drilling	Drill 9.5" ,SCR@2754mMD,WOB 2~25k
12:00	00:00	12.00	2817.0	3008.0	Drilling	continue to drill ahead ,730gpm,120spm,2800psi,8~10k WOB
4-Aug-2008						
00:00	12:00	12.00	3008.0	3147.0	Drilling	Drill ahead with wob 7~15k,rpm150,spm 120,pressure 2850psi
12:00	23:30	11.50	3147.0	3259.0	Drilling	Drill ahead with 120spm,700gpm,2900psi
23:30	00:00	0.50	3259.0	3259.0	Survey	Downlink as per DD instruction,SCR

Schlumberger

Daily Drilling Activity Report

7-Aug-2008
2:43AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Bill Openshaw/Rocco Rossc	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	7				

From	To	Elapsed	Depth in m From	Depth in m To	IADC Activity	Description
5-Aug-2008						
00:00	12:00	12.00	3259.0	3494.0	Drilling	Drilling ahead with wob 6~20WOB
12:00	14:30	2.50	3494.0	3525.0	Drilling	drill ahead as per DD instruction
14:30	15:30	1.00	3525.0	3525.0	Survey	MWD signal troubleshooting
15:30	18:30	3.00	3525.0	3573.0	Drilling	continue drilling
18:30	19:00	0.50	3573.0	3573.0	Survey	MWD signal troubleshooting
19:00	19:30	0.50	3573.0	3577.0	Drilling	continue drilling
19:30	22:00	2.50	3577.0	3525.0	Circulate / Condition mud	Circulate Bottoms up
22:00	00:00	2.00	3525.0	3149.0	PU / LD BHA / Tripping	Commence POOH

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Time Description Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossou **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Date/Time	Depth		Description
31-Jul-2008 12:00AM	2681.0	m	Mid night depth
1-Aug-2008 12:00AM	0.0	m	Mid night depth
1-Aug-2008 3:37AM	0.0	m	JSA for BHA,Make up Ecoscope to Xceed
1-Aug-2008 3:55AM	0.0	m	Make up Telescope to Ecoscope
1-Aug-2008 4:07AM	0.0	m	make the connection from bit to exceed
1-Aug-2008 4:20AM	0.0	m	Make up HWDP to Telescope
1-Aug-2008 4:30AM	0.0	m	JSA Radioactive source
1-Aug-2008 4:40AM	0.0	m	Load Radioactive source, (Pre-load Survey: Shield-46 microS, Tool-0 microS, Post-load Survey: Shield-0microS, Tool-35 microS)
1-Aug-2008 6:45AM	150.0	m	SHT with 600gpm,1500psi,
1-Aug-2008 7:50PM	1439.0	m	Rig shut down due to weather
2-Aug-2008 5:34AM	1465.0	m	Continue RIH
2-Aug-2008 8:49AM	2687.0	m	Tag TOC @ 2687mMD
2-Aug-2008 9:27AM	2688.0	m	SCR
2-Aug-2008 9:47AM	2689.0	m	DL to Xceed
2-Aug-2008 8:29PM	2712.0	m	Mud weight reduce ,SPPA 2454 psi
2-Aug-2008 9:56PM	2715.0	m	Downlink to Xceed,50% formation
2-Aug-2008 11:30PM	2716.0	m	60% formation
2-Aug-2008 11:59PM	2719.0	m	Mid night depth,70% formation
3-Aug-2008 12:00AM	2719.0	m	Mid night depth
3-Aug-2008 12:32AM	3018.0	m	DL to Xceed
3-Aug-2008 1:46AM	2723.0	m	Drill ahead with ROP 2m/hr, total flow 654gpm, sppa 2451psi, 90% formation
3-Aug-2008 1:49AM	3031.0	m	continue blind drilling, with Xcced survey.
3-Aug-2008 2:55AM	2724.8	m	Stand down, drilled with ROP 1 m/hr
3-Aug-2008 4:08AM	2726.0	m	ROP increased to 3m/hr, sample showing 95%
3-Aug-2008 5:20AM	2730.0	m	ROP increased to 5m/hr
3-Aug-2008 8:10AM	2754.0	m	DL to XCeed
3-Aug-2008 8:30AM	2760.0	m	DL to XCeed
3-Aug-2008 8:50AM	2780.0	m	DL to xCeed
3-Aug-2008 10:25AM	2800.0	m	Begin to pull back to casing shoe due to engine problems
3-Aug-2008 10:55AM	2810.0	m	Begin drilling again
3-Aug-2008 11:37AM	2818.0	m	DL to XCeed
3-Aug-2008 11:53AM	2820.0	m	DL to Xceed
3-Aug-2008 12:33PM	2830.0	m	DL to Xcced
3-Aug-2008 12:50PM			DL to Xceed
3-Aug-2008 1:19PM	2820.0	m	Bad survey, re-attempt
3-Aug-2008 1:23PM	2820.0	m	bad survey, Re-attempt
3-Aug-2008 1:50PM	2845.0	m	DL to Xceed
3-Aug-2008 1:56PM	2845.0	m	DL to Xceed
3-Aug-2008 3:12PM	2851.0	m	take survey
3-Aug-2008 3:16PM	2851.0	m	Retake survey, bad
3-Aug-2008 3:21PM	2851.0	m	Bad survey, re-attempt, good
3-Aug-2008 3:31PM	2875.0	m	DL to Xceed
3-Aug-2008 3:52PM	2882.0	m	DL to Xceed
3-Aug-2008 5:15PM	2907.0	m	DL to Xceed

Date/Time	Depth		Description
3-Aug-2008 5:47PM	2921.0	m	DL to Xceed
3-Aug-2008 7:50PM	2947.0	m	DL to Xceed
3-Aug-2008 8:09PM	2950.0	m	DL to Xceed
3-Aug-2008 9:16PM	2966.5	m	DL to Xceed
3-Aug-2008 9:54PM	2982.0	m	DL to Xceed
3-Aug-2008 10:01PM	2984.0	m	DL to Xceed
3-Aug-2008 11:00PM	2990.0	m	Take surveys and out of FAC, 4 surveys taken, pipe was rotated following 1st failed survey and after third and fourth failed surveys. Tool G varied between all surveys (6.04mG, 1282.45mG, 1195.26mG & 7.09 mG). Tool H was within FAC for all surveys. Dip was out of FAC on all surveys (29.35 deg, -45.12 deg, -43.58 deg and 58.57 deg). Raw G axis values examined and did not show any "stuck" values nor did it show any consistency in individual axis measurements even when consecutive surveys were taken at the same spot with rotation prior to or after the survey. 4/5 axis correction offline was run (with & without on-line criteria) and failed to determine which individual accelerometer had failed even when individual axis were selected - this indicates in addition to the raw values being erratic that multiple accelerometers may have failed. Xceed surveys all within FAC. Next stand will be drilled down and survey taken. OSC and FSM contacted.
3-Aug-2008 11:59PM	3008.0	m	Midnight Depth
4-Aug-2008 12:00AM	3008.0	m	Mid night depth
4-Aug-2008 2:32AM	3047.0	m	Discussed with co-man and decided to drill ahead with Xceed survey
4-Aug-2008 3:09AM	3050.0	m	Take survey following stand down after failed surveys. MWD surveys still coming up out of FAC. Tool H still within FAC. All G axis values reading very low numbers (Gx -5.5mG, Gy -2.0mG, Gz -2.5mG).
4-Aug-2008 3:34AM	3058.0	m	Downlink Xceed
4-Aug-2008 4:34AM	3068.0	m	Downlink Xceed
4-Aug-2008 6:25AM	3092.0	m	DL to Xceed
4-Aug-2008 6:40AM	3096.5	m	Recycle pumps due to MWD loss of demodulation DL to Xceed off bottom
4-Aug-2008 6:50AM	3096.5	m	DL to Xceed off bottom
4-Aug-2008 7:20AM	3101.0	m	DL to Xceed
4-Aug-2008 10:55AM	3140.0	m	DL to Xceed
4-Aug-2008 11:35AM	3141.0	m	DL to Xceed
4-Aug-2008 11:40AM	3141.0	m	DL to Xceed
4-Aug-2008 3:31PM	3170.0	m	DL to Xceed
4-Aug-2008 5:04PM	3184.0	m	DL to Xceed
4-Aug-2008 5:10PM	3184.0	m	DL to Xceed
4-Aug-2008 6:00PM	3190.0	m	DL to Xceed
4-Aug-2008 6:33PM	3196.0	m	MWD power turns off about 4 minutes
4-Aug-2008 7:49PM	3210.0	m	DL to Xceed
4-Aug-2008 7:59PM	3213.0	m	DL to Xceed
4-Aug-2008 9:39PM	3229.0	m	DL to Xceed
4-Aug-2008 9:45PM	3230.0	m	MWD power turns off about 2 minutes
4-Aug-2008 10:13PM	3245.0	m	DL to Xceed
4-Aug-2008 10:26PM	3251.0	m	Bring the flow up to 750

Date/Time	Depth		Description
4-Aug-2008 11:03PM	3259.0	m	Following a connection (23:03, 4-Aug-08) the pumps were brought up to full flow rate (750gpm, 3290psi SPPA) in order to take a survey. The survey came up out of FAC (Tool H was 10nT too low 59486nT). Pumps were recycled (23:08, 750gpm, 3275psi) and the second survey once again failed survey FAC on Tool H (59422nT). Pumps were recycled for the third time (23:16, 750gpm, 3104 psi) and no signal was seen on the demodulation panel (no signal in bandpass on the sprectrum or spectrogram), pump noise was still visible. The voltages on SPT1 and SPT2 were examined and found to be within operational limits. This coupled with the visibility of pump data noise and the fact that the pressure was lower than expected (modulator fully open?) appeared to rule out a sensor failure. Pumps were recycled (23:20, 750gpm, 3095 psi) and again no signal was seen on the demodulation panel. The flow rate was reduced to 533gpm (23:27) with no change. Pumps were recycled and rotary engaged (40rpm) with pumps being brought up in a staggered manner ~100gpm/min-90secs up to 743gpm (3175gpm). While this was ongoing the spectrogram for SPT1, SPT2 and the combined SPT1 and SPT2 were examined and SPT2 showed a visibly stronger signal. Demodulation inputs were changed to only SPT2 (was SPT1 & SPT2 previously) and demodulation recommenced. Pumps were recycled (750gpm, 3262psi) and a good survey attained. Drilling resumed. No anti-jam was seen and MWDSTAT was 52 (23:54) (LTB Status, D&I Temp Status and Magnetometers unstable with LTB power) but dropped back to 0 following the final pump recycling for a good survey (23:55). Pressure trace was taken and sent to the OSC who were in constant communication during troubleshooting.
4-Aug-2008 11:10PM	3259.0	m	Signal troubleshooting
4-Aug-2008 11:59PM	3259.0	m	Midnight Depth
5-Aug-2008 1:40AM	3293.0	m	Downlink Xceed
5-Aug-2008 1:54AM	3299.0	m	Downlink Xceed
5-Aug-2008 4:24AM	3353.0	m	Downlink Xceed
5-Aug-2008 4:30AM	3362.0	m	Downlink Xceed
5-Aug-2008 5:42AM	3387.0	m	Downlink Xceed
5-Aug-2008 5:47AM	3391.0	m	Downlink Xceed
5-Aug-2008 6:03AM	3400.0	m	Downlink Xceed
5-Aug-2008 7:34AM	3423.0	m	Downlink to Xceed
5-Aug-2008 8:53AM	3439.0	m	Dwonlink to Xceed
5-Aug-2008 9:00AM	3440.0	m	Downlink to Xceed
5-Aug-2008 9:27AM	3453.0	m	Downlink to Xceed
5-Aug-2008 9:45AM	3462.0	m	MWD stop demodulating, pick up off bottom and recycle pumps. MWD started demodulating again
5-Aug-2008 9:50AM	3462.0	m	DL to Xceed
5-Aug-2008 10:00AM	3464.0	m	DL to Xceed
5-Aug-2008 10:52AM	3470.0	m	Downlink to Xceed
5-Aug-2008 1:50PM	3526.0	m	recycle pumps due to no dmeodulation
5-Aug-2008 2:00PM	3526.0	m	Work string and recycle, no signal
5-Aug-2008 2:10PM	3526.0	m	Work string and recycle, no signal
5-Aug-2008 2:15PM	3526.0	m	Bring up pumps slowly to 800gpm, no signal
5-Aug-2008 2:25PM	3526.0	m	Recycle pumps at lower flow. no signal
5-Aug-2008 2:30PM	3526.0	m	Recycle pumps agaain at 750gpm, no signal.
5-Aug-2008 2:40PM	3526.0	m	Rack back stand.
5-Aug-2008 2:50PM	3526.0	m	Bring up pumps to 300gpm while rotating adn working the stand up and down.
5-Aug-2008 3:05PM	3526.0	m	Run back to bottom and recycle pumps with flow at 400gpm to attempt survey and demodulation. Deodulation returns with good signal. Continue pumping for 5mins, good signal
5-Aug-2008 3:15PM	3526.0	m	Stop circulation and make connection.
5-Aug-2008 3:30PM	3526.0	m	Start pumps at 400gpm, to attempt demod and signal. Good signal, good survey from RSS tool. bring pumps upto 650gpm adn check demodultion. signal good. Continue to drill ahead.
5-Aug-2008 3:40PM	3529.0	m	DL to Xceed
5-Aug-2008 3:46PM	3532.0	m	DL to Xceed
5-Aug-2008 9:45PM	3577.0	m	Circulate hole clean prior to POOH
5-Aug-2008 9:49PM	3577.0	m	POOH due to MWD tool failure.
6-Aug-2008 8:17AM	0.0	m	Unload RA source (Pre-Unloading Surveys: Shield 0 microS, Tool 67 microS; Post-Unloading Survey: Shield 98 microS, Tool 0 microS)
6-Aug-2008 8:30AM	0.0	m	ART

Date/Time	Depth		Description
6-Aug-2008 8:50AM	0.0	m	Lay out NM HWDP
6-Aug-2008 9:10AM	0.0	m	Layout TeleScope
6-Aug-2008 9:35AM	0.0	m	Lay out EcoScope
6-Aug-2008 10:00AM	0.0	m	Lay out Xceed

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Drilling Parameters Repo

7-Aug-2
2:43:1

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

	05-Aug-2008 1:41 AM	04-Aug-2008 5:14 PM	04-Aug-2008 12:00 PM	04-Aug-2008 3:24 AM	03-Aug-2008 6:54 PM	03-Aug-2008 2:42 PM	03-Aug-2008 3:33 AM
Field Engineer	San thida Aung	Mike van Kampen	Mike van Kampen	San thida Aung	San thida Aung	Mike van Kampen	San thida Aung
Depth	3,291.00 m	3,184.00 m	3,147.00 m	3,054.97 m	2,935.00 m	2,866.00 m	2,725.27 m
Avg ROP	13.25 m/hr	10.46 m/hr	10.46 m/hr	10.46 m/hr	12.04 m/hr	12.04 m/hr	12.04 m/hr
On Bottom ROP	17.67 m/hr	10.77 m/hr	10.77 m/hr	10.77 m/hr	14.45 m/hr	14.45 m/hr	14.45 m/hr
Flow Rate	790.00 galUS/min	740.00 galUS/min	550.00 galUS/min	706.00 galUS/min	700.00 galUS/min	614.00 galUS/min	654.70 galUS/min
Turbine RPM	4,414 rpm	4,062 rpm	3,870 rpm	3,906 rpm	3,867 rpm	3,203 rpm	3,593 rpm
Surface RPM	150 rpm	120 rpm	120 rpm	150 rpm	148 rpm	150 rpm	118 rpm
WOB Rotating	20.00 klbm	15.00 klbm	15.00 klbm		9.00 klbm	10.00 klbm	6.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	10.00 kft.lbf	4.00 kft.lbf	5.00 kft.lbf	7.12 kft.lbf	7.17 kft.lbf	4.00 kft.lbf	2.88 kft.lbf
DH Torque							
Hookload	203 klbm	250 klbm	230 klbm		198 klbm	212 klbm	210 klbm
PickUp Weight							
Slack Weight							
Friction							
SPP On Bottom	3,263.00 psi	3,060.00 psi	2,500.00 psi	2,827.00 psi	2,829.00 psi	2,066.00 psi	2,462.00 psi
SPP Off Bottom							
Diff Pressure							
BH Temperature	97.00 degC	94.00 degC	93.00 degC	92.77 degC	87.00 degC	79.00 degC	78.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib							
Axial Vib							
CRPM	163 rpm	125 rpm	98 rpm	157 rpm	149 rpm	140 rpm	
Stick/Slip	24	12	6	15	18	35	
Formation							
Signal Strength	9.80 psi	2.79 psi	2.60 psi	2.67 psi	3.80 psi	2.40 psi	3.50 psi
Percent Signal Conf	72 %	92 %	89 %	93 %	99 %	89 %	91 %

	02-Aug-2008 9:37 PM	02-Aug-2008 5:23 PM
Field Engineer	San thida Aung	Mike van Kampen
Depth	2,714.00 m	2,706.00 m
Avg ROP	.96 m/hr	.96 m/hr
On Bottom ROP	1.77 m/hr	1.77 m/hr
Flow Rate	654.00 galUS/min	650.00 galUS/min
Turbine RPM	3,632 rpm	3,691 rpm
Surface RPM	119 rpm	120 rpm
WOB Rotating	7.00 klbm	10.00 klbm
WOB Sliding		
DH WOB		
Surface Torque	2.76 kft.lbf	5.00 kft.lbf
DH Torque		
Hookload	210 klbm	215 klbm
PickUp Weight		
Slack Weight		
Friction		
SPP On Bottom	2,474.00 psi	2,550.00 psi
SPP Off Bottom		
Diff Pressure		
BH Temperature	78.00 degC	79.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		
Lateral Vib		
Axial Vib		
CRPM	119 rpm	124 rpm
Stick/Slip		7
Formation		
Signal Strength	2.40 psi	3.40 psi
Percent Signal Conf	93 %	93 %

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PowerDrive Xceed Summary

PowerDrive — The new direction in rotary drilling

Xceed Rev 1: Please do not make any changes to this form !!!

JOB NUMBER	COMPANY REP.	DATE IN	DATE OUT	PowerDrive Run #	MWD Run #	Rig Bit Run #	PD Engineer
08-ASQ-0007	Bill Openshaw/Rocco Rossouw	1-Aug-08	6-Aug-08	3	7	10	Moorthy/Pat

CLIENT	Hole Depth - FROM	TO	CRSPA-BA	CRSC-AA	CRSEM-AB
Nexus Energy	2690.0 m MD	3577 m	106	241	108

RIG NAME	Inclination - FROM	TO	CRSSA-AB	CRSDA-AA	
West Triton	51.43 deg	91.44 deg	108	283	

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
Longtom-4 H (Horizontal)	184.51 deg	180.83 deg	Reed Hycalog	RSR616M-B3	218795

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	9 1/2	20.08 m	4.11 m	2-6-BT-S-X-I-JD-DTF

Map file name	Mag Dec / Grid Cor / Total Corr.			Resolver Offset	Downlink response ?	On Bottom Hours	Last Casing size/wt / depth
Fast Downlink	13.100	-0.83	13.925	465	good	54.80	10 3/4"@ 2591m

Bit-Midpoint Lower Szr	Bit-Midpoint Upper Stab	Flex Lgth	WOB MIN / MAX		Ave. RPM	Ave. WOB	Off Bottom Circulating Hours	ft / M Drilled this run
0.67	3.62	n/a	1-2	20	150	10	23.00	887.0m

PD MIN/MAX		Battery Voltage Date Due		RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
475	800	3.3		120	160	400	800	124.50	887.0m

Fast Downlink		Pulse height	Used	Actual Flow MIN / MAX		Pump Output / Type		PowerDrive Operating Hours	On Btm ROP	Ave ROP
18 sec	60 sec		18 sec	585	796	5.85	Triplex	77.80	16.2	16.2

Tool Response

Max DLS	Max BUR	Max Turn Rt
6	5.6	5.6

Stab gauge before/after run: 9 3/8 / 9 3/8

Run Objective: Sidetrack and follow trajectory and geosteer

SOFTWARE VERSION

Acq	CPU	Comm	MWD	IDEAL
9.1A-70(03)	37b05	9.1A45(00)	V9.2	18_0c_08

Reason for POOH: MWD tool unable to modulate.

Bit Hydraulics Calculations

Enter data in blue areas	
Pump Flow	750
Mud Weight	12
Bit Diameter	9.5
Bit Flow	750
Bit Pressure Drop	448
Hydraulic HP	196
HSI	2.8
Impact Press.	810

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	16	0.196
2	16	0.196
3	16	0.196
4	16	0.196
5	16	0.196
6	16	0.196
7		
8		
9		
10		
Bit TFA =		1.178

PowerDrive Serial No. / PUMP HOURS

PART	PFIX	SN	START	CUM
Electronics	CRSEM-AB	108	0.00	77.80
Steering Section	CRSC-AA	241	0.00	77.80
Collar	CRSPA-BA	106	0.00	77.80
Power Generation	CRSSA-AB	108	0.00	77.80
Sub	CRSDA-AA	283	0.00	77.80

Motor Run Information

Motor type	Seiral number
n/a	
Bend type	Bend Angle
Stab type	Stab Gauge
Off Bottom pressure	On Bottom pressure
Backreaming Hours	Total Reaming Hours
Bearing Play after run (mm)	

Mud properties

Mud Company	Bariod
Mud Type	Accolade SBM
MW at **start** of run	12.0 ppg
MW at **end** of run	12.0 ppg
Funnel Viscosity	78 sec
Plastic Viscosity	44
Yeild Point	40
Maximum DH Temp. deg C	93 degC
Sand %	0.50 %
Soild %	17.50 %

Run Summary

The side track for this hole section commenced by washing down from 2667m MD. Soft cement was encountered at 2687m and firm cement at 2690m. The cement was dressed for six meters to 2696m and reciprocated five times to 2692 in order to initiate the side track. The percentage of formation progressively increased from 5% at 2703.5m to 50% at 2717 m and finally to 95% at 2726.4m. Although the new formation cuttings were high, based on surveys, it was not apparent that the well had completely sidetracked to a new trajectory. On the assumption that the well may just be following beside the pilot hole the drilling rate was increased progressively in stages so as to reduce the risk drilling back into the pilot hole. Before increasing the drilling rate, time was allowed for the cuttings to reach surface to verify that formation cutting percentage remained high.

A successful sidetrack was established after 19.7 hours on bottom and drilling continued following the planned well trajectory. At 2962m the MWD surv
Stick slip was extremely low in comparison to the pilot well. The bit used on this well created minimum variance in torque which resulted in extremely lo
At surface the bit was graded as 2-6-BT-S-X-I-JD-DTF.

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Equipment Run Summary Report

12-Aug-2008
12:07AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 8

Run Information

	Date In		Date Out
	6-Aug-2008 11:30AM		11-Aug-2008 7:45PM
Depth (MD):	3577.0 m	to	4648.0 m
Depth (TVD):	2626.0 m	to	2695.9 m
Inclination:	91.27 deg	to	82.10 deg
Azimuth:	178.88 deg	to	185.79 deg

Hole Size:	9.50 in
Last Casing Size:	10.750 in
Last Casing Depth:	2583.0 m (MD)
Tool Face Arc:	
Total Face Angle:	deg

Drilling Distance:	1,071.00 m	Drilling Hours:	41.10 hrs
Rotary Drilling Distance:	1,071.00 m	Rotary Drilling Hrs:	41.10 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	763.00 m	Reaming Hours:	13.50 hrs
		Hrs Below Rotary:	128.25 hrs
		Total Pumping Hrs:	76.20 hrs
		Min DLS:	0.15 deg/30 m
North Ref Used:	Grid North	Max DLS:	6.01 deg/30 m
Magnetic Dec:	13.100 deg	Max DLS Depth:	4,242.3 m
Grid Correction:	-0.830 deg	Surface Screen:	No
Total Correction:	13.920 deg	DFS Used:	No
Est. Mag. Int:	deg	Inline Filter:	No

Rig Information

Rig Type:	Jack Up
Water Depth:	57.00 m
Air Gap:	17.00 m
RKB Height:	40.00 m
Ground Elevation:	96.95 m

Pump Type:	Triplex
Pulse Damp Press:	700 psi
Number of Pumps:	1
Pump Line ID:	6.50 in
Pump Output:	5.85 galUS/stroke
Pump Stroke Len:	14.00 in

Run Objective

Drill 9.5in Production hole with Rotary steerable BHA, Drill from 3577mMD to a final depth of ~4995mMD. Taking diretcional surveys and logging formation properties with the use of the EcoScope tool.

D&M Crew List:

Cell Manager: Michael Van kampen

Crew: San thida Aung, MWD
Jason Condon, DD
Patrick Dassens, DD
Mark Lu, LWD
Punniamoorthy Sellathurai, DD
Mike van Kampen, Cell Manager

DH Motor Information

Manufacturer:		Bit to Bend Dist:	m
Motor Type:		Bearing Play In:	in
Motor Size:		Bearing Play Out:	in
Serial No.:		Bent Sub Angle:	deg
Lobe Config:		Bent HSG Angle:	deg
Stage Length:	m		
Rubber:			
Sleeve Position:			
Sleeve Size:	in		
Bearing Type:			

RSS Information

RSS Manufacturer:	D&M		
RSS Type:	PowerDrive Xceed		
RSS SN:	267		
RSS Size:			7.60
Pulse Ht Threshold:			
Min Pulse Width:			
Max Pulse Width:			
Conn Phase Angle:	deg		
Rise Time Const:			
Fall Time Const:			
Digit Time:			

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	6 bps	Slimpulse Pulser Config:	
Mod Gap:	0.08000 in	Turbine Config:	400-800 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	10.0 psi
SPT Type:	HA						

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Equipment Run Summary Report

12-Aug-2008
12:07AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 8

Drilling Parameters

	Min	Max	Avg
BH Temperature:	104.00 degC	118.00 degC	112.85 degC
Surface RPM:	146.00 rpm	160.00 rpm	150.56 rpm
ROP:	11.92 m/hr	22.00 m/hr	26.06 m/hr
Surface Torque:	6.00 kft.lbf	14.00 kft.lbf	8.94 kft.lbf
Flow Rate:	650.00 galUS/min	767.00 galUS/min	739.56 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 k
Max Shock Level: 0
Max Shock Duration: 0 sec
Checkshot Type:
Checkshot Depth: m
Checkshot Incl: deg
Checkshot Azim: deg

Average Pump Pressure: 6 psi

H2S In Well: No

Turbine RPM @ Min Flow Rate: 3,984 rpm
Min Flow Rate: 650.00galUS/min
SPP Off Bottom: 2,840.00 psi
Turbine RPM @ Max Flow Rate: 4,100 rpm
Max Flow Rate: 767.00galUS/min
SPP On Bottom: 2,847.00 psi

Mud Information

Mud Type: Accolade SBM
Mud Company: Halliburton
Mud Brand: OBM
Funnel Viscosity: 75.00 s/qt
Plastic Viscosity: 60.00 cp
Yield Point: 33.00 lbm/100ft2
Mud Resistivity: ohm-m

Mud Clean: No
LCM Type: Granules - Calcium Carbonate
LCM Size: Fine
LCM Concentration: lbs/bbl
Weighting Material: Barite
Mud Weight: 12.10 lbm/galUS

pH:
Chlorides: 291,174.00 ppm
Sand Content: 0.25 %
Solids: 18.60 %
Percent Oil: 58.00 %

IADC Bit Grading

Manufacturer: Hycalog
Model: RSX616M-A4
Type: PDC

Total Revs:
Stick/Slip: 12
Reason Pulled: Total Depth/Casing Depth

IADC Code: M322
Jets (/ 32 in): 6X16
Bit TFA: 1.18 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	1.00	WT	N		I	NO

End of Run - Summary

Sync Hours: 62.14 hrs
Jamming: No 0.00 hrs
Surface Vibration: No
Trans Fail: No

Downhole Noise: No
Surface System Failure: No
Surface Noise: No
H2S in Well: No

Run Failed: No
D&M Trip: No
Low Oil Flag: No 0.00 hrs
Filter Screen/Plug Shear: No

Client Inconvenience: **No** Lost Time: hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

Brief Run Summary:

RIH with 9.5in Directional BHA consisting of PowerDrive Xceed, EcoScope, TeleScope and NMHWDP. Wash down to bottom from 3555m MD to 3577m MD. Begin drilling 9.5in Production Hole taking instructions from client on build angles and trajectories.
TD was called at 4648m MD. Circulated bottoms up and continued to ream out of the hole until reaching teh 10.75in Casing shoe at 2591m MD. Circulated bottoms up again to ensure clean hole and POOH to surface.

If not, why?:

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Equipment Run Summary Report

12-Aug-2008
12:07AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 8

Equipment on the Run

Equipment	Pump Hours Start	Pump Hours Cumulative	Software Version	Tool Size
CRSC-AA-267	0.00 hrs	76.20 hrs	37b05	6.75 in
DV6MT-AA-799	0.00 hrs	76.20 hrs	Karl2	6.75 in
MDC-AE-FU22	0.00 hrs	76.20 hrs	9.2C02	6.75 in
NMHVDC675L-SBD3170	112.90 hrs	189.10 hrs		6.75 in

Services on the Run

Equipment	Service	Tool Name	Real Time Hours	Real Time Failed	Real Time Depth	Recorded Mode Hours	Recorded Mode Failed	Recorded Mode Depth	CAF
RSS	D&I	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
RSS	Cont D&I	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
RSS	Shock risk	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
RSS	Stick/Slip risk	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
RSS	T/F	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
RSS	PowerDrive Xceed	PowerDrive Xceed	76.20 hrs		1,071.0 m	hrs			
LWD	Spectrosity	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Ultrasonic Caliper	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Sigma	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	APWD	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Gamma Ray	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Resistivity	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Density	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
LWD	Neutron	EcoScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
MWD	Shock and Vibration	TeleScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	
MWD	Cont D&I	TeleScope	76.20 hrs		1,071.0 m	hrs			
MWD	D&I	TeleScope	76.20 hrs		1,071.0 m	128.25 hrs		1,071.0 m	

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BHA Repo

12-Aug-2
12:0

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton

Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4

Run Number: 8 **BHA Type:** Rotary Steerable

								Fishing Neck		Stab	Bottom Connection		Top Connection		
Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	OD, in	Len, m	OD, in	Size	Type	Size	Type	Cumul Le
1	BIT	Hycalog	PDC	216535	0.22 m	9.50							4 1/2"	REG PIN	0.22
2	RSS	D&M	PowerDrive Xceed	267	7.66 m	6.75	3.75	6.88	4.48	9.38	4 1/2"	REG BOX	5 1/2"	FH BOX	7.88
3	LWD	D&M	EcoScope	799	8.05 m	6.75	3.88			9.13	5 1/2"	FH PIN	5 1/2"	FH BOX	15.93
4	MWD	D&M	TeleScope	FU22	8.51 m	6.75	3.88				5 1/2"	FH PIN	4 1/2"	IF BOX	24.44
5	HWDP	D&M	NMHWDP	SBD3170	9.19 m	5.00	2.81				4 1/2"	IF PIN	4 1/2"	IF BOX	33.63
6	CROSSOVER	Seadrill	Crossover	508A67	0.91 m	5.50	3.25				4 1/2"	IF PIN	XT57	XT BOX	34.54
7	HWDP	Sea Drill	HWDP	Sea Drill	56.23 m	5.50	3.25				XT57	XT PIN	XT57	XT BOX	90.77
8	CROSSOVER	Sea Drill	Crossover	115612	0.42 m	7.00	2.88				XT57	XT PIN	4 1/2"	IF BOX	91.19
9	JAR	Weatherford	Jar	1416-1515	9.62 m	6.50	2.75	6.32	0.32		4 1/2"	IF PIN	4 1/2"	IF BOX	100.81
10	CROSSOVER	Sea Drill	Crossover	SSD7142	1.22 m	6.75	2.81				4 1/2"	IF PIN	XT57	XT 57 BOX	102.03
11	HWDP	Sea Drill	HWDP	Sea Drill	112.76 m	5.50	3.25				5 1/2"	XT 57 PIN	5 1/2"	XT 57 BOX	214.79

Predicted BHA Tendency:

Hookload Out:	lbm	Wt Below Jars:	6,507 lbm
Pickup Out:	lbm	Wt Above Jars:	7,568 lbm
Slack Weight:	lbm	Total Air Wt:	14,075 lbm

Stab Description	Mid Pt to Bit	Blade Type	Blade Len	Blade Width	Gauge Len	Gauge In	Gauge Out

Bit to Read Out Port		
RSS-PowerDrive Xceed	0.20	m
LWD-EcoScope	10.00	m
MWD-TeleScope	17.70	m

Bit to Measurement Port	
PowerDrive Xceed-D&I	4.12
PowerDrive Xceed-Cont D&I	4.12
PowerDrive Xceed-Shock risk	4.12
PowerDrive Xceed-Stick/Slip	4.12
PowerDrive Xceed-T/F	4.12
EcoScope-Spectrosity	13.29
EcoScope-Ultrasonic Caliper	11.32
EcoScope-Sigma	13.29
EcoScope-APWD	9.86
EcoScope-Gamma Ray	9.69
EcoScope-Resistivity	12.73
EcoScope-Density	10.95
EcoScope-Neutron	13.14
TeleScope-D&I	20.07

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Daily Drilling Activity Report

12-Aug-2008
12:02AM

Job Number:	08ASQ0007	**Company:**	NEXUS ENERGY LTD	**Rig Name:**	West Triton
Company Rep:	Bill Openshaw/Rocco Rossc	**Location:**	MEA-APG-ASS	**Well Name:**	Longtom-4
Run No:	8				

			Depth in m			
From	To	Elapsed	From	To	IADC Activity	Description
6-Aug-2008						
00:00	02:30	2.50	3149.0	2590.0	PU / LD BHA / Tripping	Continue POOH
02:30	03:00	0.50	2590.0	2590.0	PU / LD BHA / Tripping	flow check at 10.75in casing shoe
03:00	07:00	4.00	2590.0	214.0	PU / LD BHA / Tripping	continue POOH, flow check @ BHA
07:00	10:00	3.00	214.0	214.0	PU / LD BHA / Tripping	continue POOH, unload source
10:00	12:00	2.00	214.0	24.0	Circulate / Condition mud	pick up tools,make up bit,RIH
12:00	13:00	1.00	33.0	273.0	PU / LD BHA / Tripping	continue RIH
13:00	13:30	0.50	273.0	273.0	Circulate / Condition mud	Make up top drive,SHT
13:30	16:00	2.50	273.0	273.0	Slip and cut drill line	Hold JSA, slip and cut
16:00	17:00	1.00	273.0	273.0	Lubricate rig / Service	service top drive
17:00	22:30	5.50	273.0	2577.0	PU / LD BHA / Tripping	Continue RIH
22:30	00:00	1.50	273.0	273.0	Repair rig	commence change saver sub
7-Aug-2008						
00:00	01:00	1.00	2577.0	2590.0	Repair rig	change saver sub,rig service
01:00	02:30	1.50	2590.0	3136.0	PU / LD BHA / Tripping	continue RIH
02:30	07:00	4.50	3136.0	3289.0	Reaming / Hole opener / Unc	Work Target tight spots,Ream
07:00	08:00	1.00	3289.0	3555.0	PU / LD BHA / Tripping	Continue RIH
08:00	08:30	0.50	3555.0	3577.0	PU / LD BHA / Tripping	Wash down
08:30	12:00	3.50	3577.0	3648.0	Drilling	Drill ahead, 650gpm,140rpm
12:00	00:00	12.00	3648.0	3791.0	Drilling	Drill ahead,150rpm,3100psi
8-Aug-2008						
00:00	12:00	12.00	3791.0	4034.0	Drilling	continue drilling,750gpm,
12:00	00:00	12.00	4034.0	4220.0	Drilling	continue drilling,760gpm,3600psi
9-Aug-2008						
00:00	12:00	12.00	4220.0	4469.0	Drilling	Continue drilling ,765gpm,900psi
12:00	18:00	6.00	4469.0	4558.0	Drilling	Continue drilling,150rpm,3900psi
18:00	18:30	0.50	4558.0	4558.0	Lubricate rig / Service	wash pipe leaking
18:30	20:00	1.50	4558.0	4411.0	PU / LD BHA / Tripping	POOH 5 stands
20:00	21:30	1.50	4411.0	4411.0	PU / LD BHA / Tripping	Make up XO,rack back STD
21:30	22:30	1.00	4411.0	4411.0	PU / LD BHA / Tripping	pick up 10 joints
22:30	00:00	1.50	4558.0	4582.0	Drilling	Continue drilling,12.1ppg
10-Aug-2008						
00:00	03:00	3.00	4582.0	4648.0	Drilling	Continue drilling
03:00	10:00	7.00	4648.0	4472.0	Circulate / Condition mud	Circulate btms and ream
10:00	12:00	2.00	4472.0	4413.0	Reaming / Hole opener / Unc	continue back reaming,765gpm,132spm,150rpm,4000psi,
12:00	13:00	1.00	4413.0	4354.0	Rig up / Rig down	Conitinue back ream
13:00	17:00	4.00	4354.0	4354.0	Repair rig	Wash pipe leaking,rig repair
17:00	00:00	7.00	4354.0	3803.0	Reaming / Hole opener / Unc	Continue back reaming

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Time Description Report

12-Aug-2008
12:02AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossou **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 8

Date/Time	Depth		Description
6-Aug-2008 11:30AM	0.0	m	BRT
6-Aug-2008 11:30AM	0.0	m	Make up Xceed to EcoScope
6-Aug-2008 11:45AM	0.0	m	Make up EcoScope to TeleScope
6-Aug-2008 12:00PM	0.0	m	Make up TeleScope to NM HWDP
6-Aug-2008 12:15PM	0.0	m	Load RA source (Preload survey: Shield 27 microS, Tool 0 microS, Post-loading Survey: Shield 0 microS, Tool 65 microS).
6-Aug-2008 1:15PM	215.0	m	Good SHT with RA
6-Aug-2008 1:45PM	273.0	m	Slip and cut
6-Aug-2008 2:40PM	3678.0	m	IDEAL system crashed, reboot system
6-Aug-2008 4:30PM	273.0	m	Service TDS
6-Aug-2008 10:35PM	2590.0	m	Replace XO on TDS
7-Aug-2008 4:06AM	3140.8	m	Wash and ream next four stands
7-Aug-2008 4:24AM	3140.8	m	Set Bit Depth
7-Aug-2008 8:21AM	3577.0	m	Tag Bottom with Tflow=660gpm and TRPM=4350
7-Aug-2008 8:39AM	3584.0	m	DL to Xceed
7-Aug-2008 2:47PM	3677.0	m	DL to Xceed
7-Aug-2008 2:54PM	3677.4	m	DL to Xceed
7-Aug-2008 3:04PM	3679.0	m	DL to Xceed
7-Aug-2008 3:12PM	3679.3	m	DL to Xceed
7-Aug-2008 3:21PM	3680.0	m	DL to Xceed
7-Aug-2008 3:30PM	3680.6	m	DL to Xceed
7-Aug-2008 4:30PM	3687.0	m	DL to Xceed
7-Aug-2008 4:43PM	3689.0	m	DL to Xceed
7-Aug-2008 4:50PM	3690.0	m	DL to Xceed
7-Aug-2008 4:56PM	3690.2	m	DL to Xceed
7-Aug-2008 4:56PM	3691.0	m	DL to Xceed
7-Aug-2008 6:45PM	3709.0	m	DL to Xceed
7-Aug-2008 6:54PM	3712.0	m	DL to Xceed
7-Aug-2008 7:03PM	3716.0	m	DL to Xceed
7-Aug-2008 7:18PM	3722.0	m	DL to Xceed
7-Aug-2008 8:53PM	3740.0	m	DL to Xceed., 8:39pm Set Bit Depth 3732.96m
7-Aug-2008 9:02PM	3744.0	m	DL to Xceed
7-Aug-2008 10:16PM	3761.0	m	DL to Xceed
8-Aug-2008 12:00AM	3794.9	m	Mid night depth
8-Aug-2008 12:27AM	3808.0	m	DL to Xceed
8-Aug-2008 12:34AM	3811.0	m	DL to Xceed
8-Aug-2008 12:45AM	3816.0	m	DL to Xceed
8-Aug-2008 1:44AM	3835.0	m	DL to Xceed
8-Aug-2008 3:17AM	3858.0	m	DL to Xceed
8-Aug-2008 3:19AM	3861.0	m	DL to Xceed,Caliper reading is out of range
8-Aug-2008 4:24AM	3880.0	m	DL to Xceed
8-Aug-2008 4:29AM	3884.0	m	DL to Xceed
8-Aug-2008 7:47AM	3956.0	m	DL to Xceed
8-Aug-2008 9:00AM	3979.0	m	DL to Xceed
8-Aug-2008 11:33AM	4027.0	m	DL to Xceed

Date/Time	Depth		Description
8-Aug-2008 12:25PM	4049.0	m	DL to Xceed
8-Aug-2008 3:57PM	4086.0	m	DL to Xceed
8-Aug-2008 4:06PM	4087.0	m	DL to Xceed
8-Aug-2008 4:35PM	4095.0	m	DL to Xceed
8-Aug-2008 5:05PM	4100.0	m	MWD tool stops demodulating, recycle pumps to regain signal, no demodulation. Work string and recycle pumps at 650gpm. Signal returns, MWDstat 1, MMA jamming. Check with Mud Engineer for any solids in mud, no large solids in mud. continue drilling.
8-Aug-2008 5:49PM	4112.5	m	DL to Xceed
8-Aug-2008 5:57PM	4113.8	m	DL to Xceed
8-Aug-2008 7:20PM	4129.0	m	DL to Xceed
8-Aug-2008 7:27PM	4134.0	m	DL to Xceed
8-Aug-2008 7:38PM	4137.0	m	DL to Xceed
8-Aug-2008 7:46PM	4140.0	m	DL to Xceed
8-Aug-2008 9:00PM	4152.0	m	DL to Xceed
8-Aug-2008 10:12PM	4180.0	m	DL to Xceed
8-Aug-2008 11:36PM	4208.0	m	DL to Xceed
8-Aug-2008 11:44PM	4212.0	m	DL to Xceed
8-Aug-2008 11:59PM	4222.4	m	Mid night depth
9-Aug-2008 12:00AM	4222.4	m	Midnight Depth
9-Aug-2008 12:50AM	4236.0	m	DL to Xceed
9-Aug-2008 1:32AM	4256.0	m	DL to Xceed
9-Aug-2008 2:05AM	4265.0	m	DL to Xceed
9-Aug-2008 2:22AM	4276.0	m	DL to Xceed
9-Aug-2008 2:38AM	4281.0	m	DL to Xceed
9-Aug-2008 2:46AM	4289.0	m	Off bottom to change drilling parameter due to drop inclination,DL to Xceed
9-Aug-2008 2:53AM	4289.0	m	DL to Xceed,off bottom
9-Aug-2008 3:59AM	4313.0	m	DL to Xceed
9-Aug-2008 4:15AM	4320.0	m	DL to Xceed
9-Aug-2008 4:49AM	4327.0	m	DL to Xceed
9-Aug-2008 5:21AM	4343.0	m	DL to Xceed
9-Aug-2008 6:00AM	4353.0	m	DL to Xceed
9-Aug-2008 6:20AM	4364.0	m	DL to Xceed
9-Aug-2008 6:30AM	4369.0	m	DL to Xceed
9-Aug-2008 8:42AM	4422.0	m	DL to Xceed
9-Aug-2008 9:01AM	4429.0	m	DL to Xceed
9-Aug-2008 9:12AM	4431.0	m	DL to Xceed
9-Aug-2008 9:30AM	4437.0	m	DL to Xceed
9-Aug-2008 9:36AM	4438.0	m	DL to Xceed
9-Aug-2008 11:00AM	4454.0	m	DL to Xceed
9-Aug-2008 11:12AM	4457.0	m	DL to Xceed
9-Aug-2008 11:20AM	4460.0	m	DL to Xceed
9-Aug-2008 11:32AM	4462.0	m	DL to Xceed
9-Aug-2008 12:45PM	4477.0	m	DL to Xceed
9-Aug-2008 12:52PM	4480.0	m	DL to Xceed
9-Aug-2008 1:00PM	4482.0	m	DL to Xceed
9-Aug-2008 2:45PM	4510.0	m	DL to Xceed
9-Aug-2008 4:18PM	4533.0	m	DL to Xceed
9-Aug-2008 6:27PM	4558.0	m	Rack back 4 stands and pick up 5 more stands
9-Aug-2008 10:33PM	4558.0	m	Back on bottom
9-Aug-2008 11:18PM	4564.0	m	DL to Xceed
9-Aug-2008 11:59PM	4586.4	m	Midnight Depth
10-Aug-2008 12:00AM	4586.4	m	Midnight Depth

Date/Time	Depth		Description
10-Aug-2008 12:32AM	4590.0	m	DL to Xceed
10-Aug-2008 12:38AM	4593.0	m	DL to Xceed
10-Aug-2008 12:49AM	4599.0	m	DL to Xceed
10-Aug-2008 1:49AM	4620.0	m	DL to Xceed
10-Aug-2008 2:39AM	4648.0	m	TD
10-Aug-2008 4:09AM	4648.0	m	Circulate bottoms up, ream and POOH
10-Aug-2008 5:00AM	4618.0	m	Back ream and pump out to shoe @ 1 stand/10 mins
11-Aug-2008 7:00PM	0.0	m	Unload RA source (Pre-unload survey: Shield 0 microS, Tool 48 microS, Post-unloading survey: Shield 58 microS, Tool 0 microS).
11-Aug-2008 7:10PM	0.0	m	Layout NM HWDP
11-Aug-2008 7:45PM	0.0	m	ART and break bit
11-Aug-2008 7:58PM	0.0	m	Layout TeleScope
11-Aug-2008 8:26PM	0.0	m	Layout EcoScope
11-Aug-2008 8:40PM	0.0	m	Layout Xceed

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Drilling Parameters Repo

12-Aug-2
12:02:4

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 8

	10-Aug-2008 3:00 AM	09-Aug-2008 11:22 PM	09-Aug-2008 5:06 PM	09-Aug-2008 9:06 AM	09-Aug-2008 3:42 AM	08-Aug-2008 11:30 PM	08-Aug-2008 5:26 PM
Field Engineer	San thida Aung	San thida Aung	Mike van Kampen	Mike van Kampen	San thida Aung	San thida Aung	Mike van Kampen
Depth	4,646.25 m	4,568.00 m	4,558.00 m	4,429.00 m	4,297.00 m	4,205.00 m	4,103.00 m
Avg ROP	2.75 m/hr	15.08 m/hr	15.08 m/hr	15.08 m/hr	15.08 m/hr	17.88 m/hr	17.88 m/hr
On Bottom ROP	6.28 m/hr	20.50 m/hr	20.50 m/hr	20.50 m/hr	20.50 m/hr	33.18 m/hr	33.18 m/hr
Flow Rate	729.00 galUS/min	767.00 galUS/min	760.00 galUS/min	760.00 galUS/min	755.00 galUS/min	767.00 galUS/min	650.00 galUS/min
Turbine RPM	4,335 rpm	4,100 rpm	4,297 rpm	4,335 rpm	4,218 rpm	4,296 rpm	3,984 rpm
Surface RPM	160 rpm	150 rpm	150 rpm	150 rpm	150 rpm	150 rpm	150 rpm
WOB Rotating	20.00 klbm	30.00 klbm	18.00 klbm	20.00 klbm		20.00 klbm	10.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	7.00 kft.lbf	10.00 kft.lbf	14.00 kft.lbf	6.00 kft.lbf	9.86 kft.lbf	7.00 kft.lbf	10.00 kft.lbf
DH Torque							
Hookload							
PickUp Weight							
Slack Weight							
Friction							
SPP On Bottom	4,180.00 psi	4,131.00 psi	3,997.00 psi	3,839.00 psi	3,714.00 psi	3,494.00 psi	3,116.00 psi
SPP Off Bottom					3,710.00 psi	3,490.00 psi	
Diff Pressure					4 psi	4 psi	
BH Temperature	117.00 degC	118.00 degC	118.00 degC	117.00 degC	115.00 degC	113.00 degC	107.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib							
Axial Vib							
CRPM	167 rpm	152 rpm	147 rpm	161 rpm	147 rpm	182 rpm	140 rpm
Stick/Slip	54	54	21	36			9
Formation							
Signal Strength	4.20 psi	4.20 psi	5.99 psi	5.80 psi	5.28 psi	5.70 psi	6.80 psi
Percent Signal Conf	78 %	78 %	75 %	90 %	86 %	73 %	86 %

	08-Aug-2008 2:56 AM	07-Aug-2008 9:02 PM
Field Engineer	San thida Aung	San thida Aung
Depth	3,851.00 m	3,743.00 m
Avg ROP	17.88 m/hr	8.92 m/hr
On Bottom ROP	33.18 m/hr	13.81 m/hr
Flow Rate	761.00 galUS/min	707.00 galUS/min
Turbine RPM	4,296 rpm	3,867 rpm
Surface RPM	146 rpm	149 rpm
WOB Rotating	30.00 klbm	25.00 klbm
WOB Sliding		
DH WOB		
Surface Torque	8.44 kft.lbf	8.20 kft.lbf
DH Torque		
Hookload		
PickUp Weight		
Slack Weight		
Friction		
SPP On Bottom	3,547.00 psi	2,847.00 psi
SPP Off Bottom	3,540.00 psi	2,840.00 psi
Diff Pressure	7 psi	7 psi
BH Temperature	106.67 degC	104.00 degC
Total Shocks (k)		
Max Shock Level		
Max Shock Duration		
Torsional Vib		
Lateral Vib		
Axial Vib		
CRPM		
Stick/Slip		
Formation		
Signal Strength	8.30 psi	7.00 psi
Percent Signal Conf	81 %	72 %

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PowerDrive Xceed Summary

PowerDrive — The new direction in rotary drilling

Xceed Rev 1: Please do not make any changes to this form !!!

JOB NUMBER	COMPANY REP.	DATE IN	DATE OUT	PowerDrive Run #	MWD Run #	Rig Bit Run #	PD Engineer
08-ASQ-0007	Bill Openshaw/Rocco Rossouw	6-Aug-08	11-Aug-08	4	8	11	Moorthy/Pat

CLIENT	Hole Depth - FROM	TO	CRSPA-BA	CRSC-AA	CRSEM-AB
Nexus Energy	3577.0 m MD	4648 m	237	267	247

RIG NAME	Inclination - FROM	TO	CRSSA-AB	CRSDA-AA	
West Triton	91.44 deg	82.10 deg	239	348	

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
Longtom-4 H (Horizontal)	180.83 deg	185.79 deg	Reed Hycalog	RSX616M-A4	216535

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	9 1/2	20.07 m	4.11 m	1-1-WT-N-X-I-NO-TD

Map file name	Mag Dec / Grid Cor / Total Corr.			Resolver Offset	Downlink response ?	On Bottom Hours	Last Casing size/wt / depth
Fast Downlink	13.100	-0.83	13.925	570	good	41.10	10 3/8"@ 2591m

Bit-Midpoint Lower Szr	Bit-Midpoint Upper Stab	Flex Lgth	WOB MIN / MAX		Ave. RPM	Ave. WOB	Off Bottom Circulating Hours	ft / M Drilled this run
0.67	3.62	n/a	2	20	150	12	35.10	1071.0m

PD MIN/MAX		Battery Voltage	Date Due	RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
475	800	3.3	03Jan00	140	150	400	800	128.25	1071.0m

Fast Downlink		Pulse height	Used	Actual Flow MIN / MAX		Pump Output / Type		PowerDrive Operating Hours	On Btm ROP	Ave ROP
18 sec	60 sec	9%	18 sec	603	766	5.85	Triplex	76.20	26.1	26.1

Tool Response

Max DLS	Max BUR	Max Turn Rt
5.9	4.8	3.5

Stab gauge before/after run: 9 3/8 / 9 3/8

Run Objective: Geo Steer as per Ops Geologist

SOFTWARE VERSION

Acq	CPU	Comm	MWD	IDEAL
9.1A-70(03)	37b05	9.1A45(00)	V9.2	18_0c_08

Reason for POOH: TD well

Bit Hydraulics Calculations

Enter data in blue areas

Pump Flow	750
Mud Weight	12
Bit Diameter	9.5
Bit Flow	750
Bit Pressure Drop	448
Hydraulic HP	196
HSI	2.8
Impact Press.	810

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	16	0.196
2	16	0.196
3	16	0.196
4	16	0.196
5	16	0.196
6	16	0.196
7		
8		
9		
10		
Bit TFA =		1.178

PowerDrive Serial No. / PUMP HOURS

PART	PFIX	SN	START	CUM
Electronics	CRSEM-AB	247	0.00	76.20
Steering Section	CRSC-AA	267	0.00	76.20
Collar	CRSPA-BA	237	0.00	76.20
Power Generation	CRSSA-AB	239	0.00	76.20
Sub	CRSDA-AA	348	0.00	76.20

Motor Run Information

Motor type	Seiral number
Not used	
Bend type	Bend Angle
Stab type	Stab Gauge
Off Bottom pressure	On Bottom pressure
Backreaming Hours	Total Reaming Hours
Bearing Play after run (mm)	

Mud properties

Mud Company	Bariod
Mud Type	Accolade SBM
MW at **start** of run	12.0 ppg
MW at **end** of run	12.0 ppg
Funnel Viscosity	80 sec
Plastic Viscosity	56
Yeild Point	37
Maximum DH Temp. deg C	121 degC
Sand %	0.25 %
Soild %	20.90 %

Run Summary

The majority of the interval was geo-steered based on the real time LWD data with instructions coming from the Operation Geologist onsite. At around 4211 to 4261 the well deviated significantly to the right despite only steering only slightly to the right to correct the well path. This is probably related to the formation change in that interval. Overall the tool responded well and had a neutral tendency when at 0% steering ratio.

Little or no stick-slip was observed for the duration of the run. All down links to the Xceed tool was done with 8-11% flow rate changes. The well was washed and reamed up to the 10 ¾" shoe in preparation for running the liner. No problems were experienced during the trip out of the hole.

At surface the bit was graded as 1-1-WT-N-X-I-NO-TD

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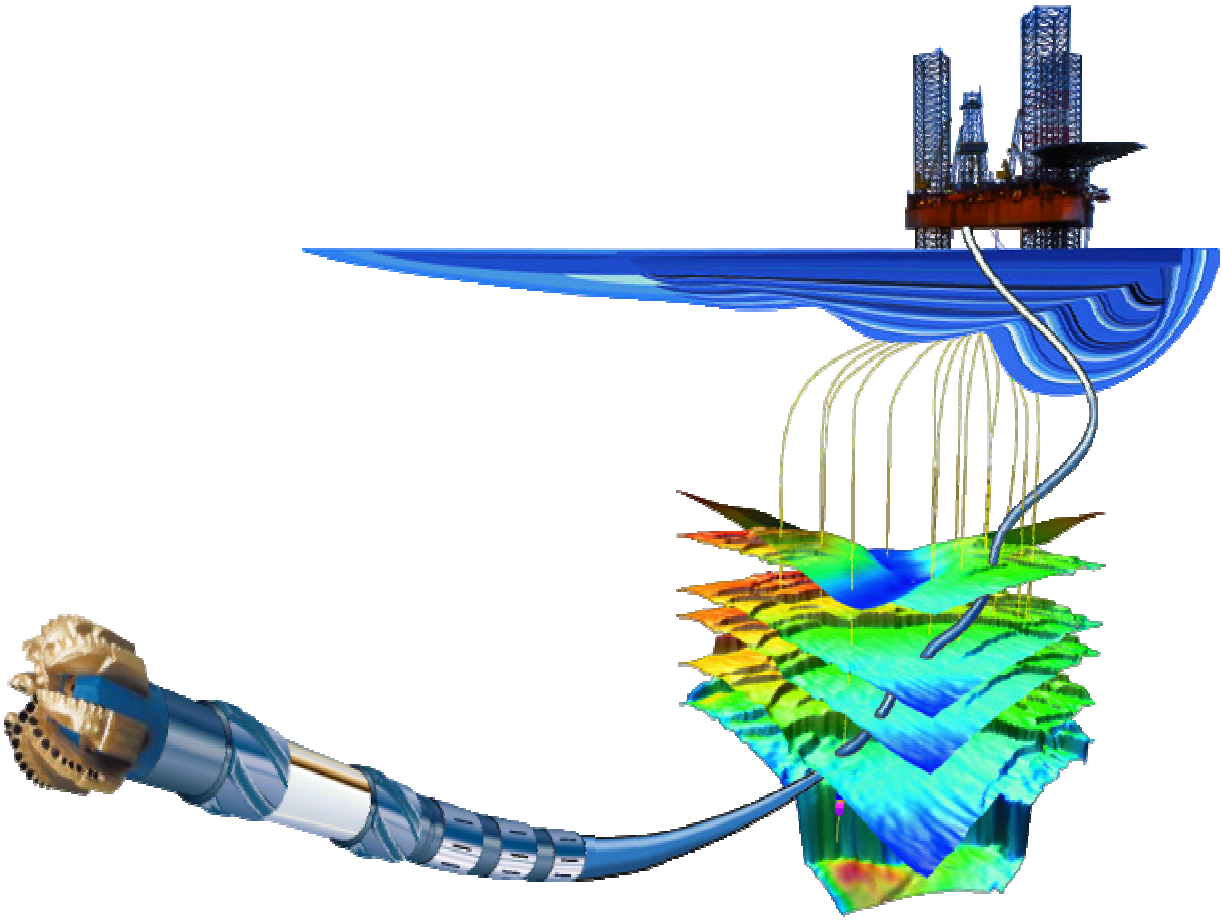
Drill Bit Grading



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PDC GRADING CHART

BIT RUN DATA # 3

Bit Size:	13 ½"	
Manufacturer:	Reed	
Bit Model:	RSX616M-A3	
Serial Number:	219224	
New Bit:	Yes	
IADC Code:	M422	
Number of Nozzles:	6	
Size of Nozzles:	16mm	
Number of Blades:	6	
Number of Cutters:	52 & 6	
Size of Cutters:	16mm & 13 mm	
T.F.A. (sq ins):	3 x 16/32 & 18/32	
W.O.B. :	3-32	Klfbs
Depth In:	758.0	m
Depth Out:	2031.0	m
Meters Drilled:	1273.0	m
Rotating Hours:	60.10	hrs
Metres Rotary:	1273.00	m
On bottom hours	42.30	hrs
Average R.O.P:	30.09	m/hr
Circulation Rate:	995-1200	GPM
R.P.M. at Bit:	80-170	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	3-Jul-08
Drilling Supervisor:	Sean/Stefan
Rig:	West Triton
Well Number:	Longtom-4
Rig Contractor:	Seadrill
Hole Angle:	30.26°
Date in:	29-Sep-08
Date Out:	3-Jul-08
SLB BHA #	3

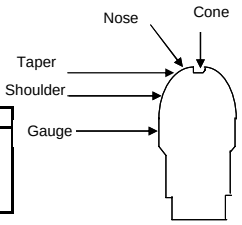
MUD AND LITHOLOGY DATA

Majority Formation:	Sand stone
Other Formation:	Silt stone
% Formation:	N/A
Mud Type:	Baroid SBM
Mud Weight:	12.0 ppg
PV:	39
YP:	36
Corrected solid:	17.70
% Oil / Water:	70/30
Circulating Temperature:	84.00

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
2	**4**	**CT**	**A**	**X**	**I**	**WT**	**BHA**



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)		
	0	No Wear
	8	No Cutting structure

(B)		
	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
	RO	Ring Out
	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)		
	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(D)		
	X	Fixed Cutter Bits

(E)		
	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(F)		
	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String

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PDC GRADING CHART

BIT RUN DATA # 3

Bit Size:	13 ½"	
Manufacturer:	Smith	
Bit Model:	M516-LSPX	
Serial Number:	JY2593	
New Bit:	Yes	
IADC Code:	M223	
Number of Nozzles:	5	
Size of Nozzles:	3 x 18, 2 x 20	
Number of Blades:	5	
Number of Cutters:	N/A	
Size of Cutters:	16	
T.F.A. (sq ins):	1.359	
W.O.B. :	16-25	Klfbs
Depth In:	2031.0	m
Depth Out:	2600.0	m
Meters Drilled:	569.0	m
Rotating Hours:	26.30	hrs
Metres Rotary:	569.00	m
On bottom hours	11.80	hrs
Average R.O.P:	48.22	m/hr
Circulation Rate:	1075-1135	GPM
R.P.M. at Bit:	150	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	7-Jul-08
Drilling Supervisor:	Sean/Stefan
Rig:	West Triton
Well Number:	Longtom-4
Rig Contractor:	Seadrill
Hole Angle:	52.52°
Date in:	3-Jul-08
Date Out:	6-Jul-08
SLB BHA #	4

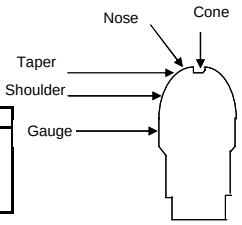
MUD AND LITHOLOGY DATA

Majority Formation:	Sand stone
Other Formation:	Silt stone
% Formation:	N/A
Mud Type:	Baroid Accolade SBM
Mud Weight:	12.0 ppg
PV:	45
YP:	41
Corrected solid:	17.70
% Oil / Water:	70/30
Circulating Temperature:	95.00

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
0	**0**	**NO**	**A**	**X**	**I**	**NO**	**TD**



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)	0	No Wear
	8	No Cutting structure

(B)	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
	RO	Ring Out
	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(D)	X	Fixed Cutter Bits

(E)	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(F)	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String

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PDC GRADING CHART

BIT RUN DATA # 7

Bit Size:	9 ½"	
Manufacturer:	Smith	
Bit Model:	M716 SPXC	
Serial Number:	JY2083	
New Bit:	Yes	
IADC Code:	M323	
Number of Nozzles:	7	
Size of Nozzles:	7 x 16	
Number of Blades:	7	
Number of Cutters:	N/A	
Size of Cutters:	16	
T.F.A. (sq ins):	1.374	
W.O.B. :	10-20	Klfbs
Depth In:	2600.0	m
Depth Out:	2841.0	m
Meters Drilled:	241.0	m
Rotating Hours:	9.40	hrs
Metres Rotary:	241.00	m
On bottom hours	9.40	hrs
Average R.O.P:	25.64	m/hr
Circulation Rate:	600-750	GPM
R.P.M. at Bit:	150-180	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	26-Jul-08
Drilling Supervisor:	Bill Openshaw
Rig:	West Triton
Well Number:	Longtom-4 P
Rig Contractor:	Seadrill
Hole Angle:	54.25°
Date in:	24-Jul-08
Date Out:	26-Jul-08
SLB BHA #	5

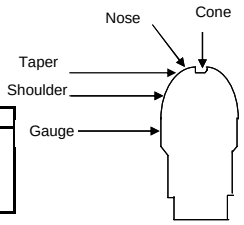
MUD AND LITHOLOGY DATA

Majority Formation:	Clay stone
Other Formation:	Siltstone/Sand stone
% Formation:	80%
Mud Type:	Baroid Accolade SBM
Mud Weight:	12.0 ppg
PV:	45
YP:	33
Corrected solid:	21.70
% Oil / Water:	68.4/31.6
Circulating Temperature:	87 deg C

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
2	**4**	**BT**	**A**	**X**	**I**	**RO**	**CP**



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)	0	No Wear
	8	No Cutting structure

(B)	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
	RO	Ring Out
	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(D)	X	Fixed Cutter Bits

(E)	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(F)	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String

Schlumberger

PDC GRADING CHART

BIT RUN DATA # 9

Bit Size:	9 ½"	
Manufacturer:	Smith	
Bit Model:	M716 SPXC	
Serial Number:	JY2802	
New Bit:	Yes	
IADC Code:	M323	
Number of Nozzles:	7	
Size of Nozzles:	7 x 16	
Number of Blades:	7	
Number of Cutters:	N/A	
Size of Cutters:	16	
T.F.A. (sq ins):	1.374	
W.O.B. :	15-28	Klfbs
Depth In:	2896.0	m
Depth Out:	2987.0	m
Meters Drilled:	91.0	m
Rotating Hours:	12.60	hrs
Metres Rotary:	91.00	m
On bottom hours	6.80	hrs
Average R.O.P:	13.38	m/hr
Circulation Rate:	600-750	GPM
R.P.M. at Bit:	150-180	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	29-Jul-08
Drilling Supervisor:	Bill Openshaw
Rig:	West Triton
Well Number:	Longtom-4 P
Rig Contractor:	Seadrill
Hole Angle:	54.25°
Date in:	27-Jul-08
Date Out:	29-Jul-08
SLB BHA #	6

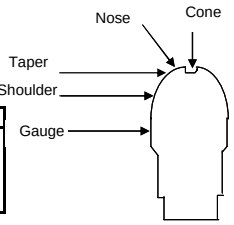
MUD AND LITHOLOGY DATA

Majority Formation:	Clay stone
Other Formation:	Siltstone/Sand stone
% Formation:	80%
Mud Type:	Baroid Accolade SBM
Mud Weight:	12.0 ppg
PV:	44
YP:	32
Corrected solid:	18.70
% Oil / Water:	69.6/30.4
Circulating Temperature:	86

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
1	7	WT	S	X	I	RO	TD



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)		
	0	No Wear
	8	No Cutting structure

(B)		
	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
	RO	Ring Out
	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)		
	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(D)		
	X	Fixed Cutter Bits

(E)		
	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(F)		
	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String

Schlumberger

PDC GRADING CHART

BIT RUN DATA # 10

Bit Size:	9 ½"	
Manufacturer:	Reed Hycalog	
Bit Model:	RSR 616 M -B3	
Serial Number:	218795	
New Bit:	Yes	
IADC Code:	M322	
Number of Nozzles:	6	
Size of Nozzles:	6 x 16	
Number of Blades:	6	
Number of Cutters:	N/A	
Size of Cutters:	16	
T.F.A. (sq ins):	1.178	
W.O.B. :	2-20	Klfbs
Depth In:	2690.0	m
Depth Out:	3577.0	m
Meters Drilled:	887.0	m
Rotating Hours:	75.40	hrs
Metres Rotary:	887.00	m
On bottom hours	54.80	hrs
Average R.O.P:	16.19	m/hr
Circulation Rate:	600-760	GPM
R.P.M. at Bit:	120-160	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	6-Aug-08
Drilling Supervisor:	Bill Openshaw
Rig:	West Triton
Well Number:	Longtom-4 H
Rig Contractor:	Seadrill
Hole Angle:	94.02°
Date in:	1-Aug-08
Date Out:	6-Aug-08
SLB BHA #	7

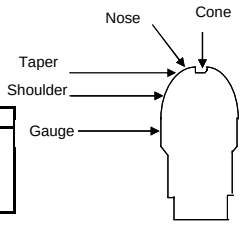
MUD AND LITHOLOGY DATA

Majority Formation:	Sandstone
Other Formation:	Claystone
% Formation:	N/A
Mud Type:	Baroid Accolade SBM
Mud Weight:	12
PV:	40
YP:	31
Corrected solid:	17.50
% Oil / Water:	75/25
Circulating Temperature:	93

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
2	6	BT	S	X	X	JD	DTF



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)	0	No Wear
	8	No Cutting structure

(B)	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
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	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(D)	X	Fixed Cutter Bits

(E)	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(F)	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String

Schlumberger

PDC GRADING CHART

BIT RUN DATA # 11

Bit Size:	9 ½"	
Manufacturer:	Reed Hycalog	
Bit Model:	RSx 616 M -A4	
Serial Number:	216535	
New Bit:	Yes	
IADC Code:	M322	
Number of Nozzles:	6	
Size of Nozzles:	6 x 16	
Number of Blades:	6	
Number of Cutters:	N/A	
Size of Cutters:	16	
T.F.A. (sq ins):	1.178	
W.O.B. :	2-20	Klfbs
Depth In:	3577.0	m
Depth Out:	4648.0	m
Meters Drilled:	1071.0	m
Rotating Hours:	76.20	hrs
Metres Rotary:	1071.00	m
On bottom hours	41.10	hrs
Average R.O.P:	26.06	m/hr
Circulation Rate:	600-766	GPM
R.P.M. at Bit:	150	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	11-Aug-08
Drilling Supervisor:	Bill Openshaw
Rig:	West Triton
Well Number:	Longtom-4 H
Rig Contractor:	Seadrill
Hole Angle:	91.16-
Date in:	6-Aug-08
Date Out:	11-Aug-08
SLB BHA #	8

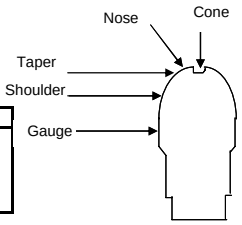
MUD AND LITHOLOGY DATA

Majority Formation:	Sandstone
Other Formation:	Claystone
% Formation:	N/A
Mud Type:	Baroid Accolade SBM
Mud Weight:	12.1
PV:	56
YP:	37
Corrected solid:	20.90
% Oil / Water:	57/20
Circulating Temperature:	121ºc

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
1	1	WT	N	X	I	NO	TD



PDC GRADING CHART AS PER IADC NOMENCLATURE

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INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
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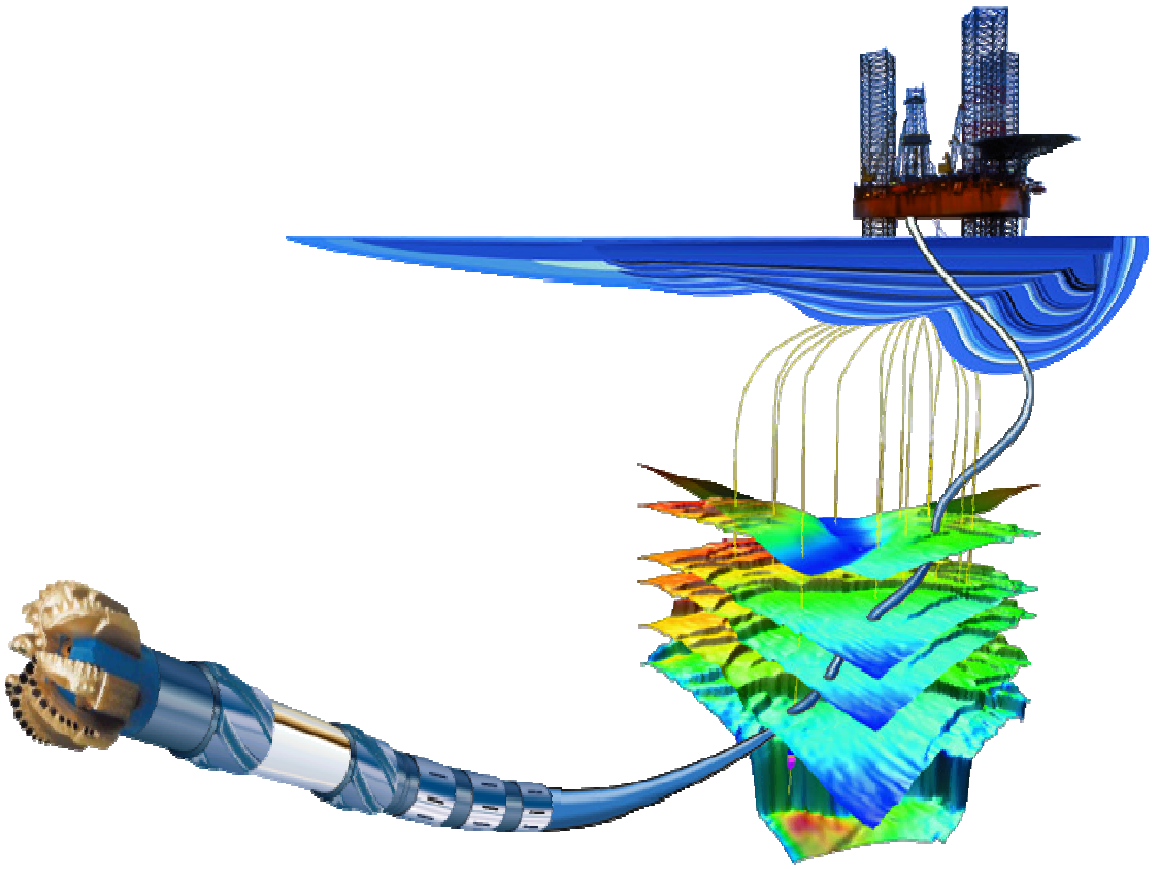
Schlumberger

Service Quality Issues



Schlumberger

Failure Report

4-Jul-2008
10:35AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefa **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Failure Number: 1

Fail Date: 3-Jul-2008 **Pump Hour @ Fail:** 60.80 **hrs**
Severity: Near **Drill Hours @ Fail:** 42.30 **hrs**
CAF: NO **Hours BRT @ Fail:** 85.00 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 2031.0 **m**

Failed Services:

Failed Equipment:

ARC8D-BB - 1815

Failure Description and Symptoms

Completed By: Yuda Yuda

Date: 3-Jul-2008

This ARC tool did not failed. However we found the lower ARC wearband is worn. Therefore we decided to change the tool with backup.

Remedial Action Attempted on Location

Completed By: Yuda Yuda

Date: 3-Jul-2008

Send the pictures of the worn wearband to office. We will use this tool for backup.

Schlumberger

Failure Report

4-Jul-2008
10:35AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Sean De Freitas, Schmidt Stefa **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 3

Failure Number: 2

Fail Date: 2-Jul-2008 **Pump Hour @ Fail:** 52.00 **hrs**
Severity: Near **Drill Hours @ Fail:** 42.30 **hrs**
CAF: NO **Hours BRT @ Fail:** 75.00 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 2031.0 **m**

Failed Services:

Failed Equipment:

PDSC9-BA - 49568, PLF9C-AA - 49688

Failure Description and Symptoms

Completed By: Punniamoorthy Sellathurai

Date: 3-Jul-2008

At 1045m MD noticed INC dropping, Continued to drill down rest of stand. Increased inclination to 1/2 deg and angle continued to drop. Changed to stear mode (toolface 18deg-75%) to rule out if the tool was locked up and then to (0 deg 100 %) and did not recieve disired INC increase. INC continued to drop to 26.31Deg.

Remedial Action Attempted on Location

Completed By: Punniamoorthy Sellathurai

Date: 3-Jul-2008

Contacted all relevant parties and informed them of situation the collective decision was made to POOH and inspect BHA. Upon inspection of BIAS unit it was discovered that the pads were completely worn down.

Schlumberger

Failure Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Failure Number: 1

Fail Date: 25-Jul-2008 **Pump Hour @ Fail:** 8.50 **hrs**
Severity: Light **Drill Hours @ Fail:** 7.80 **hrs**
CAF: NO **Hours BRT @ Fail:** 21.50 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 2656.0 **m**

Failed Services:

PowerDrive Xceed (PowerDrive Xceed)

Failed Equipment:

CRSC-AA - 111

Failure Description and Symptoms

Completed By: Punniamoorthy Sellathurai

Date: 26-Jul-2008

. No respond from tool was noticed or default values were seen on the screen @ 15:45. This happened at around 15:30 and it was derived from looking back at the MWD data base.
Recycled pumps 2 times.
Continued drilling ahead now believing/assuming that that the Xceed was in HIA mode attempting to achieve 54.5 deg.
Continued monitoring the inclination on the fly from Telescope and it showed a dropping trend.
D/L another increase inclination 0.4 deg a little before 17:04.
D/L to High ROP to tool a little before 18:00 and another with TF 0 and SRatio 20% to arrest the dropping and building back the already dropping inclination.
D/L another with TF 0 and SRatio 60% to arrest the continuing dropping.
No go.

Remedial Action Attempted on Location

Completed By: Punniamoorthy Sellathurai

Date: 27-Jul-2008

When tools arrived at surface, Memory was dumped adn techlogs were cerated. techlog showed @ 15:30hrs that there is no power to the tool and ther eis no memory after 15:30

Schlumberger

Failure Report

27-Jul-2008
8:53AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Moussow **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 5

Failure Number: 2

Fail Date: 25-Jul-2008 **Pump Hour @ Fail:** **hrs**
Severity: Light **Drill Hours @ Fail:** **hrs**
CAF: YES **Hours BRT @ Fail:** **hrs**
Lost Rig Time: 2.00 **hrs** **Depth @ Fail:** 2725.0 **m**

Failed Services:

EcoScope (Neutron)

Failed Equipment:

DV6MT-AA - 773

Failure Description and Symptoms

Completed By: Mark Lu

Date: 27-Jul-2008

At 2718m MD All PNG related d=points flagging out of range (e.g. TNEA = 510), MON_v 0 or 1, ECOSTAT 53/61 (Indicates PNG firing). Pumps recycled and PNG began firing again. approximately 5m data lost to be reamed over after reaching core point

Remedial Action Attempted on Location

Completed By: Mark Lu

Date: 27-Jul-2008

Recycled pumps to attempt to see if PNG would begin firing again. PNG came back on. At 2748 trhe PNG turned off again, recycled pumps again and PNG began firing again. (6m lost data)
Again at 2790m Bit Depth the PNG stopped firing. recycled pumps twice with no success. decision made to continue drilling. At 28009m PNG began firing again (10m lost data). Once reaching core point @ 2841.8m MD A series of reams were made over the areas of lost data.

Schlumberger

Failure Report

30-Jul-2008
6:37AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 6

Failure Number: 1

Fail Date: 28-Jul-2008 **Pump Hour @ Fail:** 10.30 **hrs**
Severity: Near **Drill Hours @ Fail:** 4.70 **hrs**
CAF: NO **Hours BRT @ Fail:** 19.50 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 2985.0 **m**

Failed Services:

EcoScope (Neutron)

Failed Equipment:

DV6MT-AA - 801

Failure Description and Symptoms

Completed By: Mark Lu

Date: 30-Jul-2008

At 18:23, 28-July, 2985m the counts on the near detector began reading out or range (510). The PNG was checked and found to still be firing (MON_v ~140, EcoStat 61). Shocks seen from top of volcanics (~2650m) with lateral shock consistently reading 1G and axial shock of 1G from 2985m. Peak shock on MWD tool reading 0-40G over the same interval. EcoScope shock level began reading high (lvl3) at 2986m though MWD Shock Risk remained at 0.

Examination of techlogs a showed counts on near detector1 dropped to 0 at ~2985m (bit depth) and remained at 0 from that point on. Confirmation from ITE showed near detector had indeed failed.

Remedial Action Attempted on Location

Completed By: Mark Lu

Date: 30-Jul-2008

Picked up off bottom (~18:25) and recycled the pumps. No change in TNEA_v reading. Drilling continued to TD.
Pumps were recycled at TD and stand reamed. TNEA_v remained out of range during entire reaming operation even when sensor was over the region where it had read correctly. EcoStat was consistently 53 during reaming (Light Failure - Density Board - Co-efficient Out of Range).

InTouch ticket submitted: 4540725

Schlumberger

Failure Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Failure Number: 1

Fail Date: 5-Aug-2008 **Pump Hour @ Fail:** 77.50 **hrs**
Severity: Serious **Drill Hours @ Fail:** 54.80 **hrs**
CAF: NO **Hours BRT @ Fail:** 89.75 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 3577.0 **m**

Failed Services:

Failed Equipment:

MDCIX-AB - E0330

Failure Description and Symptoms

Completed By: Mark Lu

Date: 6-Aug-2008

1)
At 06:40-(4-Aug)-3096.5mMD, 18:33-(4-Aug)-3196mMD and 21:45-(4-Aug)-3230mMD demodulation from the MWD tool ceased. In each of these cases the pumps were recycled and signal regained.

2)
Following a connection (23:03, 4-Aug-08) the pumps were brought up to full flow rate (750gpm, 3290psi SPPA) in order to take a survey. The survey came up out of FAC (Tool H was 10nT too low – 59486nT). Pumps were recycled (23:08, 750gpm, 3275psi) and the second survey once again failed survey FAC on Tool H (59422nT). Pumps were recycled for the third time (23:16, 750gpm, 3104 psi) and no signal was seen on the demodulation panel (no signal in bandpass on the sprectrum or spectrogram), pump noise was still visible.

No anti-jam was seen and MWDSTAT was 52 (23:54, 4-Aug) (LTB Status, D&I Temp Status and Magnetometers unstable with LTB power) but dropped back to 0 following the final pump recycling for a good survey (23:55, 4-Aug).

3)
The tool turned off again at 09:45-(5-Aug)-3462.0mMD, but was regained once the pumps were recycled.

4)
At 13:50-(5-Aug)-3526.0mMD the signal from the tool was lost again.

At 3577mMD further issues were experienced with the signal and the client opted to POOH and change out the tools.

Remedial Action Attempted on Location

Completed By: Mark Lu

Date: 6-Aug-2008

2)
The voltages on SPT1 and SPT2 were examined and found to be within operational limits. This coupled with the visibility of pump data noise and the fact that the pressure was lower than expected (modulator fully open?) appeared to rule out a sensor failure.

Pumps were recycled (23:20, 750gpm, 3095 psi) and again no signal was seen on the demodulation panel. The flow rate was reduced to 533gpm (23:27) with no change. Pumps were recycled and rotary engaged (40rpm) with pumps being brought up in a staggered manner ~100gpm/min-90secs up to 743gpm (3175gpm). While this was ongoing the spectrogram for SPT1, SPT2 and the combined SPT1 and SPT2 were examined and SPT2 showed a visibly stronger signal. Demodulation inputs were changed to only SPT2 (was SPT1 & SPT2 previously) and demodulation recommenced. Pumps were recycled (750gpm, 3262psi) and a good survey attained. Drilling resumed.

3)
Pumps were recycled without success (13:52)-(5-Aug). The string was worked up and down and pumps recycled (14:00 & 14:10) still without regaining the signal from the tool. At 14:15, the pumps were recycled with the floor rate brought up slowly to 800gpm. Again no signal was seen. At 14:25, the pumps were recycled to a lower flow again without success. Pumps were subsequently recycled (14:30) to 750gpm still without success. The current stand was racked back (14:40) and the pumps brought up to 300gpm with rotary engaged and the stand being worked up and down. At 15:05 the connection was remade and the string ran back to bottom, pumps were recycled to 400gpm to attempt survey and demodulation. Demodulation was regained and drilling continued.

Schlumberger

Failure Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Failure Number: 2

Fail Date: 3-Aug-2008 **Pump Hour @ Fail:** 18.40 **hrs**
Severity: Near **Drill Hours @ Fail:** 16.10 **hrs**
CAF: NO **Hours BRT @ Fail:** 47.00 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 2999.0 **m**

Failed Services:

TeleScope (Cont D&I), TeleScope (D&I)

Failed Equipment:

MDCIX-AB - E0330

Failure Description and Symptoms

Completed By: Mark Lu

Date: 6-Aug-2008

At 03:00, 3-Aug, 2990.0mMD a survey was taken and found to be out of FAC. In all four surveys were taken, pipe was rotated following 1st failed survey and after third and fourth failed surveys. Tool G varied between all surveys (6.04mG, 1282.45mG, 1195.26mG & 7.09 mG). Tool H was within FAC for all surveys. Dip was out of FAC on all surveys (29.35 deg, -45.12 deg, -43.58 deg and 58.57 deg).

The next stand was drilled down and a survey attempted. The survey still came up out of FAC. Tool H within FAC. All G axis values reading were very low (Gx -5.5mG, Gy -2.0mG, Gz -2.5mG).

Drilled ahead with Xceed surveys.

Remedial Action Attempted on Location

Completed By: Mark Lu

Date: 6-Aug-2008

Raw G axis values were examined and did not show any "stuck" values nor did it show any consistency in individual axis measurements even when consecutive surveys were taken at the same spot without rotation prior to or after the survey. 4/5 axis correction offline was run (with & without on-line criteria) and failed to determine which individual accelerometer had failed even when individual axis were selected. This in addition to the raw values being erratic indicated that multiple accelerometers may have failed.

Schlumberger

Failure Report

7-Aug-2008
2:43AM

Job Number: 08ASQ0007 **Company:** NEXUS ENERGY LTD **Rig Name:** West Triton
Company Rep: Bill Openshaw/Rocco Rossouw **Location:** MEA-APG-ASS **Well Name:** Longtom-4
Run Number: 7

Failure Number: 3

Fail Date: 3-Aug-2008 **Pump Hour @ Fail:** 18.40 **hrs**
Severity: Near **Drill Hours @ Fail:** 16.10 **hrs**
CAF: NO **Hours BRT @ Fail:** 47.00 **hrs**
Lost Rig Time: **hrs** **Depth @ Fail:** 3057.0 **m**

Failed Services:

EcoScope (Ultrasonic Caliper)

Failed Equipment:

DV6MT-AB - 957

Failure Description and Symptoms

Completed By: Mark Lu

Date: 6-Aug-2008

At 03:00, 3-Aug, 3057mMD the ultransonic caliper began to give erratic readings. From 3057mMD -3135mMD and 3225mMD-3577mMD the caliper readings for the borehole size fluctuated between ~8.2-10in. From 3260mMD onwards the caliper consistently gave an undergauged borehole of ~8.2in in diameter.

In RM the ultrasonic caliper was a flat line of ~9in from 3255mMD while the density caliper indicated that the hole was ~10in in diameter. RM QC flags for the ultrasonic caliper were not red over any of the problem intervals.

Remedial Action Attempted on Location

Completed By: Mark Lu

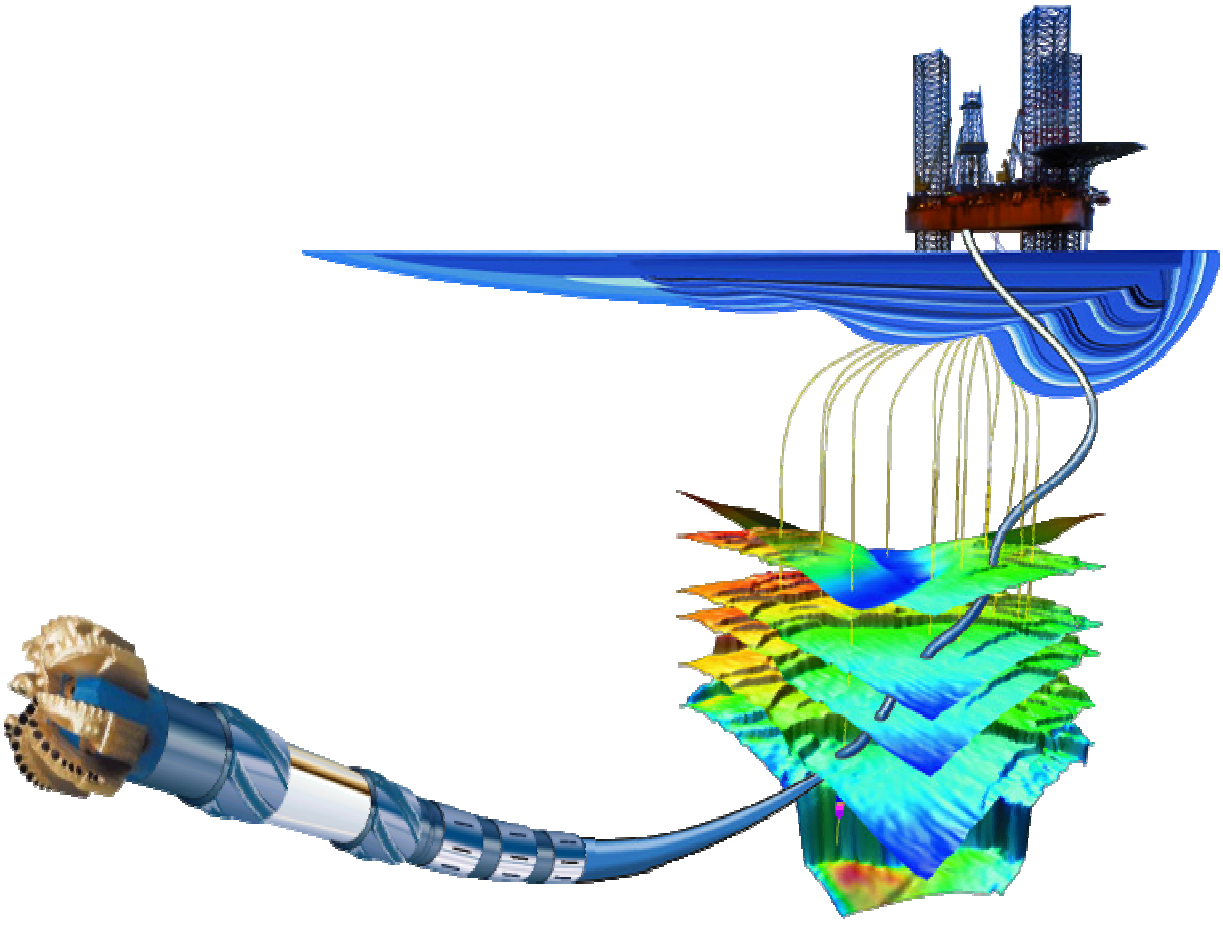
Date: 6-Aug-2008

As the environmental corrections were only adjusted once per day it was unlikely that the readings were due to the surface parameters entered in IDEAL. The variations in these parameters was not particularly significant either which further reduced the likelihood that this was the cause.

It was observed that when the MWD tool would turn itself off mid-stand that the tool would send up GTF frames even though the surface RPM was greater than the rotary threshold of 20rpm (SRPM usually indicated 100+ rpm). Stick-slip was negligible and the low CRPM readings were put down to the failure of the D&I package (CRPM being calculated from the magnetometers in the D&I package). As the tool only had one ultrasonic sensor it was postulated that the tool may have thought it was sliding and not calculated the borehole size correctly. This was not the case however as the caliper continued to read considerably undergauge even when the tool was in rotary mode and CRPM was reading correctly.

Schlumberger

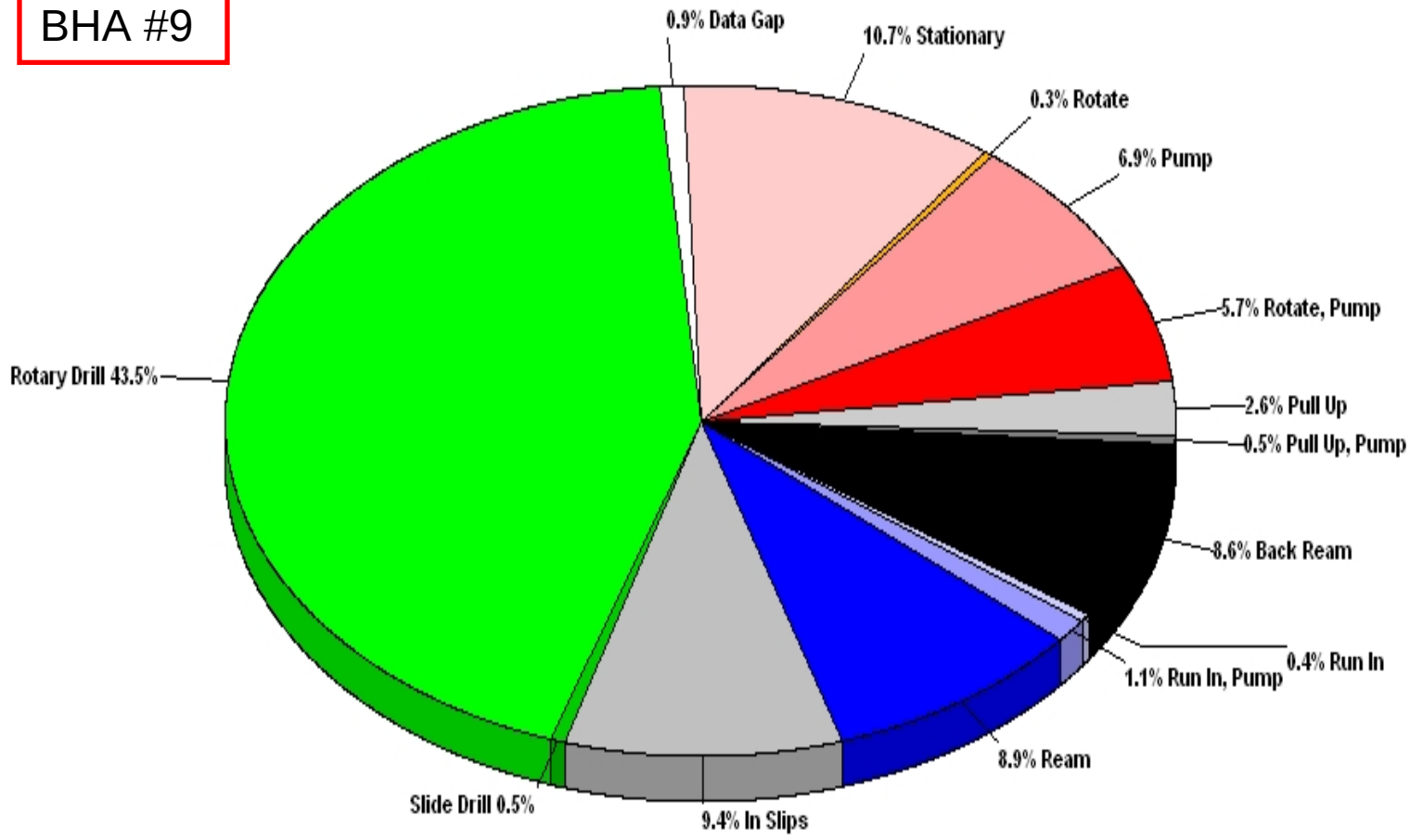
Drilling Mechanics
9 ½" Sections



Longtom-4 - 9.5" Pilot Hole

Section

BHA #9



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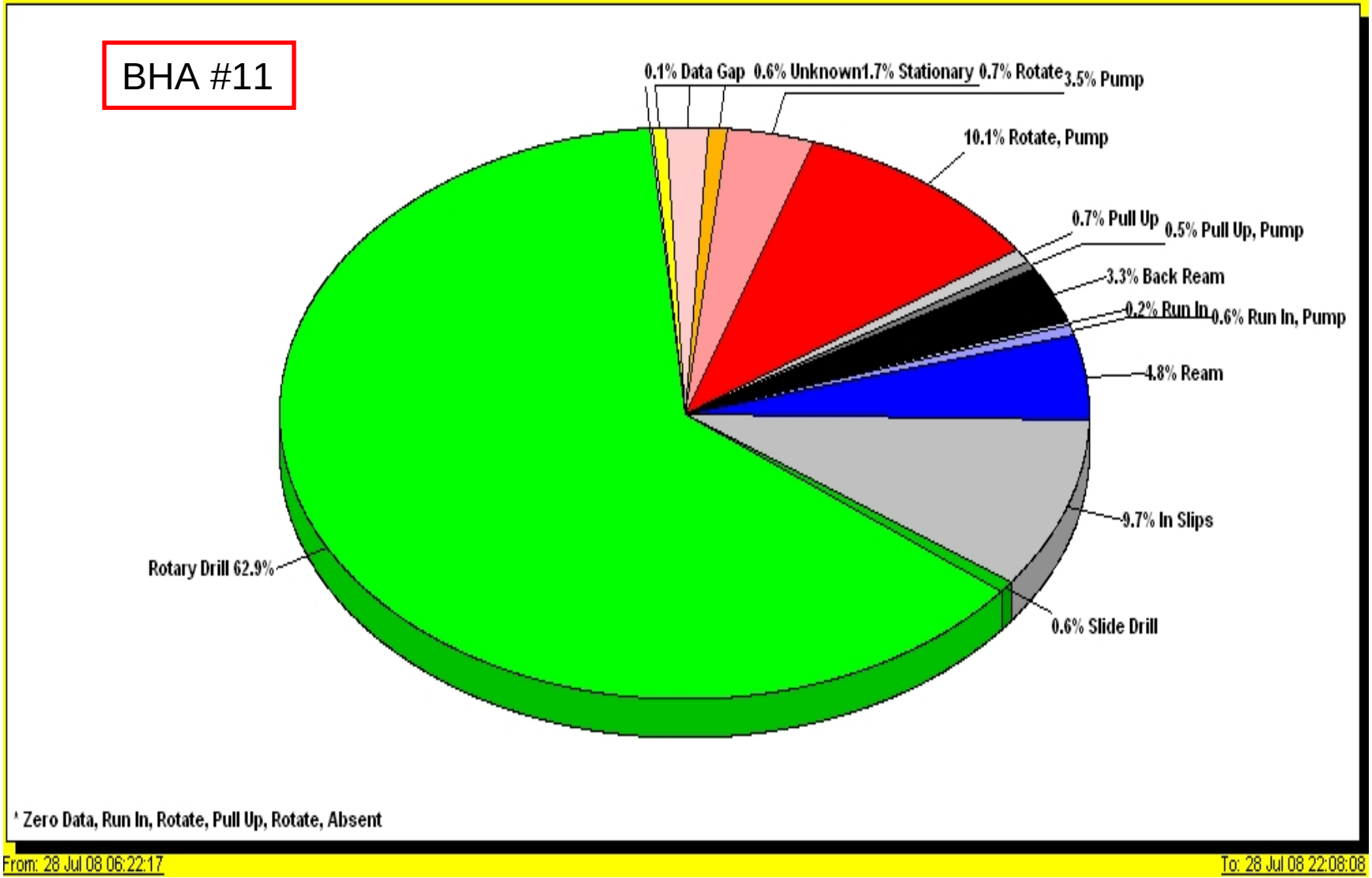
From: 25 Jul 08 05:32:08

To: 26 Jul 08 06:08:08

Longtom-4 - 9.5" Pilot Hole

Section

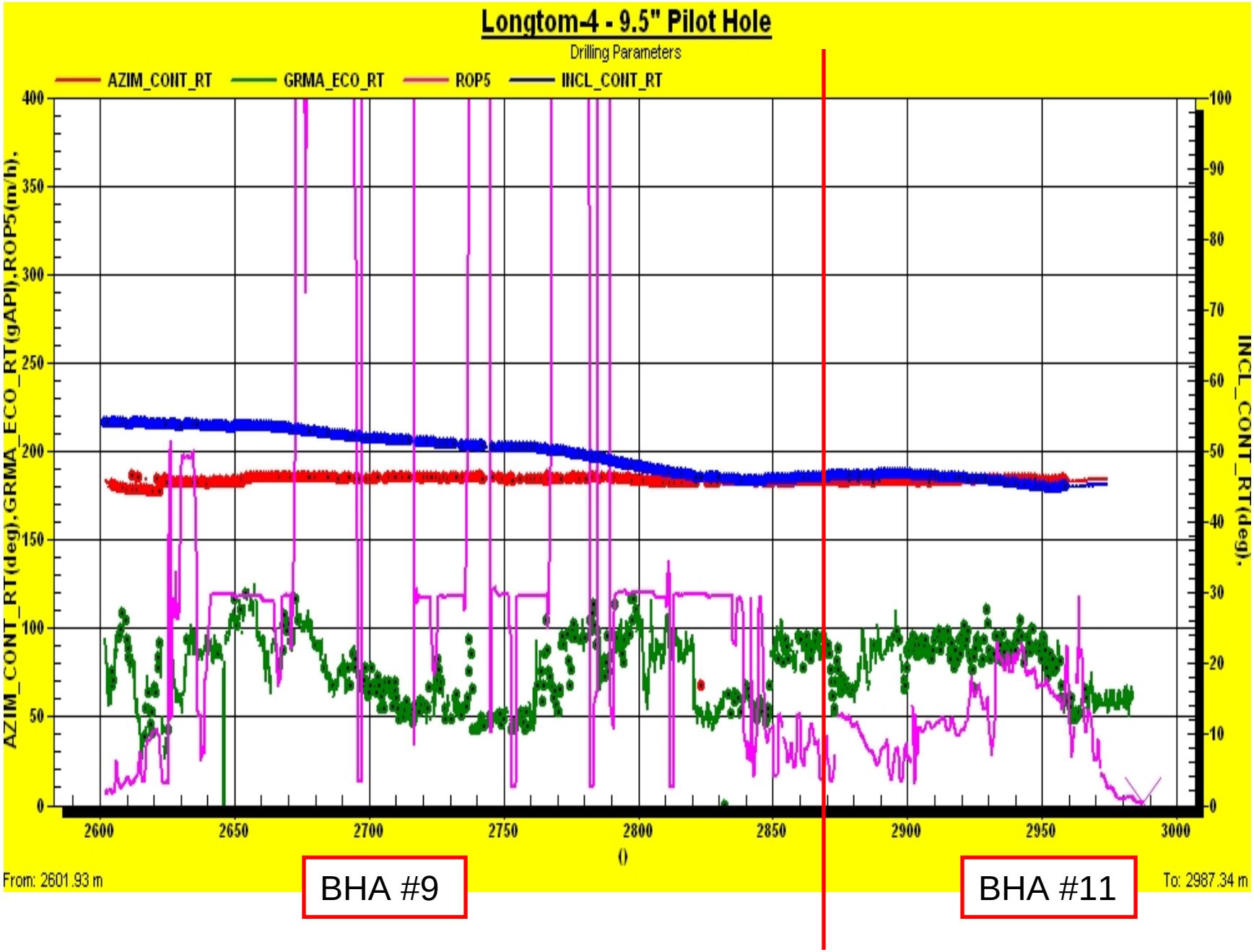
BHA #11

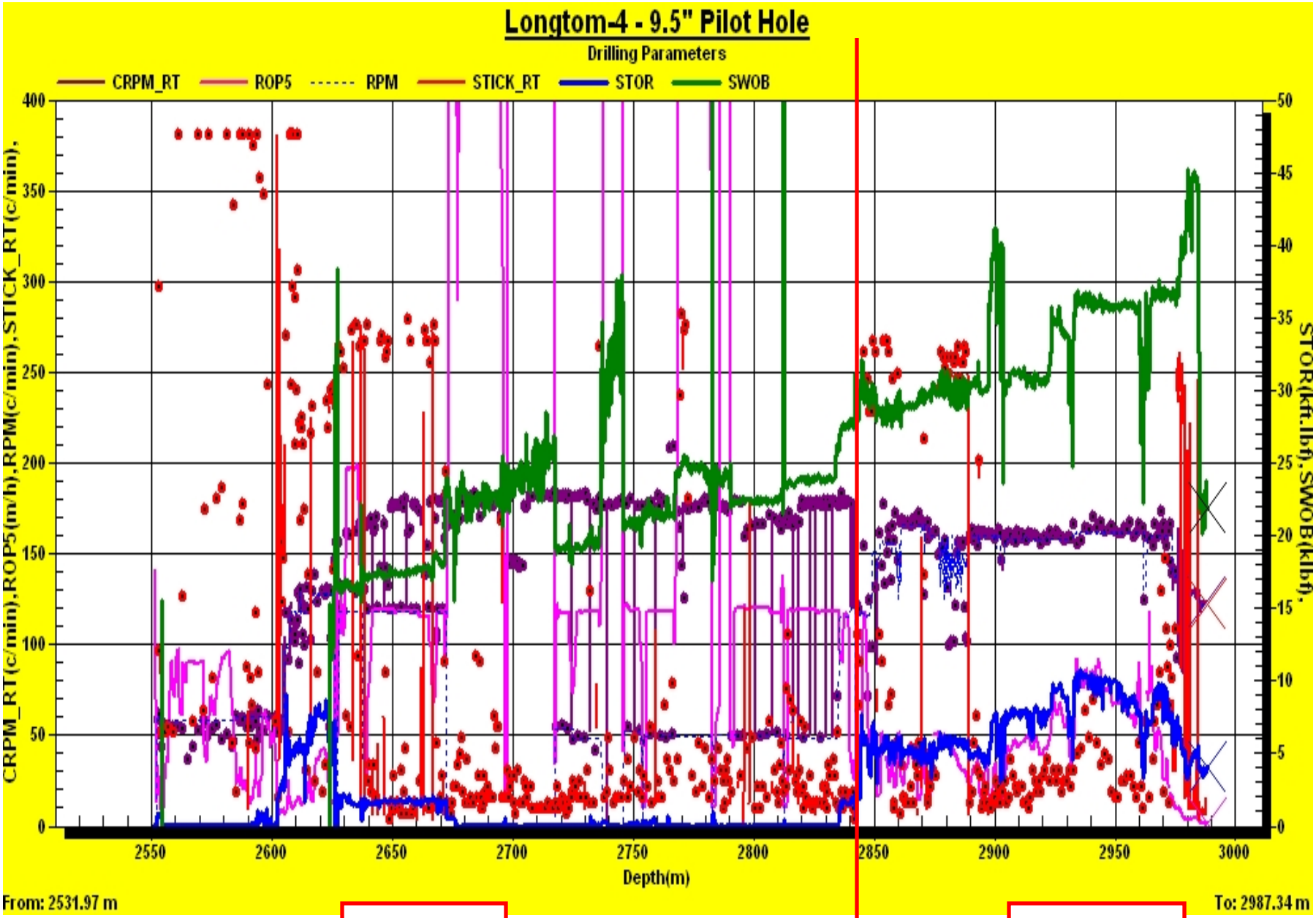


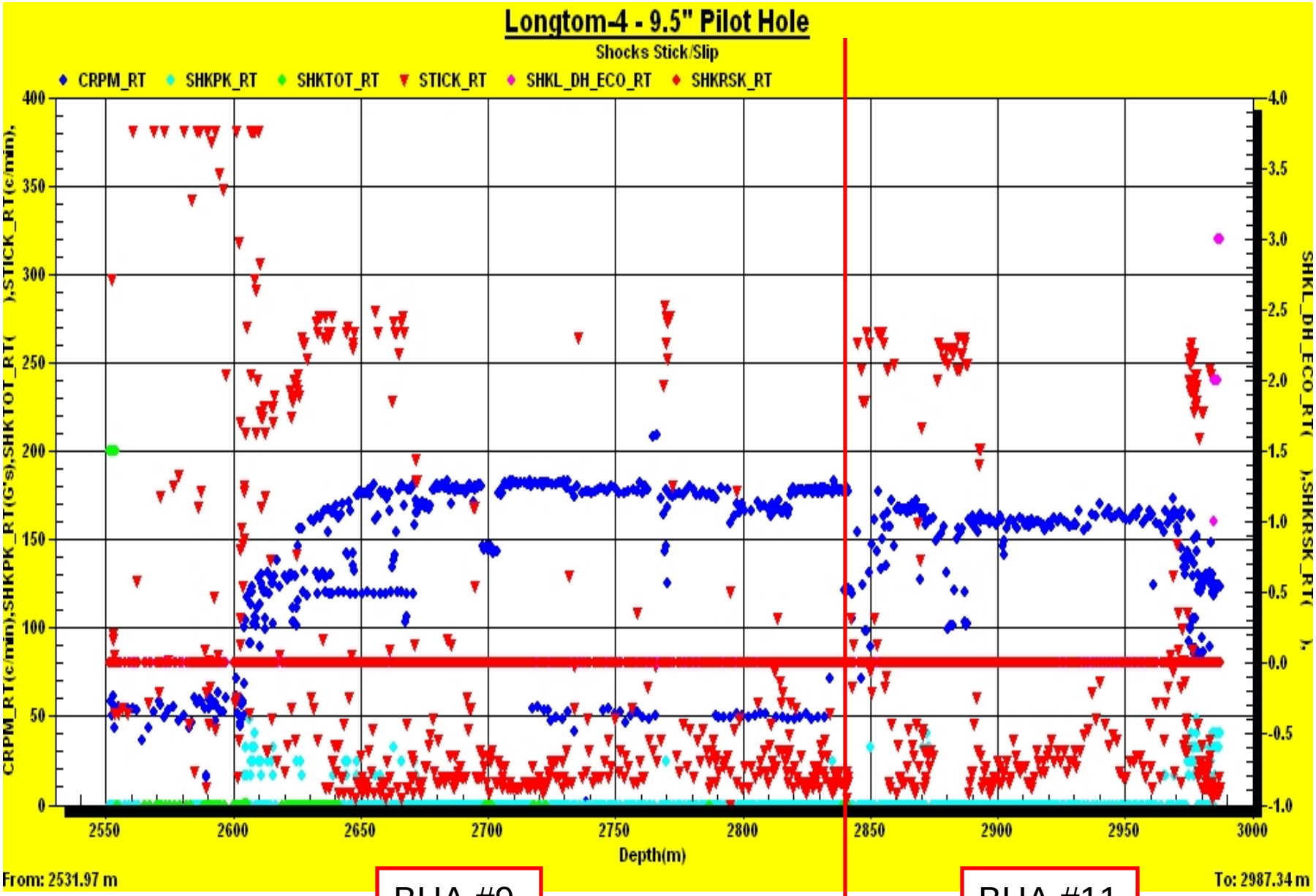
* Zero Data, Run In, Rotate, Pull Up, Rotate, Absent

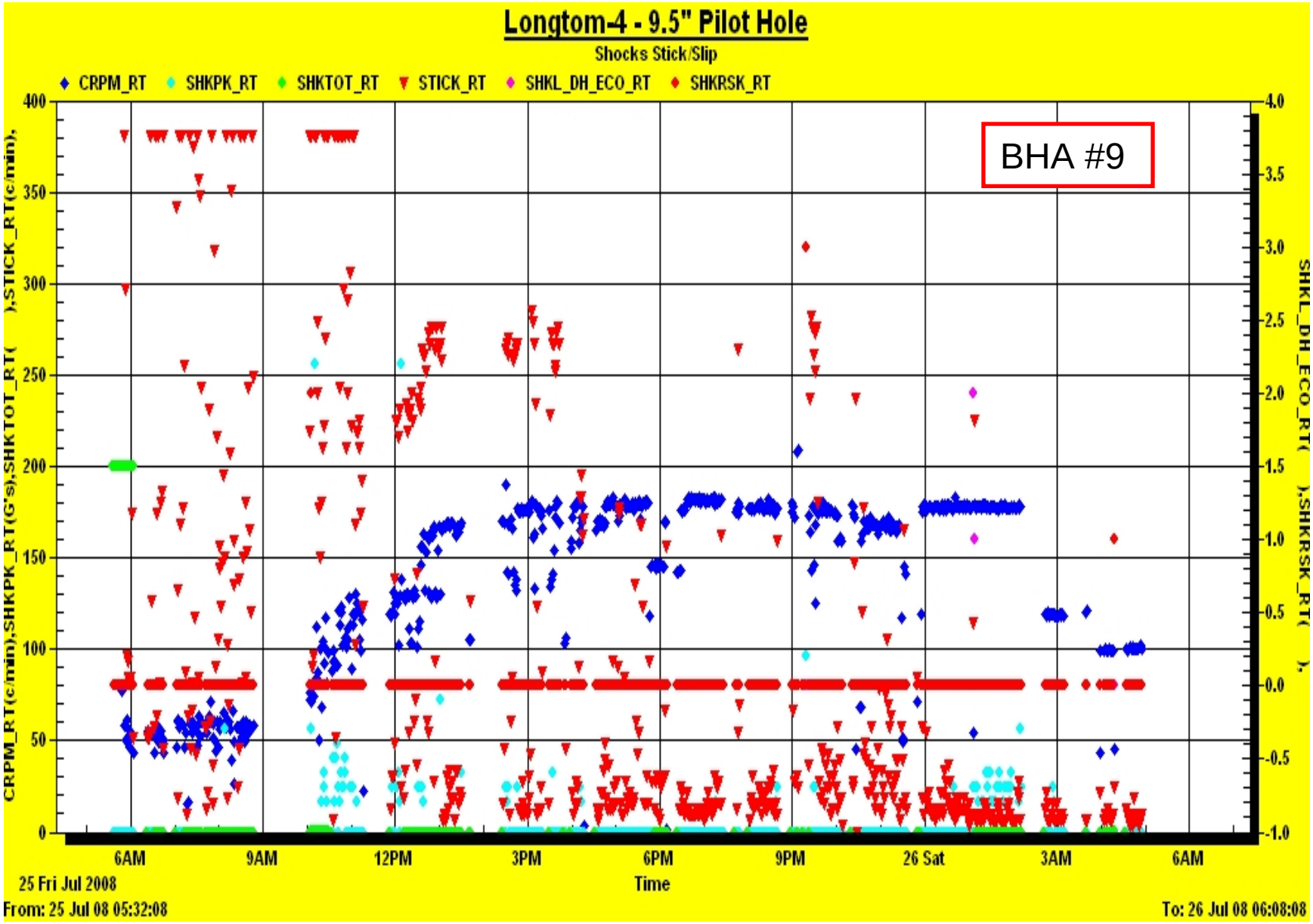
From: 28 Jul 08 06:22:17

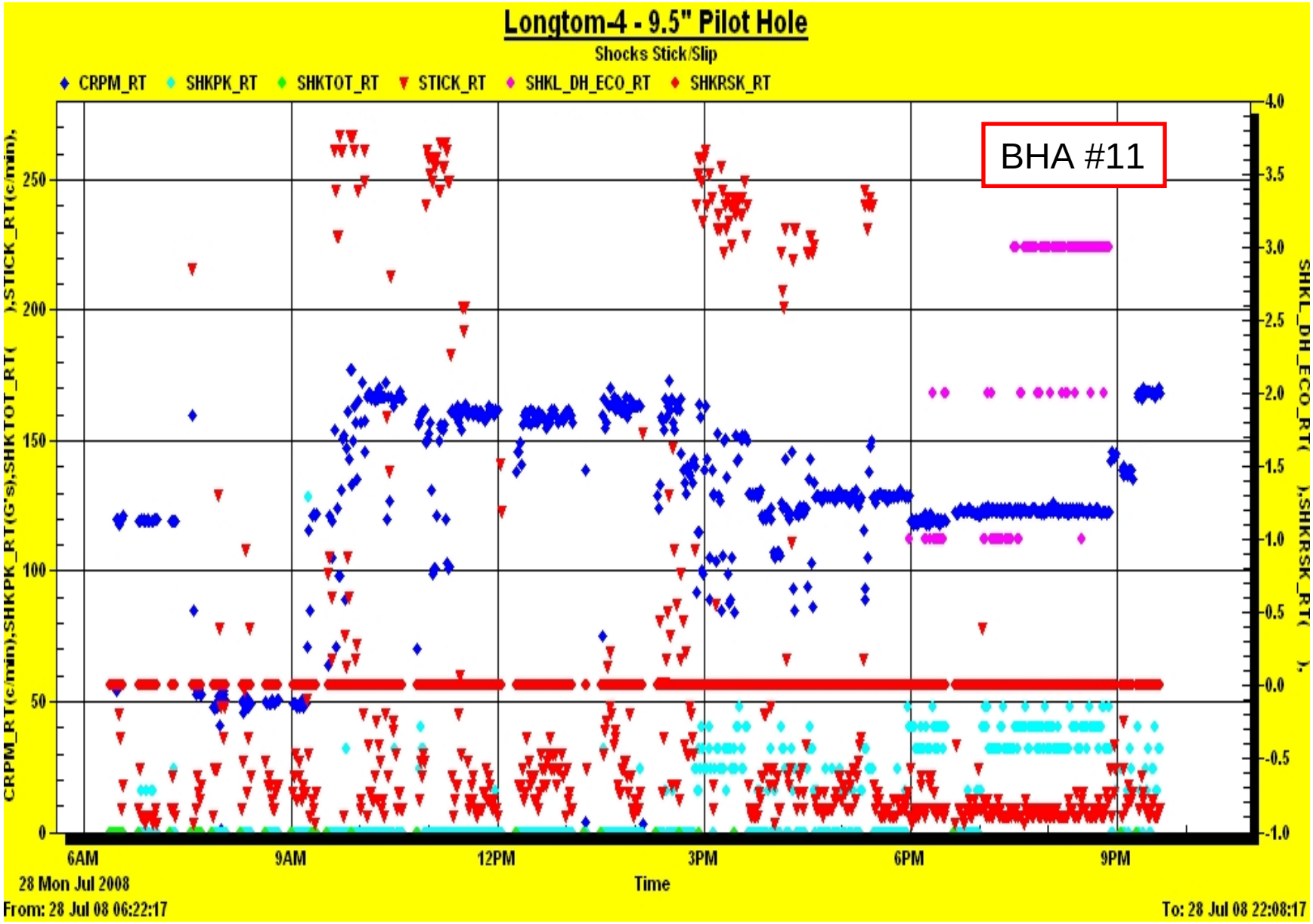
To: 28 Jul 08 22:08:08

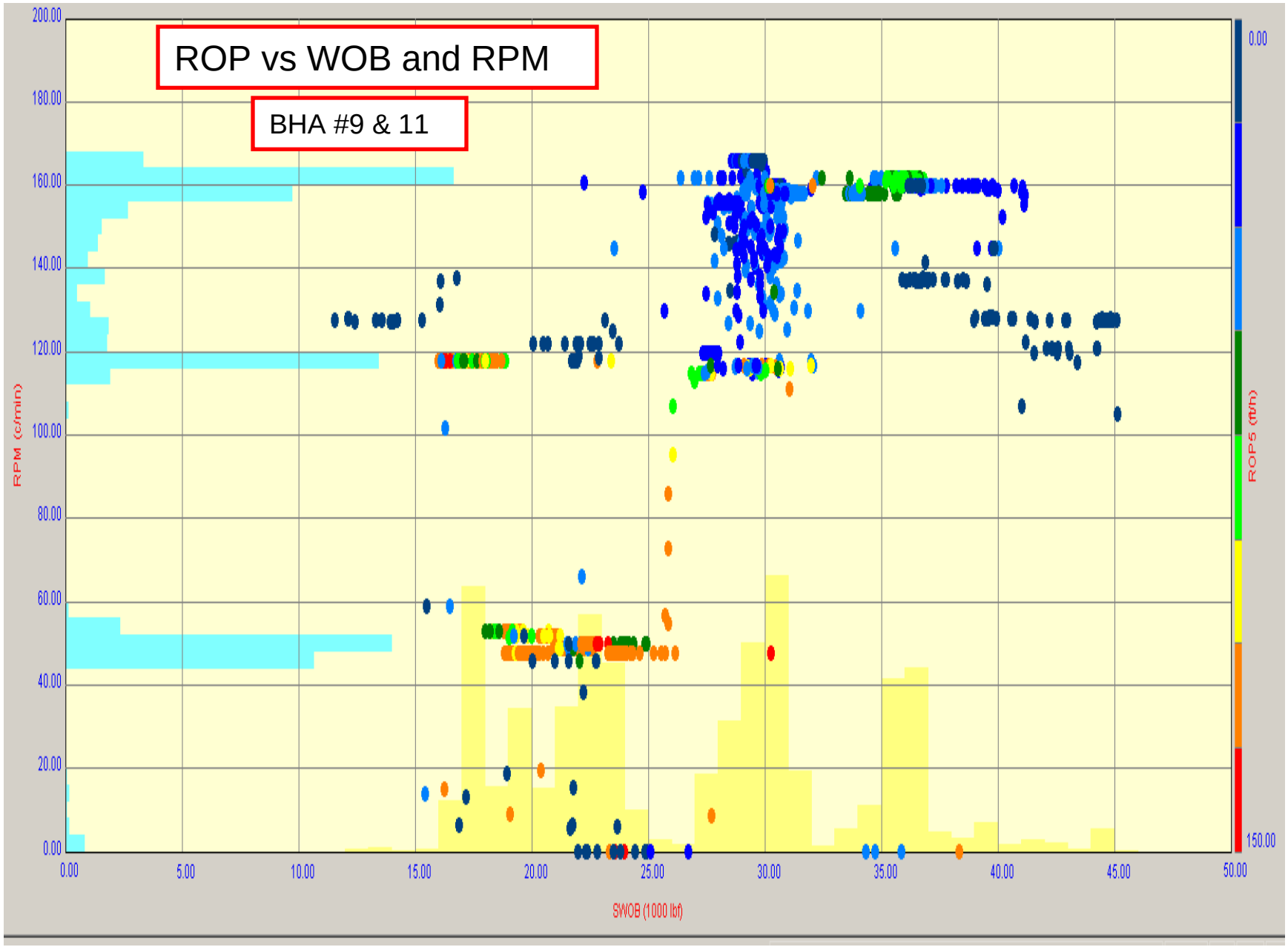

Longtom-4 - 9.5" Pilot Hole
Drilling Parameters
AZIM_CONT_RT
GRMA_ECO_RT
ROP5
INCL_CONT_RT
AZIM_CONT_RT(deg),GRMA_ECO_RT(gAPI),ROP5(m/h),
INCL_CONT_RT(deg),
400
350
300
250
200
150
100
50
0
100
90
80
70
60
50
40
30
20
10
0
2600
2650
2700
2750
2800
2850
2900
2950
3000
()
From: 2601.93 m
To: 2987.34 m
BHA #9
BHA #11


Longtom-4 - 9.5" Pilot Hole
Drilling Parameters
CRPM_RT
ROP5
RPM
STICK_RT
STOR
SWOB
CRPM_RT(c/min),ROP5(m/h),RPM(c/min),STICK_RT(c/min),
STOR(kft.lbf),SWOB(klbf),
Depth(m)
From: 2531.97 m
To: 2987.34 m
BHA #9
BHA #11


Longtom-4 - 9.5" Pilot Hole
Shocks Stick/Slip
CRPM_RT
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
CRPM_RT(c/min),SHKPK_RT(G's),SHKTOT_RT( ),STICK_RT(c/min),
SHKL_DH_ECO_RT( ),SHKRSK_RT( ),
400
350
300
250
200
150
100
50
0
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
Depth(m)
From: 2531.97 m
To: 2987.34 m
BHA #9
BHA #11

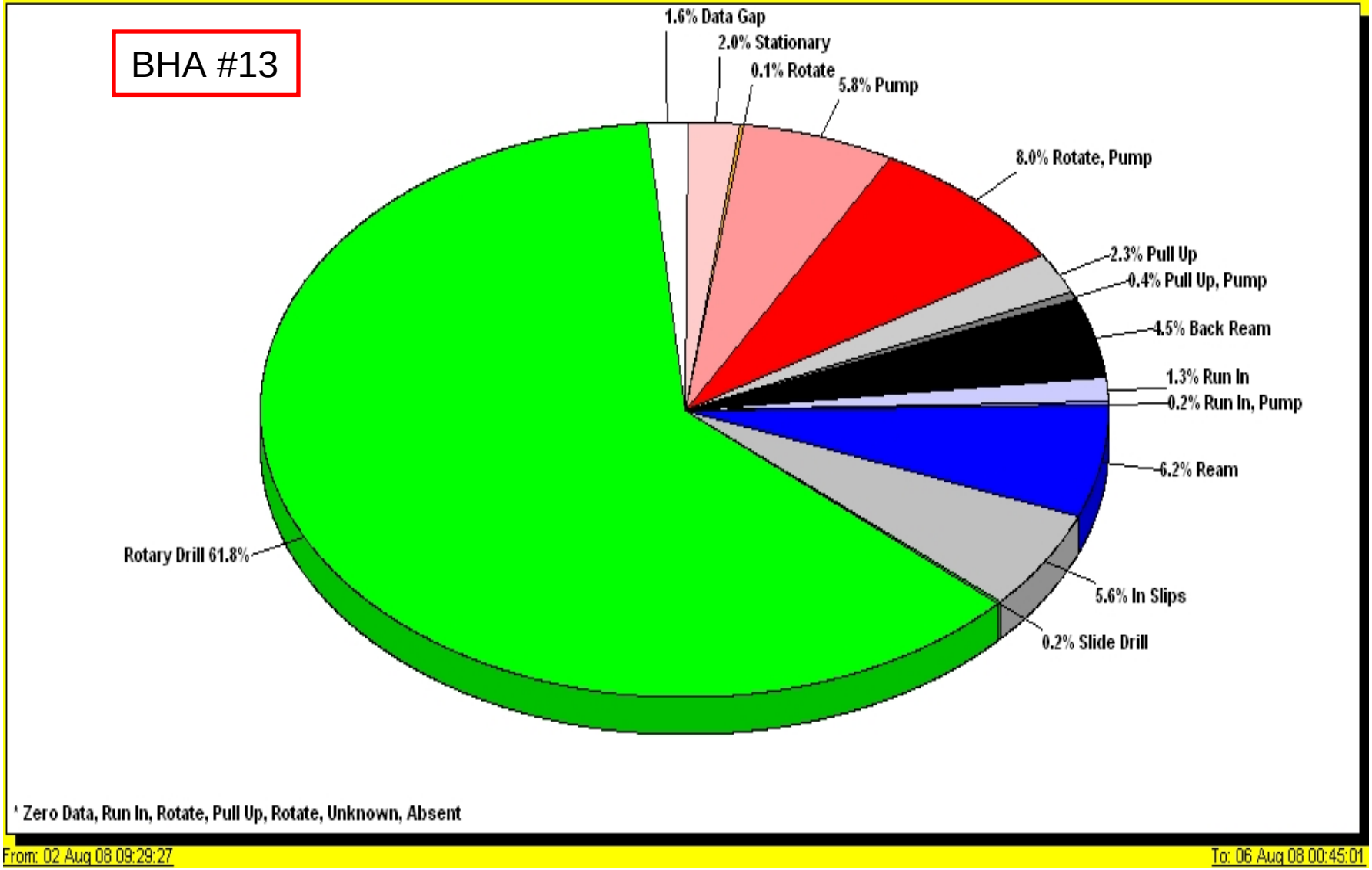

Longtom-4 - 9.5" Pilot Hole
Shocks Stick/Slip
CRPM_RT
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
BHA #9
CRPM_RT(c/min),SHKPK_RT(G's),SHKTOT_RT( ),STICK_RT(c/min),
SHKL_DH_ECO_RT( ),SHKRSK_RT( ),
400
350
300
250
200
150
100
50
0
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
6AM
9AM
12PM
3PM
6PM
9PM
26 Sat
3AM
6AM
25 Fri Jul 2008
Time
From: 25 Jul 08 05:32:08
To: 26 Jul 08 06:08:08


Longtom-4 - 9.5" Pilot Hole
Shocks Stick/Slip
CRPM_RT
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
BHA #11
CRPM_RT(c/min),SHKPK_RT(G's),SHKTOT_RT( ),STICK_RT(c/min),
SHKL_DH_ECO_RT( ),SHKRSK_RT( ),
0
50
100
150
200
250
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
6AM
9AM
12PM
3PM
6PM
9PM
28 Mon Jul 2008
Time
From: 28 Jul 08 06:22:17
To: 28 Jul 08 22:08:17


ROP vs WOB and RPM
BHA #9 & 11
RPM (c/min)
SWOB (1000 lbf)
ROP5 (ft/h)
200.00
180.00
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
45.00
50.00
0.00
150.00

Longtom-4 - 9.5" HZ 3577

BHA #13



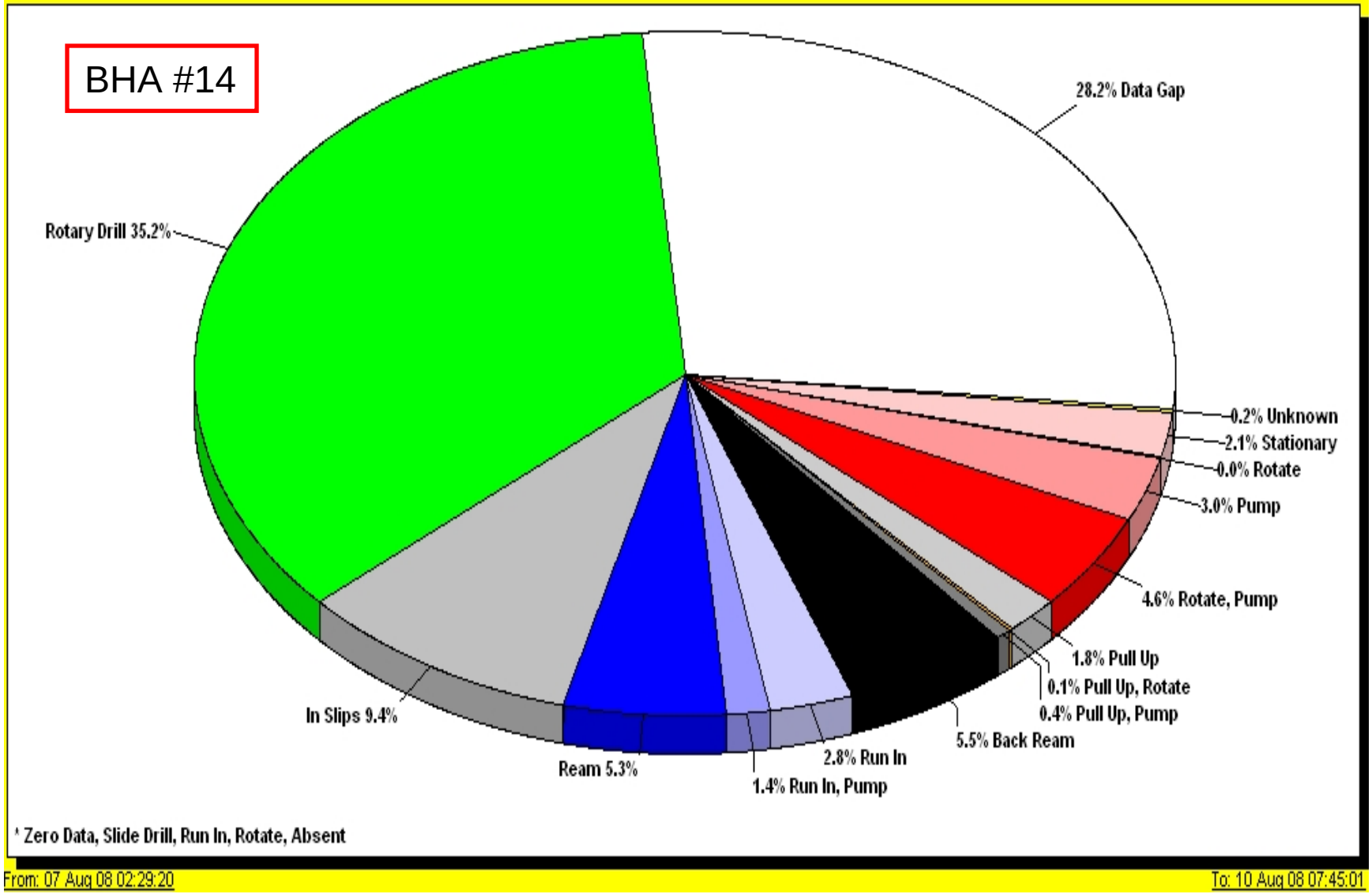
* Zero Data, Run In, Rotate, Pull Up, Rotate, Unknown, Absent

From: 02 Aug 08 09:29:27

To: 06 Aug 08 00:45:01

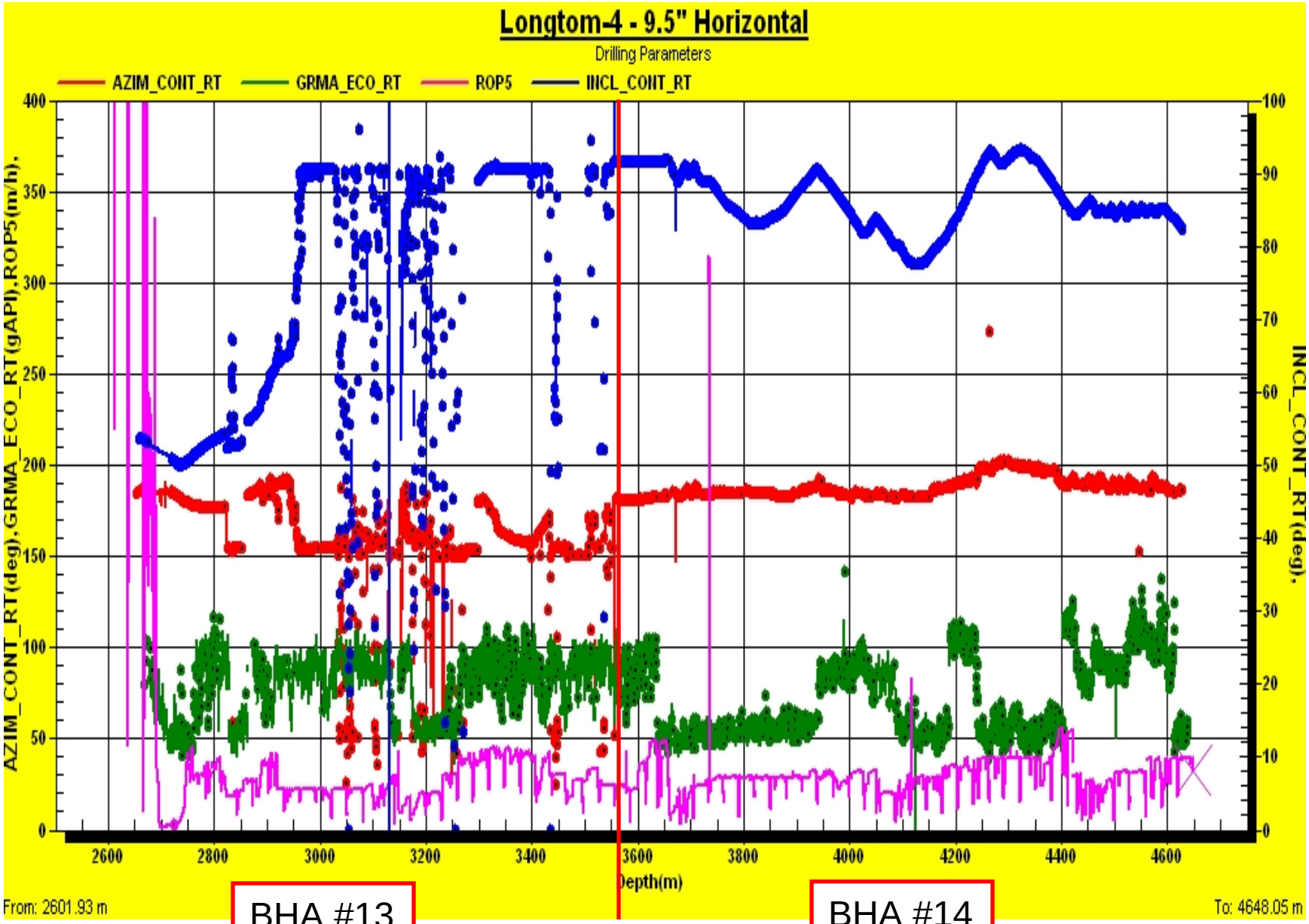
Longtom-4 - 9.5" HZ 3577

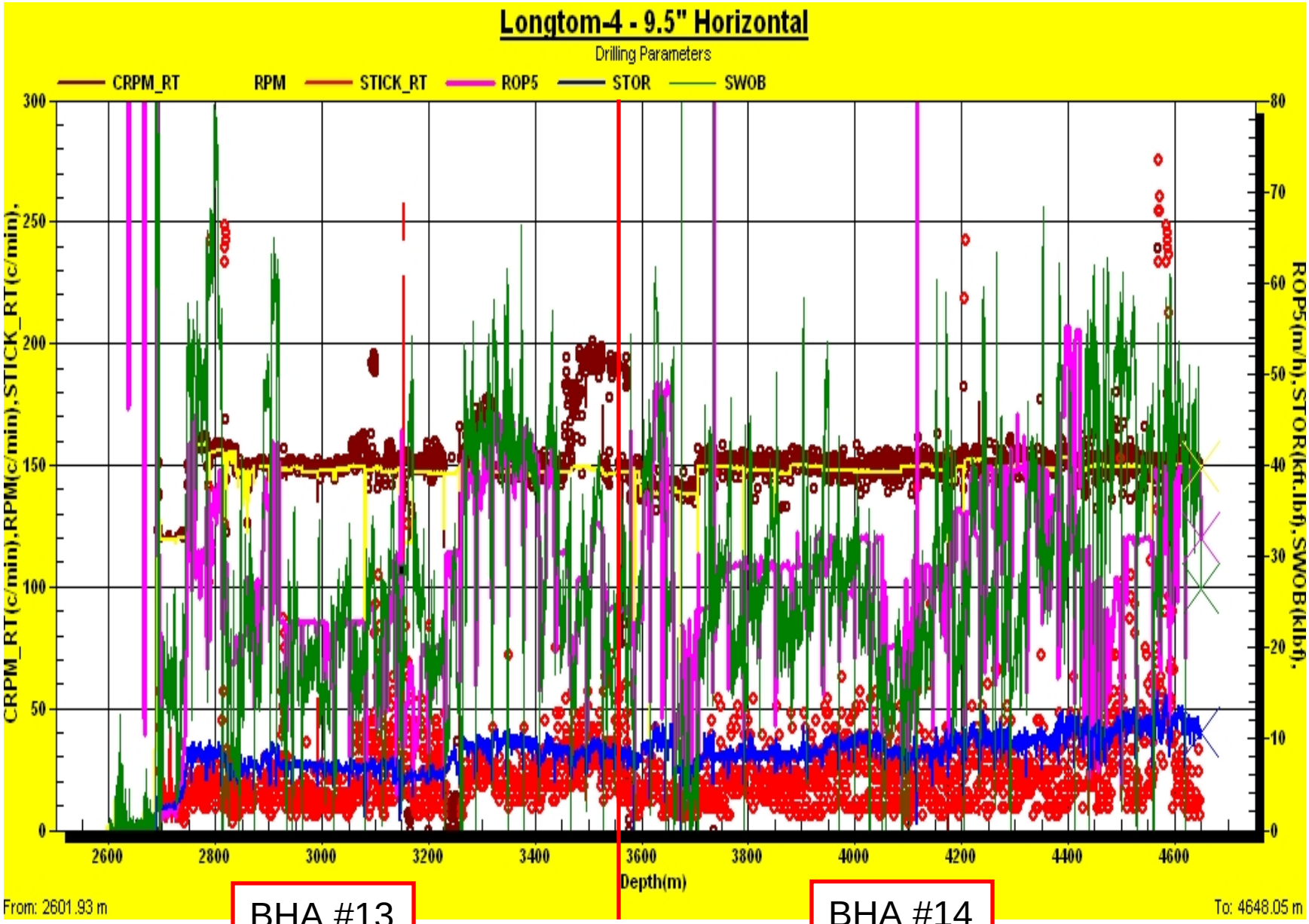
BHA #14

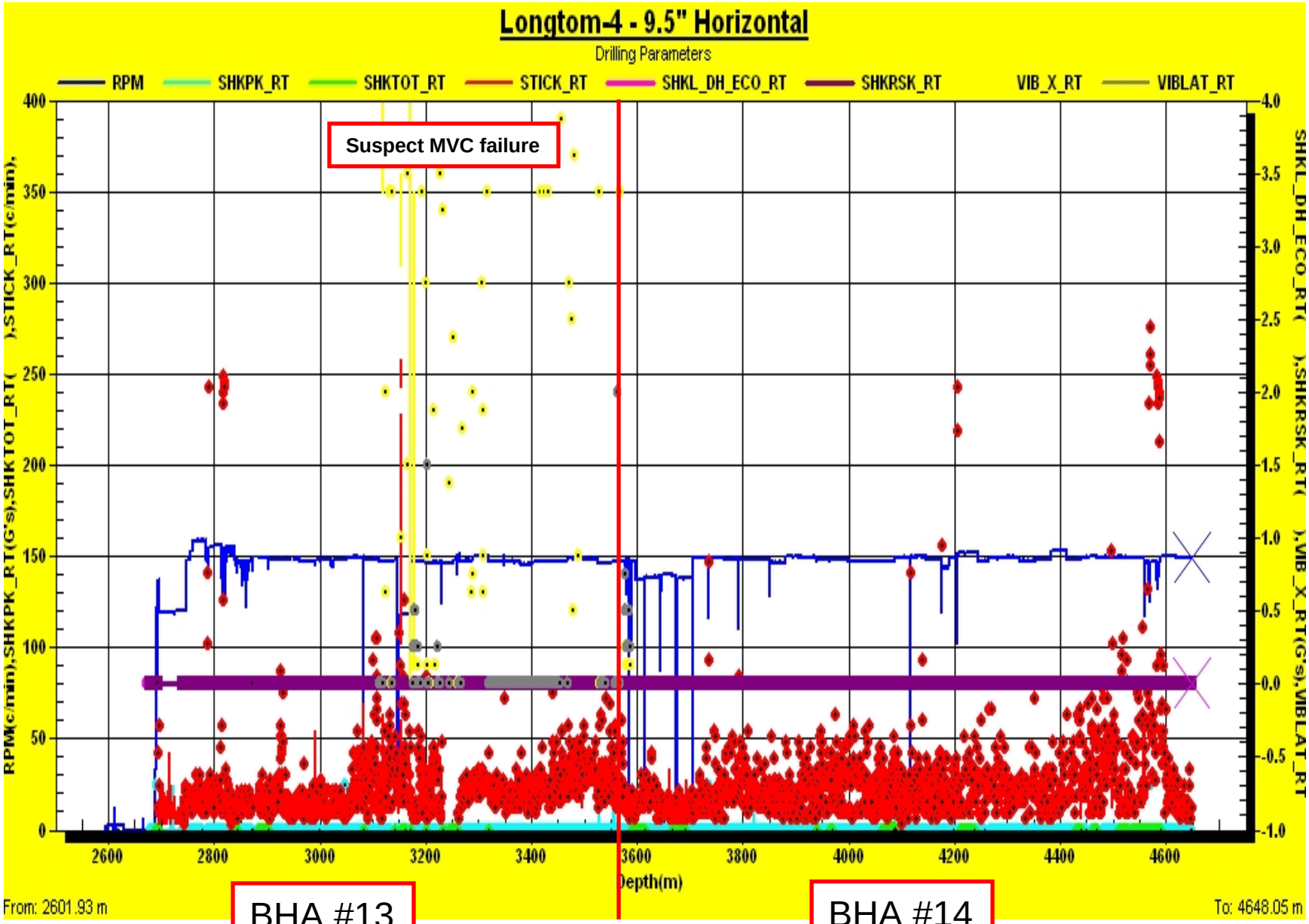


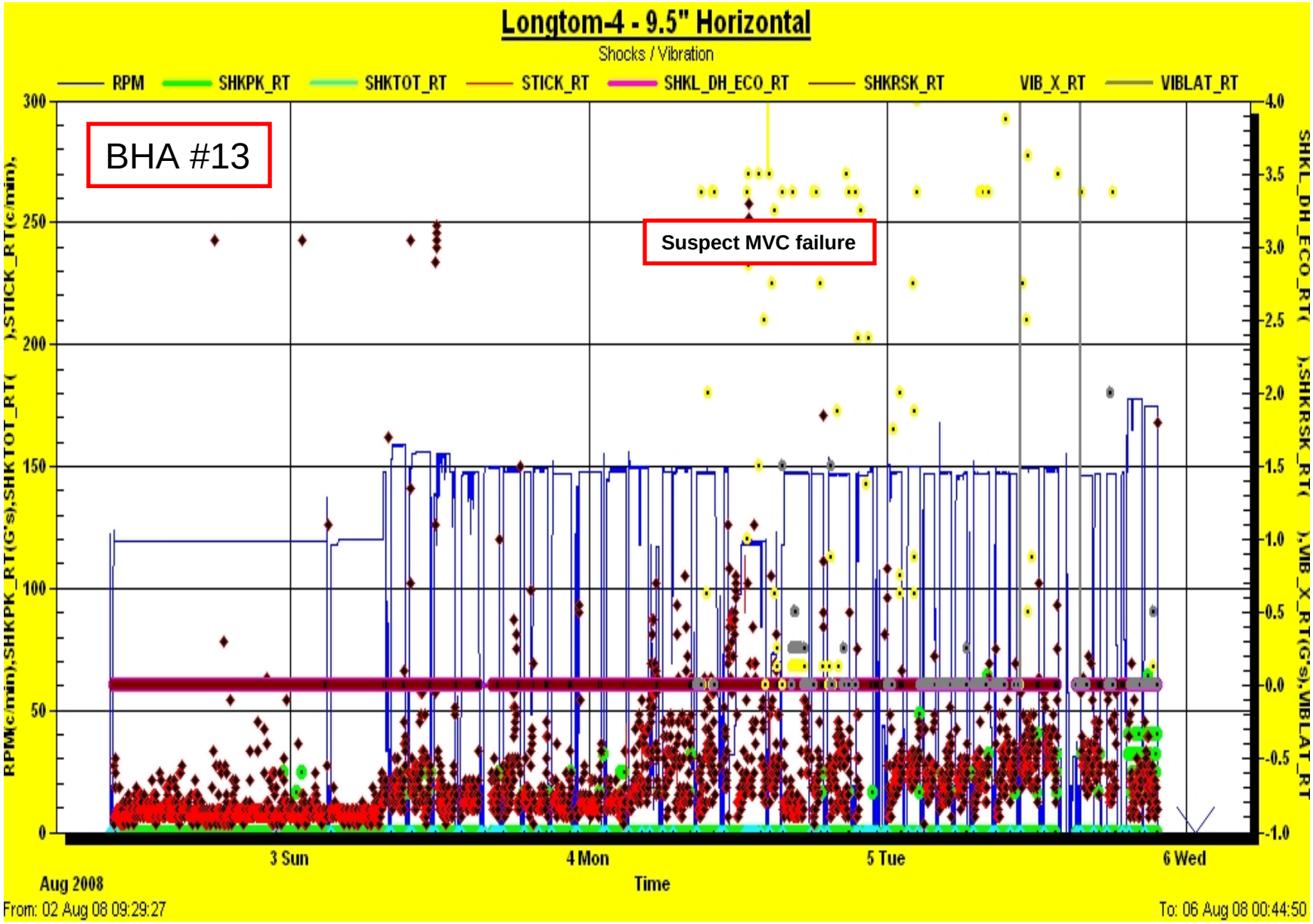
From: 07 Aug 08 02:29:20

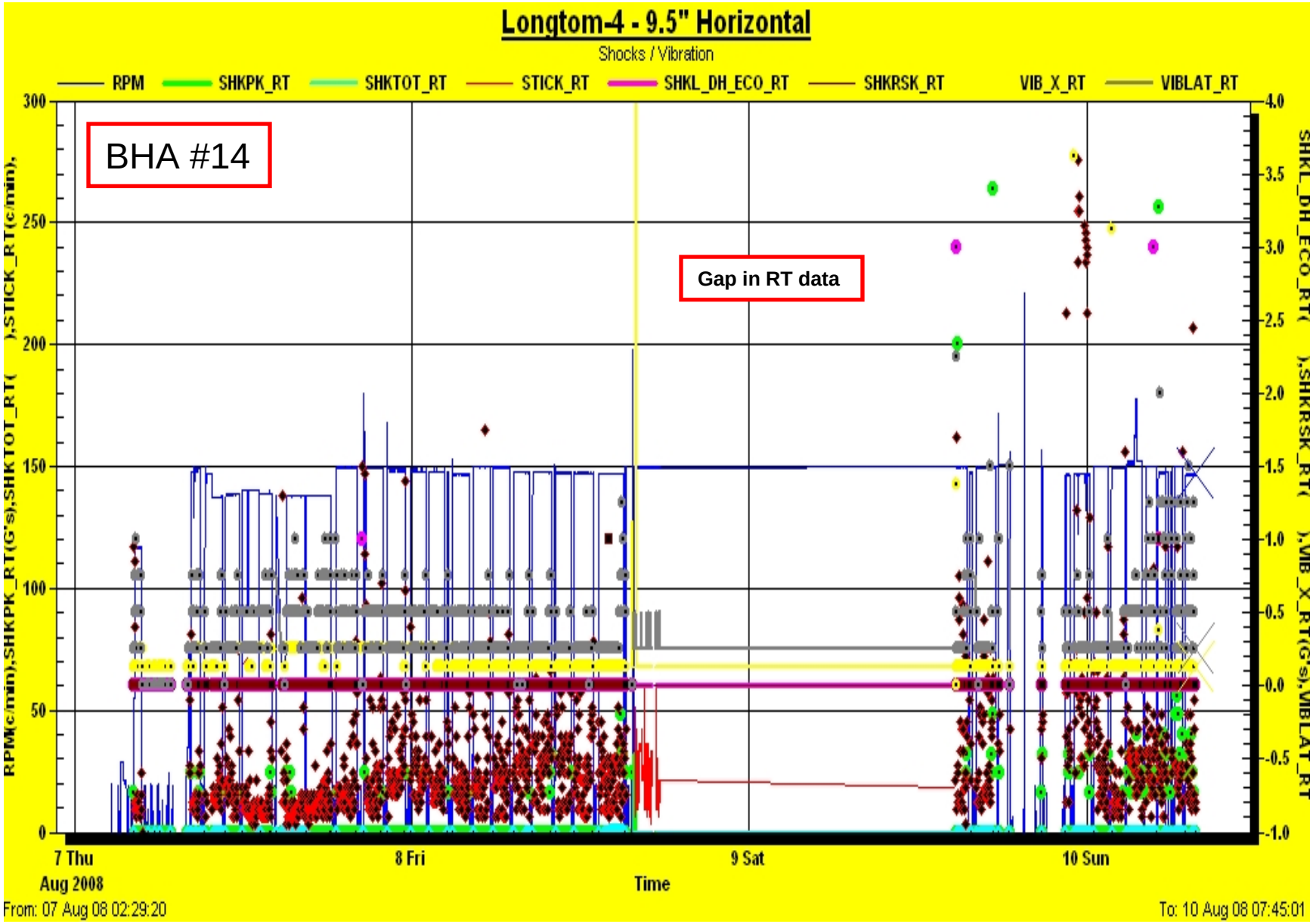
To: 10 Aug 08 07:45:01

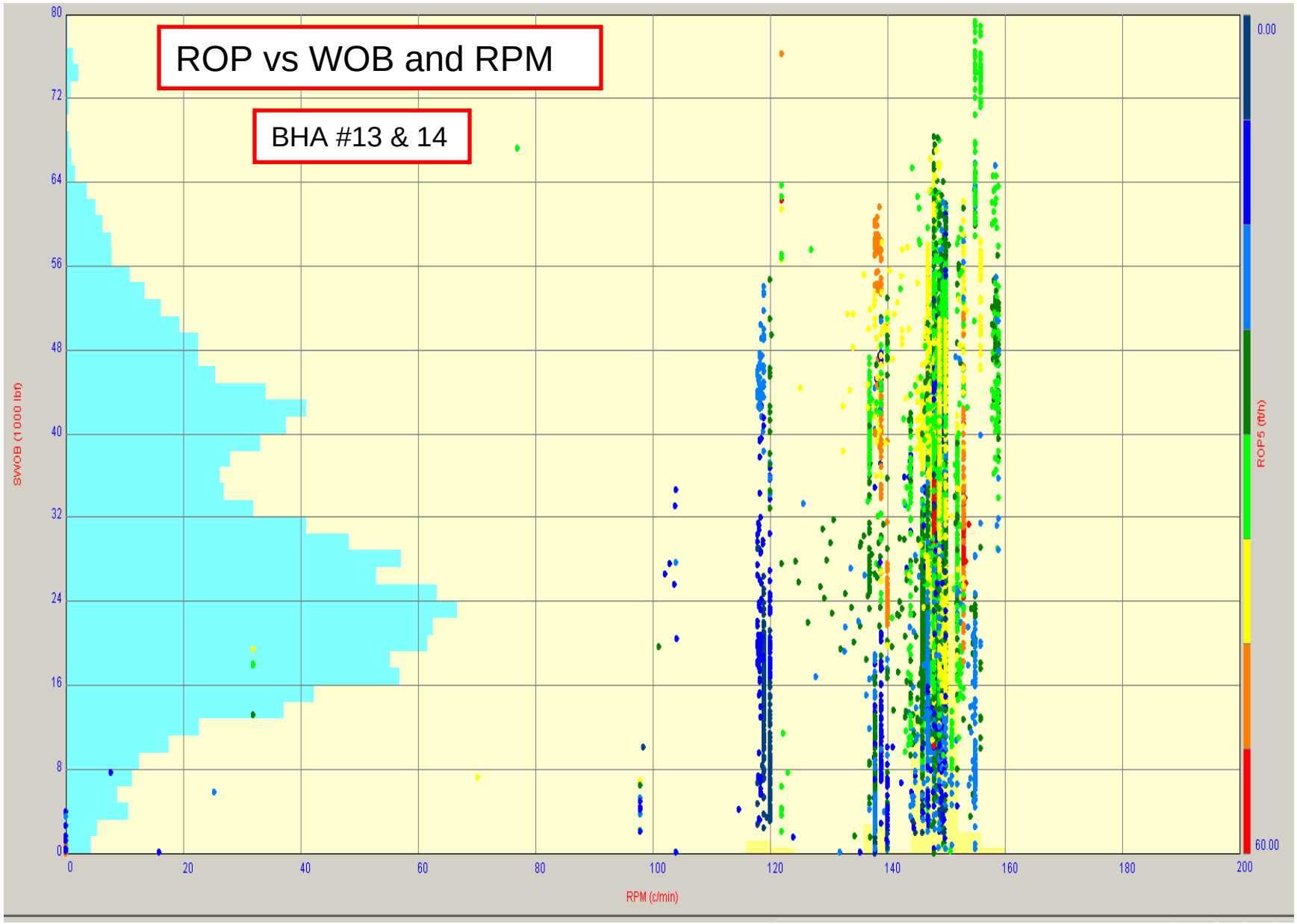

Longtom-4 - 9.5" Horizontal
Drilling Parameters
AZIM_CONT_RT
GRMA_ECO_RT
ROP5
INCL_CONT_RT
AZIM_CONT_RT(deg),GRMA_ECO_RT(gAPI),ROP5(m/h),
INCL_CONT_RT(deg),
Depth(m)
From: 2601.93 m
To: 4648.05 m
BHA #13
BHA #14


Longtom-4 - 9.5" Horizontal
Drilling Parameters
CRPM_RT
RPM
STICK_RT
ROP5
STOR
SWOB
CRPM_RT(c/min),RPM(c/min),STICK_RT(c/min),
ROP5(m/h),STOR(kft.lbf),SWOB(klbf),
Depth(m)
From: 2601.93 m
To: 4648.05 m
BHA #13
BHA #14


Longtom-4 - 9.5" Horizontal
Drilling Parameters
RPM
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
VIB_X_RT
VIBLAT_RT
Suspect MVC failure
RPM(c/min),SHKPK_RT(G's),SHKTOT_RT( ),STICK_RT(c/min),
SHKL_DH_ECO_RT( ),SHKRSK_RT( ),VIB_X_RT(G's),VIBLAT_RT
Depth(m)
From: 2601.93 m
To: 4648.05 m
BHA #13
BHA #14


Longtom-4 - 9.5" Horizontal
Shocks / Vibration
RPM
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
VIB_X_RT
VIBLAT_RT
BHA #13
Suspect MVC failure
RPM(c/min),SHKPK_RT(G's),SHKTOT_RT(
),STICK_RT(c/min),
SHKL_DH_ECO_RT(
),SHKRSK_RT(
),VIB_X_RT(G's),VIBLAT_RT
300
250
200
150
100
50
0
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
3 Sun
4 Mon
5 Tue
6 Wed
Aug 2008
Time
From: 02 Aug 08 09:29:27
To: 06 Aug 08 00:44:50


Longtom-4 - 9.5" Horizontal
Shocks / Vibration
RPM
SHKPK_RT
SHKTOT_RT
STICK_RT
SHKL_DH_ECO_RT
SHKRSK_RT
VIB_X_RT
VIBLAT_RT
BHA #14
Gap in RT data
RPM(c/min),SHKPK_RT(G's),SHKTOT_RT(
),STICK_RT(c/min),
SHKL_DH_ECO_RT(
),SHKRSK_RT(
),VIB_X_RT(G's),VIBLAT_RT
300
250
200
150
100
50
0
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
7 Thu
Aug 2008
8 Fri
9 Sat
10 Sun
Time
From: 07 Aug 08 02:29:20
To: 10 Aug 08 07:45:01

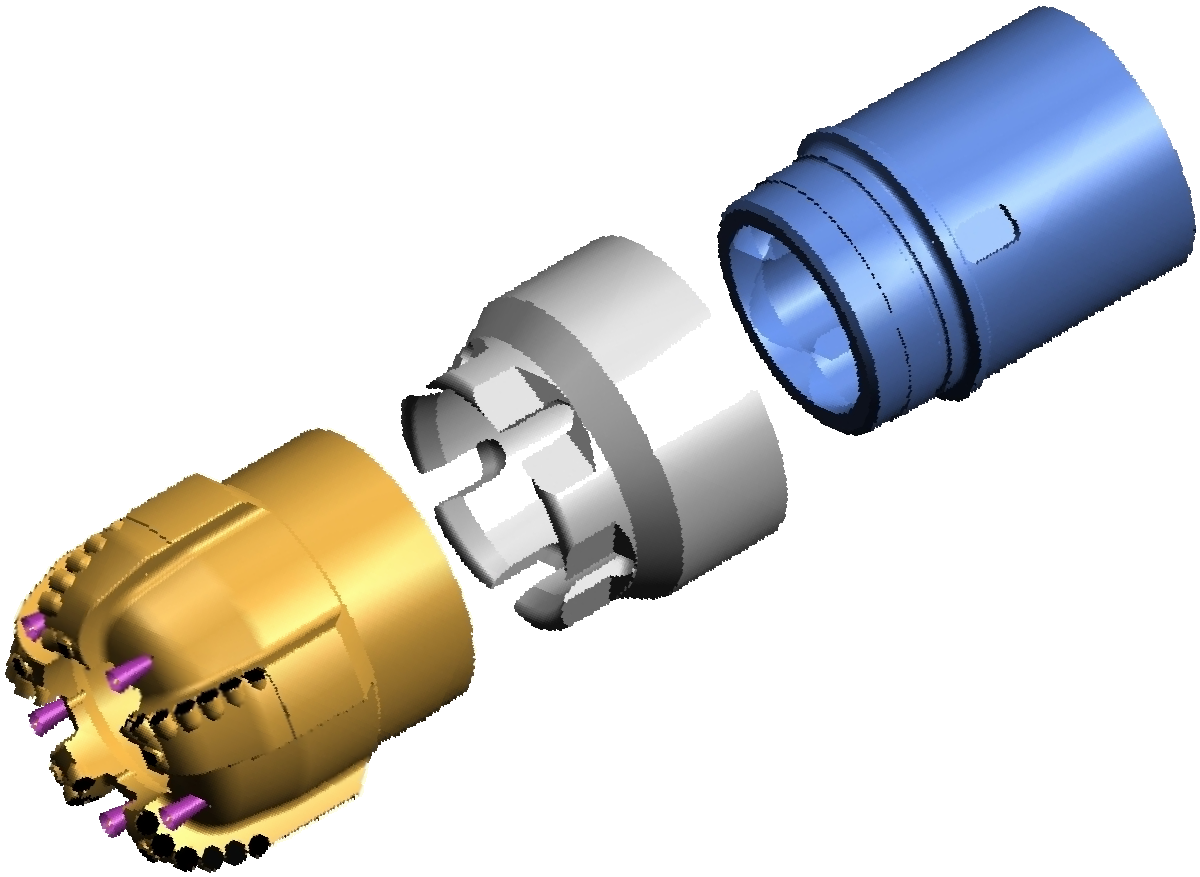

ROP vs WOB and RPM
BHA #13 & 14
SWOB (1000 lbf)
RPM (c/min)
ROP5 (ft/h)
0.00
60.00
0
8
16
24
32
40
48
56
64
72
80
0
20
40
60
80
100
120
140
160
180
200

APPENDIX 11: CORING REPORT

nexus ENERGY

BAKER HUGHES

INTEQ



Longtom - 4

INTEQ Coring Services

256 St. Georges Terrace
Perth, Western Australia, 6000
P.O. Box 7768, Cloisters Square
Perth, Western Australia, 6850

23rd September 2008

Nexus Energy

Dear Sirs,

This End of Well Summary is submitted to you by Baker Hughes INTEQ for the well, Longtom-4. The objective of coring is to confirm and enhance the geological, depositional and geomechanical models. In addition, this data will be used to evaluate reservoir and petrophysical parameters including porosity, permeability, net sand, and net hydrocarbon bearing sand distribution, relative permeability, capillary pressure and rock strength data. The data is required to optimise reservoir volume determination, assess flow unit deliverability and connectivity and optimise development well completion strategies.

All procedures used for making up the coring assembly were performed safely, efficiently, and without incident.

The job was a challenge and Baker Hughes INTEQ appreciates the technical input, support and team approach that Nexus Energy has provided and shared throughout the project. The entire team at Baker Hughes INTEQ looks forward to continuing our positive working relationship with Nexus Energy when the opportunity arises.

With Regards,

Mohammad Noer
Senior Coring Engineer

Nick Spyby
Coring Engineer

Mike Morgan
Asia Pacific Coring Manager

Ross Graham
Coring Services Manager
Baker Hughes INTEQ; Australia

INDEX

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LESSONS LEARNT……**5**

RUN 1……..……..……**6**

HS&E

All coring operations where performed safely and without incident during the Longtom-4 well. This safe working environment was created and facilitated by the safety culture embraced by the Nexus Energy Drilling Team.

While on the West Triton, the crew and available service providers were given a presentation by the INTEQ coring crew covering all aspects of the job, from coring operations to the safe and successful retrieval of the core. A detailed Job Safety Analysis (JSA) was held on the rig floor prior to coring operations.

Man riding was successfully eliminated from the coring program by utilising the laydown cradles on the diagonal through the V-door and not the traditional vertical configuration on the rig floor. This was conducted successfully and proved to be an effective alternative. Core Shuttles run through the mouse hole will also be considered in future jobs.

Non Rotating Inner Tube Stabiliser connection pattern was used throughout and together with the hydraulic type core splitter type of the core separation was used when separating the 9m sections on the rig floor. The separation and laydown procedure was a flawless operation with both the coring personnel and rig crew understanding the roles and safe handling practices at every stage.

The coring crew participated in the *STOP CARD* safety program.

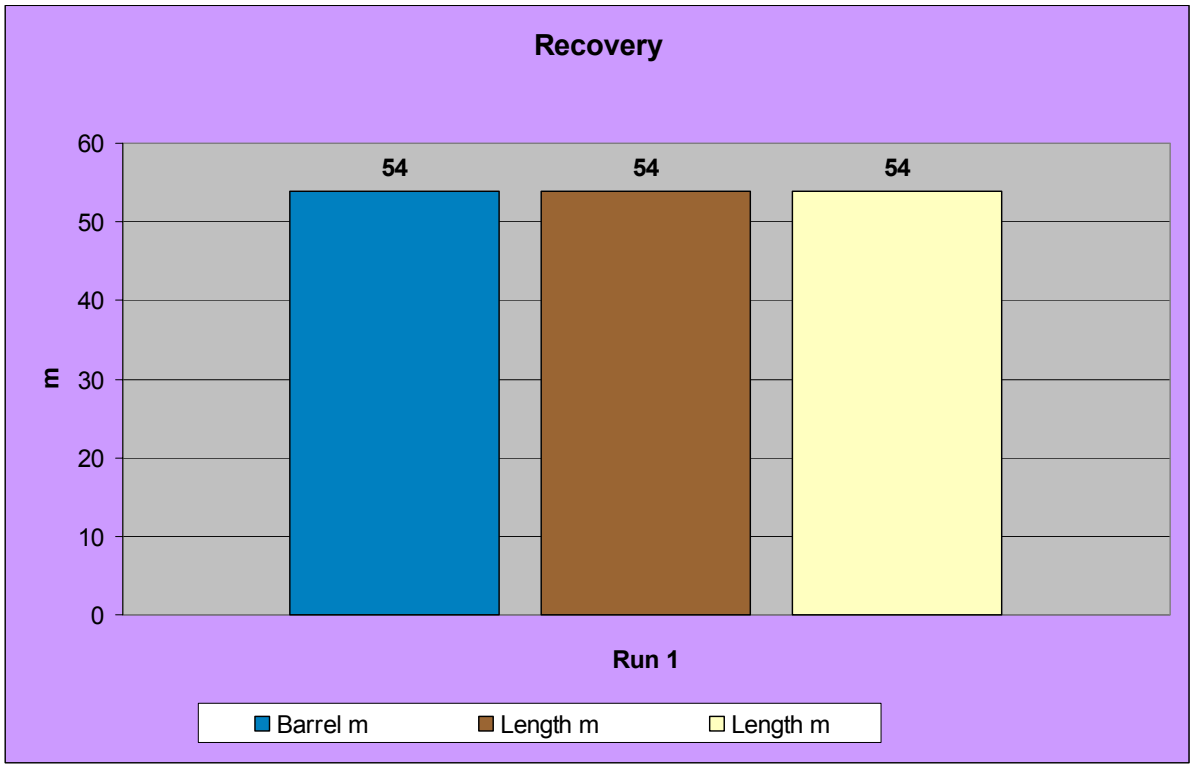
Lessons Leant

The lessons learnt from the Nexus Energy drilling campaign ensured and contributed to the outstanding success of the coring operations for Longtom-4. Examples of such lessons are:

- A more aggressive BHC-406Z 6 bladed core head was used instead of the BHC-409Z 9 bladed core head in response to the formations encountered within this campaign.
- Reviewed laydown procedure of the inner barrels in respect to the rig operations.
- Ensuring that core barrels and their stabilizers arrive to the rig pre-torqued, thus saving time at location.

The close working relationship between Baker Hughes INTEQ and all of Nexus Energy's drilling team was very beneficial to the campaign, and we as Baker Hughes INTEQ are looking forward in providing the coring service for Nexus Energy's future drilling and exploration campaigns.

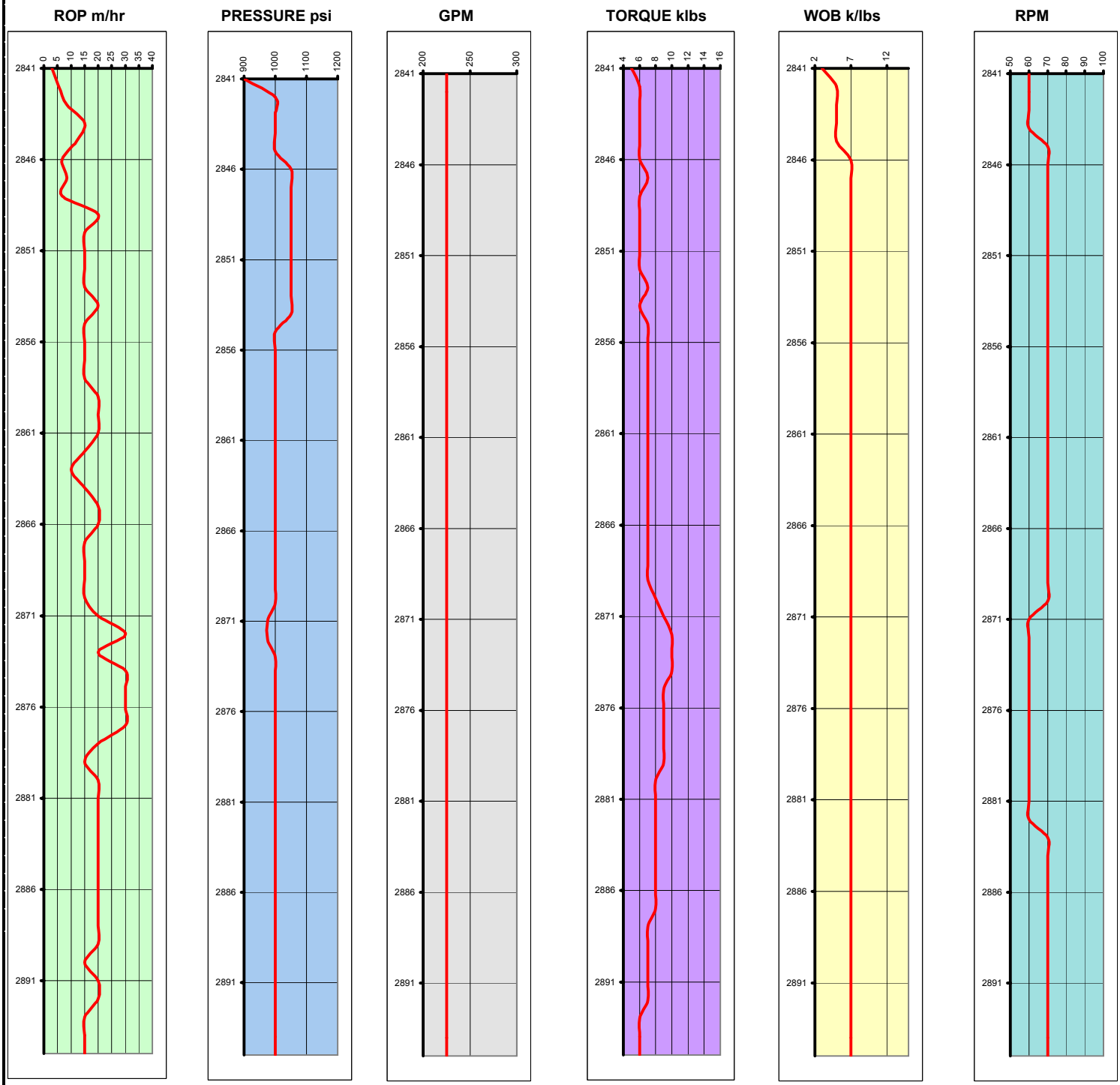
Run 1


Recovery
60
50
40
30
20
10
0
m
54
54
54
Run 1
Barrel m
Length m
Length m

CORELOG

WELL INFORMATION				EQUIPMENT		PERFORMANCE		
Company	Nexus Australia			Core BBL Type & NO:	HT-30 BHI-3352	Core no:	1	
Contractor	Seadrill , Rig - West Triton			Core BBL Size & length	6 3/4 x 3 1/2 x 63 m	Interval Cored-I Finish	2,895.0	Mtr
Well Name	Longtom - 4			I.T. Type	Aluminium	Start	2,841.0	Mtr
Well No.	#4			Stab. Size	8 7/16"	Amount Cored	54.00	Mtr
Field	Bass Strait			L. Shoe & Catcher	Coregard & Spring Catcher	Core Recovery	54.00	Mtr
State	Victoria			Bit Style & Size	BHC-406 8 1/2 x 3 1/2"	% Recovery	100.0%	%
Country	Australia			Bit ser #	7212164	Coring Hours	3.80	Hrs.
Hole Size	8.5"			TFA	0.75 sq.in	ROP	14.21	Mtr/hr
Hole Angle	47 Deg			IADC Dull Grade-Start	New	Reaming	0.00	Hrs.
Formation	Admiral			IADC Dull Grade- Finish	1-1-NO-A-X-IN-NO-TD	CoMan Name	B. Opensaw /R. Rossouw	
Lithology	Sand-Shale			SPP on/off bottom	900-1050 Psi	Service Engineer Name	M.Noer / Nick Spyby	
Mud Type	ACCOLADE -OBM			Liner Size	6.5"' x 14"'	Date	27 July 2008	
WT 1	12 ppg	PV	44	SPM	38	District	Victoria	
WL		YP	37	GPM	225	Job NO:		
VIS	56	PH	9.2					

OPERATING PARAMETERS



Nexus Australia

Longtom-4 *Date* **27/07/08**

CORE #1

COUNT	ACTUAL CORED	TIME	MIN	ROP	WOB	RPM	TORQUE	GPM	PRESSURE	CORE INTERVAL
0	2841.0	0220	0	3.00	3	60	5	225	900	2,841.00
1	2842.0	0231	11	5.45	5	60	6	225	1,000	2842.00
2	2843.0	0238	7	8.57	5	60	6	225	1,000	2843.00
3	2844.0	0242	4	15.00	5	60	6	225	1,000	2844.00
4	2845.0	0247	5	12.00	5	70	6	225	1,000	2845.00
5	2846.0	0256	9	6.67	7	70	6	225	1,050	2846.00
6	2847.0	0303	7	8.57	7	70	7	225	1,050	2847.00
7	2848.0	0312	9	6.67	7	70	6	225	1,050	2848.00
8	2849.0	0315	3	20.00	7	70	6	225	1,050	2849.00
9	2850.0	0319	4	15.00	7	70	6	225	1,050	2850.00
10	2851.0	0323	4	15.00	7	70	6	225	1,050	2851.00
11	2852.0	0327	4	15.00	7	70	6	225	1,050	2852.00
12	2853.0	0331	4	15.00	7	70	7	225	1,050	2853.00
13	2854.0	0334	3	20.00	7	70	6	225	1,050	2854.00
14	2855.0	0338	4	15.00	7	70	7	225	1,000	2855.00
15	2856.0	0342	4	15.00	7	70	7	225	1,000	2856.00
16	2857.0	0346	4	15.00	7	70	7	225	1,000	2857.00
17	2858.0	0350	4	15.00	7	70	7	225	1,000	2858.00
18	2859.0	0353	3	20.00	7	70	7	225	1,000	2859.00
19	2860.0	0356	3	20.00	7	70	7	225	1,000	2860.00
20	2861.0	0359	3	20.00	7	70	7	225	1,000	2861.00
21	2862.0	0403	4	15.00	7	70	7	225	1,000	2862.00
22	2863.0	0409	6	10.00	7	70	7	225	1,000	2863.00
23	2864.0	0413	4	15.00	7	70	7	225	1,000	2864.00
24	2865.0	0416	3	20.00	7	70	7	225	1,000	2865.00
25	2866.0	0419	3	20.00	7	70	7	225	1,000	2866.00
26	2867.0	0423	4	15.00	7	70	7	225	1,000	2867.00
27	2868.0	0427	4	15.00	7	70	7	225	1,000	2868.00
28	2869.0	0431	4	15.00	7	70	7	225	1,000	2869.00
29	2870.0	0448	4	15.00	7	70	8	225	1,000	2870.00
30	2871.0	0451	3	20.00	7	60	9	225	975	2871.00
31	2872.0	0453	2	30.00	7	60	10	225	975	2872.00
32	2873.0	0456	3	20.00	7	60	10	225	1,000	2873.00
33	2874.0	0458	2	30.00	7	60	10	225	1,000	2874.00
34	2875.0	0500	2	30.00	7	60	9	225	1,000	2875.00
35	2876.0	0502	2	30.00	7	60	9	225	1,000	2876.00
36	2877.0	0504	2	30.00	7	60	9	225	1,000	2877.00
37	2878.0	0507	3	20.00	7	60	9	225	1,000	2878.00
38	2879.0	0511	4	15.00	7	60	9	225	1,000	2879.00
39	2880.0	0514	3	20.00	7	60	8	225	1,000	2880.00
40	2881.0	0517	3	20.00	7	60	8	225	1,000	2881.00
41	2882.0	0520	3	20.00	7	60	8	225	1,000	2882.00
42	2883.0	0523	3	20.00	7	70	8	225	1,000	2883.00
43	2884.0	0526	3	20.00	7	70	8	225	1,000	2884.00
44	2885.0	0529	3	20.00	7	70	8	225	1,000	2885.00
45	2886.0	0532	3	20.00	7	70	8	225	1,000	2886.00

Nexus Australia

Longtom-4 ***Date*** **27/07/08**

CORE #1

COUNT	ACTUAL CORED	TIME	MIN	ROP	WOB	RPM	TORQUE	GPM	PRESSURE	CORE INTERVAL
46	2887.0	0535	3	20.00	7	70	8	225	1,000	2887.00
47	2888.0	0538	3	20.00	7	70	7	225	1,000	2888.00
48	2889.0	0541	3	20.00	7	70	7	225	1,000	2889.00
49	2890.0	0545	4	15.00	7	70	7	225	1,000	2890.00
50	2891.0	0548	3	20.00	7	70	7	225	1,000	2891.00
51	2892.0	0551	3	20.00	7	70	7	225	1,000	2892.00
52	2893.0	0555	4	15.00	7	70	6	225	1,000	2893.00
53	2894.0	0559	4	15.00	7	70	6	225	1,000	2894.00
54	2895.0	0603	4	15.00	7	70	6	225	1,000	2895.00

CORE SUMMARY REPORT

JOB NUMBER

DATE 27 July 2008

WELL INFORMATION

COMPANY	Nexus Australia	WELL NAME	Longtom - 4	HOLE SIZE (INS)	9.5"
PROVINCE	Victoria	WELL LOCATION	Bass Strait	HOLE ANGLE	47 Deg
CORE DEPTH	2895.00	FIELD	Victoria	COMPANY REP	0
FORMATION	Admiral	CONTRACTOR	Seadrill , Rig - West Triton	SERVICE REP	M.Noer / Nick Spyby
LITHOLOGY	Sand-Shale	RIG NUMBER	0	DISTRICT	Victoria

BIT INFORMATION

NO.	STYLE	SIZE	SERIAL NO.	CONDITION BEFORE	CONDITION AFTER	T.F.A.
1	BHC 406	8 1/2	7212164	NEW	1-1-N0-A-X-1-NO-TD	0.75
2						

BARREL INFORMATION

BBL. TYPE	HT-30	INNER TUBE TYPE	3 1/2	PLASTIC/ALUMINUM LEFT	N/A
BBL. SIZE	6 3/4	INNER STAB.	Yes	JAR MAKE	Rig's
BBL. SERIAL NO.	0	L.SHOE&CATCHER	JAM BUSTER	JAR SERIAL NO.	Rig's
STAB. SIZE	8 7/16"	JAM INDICATOR	NO		

MUD DATA

PUMP MAKE	National Oilwell	MUD TYPE	ACCOLADE -OBM	% SAND	0.35
MODEL	12-P-160	MUD WEIGHT	12 ppg	YP	31
STROKE LENGTH	12 "	VISCOSITY	56	% OIL	80
LINER SIZE	6.5"' x 14"'	WATER LOSS	0	%SOLIDS	4.30
PUMP DISP(Gal/Stk)	4.27	PH	9.2		
FLOW RATE	250	PV	44		

TIME 24 HRS	26/07/2008	27/07/2008		27/07/2008	27/07/2008		
OPERATION	PICK UP BBL	START IN HOLE	DROP BALL	CORING	CIRCULATING	POOH SERVICE BBL	LAY DOWN
START (HRS)	1430	1815	0148	0220	0	0615	1530
STOP (HRS)	1800	0145	0212	0608	0	1530	1930
INTERVAL (HRS)	3 HR 30 MINS	7 HRS 30 MINS	24 Mins	3 HRS 42 MINS	0	9 HRS 15 MINS	4HR 0 MIN

BACKGROUND PARAMETERS

STRING WTS		TORQUE (OFF BOTT)		SLOW PUMP RATE		BALL SEAT PRESS INC		OFF & ON BOT PRESS.BALL SEATED	
	260 K/LBS	60 RPM	4500 ft-lbs	20 STKS	500 PSI	FLOW RATE	200 GPM	BOT HOLE TEMP	90 Deg C
	232 K/LBS	80 RPM		30 STKS	600 PSI	BEFORE	400 PSI	OFF BOTTOM	900 PSI
	208 K/LBS	100 RPM		40 STKS	900 PSI	AFTER	750 PSI	ON BOTTOM	1000 PSI

CORE RECOVERY DETAILS

METERS CORED:	54.00	METERS REC:	54.00	RECOVERY	100.00%
CORING HRS :	3.80	TIME REAMING	0.00	AVE. ROP(m/hr)	14.21

REMARKS: (CORE SUMMARY)

26/07/2008

At 14:00 hrs a JSA was held to discuss safe handling and making up of the core barrel assembly ("CBA").
At 14:30 hrs both BHI and rig crew personnel made up a BHC 406 core bit to the 63M CBA.
At 18:00 hrs the CBA was spaced out, leaving the remainder of the BHA to be RIH.
It must be noted that the assembly of the CBA was completed in 3.5 hrs , this was only achieved with excellent teamwork by both the drill and deck crews on the West Triton.

27/07/2008

The assembly was run RIH and the last stand washed down, tagged bottom at 01.45 hrs. SCR's were taken and off bottom coring parameters were recorded. The cutting of the core then commenced a 02.20 hrs with parameters of RPM 60, Flow rate 225, WOB 3 to 5 , then after few meters core cut parameters was graduately increase to 70 rpm and 7k WOB.
Coring went very well , Cut 54 meters in 3.8 hrs Evg ROP 14.21 mtr/hr
POOH to recover the core , Recovered 54 mtr / 100 %.

Core Barrel Assembly Diagram

Job Information	
Company:	SEA DRILL
Contractor:	Nexus
Rig Name:	West Triton
Well Name:	Longtom-4
Date:	25.July 2008
Core Number:	1

Core Barrel Information		
Style:	HT-30	
Size:	6 3/4"x 3 1/2	
Length:	63.00	*Mtrs*
*Max Core Length:**	63.00	*mtrs*
Weight:	9.800	*Lbs*
Operating Parameters		
M/U Torque:	30,000	*Ft/lbs*
Yield Torque:	60,000	*Ft/lbs*
Max. Pull:	590,000	*Lbs*
Max. WOB	23,000	*Lbs*
Rotary:	60 - 120	*RPM*
Flow Rate:	200-250	*Gpm*

Comments:

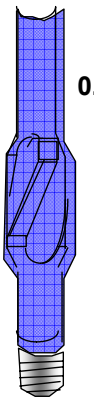
M/U Torque: 30,000 FT.LBS
M/U Torque: 28,000 FT/LBS - 4 1/2" IF
Max Flow: 375 GPM

Core Bit Information	
Bit Style:	BHC-406
Bit Mftr:	Hughes Christensen
TFA:	1.08
Size:	8 1/2"x 3.5"
Blades:	6
Cutters:	PDC
Cutter Size:	13 MM

Core Bit Photo

BHC - 406
8 1/2" x 6 3/4" x 3.5"

Stabilizer



Outer Components		Inner Components	
0.71	Top Sub		Top Sub
1.22	Stabilizer	1.57	L/D -Swivel
1.14	L/D Housing	0.91	IT Extension
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
7.92	Outer Tube		
		0.30	Stabilizer
1.22	Stabilizer		
		8.84	A.L.Inner tube
0.43	Bit	0.25	Pilot Shoe
67.48		66.41	

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BOTTOM HOLE ASSEMBLY

Company	:	Nexus	Date Run	**: 26 July 2008**	
Well Name & No.	:	Longtom-4	Depth In	**: 2841**	M.
Field	:	Bass Strait- Australia	Depth Out	**:2895**	M.
Rig Contractor&No.	:	Seadrill / West Triton	Core #	**: 1**	
Objective For Running BHA:		To Cut 54 m (3 -1/2") Core			

Bit Mgf:	HTC	***Core Bbl. S/N***	**S - 204**
Bit Type:	BHC - 406		
Bit S/N	7212164	**CBBL Weight :**	**9.800 Lbs**
TFA:	0.75		

Item	Description	Vendor	Serial No.	OD	ID	Top Connection (Box)	Bottom Connection (Pin)	Fishing Neck	Length	Total Length
1	Core Bit - BHC - 406	HTC	7212164	8 1/2"	3 1/2"	HT-30	NA	0.24	0.43	0.43
2	Stabilizer	BHI	STHT-601	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	1.65
3	Outer Tube	BHI	EXT-44	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	9.57
4	Stabilizer	BHI	OTS-225 A	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	10.79
5	Outer Tube	BHI	EXT-59	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	18.71
6	Stabilizer	BHI	176200707	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	19.93
7	Outer Tube	BHI	174270717	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	27.85
8	Stabilizer	BHI	140264	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	29.07
9	Outer Tube	BHI	HT-3003	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	36.99
10	Stabilizer	BHI	OTS-217	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	38.21
11	Outer Tube	BHI	EXT-63	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	46.13
12	Stabilizer	BHI	MER-807	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	47.35
13	Outer Tube	BHI	OTS-1731	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	55.27
14	Stabilizer	BHI	176200701	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	56.49
15	Outer Tube	BHI	EXT-3009	6 3/4"	5 3/8"	HT-30	HT-30	NA	7.92	64.41
16	L/D Housing	BHI	LDA-003	6 3/4"	5 3/8"	HT-30	HT-30	NA	1.14	65.55
17	Stabilizer	BHI	H-02	8 7/16"	5 3/8"	HT-30	HT-30	0.73	1.22	66.77
18	Top Sub	BHI	S-204	6 3/4"	2 1/4"	4 1/2" IF	HT-30	NA	0.71	67.48
20	Float sub	BHI	10175276	6 3/4"	2 3/4"	4 1/2" IF	4 1/2" IF	NA	0.84	68.32
21	Circ Sub	BHI	BHI-0945	6 3/4"	2 3/4"	4 1/2" IF	4 1/2" IF	NA	0.57	68.89
21	6 x D.C	RIG		6 1/2"	2 13/16"	4 1/2"IF	4 1/2"IF		56.06	124.95
22	Cross Over	RIG	560-2	7"	2 3/4"	XT-57	4 1/2"IF	slick	0.49	125.44
23	6 x HWDP	RIG		5 1/2 "	3 1/4"	XT-57	XT-57	0.52	56.36	181.80
24	Cross Over	RIG	11323-1	7"	2 1/2"	4 1/2" IF	XT-57	slick	0.91	182.71
25	Jars	RIG	14161588	6 1/2"	2 3/4"	4 1/2" IF	4 1/2" IF	0.40	9.73	192.44
26	Cross Over	RIG		7"	2 7/8"	XT-57	4 1/2" IF	Slick	1.22	193.66
27	12 x HWDP	RIG		5 1/2 "	3 1/4"	XT-57	XT-57	0.52	112.63	306.29

Wt below Jars in Air	**: 38.000 Lbs**
Wt below Jars in Mud	**: 30.000 Lbs**
Total wt of BHA in Air	**: 52.000 Lbs**

APPENDIX 12: PALYNOLOGY REPORT

BASIC DATA.
Palynological analysis of sidewall core samples from Longtom-4, offshore Gippsland Basin.

by

Alan D. Partridge

Biostrata Pty Ltd
A.B.N. 39 053 800 945

Biostrata Report 2009/04B

2nd March 2009

BASIC DATA.
Palynological analysis of sidewall core samples from Longtom-4, offshore Gippsland Basin.

by Alan D. Partridge

Introduction

Fifty-two sidewall core samples have been analysed from the Longtom-4 well drilled by Nexus Energy in the Production Licence VIC/L29 (formerly part of permit VIC/P54) in the offshore Gippsland Basin. The objective of the study is to provide palynological age dating of the Latrobe Group.

Materials and Methods: The samples analysed were selected and processed in two batches. The first eight samples processed were located to obtain an initial biostratigraphic subdivision of the Latrobe Group. These were prepared by Core Laboratories Australia Ltd using their standard procedure in which the initial dissolution of the samples in hydrofluoric acid is followed by density separation using a zinc bromide heavy-liquid solution to separate the organic fraction of the residues from remaining undissolved mineral matter. This step was then followed by preparation of one kerogen slide per sample and the oxidation of the recovered organic-residues. Unfortunately, most of these initial samples gave disappointingly low yields, and as a consequence the remaining 44 samples were processed using a modification of the standard procedure whereby the dispersed organic-matter and undissolved mineral matter remaining after the initial acid dissolution were oxidised with nitric acid **before** the density separation using the zinc bromide solution. This modification of the processing stream overall gave more consistent and higher recoveries of organic residues and higher concentrations of the palynomorphs on the slides.

The microscope analysis consisted of an initial count of approximately 150 palynomorphs to determine the proportion of spores and pollen to all types of organic-walled microplankton, as well as the relative proportions of spores, gymnosperm pollen and angiosperm pollen, within this count. Once this initial count was completed the slides were further scanned to record any rare species not observed in the initial count. For low yielding samples all the specimens on the palynological slides were counted.

Results: The basic sample and processing data comprising the cuttings lithologies, sample weights and residue yields (where recorded) are provided on Table 1, while the basic palynomorph assemblage data consisting of the visual organic-residues yields, the palynomorph concentrations on the slides, the state of palynomorph preservation, and the number of species of spore-pollen and microplankton recorded from individual samples are provided in Table 2. The distribution of all species identified are plotted on the accompanying StrataBugs™ range charts.

An average of 8 grams of sample per sidewall core was processed to give organic-residue yields varying from barren to high, although the majority were low to very low (70%), while the concentration of the palynomorphs on the slides is about equally split between very-low to low and moderate to high. In general, the higher yielding samples contain the higher concentrations of palynomorphs, but this is not always the case. The preservation of the palynomorphs range from poor to good, but overall is poor. Across all samples the diversity of spores and pollen was low to moderate averaging 15 species per sample, while the diversity of microplankton recorded was consistently low averaging only 2 species per sample in the microplankton productive samples.

Description of Range Chart: The palynomorphs identified in the samples are documented on the accompanying StrataBugs™ range charts which display the recorded palynomorph species in the sidewall cores proportional to their sample depths, and in terms of either their absolute abundance (ie. histograms) or as raw counts. The palynomorphs recorded are also split between different groups. The first panel on the charts is for the categories of S-P (Spore-Pollen). This is for the sum of all angiosperm-pollen, gymnosperm-pollen, and spores in the initial count. The next three panels labelled Spores, Gymnosperms and Angiosperms display the final counts of the individual species within these three categories. The following panel for Microplankton Categories (MPs) displays the count sums of selected groups of organic-walled microplankton groups. The individual species of organic-walled microplankton are then displayed in the next panel labelled Microplankton Species. The final two panels are for all Other Palynomorph types and Reworked (or RW) Permian, Triassic and Jurassic species recorded in the assemblages. The following codes or abbreviations apply to the individual species occurrences and abundances on the range chart:

Numbers	=	Absolute abundances (number of specimens counted)
+	=	Species outside of count
C	=	Caved species
R	=	Reworked species
?	=	Questionable identification of species.

Author citations for most of the recorded spore-pollen species can be sourced from the papers by Dettmann (1963, 1986), Helby *et al.* (1987), and Stover & Partridge (1973) while the author citations for the microplankton species can be sourced from the indexes for dinocysts and other organic-walled microplankton prepared by Fensome *et al.* (1990) and Williams *et al.* (1998). Manuscript species names and combinations are indicated by “sp. nov.” or “comb. nov.” on the range charts.

References

DETTMANN, M.E., 1963. Upper Mesozoic microfloras from southeastern Australia. *Proceedings Royal Society Victoria, vol.77*, pt.1, p.1-148.

DETTMANN, M.E., 1986. Early Cretaceous palynofora of subsurface strata correlative with the Koonwarra Fossil Bed, Victoria. *Association of Australasian Palaeontologists Memoir 3*, p.79-110.

FENSOME, R.A., WILLIAMS, G.L., BARSS, M.S., FREEMAN, J.M. & HILL, J.M., 1990. Acritarchs and fossil Prasinophytes: An index to genera, species and infraspecific taxa. *American Association Stratigraphic Palynologists Contribution Series No. 25,* p.1-771.

HELBY, R., MORGAN, R. & PARTRIDGE, A.D., 1987. A palynological zonation of the Australian Mesozoic. **In** *Studies in Australian Mesozoic Palynology*, P.A. Jell, editor, *Memoir Association Australasian Palaeontologists 4,* p.1-94.

STOVER, L.E. & PARTRIDGE, A.D., 1973. Tertiary and late Cretaceous spores and pollen from the Gippsland Basin, southeastern Australia. *Proceedings Royal Society of Victoria, vol.85,* pt.2, p.237-286.

WILLIAMS, G.L., LENTIN, J.K. & FENSOME, R.A., 1998. The Lentin and Williams index of fossil dinoflagellates 1998 edition. *American Association of Stratigraphic Palynologists, Contributions Series, no. 34,* p.1-817.

Table 1. Basic sample data for Longtom-4, offshore Gippsland Basin.

Sample Type	Depth metres	Dominant Lithology (based on hand-specimen examination)	Weight grams	Sample VOM	Sample Yield
SWC 60	1285.5m	Siltstone light-medium grey, non-calcareous, carbonaceous-flecks	8.9	0.1	0.011
SWC-59	1294.5m	Claystone medium grey to dark olive grey	6.5		
SWC-58	1494.5m	Mudstone dark grey to black	7.7		
SWC 57	1565m	Sandstone light to medium grey mottled	6.3	0.1	0.016
SWC 47	1734m	Siltstone light grey, carbonaceous	6.9	0.1	0.015
SWC-46	1761m	Siltstone light-grey, coaly flecks	6.8		
SWC-45	1762m	Siltstone dark-grey 80%, Sandstone 20%	9.0		
SWC-44	1776m	Siltstone medium grey, homogeneous	8.2		
SWC-43	1793m	Siltstone	7.2		
SWC-42	1847m	Siltstone	7.9		
SWC-41	1985m	Siltstone	9.1		
SWC 40	2042.5m	Claystone dark grey	7.7	0.2	0.026
SWC-38	2112m	Claystone	9.3		
SWC-37	2189m	Silty Claystone	6.0		
SWC 36	2232.5m	Claystone medium grey	7.1	0.3	0.043
SWC-35	2304m	Claystone dark grey to greenish black	8.2		
SWC-29	2411m	Claystone dark grey (mud impregnated)	9.1		
SWC-31	2443m	Claystone	8.1		
SWC-27	2453m	Claystone dark grey, fractured	11.1		
SWC 26	2472m	Claystone dark grey (mud impregnated)	6.3	0.5	0.079
SWC-25	2493m	Claystone dark grey, fractured	7.6		
SWC-20	2518m	Claystone	10.8		
SWC-18	2540m	Claystone	9.0		
SWC-15	2557.5m	Claystone	10.9		
SWC-13	2565m	Claystone	12.6		
SWC-10	2570m	Claystone	13.0		
SWC-8	2575m	Claystone	16.1		
SWC-6	2582.5m	Claystone	13.2		
SWC-4	2590m	Claystone	12.5		
SWC-60	2596m	Claystone medium dark grey	5.9		
SWC-1	2600m	Claystone	12.4		

Table 1. Basic sample data for Longtom-4, offshore Gippsland Basin, cont...

Sample Type	Depth metres	Dominant Lithology (based on hand-specimen examination)	Weight grams	Sample VOM	Sample Yield
SWC-58	2609m	Claystone light-medium grey	7.5		
SWC-51	2634m	Claystone medium dark grey	7.8		
SWC-49	2649m	Claystone medium grey	8.6		
SWC-47	2656m	Claystone medium grey	10.5		
SWC 46	2657.5m	Claystone medium grey	6.9	0.1	0.014
SWC-45	2668.5m	Claystone medium dark grey	8.2		
SWC-43	2682m	Siltstone medium grey argillaceous,	7.3		
SWC-42	2694.5m	Siltstone medium-grey, carbonaceous flecks	8.8		
SWC-37	2725.5m	Sandstone light grey, with claystone laminae	6.3		
SWC-35	2738m	Siltstone light-grey, laminated	8.9		
SWC-28	2777m	Claystone medium grey	10.0		
SWC-27	2784m	Claystone medium-dark grey, fractured	6.9		
SWC-25	2798.5m	Claystone	6.9		
SWC-24	2810.5m	Claystone dark grey, badly fractured	5.3		
SWC-23	2820m	Claystone medium grey	7.2		
SWC-18	2895.5m	Claystone dark grey	8.0		
SWC-17	2912m	Claystone silty	8.9		
SWC-15	2942m	Claystone silty	9.6		
SWC-14	2950.5m	Siltstone medium-grey, carbonaceous flecks	6.0		
SWC 12	2957.5m	Claystone & Sandstone dark grey	6.2	0.1	0.016
SWC-5	2970m	Arkose and light-green Claystone	3.2		
		Average:	**8.3**		

Weight grams = amount of sample processed by Core Labs.

Sample VOM = Wet-volume of Organic-Matter in cubic centimetres after density separation but before oxidation.

Sample Yield = Sample VOM divided by sample Weight.

Table 2. Basic assemblage data for Longtom-4, offshore Gippsland Basin.

Sample Type	Depth metres	Visual Yield	Palynomorph Concentration	Palynomorph Preservation	No. SP Species	No. MP Species
SWC 60	1285.5	Very Low*	Very Low	NA	3+	NR
SWC-59	1294.5	Moderate	High	Good	34+	1+
SWC-58	1494.5	High	Low	Poor	27+	1+
SWC 57	1565.0	Barren*	Barren	NA	NR	NR
SWC 47	1734.0	Very Low*	Low	Fair-good	18+	NR
SWC-46	1761.0	Low	Very Low	Poor-fair	20+	1+
SWC-45	1762.0	Low	Very Low	Fair	22+	4+
SWC-44	1776.0	High	High	Fair	24+	4+
SWC-43	1793.0	Moderate	Low	Fair	19+	1+
SWC-42	1847.0	Moderate	Very High	Good	17+	6+
SWC-41	1985.0	High	High	Poor	20+	2+
SWC 40	2042.5	High*	High	Fair-poor	28+	6+
SWC-38	2112.0	High	High	Fair	21+	7+
SWC-37	2189.0	Very Low	Very Low	Poor	2+	NR
SWC 36	2232.5	High*	Moderate	Poor	23+	4+
SWC-35	2304.0	Low	Moderate	Fair	15+	2+
SWC-29	2411.0	Low	Low	Poor-fair	24+	1+
SWC-31	2443.0	Very Low	Very Low	Poor-fair	6+	1+
SWC-27	2453.0	Moderate	Moderate	Fair	24+	2+
SWC 26	2472.0	Low*	Low-Moderate	Poor	18+	2+
SWC-25	2493.0	Low	Moderate	Fair	20+	3+
SWC-20	2518.0	Very Low	Very Low	Poor-fair	6+	NR
SWC-18	2540.0	Very Low	Essentially Barren	Poor	5+	NR
SWC-15	2557.5	Very Low	Very Low	Poor-fair	8+	1+
SWC-13	2565.0	Low	Low	Fair	18+	NR
SWC-10	2570.0	High	Moderate	Poor-fair	23+	NR
SWC-8	2575.0	High	Moderate	Poor	21+	NR
SWC-6	2582.5	High	Moderate	Poor	24+	NR
SWC-4	2590.0	High	Moderate	Poor	25+	1+
SWC-60	2596.0	Very Low	High	Poor-fair	19+	4+
SWC-1	2600.0	Low	Moderate	Poor-fair	21+	2+

Table 2. Basic assemblage data for Longtom-4, offshore Gippsland Basin, cont..

Sample Type	Depth metres	Visual Yield	Palynomorph Concentration	Palynomorph Preservation	No. SP Species	No. MP Species
SWC-58	2609.0	Low	Moderate	Poor-fair	17+	2+
SWC-51	2634.0	Low	Very Low	Poor	4+	NR
SWC-49	2649.0	Low	Moderate	Poor-fair	14+	2+
SWC-47	2656.0	Very Low	Very Low	Fair-poor	6+	NR
SWC 46	2657.5	Very Low*	Very Low	Poor	6+	NR
SWC-45	2668.5	Very Low	Extremely Low	Poor	4+	NR
SWC-43	2682.0	Very Low	Very Low	Poor	11+	NR
SWC-42	2694.5	Very Low	Very Low	Poor	6+	NR
SWC-37	2725.5	Low	Low	Fair	12+	NR
SWC-35	2738.0	Very Low	Very Low	Fair	4+	NR
SWC-28	2777.0	Very Low	Extremely Low	Poor	2+	NR
SWC-27	2784.0	Low	Very Low	Poor-fair	12+	2+
SWC-25	2798.5	Very Low	Very Low	Poor-good	11+	2+
SWC-24	2810.5	Low	Moderate	Fair	21+	1+
SWC-23	2820.0	Very Low	Very Low	Fair	10+	NR
SWC-18	2895.5	Moderate	Moderate	Poor-fair	21+	2+
SWC-17	2912.0	Low	Moderate	Fair	16+	1+
SWC-15	2942.0	Low	Low-Moderate	Poor-fair	22+	1+
SWC-14	2950.5	Low	Very Low	Poor-fair	15+	1+
SWC 12	2957.5	Very Low*	Extremely low	Poor	1+	NR
SWC-5	2970.0	Very Low	Extremely low	Poor	1+	NR
		*First Batch		**Average:**	**15+**	**1+**

NA = Not Applicable NR = Not recorded

Well Name : Longtom-4

Operator : Nexus Energy — Spudded : 21 June 2008
Well Code : LONGTOM-4 — Completed : 18 September 2008
Lat/Long : 38° 6' 17.71"S 148°19' 5.94"E
Interval : 1270m - 3000m — BASIC Range Chart - Absolute abundance
Scale : 1:5000 — SWC sample Interval 1285.5 to 2970mMD
Chart date: 02 March 2009 — Microscope Analysis by Alan D. Partridge

Longtom-4

Biostrata Pty Ltd
AUSTRALIA

Attachment to Biostrata Report 2009/04B

Depth

Samples Measured Depths

Categories SP — Absolute abundance (25mm=150 counts)
- Angiosperms TOTAL
- Gymnosperms TOTAL
- Spores TOTAL

Spores — Absolute abundance (20mm=100 counts)
- Cyathidites spp. (small species)
- Appendicisporites distocarinatus
- Baculatisporites spp.
- Cicatricosisporites & Ruffordiaspora spp.
- Crybelosporites brenneri
- Crybelosporites striatus
- Herkosporites proxistriatus
- Laevigatosporites ovatus
- Osmundacidites wellmanii
- Triplete spores undiff.
- Cyathidites rafaeli
- Cyathidites spp. (large species)
- Gleicheniidites circinidites
- Herkosporites elliottii
- Retitriletes spp.
- Stereisporites antiquasporites
- Triporoletes reticulatus
- Dictyophyllidites spp.
- Neoraistrickia truncatus
- Verrucosisporites morulae/rockhillis sp. nov.
- Foveogleicheniidites confossus
- Perotriletes jubatus
- Camarozonosporites heskermensis
- Cyatheacidites tectifera
- Foveosporites sp. cf F. canalis
- Marattisporites scabratus
- Rugulatisporites mallatus
- Ceratosporites equalis
- Coptospora pileolus sp. nov.
- Acanthotriletes varispinosus
- Perotriletes majus
- Laevigatosporites musa sp. nov.
- Densoisporites velatus
- Triloboporites trioreticulosus
- Densoisporites muratus sp. nov.
- Cicatricosisporites sp. cf. C. hughesii
- Foraminisporis asymmetricus
- Evansisporis senonica
- Foraminisporis wonthaggiensis
- Rugulatisporites sp. nov.
- Aequitriradites spinulosus
- Balmeisporites holodictyus
- Peromonolites spp.
- Tuberculatosporites sp. A
- Cyathidites splendens
- Laevigatosporites major
- Verrucosisporites kopukuensis
- Ariadnaesporites sp. (miospores)
- Camarozonosporites bullatus
- Camarozonosporites amplus
- Latrobosporites amplus
- Triporoletes horridus sp. nov.
- Triquitrites marshallensis
- Triquitrites maastrichtiensis

Gymnosperm Pollen — Absolute abundance (20mm=100 counts)
- Araucariacites australis
- Dilwynites granulatus
- Dilwynites pusillus sp. nov.
- Microcachryidites antarcticus
- Podocarpidites spp.
- Corollina torosa
- Cupressacites sp.
- Trichotomosulcites subgranulatus
- Hoegisporis trinalis sp. nov.
- Vitreisporites signatus
- Phyllocladidites echinatus sp. nov.
- Phyllocladidites mawsonii
- Phyllocladidites spp.
- Dilwynites tuberculatus
- Lygistepollenites florinii
- Microalatidites palaeogenicus
- Phyllocladidites verrucosus

Angiosperm Pollen — Absolute abundance (20mm=100 counts)
- Liliacidites spp.
- Tricolp(or)ites spp. (multiple species)
- Senectotetrades fistulosus
- Tricolporites variverrucatus sp. nov.
- Australopollis obscurus
- Nothofagidites asperus
- Proteacidites spp.
- Nothofagidites senectus
- Nothofagidites sulcatus
- Proteacidites cf.nei sp. nov.
- Tricolpites confessus
- Tricolpites lilliei
- Batten ipollis sectilis
- Forcipites longus
- Juxtacolpus pieratus gen. et sp. nov.
- Periporopollenites polyoratus
- Proteacidites (Cranwellipollis) pallsadus
- Proteacidites reticuloconcavus sp. nov.
- Tricolpites sabulosus
- Tricolpites vaiparaensis
- Dicotetradites clavatus
- Ericipites spp.
- Gambierina rudata

Categories MPs — *1
- Amosopollis cruciformis (in SP count)
- Circulisporites parvus (in SP Count)
- MP MARINE (in SP count) TOTAL
- MP NON-MARINE (in SP count) TOTAL

Microplankton Species — Absolute abundance (25mm=100 counts)
- Circulisporites parvus
- Sigmopollis hispidus
- Amosopollis cruciformis
- Luxadinium spp.
- Leiosphaeridia spp.
- Tetrachacysta keenei
- Rimosicysta robustus sp. nov.
- Rimosicysta spp.
- Michystridium spp. (non-marine)
- Microplankton undiff. (marine)
- Sigmopollis carbonis
- Rimosicysta kipperii
- Botryococcus braunii
- Deflandrea obliquipes

Other Palynomorphs — Absolute abundance (30mm=100 counts)
- Indeterminate palynomorphs
- Fungal spores & hyphae
- Spheroid reticulate indet.
- Insect setae
- Reworked palynomorphs
- Fungal fruiting bodies
- Scolecodont elements
- Caved palynomorphs
- Brennae setae
- Tasmanites
- Asaidnaesporites sp. (threads)

RW — *2
- Microbaculispora spp.
- Aratrisporites spp.

Samples Measured Depths

TD 2987

Well Name : Longtom-4

Operator : Nexus Energy
Well Code : LONGTOM-4
Lat/Long : 38° 6' 17.71"S 148°19' 5.94"E
Interval : 1270m - 3000m
Scale : 1:5000
Chart date: 02 March 2009

Spudded : 21 June 2008
Completed : 18 September 2008
BASIC Range Chart - Count Data
SWC sample Interval 1285.5 to 2970mMD
Microscope Analysis by Alan D. Partridge

Longtom-4

Biostrata Pty Ltd
AUSTRALIA

Attachment to Biostrata Report 2009/04B

Depth

Samples Measured Depths

S-P *1
Angiosperms TOTAL
Gymnosperms TOTAL
Spores TOTAL

Spores — Absolute abundance
Cyathidites spp. (small species)
Appendicisporites distocarinatus
Baculatisporites spp.
Cicatricosisporites & Rufforidaspora spp.
Crybelosporites brennerii
Crybelosporites striatus
Herkosporites proxistriatus
Laevigatosporites ovatus
Osmundacidites wellmanii
Trilete spores undiff.
Cyathidites rafaeli
Cyathidites spp. (large species)
Gleicheniidites circinidites
Herkosporites elliottii
Rettrietes spp.
Stereisporites antiquasporites
Triporoletes reticulatus
Dictyophyllidites spp.
Neoraistrickia truncatus
Verrucosisporites admirabilis sp. nov.
Foveogleicheniidites confossus
Perotriites jubatus
Camarozonosporites heskermensis
Cyatheacidites tectifera
Foveosporites sp. cf F. canalis
Marattisporites scabratus
Rugulatisporites mallatus
Ceratosporites equalis
Coptospora pileolus sp. nov.
Aequitriradites spinulosus
Perotriites majus
Laevigatosporites musa sp. nov.
Densoisporites velatus
Triloboisporites trioreticulosus
Densoisporites muratus sp. nov.
Cicatricosisporites sp. cf. C. hughesii
Foraminisporis asymmetricus
Evansisporа senonica
Foraminisporis wonthaggiensis
Rugulatisporites spp.
Aequitriradites asina sp. nov.
Balmeisporites holodictyus
Peromonolites spp.
Tuberculatosporites sp. A
Cyathidites splendens
Laevigatosporites major
Verrucosisporites kopukuensis
Ariadnaesporites sp. (miospores)
Camarozonosporites bullatus
Camarozonosporites horrendus sp. nov.
Latrobosporites amplus
Tripunctisporis maastrichtiensis

Gymnosperm Pollen — Absolute abundance
Araucariacites australis
Dilwynites granulatus
Dilwynites pusillus sp. nov.
Microcachryidites antarcticus
Podocarpidites spp.
Corollina torosa
Cupressacites sp.
Trichotomosulcites subgranulatus
Hoegisporis trinalis sp. nov.
Vitreisporites signatus
Phyllocladidites eunuchus sp. nov.
Dilwynites echinatus sp. nov.
Phyllocladidites mawsonii
Dilwynites tuberculatus
Lygistepollenites florinii
Microalatidites palaeogenicus
Phyllocladidites verrucosus

Angiosperm Pollen — Absolute abundance
Liliacidites spp.
Tricolp(or)ites spp. (multiple species)
Senectotetradites fistulosus
Tricolporites variverrucatus sp. nov.
Australopollis obscurus
Nothofagidites endurus
Proteacidites spp.
Dicotetradites clavatus
Ericipites spp.
Gambierina rudata
Nothofagidites senectus
Peninsulapollis gillii
Proteacidites clinei sp. nov.
Tricolpites confessus
Tricolporites illiei
Battenipollis sectilis
Forcipites longus
Juxtacolpus pieratus gen. et sp. nov.
Periporopollenites polyoratus
Proteacidites (Cranwellipollis) palisadus
Proteacidites reticuloconcavus sp. nov.
Tetracolporites verrucosus
Tricolpites waiparaensis

MPs *1
Amosopollis cruciformis (in SP count)
Circulisporites parvus (in SP Count)
MP MARINE (in SP count) TOTAL
MP NON-MARINE (in SP count) TOTAL

Microplankton Species — Absolute abundance
Circulisporites parvus
Sigmopollis hispidus
Amosopollis cruciformis
Luxadinium spp.
Leiosphaeridia spp.
Tetrachacysta keenei
Rimosicysta robustus sp. nov.
Rimosicysta spp.
Micrhystridium spp. (non-marine)
Microplankton undiff. (marine)
Sigmopollis carbonis
Rimosicysta kipperii
Botryococcus braunii
Deflandrea obliquipes

Other Palynomorphs — Absolute abundance
Indeterminate palynomorphs
Fungal spores & hyphae
Spheroid reticulate indet.
Insect setae
Reworked palynomorphs
Fungal fruiting bodies
Scolecodont elements
Caved palynomorphs
Biremae setae
Tasal claws
Ariadnaesporites sp. (threads)

RW *2
Microbaculispora spp.
Aratrisporites spp.

TD 2987

APPENDIX 13: ROUTINE CORE ANALYSIS REPORT

ROUTINE CORE ANALYSIS FINAL REPORT

of

LONGTOM-4

for

NEXUS ENERGY LIMITED

by

ACS LABORATORIES PTY LTD

10th February 2009

Nexus Energy Limited
134 Little Lonsdale St
MELBOURNE, VIC 3000

Attention: Carrie Trembath

FINAL REPORT: 0219-02-40
LONGTOM-4

CLIENT REFERENCE: Purchase Order: N540000004

MATERIAL: 4" Diameter Core

LOCALITY: VIC/P54

WORK REQUIRED: Routine Core Analysis

Please direct technical inquiries regarding this work to the signatory below under whose supervision the work was conducted.

JARED OLSEN
Laboratory Supervisor

IAN MANGELSDORF
Manger West Region

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CHAPTER 1

INTRODUCTION

1. INTRODUCTION

One, 4 inch diameter, core was cut in the Longtom-4 well, as per the depth interval below.

Core No.	Cored Interval (m)	
1	2841.00 – 2895.70m	(Rec 54.65m)
	Total:	(54.65m)

One ACS technician was dispatched to the rig to handle, stabilise and package the cores for transport to the laboratory, on arrival at surface. The core was marked up with depth and orientation lines, prior to the annulus between the core and the inner barrel, being injected with foam to stabilise the core in the inner barrel.

The core was received at ACS Laboratories Pty Ltd, Perth on the 13th of August 2008.

A routine core analysis study was undertaken as per instructions received from Nexus Energy Limited. The study included the following analyses:

- Continuous core gamma
- Ambient porosity, ambient permeability and grain density
- Overburden porosity and permeability
- Core photography

On completion of the analysis, the core was packed into slabbed core trays for distribution to the relevant Government authorities and client storage.

The following report details the methods and procedures utilised in providing these results. Results are presented in both tabular and graphical formats.

CHAPTER 2

STUDY AIMS

2. STUDY AIMS

The analyses were performed with the following aims:

1. To provide core stabilisation services.

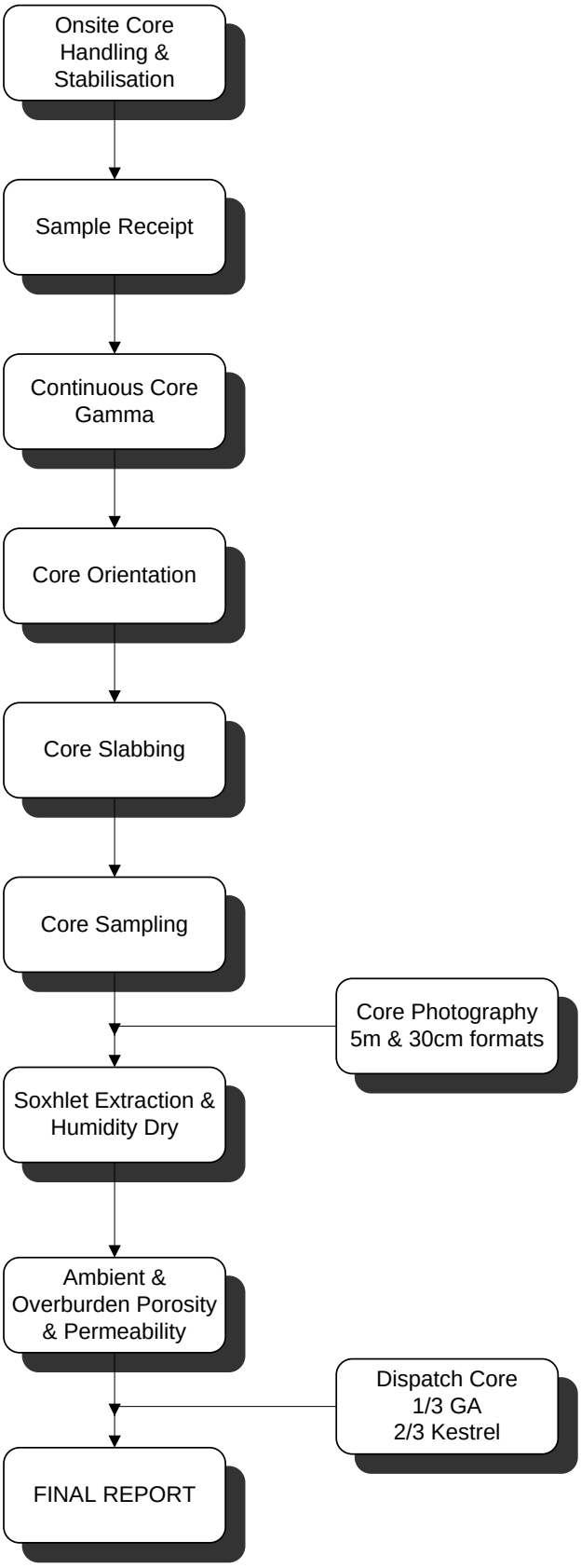
2. To provide depth correlation through the provision of a continuous core gamma log over the cored interval.

3. To provide air permeability, helium injection porosity and density data.

4. To investigate the effect on porosity and permeability due to overburden stress.

5. To provide core photography as a permanent record of the core.

STUDY OUTLINE



CHAPTER 3

CORE HANDLING, SCREENING AND SAMPLING

3. CORE HANDLING, SCREENING AND SAMPLING

3.1 Onsite H S & E

The proposed worksite was assessed by ACS and company representatives prior to a JHA being submitted. The JHA was thoroughly reviewed in conjunction with the Company HS&E representative before being signed off. A copy of the JHA and work procedure was attached to each hot work permit acquired prior to each work period. A number of toolbox meetings were held with the relevant third party operators and Nexus representatives prior to each task being performed (ie. core lay down, stabilisation and packaging).
No accidents or incidents were reported by ACS employees.

3.2 Onsite Core Handling

Once the core was laid down on the catwalk, it was marked with depths (0.5 metre intervals) and red and black orientation lines (red on the right as you look up the barrel). Pilot holes were drilled at one metre intervals along the core prior to the annulus being injected with stabilising foam. Once the stabilisation foam had set, the core barrels were loaded into core barrel baskets for transportation to the laboratory.

3.3 Core Layout

On receipt of the shipment of core at the laboratory, the 9m core barrel lengths were unloaded from the transport crates individually by crane using a spreader beam to minimise flexing of the core barrel. The core was laid out in order from top to bottom and checked off against the shipping manifest. The core was then cut into 1m lengths and removed from the aluminium inner barrel for processing. Representatives from Nexus Energy Limited undertook the core orientation so as to obtain true dip on the slabbed surface prior to slabbing

3.4 1/3 : 2/3 Core Slab

Upon completion of the core gamma, layout and orientation, the core was slabbed longitudinally into 1/3:2/3 sections. All sampling and photography was performed on the 2/3 section. The final slabs were packed into core trays and distributed to the relevant parties as described in section 7.1.

3.5 Sampling

A suite of 1½" diameter, horizontal, RCA plugs were drilled at intervals determined by representatives of Nexus Energy Limited throughout the reservoir quality sections of the core using 10% KCl brine as the bit coolant. The samples were immediately trimmed to 2" long, right cylinders for analysis, wrapped in saran, packed in air tight vials pending analysis. All plug off-cuts were retained for possible future analysis.

A complete sample listing can be found in section 7.2 of this report..

CHAPTER 4

SAMPLE PREPARATION

4. SAMPLE PREPARATION

4.1 Warm Solvent Extraction

The samples were placed in a soxhlet extractor to remove any oil and salt from the samples. The solvent used was 3:1 chloroform methanol. Cleaning continued until a sample of solvent from the soxhlet chamber tested negative to silver nitrate induced salt precipitation, and no fluorescence was observed in the sample under ultra-violet light.

4.2 Humidity Drying

After extraction, the samples were dried under humid conditions of 60°C and 40% Relative Humidity to a constant weight. Once dried, they were stored in individual air tight containers and allowed to cool to room temperature before analysis.

CHAPTER 5

TEST PROCEDURES

5. TEST PROCEDURES

5.1 Continuous Core Gamma

The core was laid out according to depth markings, and a continuous core gamma trace produced by passing the core beneath a gamma radiation detector. The detector is protected from extraneous radiation by a lead tunnel. The detector signal is amplified and digitised to produce a gamma trace for comparison with the down hole log.

5.2 Porosity

The ambient porosity is determined by placing the individual plugs in a sealed matrix cup and a known volume of helium at 100 psi reference pressure introduced to the cup. From the resultant pressure the unknown volume, i.e. the grain volume, was calculated using Boyles Law.

Each individual sample is then placed into a thick walled rubber sleeve and loaded into a hydrostatic cell. With an 'ambient' confining stress of 400 psi applied to the sample, helium held at 100 psi reference pressure is released into the samples pore space and the pore volume is determined.

The bulk volume of each plug was determined by addition of the grain and pore volumes. The porosity was calculated as the volume percentage of pore space with respect to the bulk volume.

$$P_1 V_1 = P_2 V_2$$

$$\Rightarrow \quad P_1 Vr = P_2 (Vr + Vc - Vg)$$

$$Vb = Vp + Vg$$

$$\text{Ambient Porosity \%} = \frac{Vp}{Vb} \times 100$$

The porosity was then measured at a simulated overburden stress of 2450psi, as supplied by Nexus Energy Limited. The desired confining stress is then applied to the sample, and the pore volume measured at equilibrium. This pore volume, together with the previously determined parameters in the ambient analyses, allow the calculation of porosity at overburden conditions, as follows:

$$\textit{Overburden Porosity \%} = \frac{Vp - \Delta Vp}{Vb - \Delta Vb} \times 100\%$$

where P_1 = initial pressure (psig)
P_2 = final pressure (psig)
Vr = reference cell volume (cm^3)
Vc = matrix cup volume (cm^3)
Vg = grain volume (cm^3)
Vp = pore volume (cm^3)
Vb = bulk volume (cm^3)

5.3 Permeability

The ambient permeability of each clean and dry sample was measured by placing it in a rubber sleeve and loaded into a hydrostatic cell. An 'ambient' confining pressure of 400 psi was applied to prevent bypassing of air around the sample when the measurement is made.

The overburden permeability is determined by placing a plug sample in a hydrostatic cell at the required confining pressure, 2450psi, as supplied by Nexus Energy Limited.

During the measurement, a known air pressure is applied to the upstream face of the sample, creating a flow of air through the sample. Permeability for each sample is then calculated using Darcy's Law, through knowledge of the upstream pressure and flow rate during the test, the viscosity of air and the plug dimensions.

$$Ka = \frac{2000.BP.\mu.q.L}{(P_1^2 - P_2^2).A}$$

where Ka = *air permeability (milliDarcy's)*
BP = *barometric pressure (atmospheres)*
μ = *gas viscosity (cP)*
q = *flow rate (cm^3/s) at barometric pressure*
L = *sample length (cm)*
P_1 = *upstream pressure (atmospheres)*
P_2 = *downstream pressure (atmospheres)*
A = *sample cross sectional area (cm^2)*

5.4 Apparent Grain Density

The apparent grain density is calculated by dividing the weight of the plug by the grain volume determined from the helium injection porosity measurement.

$$Grain\ Density = \frac{Wt}{Vg}$$

where Wt = *weight of sample (g)*
Vg = *grain volume (cm^3)*

5.5 Core Photography

The digital core photography was carried out on the 2/3 slab of core.

Photographs were taken of the entire core under both white light and ultra violet light in a 5m format and white light only in a high definition 30cm format.

During examination of the preliminary set of photography, it was discovered that one metre section had been misplaced on the photographic template (see changes made below). Subsequently three metre sections were out of place in the overall core orientation as the core was packed into the coreflute boxes. Because of the cores fragile nature it was decided to relabel the core sections within the coreflute trays rather than attempt to rearrange the core into the correct continuous order.

Interval 2855-2856m was incorrectly labelled as 2857-2858m
Interval 2856-2857m was incorrectly labelled as 2855-2856m
Interval 2857-2858m was incorrectly labelled as 2856-2857m

All photographs and core orientation within the coreflute trays are now correct..

One set of the 5m format white light and ultra violet light photos were supplied in hardcopy prints and electronic form, along with the 30cm high definition format in electronic format only.

CHAPTER 6

TEST RESULTS

6.1 Ambient & Overburden Test Results

CORE ANALYSIS FINAL REPORT

Company : Nexus Energy Limited
Well : Longtom-4
Field :
Core Int. : 2841.00-2895.65m

Date : 22/09/2008
File : 0219-02-40
Location : Bass Straight
Analysts : SR HJ

Overburden Pressure 1: 2450 psi

Sample Number	Depth	Dir	Ambient Porosity	OB1 Porosity	Grain Density	Ambient Permeability	OB1 Permeability	Remarks
1	2841.25	H	13.4	12.6	2.64	0.45	0.23	
2	2841.75	H	12.1	11.5	2.66	0.20	0.14	
3	2842.25	H	8.6	8.4	2.67	0.03	0.01	
4	2842.74	H	13.1	12.4	2.64	0.48	0.17	
5	2843.25	H	14.0	13.1	2.64	0.95	0.33	
6	2843.75	H	13.1	12.3	2.64	0.52	0.23	
7	2844.25	H	13.5	12.6	2.64	0.50	0.21	
8	2844.75	H	12.8	11.8	2.64	0.34	0.13	
9	2845.32	H	9.3	8.7	2.64	0.12	0.07	
10	2845.75	H	10.9	10.1	2.66	0.17	0.05	
11	2846.25	H	9.4	8.6	2.67	0.11	0.04	
12	2846.75	H	9.2	8.7	2.67	0.10	0.03	
13	2847.24	H	8.4	8.0	2.68	0.08	0.06	
14	2847.75	H	8.0	7.7	2.70	0.02	<0.01	
15	2870.67	H	11.6	10.8	2.64	0.25	0.06	

Sample Number	Depth	Dir	Ambient Porosity	OB1 Porosity	Grain Density	Ambient Permeability	OB1 Permeability	Remarks
16	2871.56	H	11.3	10.6	2.63	0.32	0.05	
17	2872.36	H	11.6		2.63			sample failed post ambient measurements
18	2873.53	H	11.6	11.4	2.75	<0.01	<0.01	
19	2874.48	H	7.7	7.3	2.65	0.01	<0.01	
20	2875.40	H	8.5	8.3	2.66	0.01	<0.01	
21	2876.45	H	9.4	8.9	2.65	0.07	0.01	
22	2877.28	H	6.3	6.2	2.67	0.02	0.01	
23	2878.36	H	8.5	8.2	2.65	0.03	0.01	
24	2878.54	H	8.5	8.0	2.64	0.04	0.02	
25	2879.48	H	10.3	9.6	2.65	0.08	0.04	
26	2880.69	H	8.3	7.8	2.63	0.08	0.02	
27	2882.86	H	7.1	6.8	2.68	0.04	<0.01	
28	2883.68	H	5.6	5.5	2.64	<0.01	<0.01	
29	2884.47	H	8.4	8.0	2.66	0.02	0.01	
30	2886.19	H	7.2	6.8	2.69	0.02	<0.01	
31	2887.16	H	7.2	6.6	2.70	0.04	<0.01	
32	2889.18	H	7.3	7.1	2.69	0.11	<0.01	
33	2890.91	H	7.5	6.9	2.68	0.04	<0.01	
34	2893.51	H	7.1	6.7	2.68	0.02	<0.01	

CHAPTER 6

TEST RESULTS

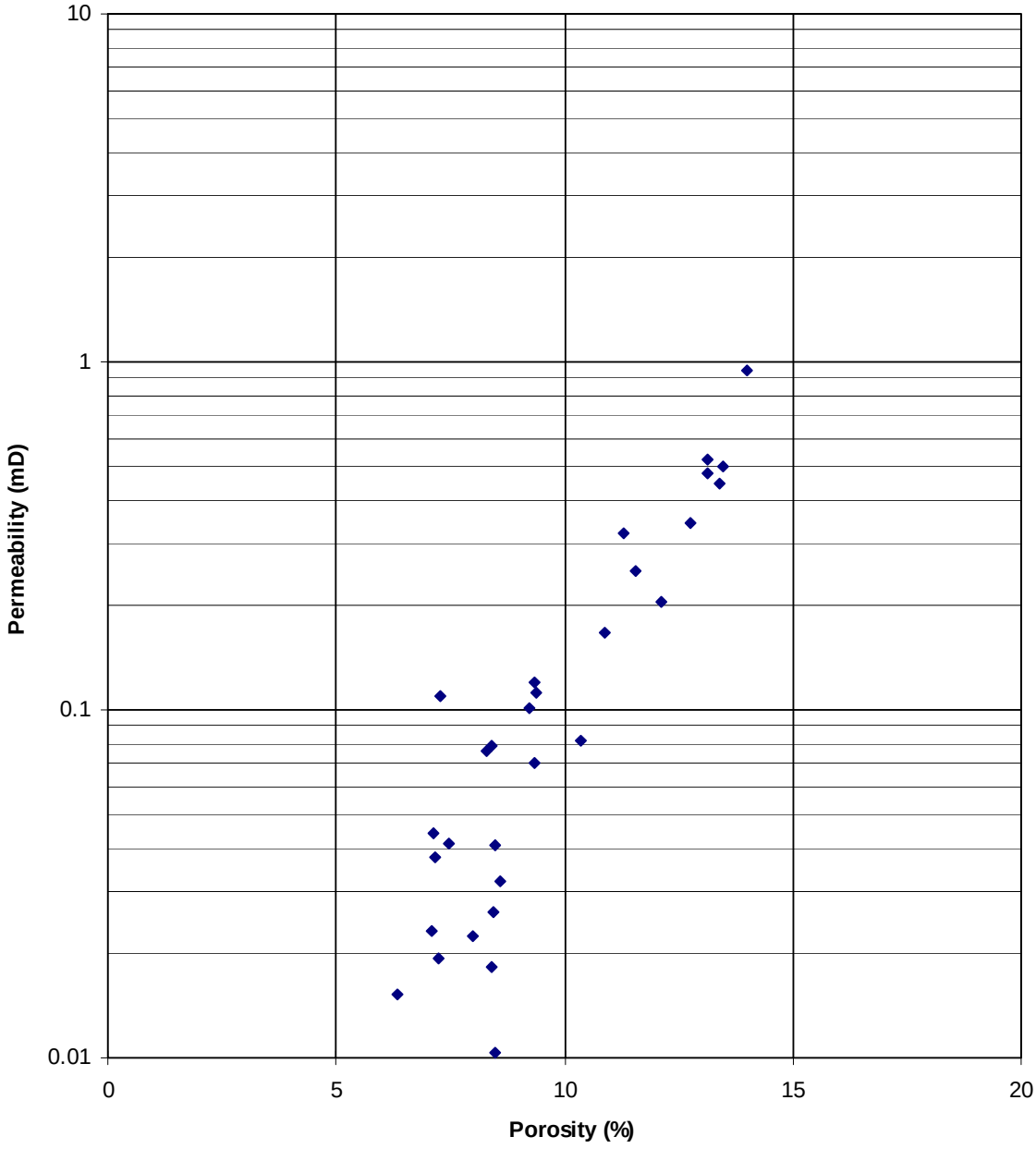
6.2 Porosity vs Permeability Plot

POROSITY vs PERMEABILITY

Client: Nexus Energy Limited

Well: Longtom-4

Depth: 2841.00 - 2895.65m



CHAPTER 6

TEST RESULTS

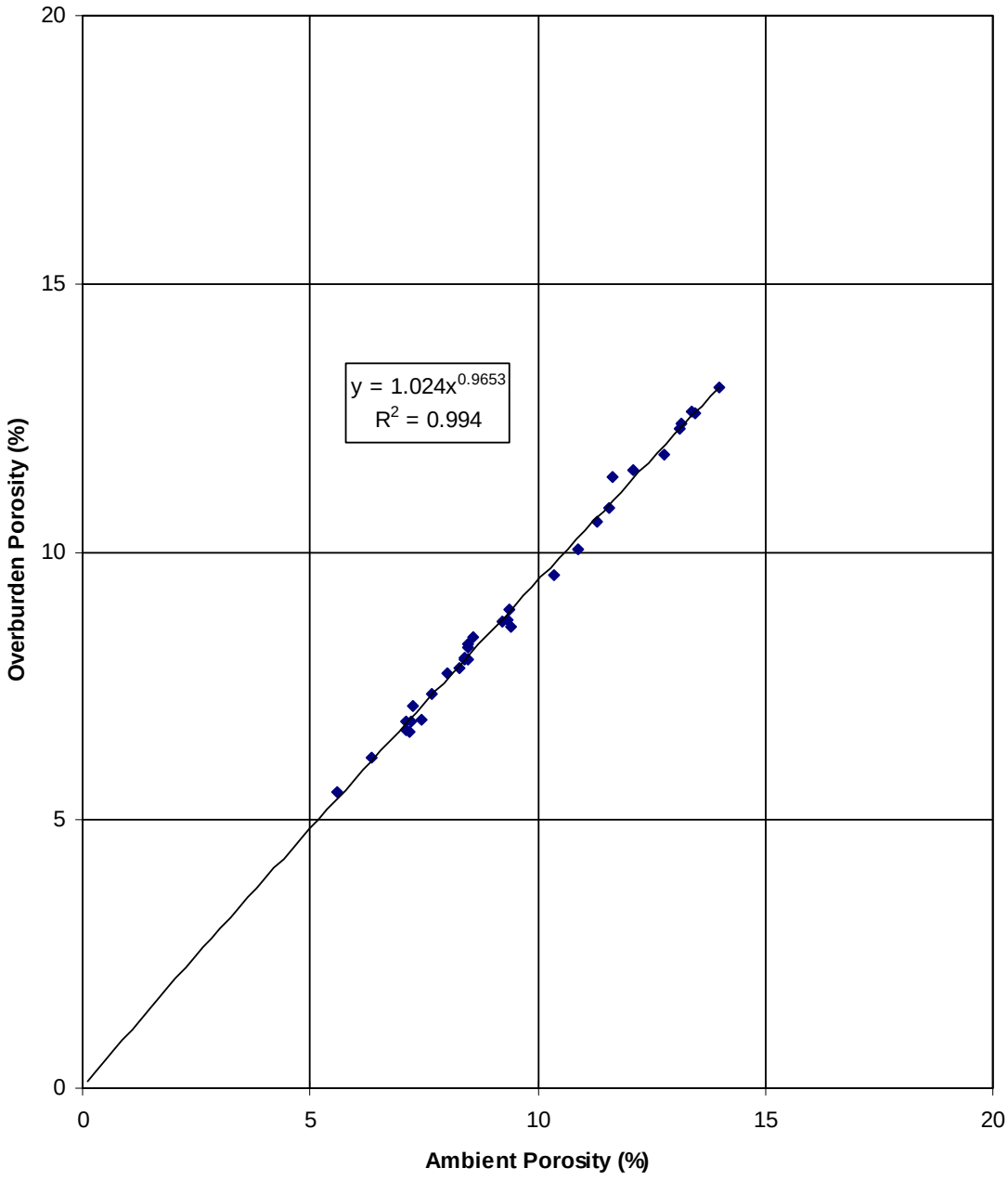
6.3 Ambient vs Overburden Plots

POROSITY
AMBIENT vs OVERBURDEN
2450 psi

Client: Nexus Energy Limited

Well: Longtom-4

Depth: 2841.00 - 2895.65m

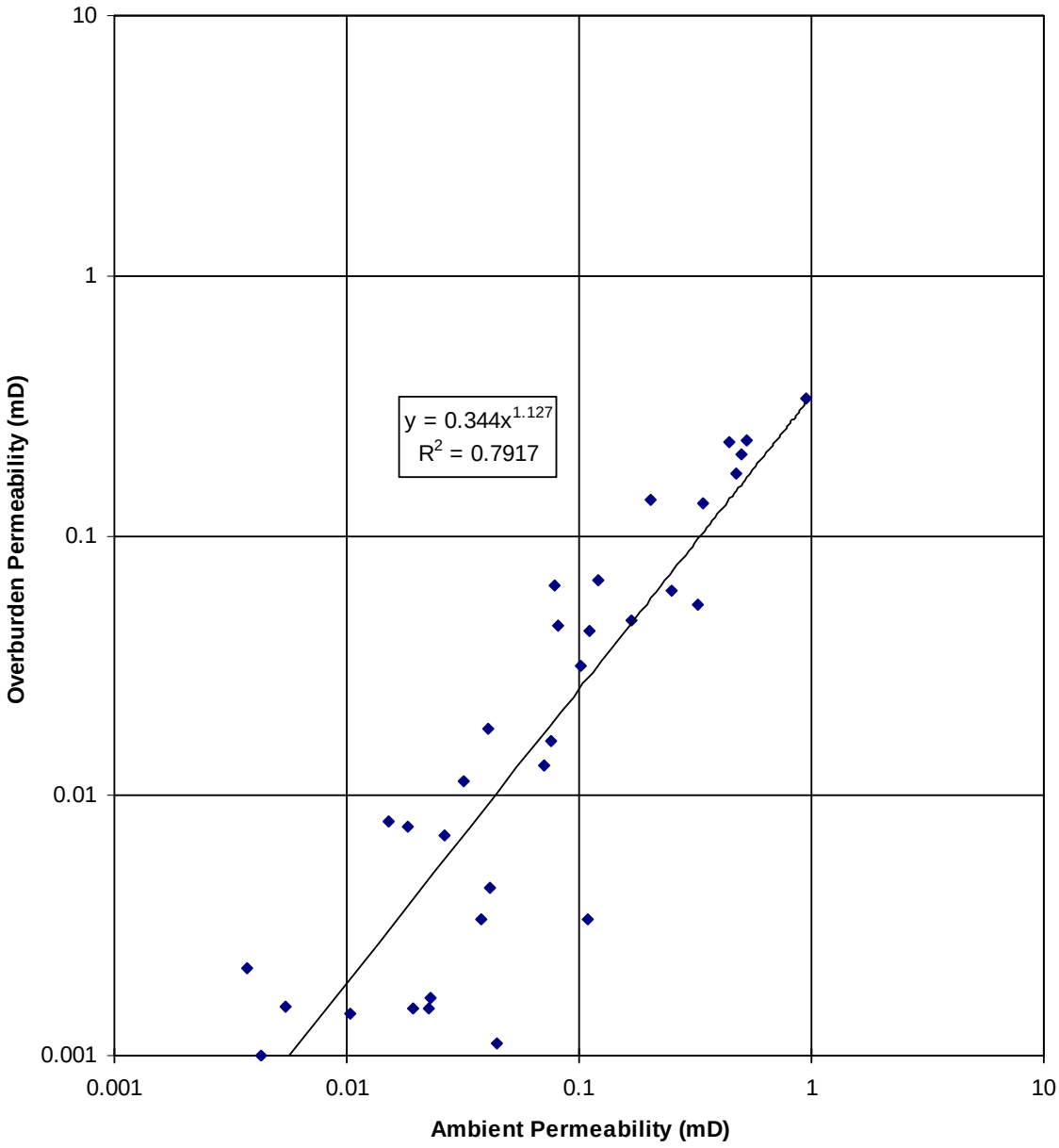


PERMEABILITY
AMBIENT vs OVERBURDEN
2450 psi

Client: Nexus Energy Limited

Well: Longtom-4

Depth: 2841.00 - 2895.65m



CHAPTER 6

TEST RESULTS

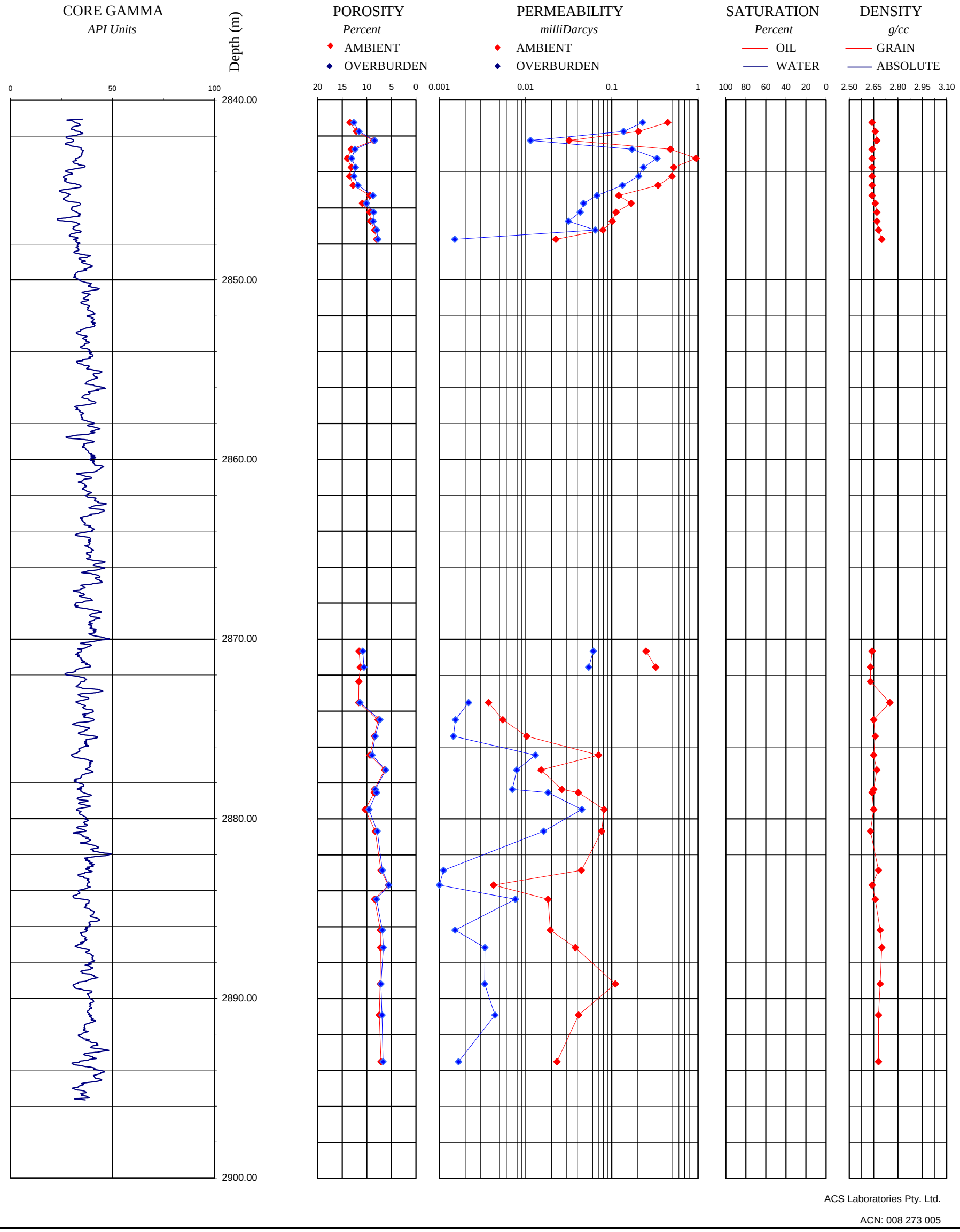
6.4 Core Plot

CORE PLOT

Scale 1:200

Client: Nexus Energy Limited
Well: Longtom-4
File No.: 0219-02-40

Core 1: 2841.00 - 2895.65m



ACS Laboratories Pty. Ltd.

ACN: 008 273 005

CHAPTER 7

SAMPLE DISTRIBUTION AND STORAGE

7.1 Sample Distribution and Storage

7. SAMPLE DISTRIBUTION AND STORAGE

7.1 Sample Distribution and Storage

On completion of all sampling and analysis, the two individual slabs of core were packed in corflute core boxes and distributed as follows:

The 1/3 slab of core was couriered to Geoscience Australia (GA) on the 16th of December 2008, as requested by Nexus Energy Limited (transmittal PER0252).

The clients 2/3 slab of core was couriered to Kestrel Information Management on the 16th of December 2008, for permanent storage, as requested by Nexus Energy Limited (transmittal PER0251).

All plugs and off cuts are currently being stored at ACS Laboratories Perth, pending further instructions.

CHAPTER 7

SAMPLE DISTRIBUTION AND STORAGE

7.2 Sample Listing

Client Nexus Energy Limited
Well Longtom-4

RCA plugs		SCAL plugs		Vertical plugs		Preserved Core		
Plug no.	Depth (m)	Plug No.	Depth (m)	Plug No.	Depth (m)	Sample No.	Depth Interval (m)	
1	2841.25	no samples		no samples		no samples		
2	2841.75							
3	2842.25							
4	2842.74							
5	2843.25							
6	2843.75							
7	2844.25							
8	2844.75							
9	2845.32							
10	2845.75							
11	2846.25							
12	2846.75							
13	2847.24							
14	2847.75							
15	2870.67							
16	2871.56							
17	2872.36							
18	2873.53							
19	2874.48							
20	2875.40							
21	2876.45							
22	2877.28							
23	2878.36							
24	2878.54							
25	2879.48							
26	2880.69							
27	2882.86							
28	2883.68							
29	2884.47							
30	2886.19							
31	2887.16							
32	2889.18							
33	2890.91							
34	2893.51							

APPENDIX 14: WELL TEST REPORT

Nexus Energy

Longtom-4

Completion

12th – 13th September 2008

WELL FLOW MANAGEMENT™

Expro Group Australia Pty Ltd

Level 3, 1060 Hay Street

West Perth

Western Australia 6005

Australia

Telephone **+61 8 9213 5555**

Fax **+61 8 9213 5599**

www.exprogroup.com

Well Site Test Report

Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Start Date	12th September 2008
Country	Australia
Field	Longtom
Formation	200, 100 & 50 Sands
Expro Engineer	S. Petrig / J. Coxall
Expro Supervisor	F. Beaton
Client Engineer	S. Thomson / M. Smith
Perforations	2,494 - 4,406 mMDRT

Report Approved By (CHS) : **Date :**

Report Approved By (Welltest) : **Date :**

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75% Flow Rate

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Data Discs and Information

SECTION 1

Introduction

Introduction

Expro Cased Hole Services (Electrical) provided Edge-X surface data acquisition in conjunction with Expro welltest services on board West Triton for the completion on the Longtom-4 well from the 12th to the 13th of September 2008.

The Longtom-4 well is a subsea well that is located in VIC/L29 Gippsland Basin, approximately 32km from nearest landfall in south eastern Victoria in approximately 57m water depth. The well was drilled, completed and tested using the Seadrill jack-up drilling rig "West Triton".

The well was completed with 10-3/4" casing set at 2,591m MDRT across the Upper Group of reservoir zones (400 sands). The 200, 100 and 50 sands were behind a wholly cemented 7" liner.

Primary Objectives

1. To complete the well with zero injuries or incidents.
2. To have no reportable spills to the environment.

SECTION 2

Sequence of Events

Sequence of Events

Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Start Date	12th September 2008
Country	Australia
Field	Longtom
Formation	200, 100 & 50 Sands
Expro Engineer	S. Petrig / J. Coxall
Expro Supervisor	F. Beaton
Client Engineer	S. Thomson / M. Smith
Perforations	2,494 - 4,406 mMDRT

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
25/08/08	
16:30:00	Commenced rigging up welltest package.
27/08/08	
13:30:00	Commenced pressure testing welltest package.
20:00:00	Completed pressure testing welltest package.
28/08/08	
13:00:00	Commenced meter factor readings.
17:00:00	Completed meter factor readings.
31/08/08	
08:00:00	Picked up Expro bails.
10:00:00	Picked up flowhead.
10:30:00	Landed flowhead.
11:30:00	Picked up coflexip hose.
14:00:00	Made up coflexip hose.
16:00:00	Commenced pressure testing choke manifold to 5,500 psi.
17:21:00	Completed pressure testing to choke manifold. Good test.
17:22:00	Bled off pressure at choke manifold.
18:30:00	Expro slickline rigged up.
19:00:00	Opened SSSV.
19:15:00	Expro slickline commenced RIH to pull 5.75" TH Isolation Sleeve.
19:30:00	Expro slickline completed POOH.
19:40:00	Expro slickline commenced RIH to install Short Wireline Protection Sleeve.
19:55:00	Expro slickline completed POOH with running tool.
20:00:00	Expro slickline commenced RIH with pulling tool to retrieve 4.56" RQ Lock with Delrin Prong from SSSV.
20:15:00	Expro slickline completed POOH with pulling tool.
21:00:00	Opened ICV.
21:21:00	Commenced flushing surface lines via choke manifold with filtered inhibited brine direct to starboard boom.
21:25:00	Completed flushing surface lines (total pumped = 3.5 bbls).
21:26:00	Closed choke manifold.
22:10:00	Expro slickline commenced RIH to set 4.562" plug.
22:55:00	Expro slickline set plug at 2,240m MDRT and running tool released. Commenced POOH.
23:45:00	Expro slickline completed POOH.
01/09/08	
00:55:00	Commenced pressure testing chemical injection at flowhead to 5,500 psi.
01:00:00	Completed pressure testing chemical injection at flowhead. Good Test.
01:10:00	Commenced pressure testing chemical injection at subsea reeler to 4,000 psi.
01:15:00	Completed pressure testing chemical injection at subsea reeler. Good test.
02:41:00	Bled off pressure via choke manifold to starboard flare boom.
02:55:00	Commenced inflow test of the SSSV.
03:21:00	Completed inflow test of the SSSV.
07:45:00	Expro slickline commenced pressure testing tubing against 4.562" plug.
08:10:00	Completed pressure test. Good test.
08:40:00	Expro slickline commenced RIH to pull 4.562" plug.
09:45:00	Expro slickline completed POOH. Miss run.
10:50:00	Expro slickline commenced RIH to pull 4.562" plug.
12:15:00	Expro slickline latched plug at 2,240m MDRT and completed POOH.
12:50:00	Expro slickline commenced RIH to retrieve 4.70" short wireline protection sleeve.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
01/09/08	
13:00:00	Expro slickline latched sleeve and completed POOH.
13:15:00	Expro slickline rigged down.
14:10:00	Commenced pressure testing flowhead test cap to 5,500 psi via cement line against FMV and choke manifold.
14:40:00	Completed pressure testing. Good test.
14:45:00	Opened FMV and FSV.
14:49:00	Commenced displacing tubing via KWV.
15:30:00	Held JSA prior to reverse circulating diesel.
16:52:00	Completed displacing tubing. (258 bbls diesel and 4 bbls seawater pumped)
16:55:00	Flushed cement and Expro flow lines with seawater via choke manifold direct to surge tank.
17:00:00	Closed FMV. (SITHP = 1,404 psi)
17:10:00	Closed ICV.
17:15:00	Opened FMV.
17:18:00	Pressurised tubing to 2,400 psi to test all surface lines.
17:28:00	Increased pressure on tubing to 5,500 psi to set both packers and pressure test tubing.
18:01:00	Completed pressure testing. Good test.
18:01:00	Bled THP via choke manifold direct to surge tank to 1,900 psi for over-balance of ICV to SITHP by 500 psi (4.6 bbls returned).
18:06:00	Opened ICV.
18:10:00	Commenced pressure testing HF-1 packer to 3,800 psi.
18:40:00	Completed pressure testing. Failed test. Communication between annulus and tubing.
18:45:00	Closed Production Master Valve.
18:48:00	Bled off Annulus Pressure.
18:51:00	Opened Production Master Valve.
18:54:00	Closed ICV.
19:34:00	Opened KWV and FWV.
19:35:00	Pressured up on the tubing to 5,489 psi. (6.6 bbls pumped)
20:49:00	Re-pressured up on the tubing to 5,489 psi.
21:25:00	Bled off pressure via choke manifold to starboard flare boom. (5 bbls returned)
21:42:00	Opened ICV. (SITHP = 1,411 psi)
21:54:00	Pressured up on annulus.
22:02:00	Bled off pressure via choke manifold
22:03:00	Closed Annulus Master Valve.
22:03:00	Opened and closing XOV
22:06:00	Opened Annulus Master Valve. (5 bbls returned)
22:09:00	Pressured back up on the tubing.
22:15:00	Closed ICV.
22:22:00	Pressured back up on the tubing.
02/09/08	
03:02:00	Closed Master Valve
03:03:00	Bled off pressure via choke manifold to starboard flare boom.
03:45:00	Locked open NRV.
03:50:00	Commenced flushing lines to surge tank with drill water.
03:55:00	Closed choke manifold.
03:56:00	Pressured up to 1,000 to test NRV. Good test.
03:57:00	Bled off pressure from choke manifold via Halliburton unit.
04:00:00	Pressured up to 5,500 psi at choke manifold.
04:02:00	Closed FWV to isolate Expro flow line.
04:11:00	Opened FMV.
04:15:00	Increased tubing pressure from 5,500 psi to 6,000 psi, to maintain pressure for one hour.
05:07:00	Bled off pressure at cement unit to 5,500 psi.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
02/09/08	
05:13:00	Closed FKWV.
05:15:00	Opened FWV.
05:17:00	Bled off pressure via choke manifold to 1,400 psi (6bbls returned).
05:23:00	Opened ICV.
05:39:00	Bled off pressure via choke manifold to 1,400 psi (1.5bbls returned).
05:45:00	Closed ICV.
05:50:00	Bled off annulus pressure via choke manifold.
05:53:00	Opened ICV.
06:30:00	Held JSA prior to reverse circulating to brine.
06:41:00	Commenced reverse circulating to brine.
06:43:00	Opened choke manifold direct to surge tank.
06:45:00	Closed choke manifold. (0.5 bbls returned)
06:53:00	Opened choke manifold direct to surge tank.
06:54:00	Closed choke manifold. (0.5 bbls returned)
09:20:00	Commenced pumping down tubing at 0.5 bbls/min to establish 400 sands injection rate.
09:24:00	Broke circulation at annulus.
09:27:00	Decreased pump rate on tubing to 0.25 bbls/min.
09:28:00	Stopped pumping.
09:44:00	Commenced pumping brine down tubing and annulus at 0.5 bbls/min to establish 400 sands injection rate.
09:52:00	Increased pump rate on tubing to 0.75 bbls/min.
09:52:00	Stopped pumping down annulus.
09:54:00	Continued pumping brine down tubing and annulus at 0.5 bbls/min
09:55:00	Increased pump rate on tubing to 1 bbls/min.
09:55:00	Stopped pumping down annulus.
09:57:00	Continued pumping brine down tubing and annulus at 0.5 bbls/min
09:58:00	Increased pump rate on tubing to 1.25 bbls/min.
10:00:00	Stopped pumping down annulus.
10:07:00	Increased pump rate on tubing to 1.5 bbls/min.
10:08:00	Increased pump rate on tubing to 1.75 bbls/min.
10:10:00	Increased pump rate on tubing to 2 bbls/min.
10:14:00	Increased pump rate on tubing to 2.5 bbls/min.
10:24:00	Increased pump rate on tubing to 5 bbls/min.
10:32:00	Diesel interface in annulus.
11:10:00	Stopped pumping down tubing. (280 bbls brine pumped)
11:13:00	Bled off annulus pressure to 1,250 psi.
11:15:00	Bled off THP to 100 psi via choke manifold direct to surge tank.
11:17:00	Closed choke manifold.
11:17:00	Bled off annulus pressure.
11:20:00	Bled off THP to 50 psi via choke manifold direct to surge tank.
11:27:00	Closed ICV.
11:28:00	Closed FWV.
11:35:00	Pressurised on tubing to 5,000 psi to set packers.
11:46:00	Increased pressure on tubing to 6,000 psi to set packers. (4.5 bbls pumped)
13:00:00	Bled off THP. (4.5 bbls returned)
13:04:00	Bled off pressure between choke manifold and FWV to 30 psi via choke manifold direct to surge tank.
13:05:00	Closed choke manifold.
13:05:00	Opened ICV.
13:07:00	Opened FWV.
13:10:00	Commenced pressure testing HF-1 packer to 3,800 psi.
13:12:00	Stopped pressure testing. Failed test. Communication between annulus and tubing.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
02/09/08	
13:18:00	Bled off annulus pressure. (4.5 bbls returned)
13:19:00	Bled off THP to 30 psi via choke manifold direct to surge tank.
13:20:00	Stand-by for decision from the beach.
20:00:00	Expro slickline rigged up.
22:38:00	Opened SSSV.
22:58:00	Closed SSSV.
23:17:00	Closed FMV.
23:20:00	Opened SSSV.
23:21:00	Bled off THP via choke manifold.
23:29:00	Shut in at choke manifold.
23:45:00	Closed FMV.
23:47:00	Opened FMV.
03/09/08	
00:30:00	Opened ICV.
00:32:00	Pressurised tubing to cycle FBIV.
00:44:00	Closed annulus master valve.
01:00:00	Annulus master valve is in open position.
01:15:00	Opened SSSV.
02:19:00	Bled off THP at choke manifold (1.2 bbls returned).
02:28:00	Expro slickline commenced RIH with shifting tool.
04:11:00	Expro slickline completed POOH.
04:15:00	Bled off THP via choke manifold (0.4 bbls returned).
05:26:00	Opened FWV.
05:29:00	Opened FMV.
05:31:00	Commenced cycling FBIV to open position.
06:50:00	Completed cycling FBIV to open position.
07:06:00	Opened FKV.
09:19:00	Commenced reverse circulating tubing to brine to kill well.
09:27:00	Opened choke manifold direct to surge tank.
09:41:00	Bypassed surge tank to starboard flare boom.
10:06:00	Stopped reverse circulating tubing to brine. (Cumulative Pumped = 60 bbls pumped)
10:23:00	Continued reverse circulating tubing to brine.
10:28:00	Opened choke manifold direct to surge tank.
10:31:00	Bypassed surge tank to starboard flare boom.
10:45:00	Diverted flow to surge tank.
11:41:00	Bypassed surge tank to starboard flare boom.
13:00:00	Stopped reverse circulating tubing to brine. (Cumulative Pumped = 280 bbls pumped)
13:02:00	Closed choke manifold.
13:03:00	Bled off THP via choke manifold direct to surge tank.
13:10:00	Continued reverse circulating tubing to brine.
13:10:00	Opened choke manifold direct to surge tank.
13:41:00	Completed reverse circulating tubing to brine.
13:42:00	Closed choke manifold.
13:47:00	Bled off THP to 10 psi via choke manifold direct to surge tank.
14:04:00	Opened choke manifold direct to surge tank.
14:23:00	Closed choke manifold.
21:00:00	Commenced rigging up Expro slickline.
04/09/08	
00:37:00	Completed rigging up Expro slickline.
01:00:00	Standby to rerun completion.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
09/09/08	
10:30:00	Picked up Expro bails.
12:15:00	Held JSA prior to picking up flowhead.
12:30:00	Picked up flowhead.
14:30:00	Landed flowhead.
14:30:00	Picked up coflexip hose.
15:00:00	Made up coflexip hose.
15:30:00	Made up kill line to flowhead.
16:29:00	Flushed surface lines across flowhead via choke manifold direct to surge tank.
16:32:00	Closed choke manifold.
16:37:00	Commenced pressure testing flowhead and surface lines against KMV and choke manifold to 5,500 psi.
16:49:00	Bled off THP. Failed test.
17:00:00	Commenced pressure testing flowhead and surface lines against KMV and choke manifold to 5,500 psi.
17:31:00	Completed pressure testing. Good test.
19:30:00	Commenced rigging up Expro slickline.
19:34:00	Closed FMV.
19:35:00	Bled off THP via choke manifold to starboard flare boom.
19:41:00	Opened swab valve.
19:42:00	Closed choke manifold.
22:28:00	Pressure tested lubricator to 4,000 psi.
23:00:00	Expro slickline commenced RIH with Isolation Sleeve Pulling Tool.
23:15:00	Expro slickline completed POOH.
10/09/08	
00:15:00	Closed XOV.
00:39:00	Bled off THP via choke manifold to starboard flare boom.
01:30:00	Pressure tested lubricator to 4,000 psi.
02:00:00	Expro slickline commenced RIH to set Short Wireline Protection Sleeve.
02:14:00	Expro slickline completed POOH.
02:51:00	Pressure tested lubricator to 4,000 psi.
03:21:00	Expro slickline commenced RIH to retrieve 4.562" RQ Lock from SSSV. Failed retrieval.
03:58:00	Expro slickline completed POOH.
04:02:00	Bled off THP via choke manifold to starboard flare boom.
04:57:00	Pressure tested lubricator to 4,000 psi.
05:28:00	Bled off THP via choke manifold to starboard flare boom.
05:39:00	Expro slickline commenced RIH to retrieve 4.562" RQ Lock from SSSV. Second attempt.
06:55:00	Expro slickline completed POOH.
07:00:00	Bled off THP to 350 psi via choke manifold direct to surge tank.
07:27:00	Bled off THP via choke manifold direct to surge tank.
07:58:00	Pressure tested lubricator to 4,000 psi.
08:30:00	Expro slickline commenced RIH to open sliding sleeve.
09:18:00	Expro slickline commenced opening sliding sleeve.
09:30:00	Expro slickline completed opening sliding sleeve and POOH.
09:44:00	Isolated AnnP for reverse circulation.
10:20:00	Expro slickline completed POOH.
10:38:00	Commenced reverse circulating tubing to brine.
10:54:00	Stopped pumping.
11:25:00	Commenced reverse circulating tubing to brine.
11:35:00	Completed pumping.
12:02:00	Bled off tubing gas cap via choke manifold direct to starboard flare boom.
13:10:00	Completed bleeding gas cap.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
10/09/08	
13:39:00	Commenced flushing surface lines via choke manifold with filtered inhibited brine direct to starboard flare boom.
13:45:00	Completed flushing surface lines. (Total pumped = 5 bbls)
13:54:00	Closed FWV.
14:00:00	Commenced conventional circulating tubing to brine.
16:30:00	Completed conventional circulating. (Cumulative Pumped = 300 bbls pumped)
16:40:00	Opened FWV.
16:46:00	Bled off THP via choke manifold direct to surge tank.
16:58:00	Closed FWV.
17:10:00	Pressure tested lubricator to 5,500 psi.
17:45:00	Expro slickline commenced RIH to set 4.562" XX Plug.
19:46:00	Expro slickline set 4.562" XX Plug and completed POOH.
19:54:00	Closed FMV.
20:40:00	Pressure tested lubricator to 5,500 psi.
21:11:00	Bled off THP via Halliburton cement unit.
21:18:00	Opened FMV.
21:35:00	Pressure tested tubing to 5,500 psi.
22:08:00	Closed SSSV.
22:12:00	Bled off THP via Halliburton cement unit to 1,000 psi.
22:18:00	Inflow tested SSSV to 1,000 psi. Good test. Increased pressure to 5,000 psi to equalise.
22:39:00	Opened SSSV.
22:41:00	Bled pressure off via Halliburton cement unit.
23:00:00	Expro slickline RIH to retrieve 4.562" XX Plug.
11/09/08	
01:02:00	Failed to latch onto 4.562" XX Plug, completed POOH.
01:07:00	Bled off THP via choke manifold direct to surge tank.
01:41:00	Closed choke manifold.
01:41:00	Opened swab valve.
01:53:00	Pressure tested lubricator to 4,500 psi.
02:21:00	Bled off THP via choke manifold direct to surge tank.
02:35:00	Expro slickline RIH to retrieve 4.562" XX Plug.
03:58:00	Latched onto 4.562" XX Plug, completed POOH.
04:39:00	Pressure tested lubricator to 4,500 psi.
04:45:00	Bled pressure off via Halliburton cement unit.
04:57:00	Pressure tested lubricator to 4,500 psi.
05:12:00	Bled pressure off via Halliburton cement unit.
05:15:00	Held JSA prior to displacing tubing to diesel.
06:15:00	Commenced displacing tubing to diesel via KWV.
07:41:00	Completed displacing tubing. (205 bbls diesel pumped)
07:53:00	Closed FMV. (SITHP = 1,040 psi)
07:58:00	Commenced flushing cement and Expro flow lines with seawater via choke manifold direct to surge tank.
08:00:00	Commenced flushing lines. (3 bbls drill water pumped)
08:05:00	Pressurised flowhead and surface lines to choke manifold to SITHP.
08:10:00	Opened FMV.
08:15:00	Expro slickline RIH to close sliding sleeve.
09:27:00	Expro slickline closed sliding sleeve.
09:27:00	Lower formation taking losses.
10:00:00	Expro slickline completed POOH.
10:02:00	Closed FMV.
10:05:00	Bled off THP via choke manifold direct to surge tank.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
11/09/08	
10:34:00	Pressure tested lubricator against FMV and choke manifold to 3,000 psi.
10:43:00	Bled off THP via Halliburton cement unit to SITHP.
10:45:00	Opened FMV.
10:45:00	SITHP settled at 840 psi.
10:50:00	Expro slickline commenced RIH to set 4.313" RX Plug.
12:20:00	Expro slickline set 4.313" RX Plug and completed POOH.
12:25:00	Closed FMV.
12:27:00	Bled off THP via choke manifold direct to surge tank.
12:50:00	Pressure tested lubricator against FMV and choke manifold to 3,000 psi.
13:02:00	Bled off THP via choke manifold direct to surge tank to SITHP.
13:08:00	Opened FMV.
13:16:00	Pressurised tubing to 2,000 psi to test all surface lines.
13:28:00	Increased pressure on tubing to 3,500 psi to set AHC packers.
13:34:00	Increased pressure on tubing to 5,500 psi to set AHC packers and pressure test tubing.
14:15:00	Completed pressure testing. Good test.
14:15:00	Bled THP via choke manifold direct to surge tank to SITHP to equalise across 4.313" RX Plug.
14:26:00	Opened FSV.
14:30:00	Expro slickline commenced RIH to recover 4.313" RX Plug.
14:41:00	Commenced pressure testing above AHC packer and below tubing hanger via production annulus to 3,800 psi.
14:41:00	Annulus pressure isolated during pressure test due to pump configuration.
15:00:00	Held JSA prior to flowing well.
15:30:00	Completed pressure testing. Good test.
15:38:00	Bled THP via choke manifold direct to surge tank.
16:25:00	Expro slickline completed POOH. Failed attempt.
16:30:00	Closed FMV.
16:34:00	Bled off THP via choke manifold direct to surge tank.
17:05:00	Pressure tested lubricator to 3,000 psi.
17:24:00	Bled off THP via choke manifold direct to surge tank to SITHP to equalise across 4.313" RX Plug.
17:26:00	Opened FMV.
17:30:00	Expro slickline commenced RIH to recover 4.313" RX Plug.
19:25:00	Bled off THP via choke manifold direct to surge tank.
20:23:00	Expro slickline completed POOH. Failed attempt.
20:25:00	Closed FMV.
20:26:00	Bled off THP via choke manifold direct to surge tank (1bbl returned).
20:31:00	Closed FSV.
20:37:00	Closed choke manifold.
23:01:00	Opened FSV.
23:02:00	Opened FKV.
23:24:00	Pressure tested lubricator to 4,000 psi. Good test.
23:51:00	Bled off THP via choke manifold direct to surge tank.
23:57:00	Closed FKV.
12/09/08	
00:03:00	Opened master valve.
00:04:00	Expro slickline RIH with Half 4.313" Running Tool to verify 4.131" RX Plug depth.
01:05:00	Tagged the 4.131" RX Plug at 2,473m MDRT.
02:10:00	Expro slickline completed POOH.
03:02:00	Pressure tested lubricator to 4,000 psi.
03:25:00	Bled off THP via choke manifold direct to surge tank.
03:27:00	Closed FKV.
03:30:00	Opened FMV.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
12/09/08	
03:30:00	Expro slickline RIH with 4.00" Nominal Tool to retrieve 4.131" RX Plug.
04:33:00	Latched plug.
05:37:00	Expro slickline completed POOH.
05:38:00	Closed FMV.
05:39:00	Bled off THP via choke manifold direct to surge tank.
05:43:00	Opened FKV.
05:44:00	Closed FKV.
05:47:00	Closed FSV.
05:53:00	Confirmed successful retrieval of 4.131" RX Plug.
06:14:00	Pressure tested lubricator to 4,000 psi.
06:28:00	Bled off THP via choke manifold direct to surge tank to SITHP.
06:34:00	Opened FMV and FSV.
06:35:00	Expro slickline RIH to retrieve short wireline protection sleeve.
06:45:00	Expro slickline retrieved short wireline protection sleeve and completed POOH.
06:47:00	Closed FMV.
06:49:00	Bled off THP via choke manifold direct to surge tank.
07:00:00	Expro slickline rigged down.
07:10:00	Installed 11"-4 Otis Pressure Test Cap on top of flowhead.
07:40:00	Commenced pressure test of 11"-4 Otis Pressure Test Cap against FMV and choke manifold to 4,000 psi.
07:57:00	Completed pressure test. Good test.
07:58:00	Bled off THP via choke manifold direct to surge tank to SITHP.
08:15:00	Function tested Expro ESD system.
08:48:00	Opened well on 16/64" adjustable choke via heat exchanger bypassing separator to surge tank.
08:57:00	Increased adjustable choke to 20/64".
09:00:00	BS&W showed 100% diesel.
09:02:00	Increased adjustable choke to 24/64".
09:07:00	Increased adjustable choke to 24/64".
09:20:00	Bypassed surge tank via 3" oil line to starboard flare boom.
09:30:00	BS&W showed 0.5% brine, 99.5% diesel.
09:40:00	BS&W showed 100% diesel.
09:50:00	Gas pockets at surface.
10:00:00	BS&W showed 100% diesel.
10:00:00	Draeger showed 0% CO2.
10:04:00	Brine at surface.
10:05:00	BS&W showed 100% brine.
10:08:00	Increased adjustable choke to 36/64".
10:08:00	Diverted flow via 32/64" fixed choke.
10:22:00	Diverted flow via 32/64" adjustable choke.
10:30:00	BS&W showed 100% brine.
10:30:00	Draeger showed 1% CO2.
10:31:00	Gas at surface.
10:35:00	Diverted flow via 4" gas line to starboard flare boom.
10:36:00	Bled off annulus pressure.
10:45:00	BS&W showed 100% brine.
10:45:00	Draeger showed 1% CO2.
11:00:00	BS&W showed 100% brine.
11:06:00	Bled off annulus pressure.
11:15:00	BS&W showed 100% brine.
11:30:00	BS&W showed 100% brine.
11:30:00	Draeger showed 1% CO2, 0 ppm H2S.
11:45:00	Increased adjustable choke to 36/64".

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
12/09/08	
12:00:00	BS&W showed 87.5% brine, 12.5% condensate.
12:00:00	Draeger showed 1% CO2, 0 ppm H2S.
12:30:00	BS&W showed 87.5% brine, 12.5% condensate.
12:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
12:35:00	Bled off annulus pressure.
12:45:00	Increased adjustable choke to 40/64".
13:00:00	BS&W showed 89.5% brine, 0.5% solids, 10% condensate.
13:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
13:30:00	BS&W showed 100% mud.
13:45:00	Increased adjustable choke to 44/64".
14:00:00	BS&W showed 100% mud.
14:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
14:04:00	Bled off annulus pressure.
14:30:00	BS&W showed 100% mud.
14:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
14:36:00	Deceased adjustable choke at heat exchanger to decrease pressure drop across choke and limit mud velocity.
14:43:00	Increased adjustable choke at heat exchanger.
14:48:00	Increased adjustable choke at heat exchanger.
15:00:00	BS&W showed 13.75% brine, 0.25% solids, 40% emulsion, 46% condensate.
15:20:00	Increased adjustable choke to 48/64".
15:30:00	BS&W showed 19.75% brine, 0.25% solids, 50% emulsion, 30% condensate.
15:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
15:45:00	BS&W showed 14.75% brine, 0.25% solids, 60% emulsion, 25% condensate.
16:00:00	BS&W showed 5% brine, trace solids, 70% emulsion, 25% condensate.
16:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
16:15:00	BS&W showed 1% mud, 84% emulsion, 15% condensate.
16:20:00	Increased adjustable choke to 52/64".
16:30:00	Stopped steam generator due to rig water supply.
16:30:00	BS&W showed 1% brine, 54% emulsion, 45% condensate.
16:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
16:45:00	BS&W showed 0.5% mud, 74.5% emulsion, 15% condensate.
17:00:00	Increased adjustable choke to 56/64".
17:00:00	BS&W showed 2.5% brine, 0.5% mud, 57% emulsion, 40% condensate.
17:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
17:09:00	Started steam generator.
17:15:00	BS&W showed 38% brine, 2% mud, 22.5% emulsion, 37.5% condensate.
17:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
18:00:00	BS&W showed 45% brine, 5% mud, 10% emulsion, 40% condensate.
18:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
18:00:00	Increased adjustable choke to 60/64".
18:15:00	BS&W showed 15% brine, 5% mud, 45% emulsion, 35% condensate.
18:29:00	Increased adjustable choke at heat exchanger.
18:30:00	BS&W showed 10% brine, 10% mud, 25% emulsion, 55% condensate.
18:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
19:00:00	Increased adjustable choke to 64/64".
19:00:00	BS&W showed 10% brine, 30% mud, 10% emulsion, 50% condensate.
19:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
19:06:00	Increased adjustable choke at heat exchanger.
19:18:00	Increased adjustable choke at heat exchanger.
19:30:00	BS&W showed 2% brine, 8% mud, 40% emulsion, 50% condensate.
19:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
12/09/08	
19:44:00	Diverted flow via 64/64" fixed choke due to blockage in the adjustable choke.
19:55:00	Bypassed the heater.
20:00:00	BS&W showed 5% mud, 30% emulsion, 65% condensate.
20:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
20:00:00	Stopped steam generator, one compressor on standby.
20:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
20:30:00	BS&W showed 30% emulsion, 70% condensate, trace solids.
20:45:00	BS&W showed 30% emulsion, 70% condensate, trace solids.
21:00:00	BS&W showed 30% emulsion, 70% condensate, trace solids.
21:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
21:30:00	BS&W showed 23% emulsion, 77% condensate, trace solids.
21:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
22:00:00	BS&W showed 0.25% brine, 26.5% emulsion, 73% condensate, 0.25% solids.
22:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
22:15:00	BS&W showed 0.5% brine, 22% emulsion, 77% condensate, 0.5% solids.
22:30:00	BS&W showed 0.25% brine, 19.5% emulsion, 80% condensate, 0.25% solids.
22:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
22:45:00	BS&W showed 2.5% brine, 0.5% mud, 23% emulsion, 74% condensate, trace solids.
23:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
23:15:00	BS&W showed 5% H20, 2% mud, 15% emulsion, 77% condensate, trace solids.
23:30:00	BS&W showed 2.5% H20, 0.5% mud, 21% emulsion, 76% condensate, trace solids.
23:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
13/09/08	
00:00:00	BS&W showed 1.5% H20, 0.5% mud, 16% emulsion, 82% condensate, trace solids.
00:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
00:15:00	BS&W showed 3.5% H20, 0.5% mud, 19% emulsion, 77% condensate, trace solids.
00:30:00	BS&W showed 5% H20, 1% mud, 14% emulsion, 80% condensate, trace solids.
00:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
00:45:00	BS&W showed 3% H20, 1% mud, 14% emulsion, 82% condensate, trace solids.
01:00:00	BS&W showed 1.75% H20, 0.25% mud, 18% emulsion, 80% condensate, trace solids.
01:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
01:15:00	BS&W showed 1% H20, 0.5% mud, 21.5% emulsion, 77% condensate, trace solids.
01:29:00	Diverted flow through 64/64" adjustable choke.
01:30:00	BS&W showed 2% H20, 18% emulsion, 80% condensate, trace mud.
01:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
01:41:00	Diverted flow through 64/64" fixed choke.
01:45:00	BS&W showed 2% H20, 18% emulsion, 80% condensate, trace mud.
02:00:00	BS&W showed 5.5% H20, 1.5% mud, 11% emulsion, 82% condensate, trace solids.
02:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
02:30:00	BS&W showed 19% H20, 2% mud, 2% emulsion, 77% condensate, trace solids.
02:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
02:45:00	BS&W showed 12.5% H20, 2.5% emulsion, 85% condensate, trace solids.
03:00:00	BS&W showed 9.5% H20, 3.5% mud, 2% emulsion, 85% condensate, trace solids.
03:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
03:00:00	Produced water showed chlorides = 94,700 mg/L.
03:15:00	BS&W showed 8.5% H20, 4.5% mud, 7% emulsion, 80% condensate, trace solids.
03:15:00	Produced water showed chlorides = 99,700 mg/L.
03:30:00	BS&W showed 9% H20, 3% mud, 8% emulsion, 80% condensate, trace solids.
03:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
03:45:00	BS&W showed 3% H20, 3% mud, 14% emulsion, 80% condensate, trace solids.
04:00:00	BS&W showed 5% H20, 3% mud, 12% emulsion, 80% condensate, trace solids.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
13/09/08	
04:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
04:15:00	BS&W showed 5% H20, 5% mud, 7% emulsion, 83% condensate, trace solids.
04:30:00	BS&W showed 3% H20, 2% mud, 10% emulsion, 85% condensate, trace solids.
04:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
04:30:00	Produced water showed chlorides = 100,700 mg/L.
04:45:00	BS&W showed 1% H20, 17% emulsion, 82% condensate, trace solids.
05:00:00	BS&W showed 1.5% H20, 13.5% emulsion, 85% condensate, trace solids.
05:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
05:15:00	BS&W showed 2% H20, 16% emulsion, 82% condensate, trace solids.
05:30:00	BS&W showed 7% H20, 8% emulsion, 85% condensate, trace solids.
05:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
06:00:00	BS&W showed 8% H20, 7% emulsion, 85% condensate, trace solids.
06:15:00	BS&W showed 8% H20, 7% emulsion, 85% condensate, trace solids.
06:30:00	BS&W showed 9% H20, 1% mud, 10% emulsion, 80% condensate.
06:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
06:37:00	Diverted flow via separator.
06:45:00	BS&W showed 19% H20, 1% mud, 5% emulsion, 75% condensate.
06:47:00	Lowered 4.50" orifice plate into separator gas meter run.
07:00:00	BS&W showed 25% H20, 1% mud, 5% emulsion, 70% condensate.
07:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
07:00:00	Diverted flow via 7/8" oil meter. (2-phase)
07:15:00	BS&W showed 25% H20, 1% mud, 5% emulsion, 70% condensate.
07:30:00	BS&W showed 25% H20, 1% mud, 5% emulsion, 70% condensate.
07:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
07:30:00	Diverted liquids to surge tank.
07:45:00	BS&W showed 25% H20, 1% mud, 5% emulsion, 70% condensate.
08:00:00	BS&W showed 25% H20, 1% mud, 5% emulsion, 70% condensate.
08:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
08:00:00	SG of produced gas = 0.660.
08:00:00	SG of produced condensate = 0.778 @ 60degF.
08:04:00	Diverted flow via 1" water meter. (2-phase)
08:14:00	Diverted flow via 7/8" oil meter. (2-phase)
08:18:00	Diverted flow via 1" water meter. (2-phase)
08:30:00	BS&W showed 24% H20, 1% emulsion, 75% condensate.
08:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
08:45:00	BS&W showed 24% H20, 1% emulsion, 75% condensate.
08:50:00	Commenced taking 1st PVT set of samples no 1-01a (Oil bottle no. PT-3173), and 1-01b (Gas bottle no. 4629-C1F).
09:00:00	BS&W showed 24% H20, 1% emulsion, 75% condensate.
09:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
09:15:00	BS&W showed 25% H20, 2% emulsion, 73% condensate, trace solids.
09:25:00	Completed taking 1st PVT set of samples.
09:30:00	BS&W showed 25% H20, 1% emulsion, 74% condensate, trace solids.
09:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
09:42:00	Commenced taking 2nd PVT set of samples no 1-02a (Oil bottle no. C-23205), and 1-02b (Gas bottle no. 2426A).
09:45:00	BS&W showed 25% H20, 1% emulsion, 74% condensate, trace solids.
10:00:00	BS&W showed 25% H20, 1% emulsion, 74% condensate, trace solids.
10:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
10:00:00	SG of produced gas = 0.662.
10:00:00	SG of produced condensate = 0.778 @ 60degF.
10:15:00	BS&W showed 25% H20, 1% emulsion, 74% condensate, trace solids.

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
13/09/08	
10:15:00	Completed taking 2nd PVT set of samples.
10:25:00	Commenced taking 3rd PVT set of samples no 1-03a (Oil bottle no. PT-2540), and 1-03b (Gas bottle no. A-1987).
10:30:00	BS&W showed 25% H20, 1% emulsion, 74% condensate, trace solids.
10:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
10:42:00	Manipulated water level dump valve to free plugging affecting liquid rates.
10:45:00	Obtained combine meter & shrinkage factor of 0.806. (applied from 08:00:00 13/09/08)
10:45:00	BS&W showed 30% H20, 70% condensate, trace solids.
10:52:00	Raised 4.50" orifice plate.
10:55:00	Diverted flow via 64/64" adjustable choke.
11:00:00	Produced water showed chlorides = 121,700 mg/L.
11:00:00	Completed taking 3rd PVT set of samples.
11:10:00	Diverted flow via 32/64" fixed choke.
11:15:00	BS&W showed 34% H20, 1% emulsion, 65% condensate, trace solids.
11:30:00	BS&W showed 34% H20, 1% emulsion, 65% condensate, trace solids.
11:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
11:45:00	BS&W showed 80% H20, 1% emulsion, 19% condensate, trace solids.
12:00:00	BS&W showed 90% H20, 1% emulsion, 9% condensate, trace solids.
12:00:00	Draeger showed 1.5% CO2, 0 ppm H2S.
12:00:00	SG of produced gas = 0.660.
12:00:00	SG of produced condensate = 0.778 @ 60degF.
12:15:00	BS&W showed 98% H20, 1% emulsion, 1% condensate, trace solids.
12:30:00	BS&W showed 98% H20, 1% emulsion, 1% condensate, trace solids.
12:30:00	Draeger showed 1.5% CO2, 0 ppm H2S.
12:45:00	BS&W showed 100% H20.
13:00:00	BS&W showed 100% H20.
13:00:00	Draeger showed 2% CO2, 0 ppm H2S.
13:00:00	Produced water showed chlorides = 34,500 mg/L, pH = 5.85.
13:15:00	BS&W showed 100% H20.
13:30:00	Draeger showed 2% CO2, 0 ppm H2S.
13:30:00	SG of produced gas = 0.660.
13:30:00	SG of produced condensate = 0.782 @ 60degF.
13:47:00	Raised 3.75" orifice plate.
13:49:00	Diverted flow via 32/64" adjustable choke.
13:52:00	Increased adjustable choke to 44/64".
14:00:00	Produced water showed chlorides = 17,700 mg/L, pH = 5.80.
14:08:00	Diverted flow to port flare boom.
14:14:00	Diverted flow via 44/64" fixed choke.
14:15:00	BS&W showed 80% H20, 20% condensate.
14:19:00	Lowered 3.75" orifice plate into separator gas meter run.
14:30:00	BS&W showed 80% H20, 20% condensate.
14:30:00	Draeger showed 2% CO2, 0 ppm H2S.
14:45:00	BS&W showed 90% H20, 10% condensate.
15:00:00	BS&W showed 90% H20, 10% condensate.
15:00:00	Draeger showed 2% CO2, 0 ppm H2S.
15:00:00	Produced water showed chlorides = 47,700 mg/L, pH = 5.64.
15:15:00	BS&W showed 80% H20, 20% condensate.
15:30:00	BS&W showed 80% H20, 20% condensate.
15:30:00	Draeger showed 2% CO2, 0 ppm H2S.
15:30:00	SG of produced gas = 0.652.
15:30:00	SG of produced condensate = 0.782 @ 60degF.
15:30:00	Commenced taking 5ltr IATA atmospheric condensate samples (1.18 to 1.27).

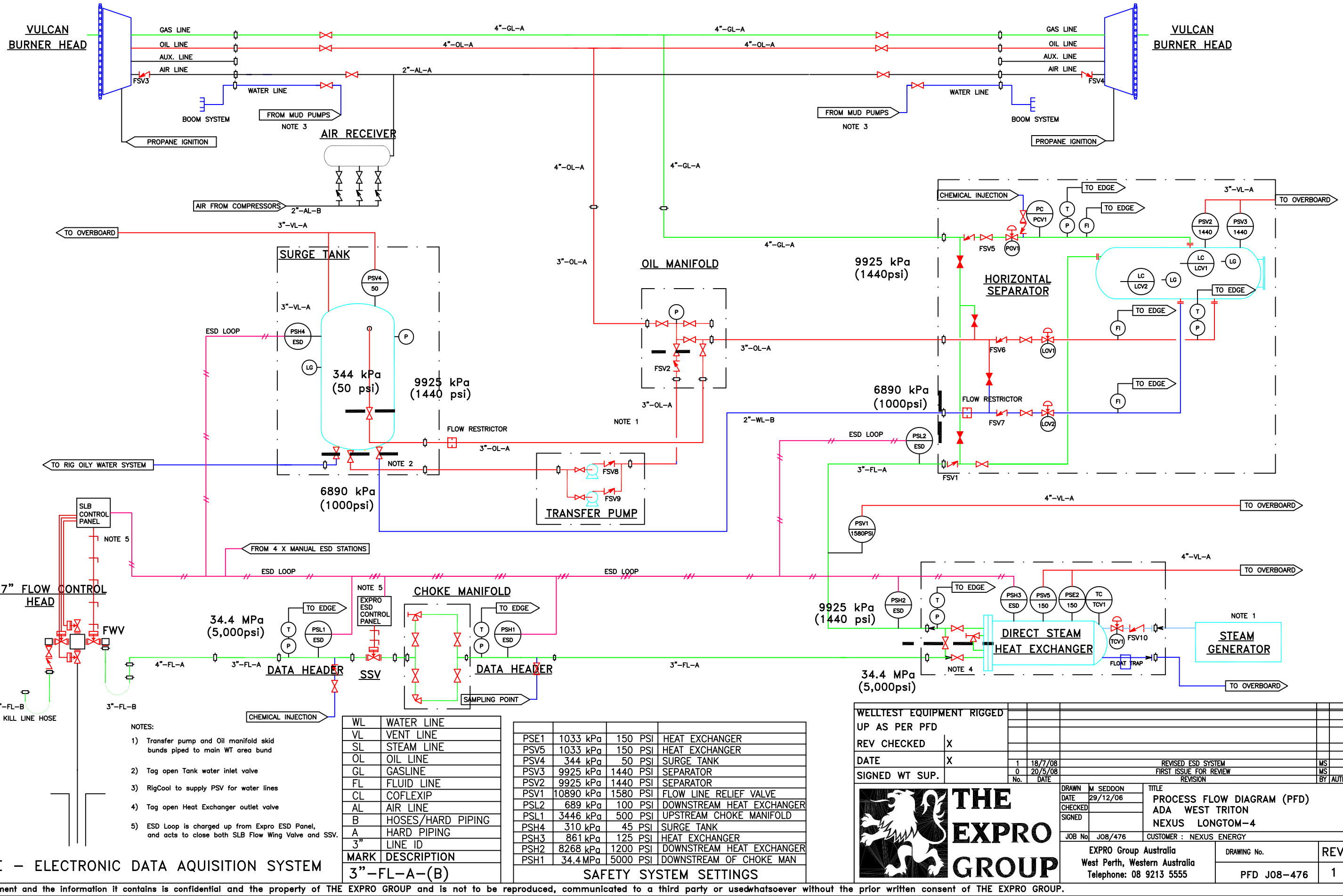
Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time	Comment
13/09/08	
15:45:00	BS&W showed 95% H20, 5% condensate.
16:00:00	BS&W showed 95% H20, 5% condensate.
16:00:00	Draeger showed 2% CO2, 0 ppm H2S.
16:15:00	BS&W showed 50% H20, 50% condensate.
16:30:00	BS&W showed 50% H20, 50% condensate.
16:30:00	Draeger showed 2% CO2, 0 ppm H2S.
16:34:00	Raised 4.50" orifice plate.
16:35:00	Diverted flow via 44/64" adjustable choke.
16:36:00	Increased adjustable choke to 56/64".
16:45:00	Completed taking 5ltr IATA atmospheric condensate samples.
16:46:00	Diverted flow via 56/64" fixed choke.
16:46:00	Lowered 3.75" orifice plate into separator gas meter run.
17:00:00	BS&W showed 15% H20, 85% condensate.
17:00:00	Draeger showed 2% CO2, 0 ppm H2S.
17:15:00	BS&W showed 48% H20, 1% mud, 51% condensate.
17:15:00	Condensate sample taken 205ltr atmospheric (1.28).
17:30:00	BS&W showed 48% H20, 1% mud, 51% condensate.
17:30:00	Diverted flow via 7/8" oil meter. (2-phase)
17:45:00	BS&W showed 50% H20, 50% condensate.
17:50:00	Condensate sample taken 205ltr atmospheric (1.29).
18:00:00	BS&W showed 25% H20, 75% condensate, trace solids.
18:15:00	BS&W showed 40% H20, 60% condensate, trace solids.
18:30:00	BS&W showed 30% H20, 70% condensate, trace solids.
18:45:00	BS&W showed 16% H20, 84% condensate, trace solids.
19:00:00	BS&W showed 17% H20, 83% condensate, trace solids.
19:15:00	BS&W showed 35% H20, 65% condensate, trace solids.
19:25:00	BS&W showed 20% H20, 80% condensate, trace solids.
19:30:00	BS&W showed 19% H20, 81% condensate, trace solids.
19:40:00	BS&W showed 20% H20, 80% condensate, trace solids.
19:44:00	Removed 4.0" orifice plate.
19:47:00	Bypassed 7/8" oil meter.
19:47:00	Bled off Annulus pressure.
19:51:00	Shut in at choke manifold.
19:52:00	Bled off downstream pressure to port flare boom.
21:00:00	SITHP = 3,561 psi.
21:03:00	Closed SSSV.
21:05:00	Bled off THP via choke manifold to 200psi.
21:25:00	Closed choke manifold, commenced inflow test of SSSV.
22:25:00	Completed inflow test. Good test.
23:01:00	Bled down THP via choke manifold to starboard flare boom.
23:07:00	Closed FMV.
14/09/08	
00:00:00	End of test.

SECTION 3

Diagrams

Process Flow Diagram
Completion Schematic



NOTES:

1) Transfer pump and Oil manifold skid bunds piped to main WT area bund
2) Tag open Tank water inlet valve
3) RigCool to supply PSV for water lines
4) Tag open Heat Exchanger outlet valve
5) ESD Loop is charged up from Expro ESD Panel, and acts to close both SLB Flow Wing Valve and SSV.

MARK	DESCRIPTION
WL	WATER LINE
VL	VENT LINE
SL	STEAM LINE
OL	OIL LINE
GL	GASLINE
FL	FLUID LINE
CL	COFLEXIP
AL	AIR LINE
B	HOSES/HARD PIPING
A	HARD PIPING
3"	LINE ID
3"–FL–A–(B)	

SAFETY SYSTEM SETTINGS

PSE1	1033 kPa	150 PSI	HEAT EXCHANGER
PSV5	1033 kPa	150 PSI	HEAT EXCHANGER
PSV4	344 kPa	50 PSI	SURGE TANK
PSV3	9925 kPa	1440 PSI	SEPARATOR
PSV2	9925 kPa	1440 PSI	SEPARATOR
PSV1	10890 kPa	1580 PSI	FLOW LINE RELIEF VALVE
PSL2	689 kPa	100 PSI	DOWNSTREAM HEAT EXCHANGER
PSL1	3446 kPa	500 PSI	UPSTREAM CHOKE MANIFOLD
PSH4	310 kPa	45 PSI	SURGE TANK
PSH3	861 kPa	125 PSI	HEAT EXCHANGER
PSH2	8268 kPa	1200 PSI	DOWNSTREAM HEAT EXCHANGER
PSH1	34.4 MPa	5000 PSI	DOWNSTREAM OF CHOKE MAN

WELLTEST EQUIPMENT RIGGED UP AS PER PFD	
REV CHECKED	X
DATE	X
SIGNED WT SUP.	

No.	DATE	REVISION	BY	AUTH
1	18/7/08	REVISED ESD SYSTEM	MS	
0	20/5/08	FIRST ISSUE FOR REVIEW	MS	

THE EXPRO GROUP

DRAWN	M SEDDON
DATE	29/12/06
CHECKED	
SIGNED	
JOB No	J08/476

TITLE: PROCESS FLOW DIAGRAM (PFD)
ADA WEST TRITON
NEXUS LONGTOM–4
CUSTOMER : NEXUS ENERGY

EXPRO Group Australia
West Perth, Western Australia
Telephone: 08 9213 5555

DRAWING No. PFD J08–476 | REV. 1

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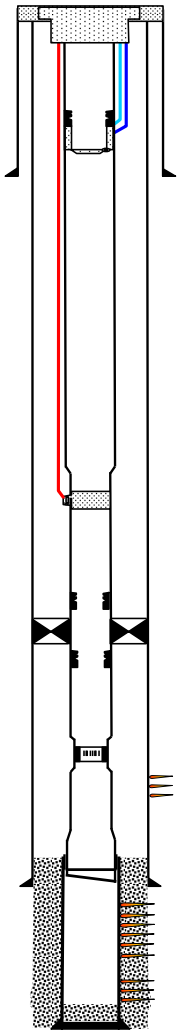
LONGTOM-4 RECOMPLETION — Rev 0, 06 October 2008 — 7" x 5½" 13Cr80 Single Completion

ACTUAL



Top of Liner at 2572m
PBTD at 4490m
Maximum Well Inclination : 94.0° at 3373m MDRT

ITEM	QTY	DESCRIPTION	Material	Weight lb/ft	Top Conn.	Bottom Conn.	Drift or Min ID	Max OD	Length	MD RT (LAT)	MD below Tbg Hgr	TVD RT (LAT)	HOLE ANGLE
		Elevation, Original RT to Tubing Hanger Land-off Shoulder	-	-	-	-	-	-	93.41m	0.00m			
1	1	**Horizontal Tree Tubing Hanger**	410SS	-	-	Fox	4.795"	17.760"	0.59m	**93.41m**	0.00m	93m	0 deg
2	1	Saver-sub Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	0.94m	94.00m	0.58m		
3	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.83m	94.94m	1.53m		
4	3	Space-out Pup Joints, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	7.56m	96.77m	3.36m		
5	11	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	138.36m	104.33m	10.92m		
6	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	2.05m	242.69m	149.28m		
7	1	**Flow Coupling, 7" Halliburton 811FN77017-F**	13Cr80	-	Fox	Fox	6.180"	7.676"	2.93m	244.74m	151.33m		
8	1	**TR-SSSV, 5½" (7" FOX Connections) Halliburton 'SP' 78OO1165 with 4.562" RQ Nipple**	13Cr80	-	Fox	Fox	4.562"	8.140"	3.07m	**247.66m**	154.25m	248m	1 deg
9	1	**Flow Coupling, 7" Halliburton 811FN77017-F**	13Cr80	-	Fox	Fox	6.180"	7.676"	2.93m	250.73m	157.32m		
10	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	2.05m	253.65m	160.24m		
11	156	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1956.18m	255.70m	162.29m		
12	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.97m	2211.88m	2118.47m		
13	1	**Crossover 13Cr80, 7" x 5½" Halliburton 892BPC75036-F**	13Cr80	-	Fox	Fox	4.888"	7.676"	0.50m	**2213.86m**	2120.45m	2056m	31 deg
14	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2214.35m	2120.94m		
15	1	Crossover Pup Joint, 5½" Fox box x Vam Top pin	13Cr80	17.0 lb/ft	Fox	Vam Top	4.767"	6.050"	1.54m	2215.87m	2122.46m		
16	1	**Gauge Mandrel, 5½" QuantX WellGuard GA-10-5373**	13Cr80	-	Vam Top	Vam Top	4.872"	7.230"	1.72m	**2217.41m**	2124.00m	2059m	31 deg
17	1	Crossover Pup Joint, 5½" Vam Top box x Fox pin	13Cr80	17.0 lb/ft	Vam Top	Fox	4.767"	5.978"	1.62m	2219.13m	2125.72m		
18	19	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	228.49m	2220.75m	2127.34m		
19	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.53m	2449.24m	2355.83m		
20	1	**Landing Nipple, 5½" Halliburton R 4.562" Bore, 711X45609**	13Cr80	17.0 lb/ft	Fox	Fox	4.562"	6.112"	0.58m	**2450.77m**	2357.36m	2250m	41 deg
21	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.65m	2451.34m	2357.93m		
22	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2453.00m	2359.59m		
23	1	**Packer, 10¾" x 5½" Halliburton AHC Retrievable 12OO3389**	13Cr80	-	Fox	Fox	4.858"	9.375"	2.34m	**2454.51m**	2361.10m	2253m	41 deg
24	1	Space-out Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	2.91m	2456.85m	2363.44m		
25	1	**Landing Nipple, 5½" Halliburton R 4.313" Bore, 811R43102-F**	13Cr80	-	Fox	Fox	4.313"	6.065"	0.41m	**2459.76m**	2366.35m	2257m	42 deg
26	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2460.17m	2366.76m		
27	1	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	12.08m	2461.69m	2368.28m		
28	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2473.77m	2380.36m		
29	1	Crossover Sub & Coupling, 5½" Fox box x 4½" 11.6# Vam Top pin	L80	-	Fox	Vam Top	3.929"	6.050"	0.56m	2475.29m	2381.88m		
30	1	Space-out Pup Joint, 4½"	13Cr80	12.6 lb/ft	Vam Top	Vam Top	3.833"	4.966"	3.00m	2475.85m	2382.44m		
31	1	**Sliding Sleeve, 4½" Halliburton Durasleeve 621XD38112 with 3.813" X Nipple**	13Cr80	-	Vam Top	Vam Top	3.813"	5.600"	1.29m	**2478.85m**	2385.44m	2271m	43 deg
32	1	Crossover Sub & Coupling, 4½" 11.6# Vam Top box x 5½" Fox pin	L80	-	Vam Top	Fox	3.929"	5.520"	0.50m	2480.14m	2386.73m		
33	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2480.65m	2387.24m		
34	6	Tubing, 5½" Fox, Range 3	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	72.66m	2482.17m	2388.76m		
35	1	Handling Pup Joint, 5½" Fox	13Cr80	17.0 lb/ft	Fox	Fox	4.767"	6.050"	1.52m	2554.83m	2461.42m		
36	1	**Crossover L80, 7" x 5½" Halliburton 892BPC75036-A**	L80	-	Fox	Fox	4.888"	7.676"	0.49m	**2556.35m**	2462.94m	2324m	51 deg
37	1	Handling Pup Joint, 7" Fox	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	1.82m	2556.84m	2463.43m		
38	1	Tubing, 7" Fox, Range 3	13Cr80	26.0 lb/ft	Fox	Fox	6.151"	7.656"	11.94m	2558.66m	2465.25m		
39	1	Handling Pup Joint, 7" Fox	13Cr80	29.0 lb/ft	Fox	-	6.059"	7.656"	3.05m	2570.60m	2477.19m		
40	-	Correction for discrepancy between tubing and liner tallies	-	-	-	-	-	-	-3.79m	2573.65m	2480.24m		
41	1	Crossover L80, Baker 7" 26# Fox box x 7⅝" 33.7# Buttress box	L80	-	-	Buttress	6.250"	8.560"	0.45m	2569.86m	2476.45m		
42	1	Crossover L80, Baker 7⅝" 33.7# Buttr. p x 7⅝" 33.7# Vam FJL p	L80	-	Buttress	Vam FJL	6.700"	8.230"	0.19m	2570.31m	2476.90m		
43	1	**Tieback Seal Assembly, Baker 7⅝" 33.7# Vam FJL box, P/n 10118250 (Top seal is 1.105m above bottom of assy)**	L80	-	Vam FJL	-	6.683"	8.350"	1.98m	**2570.50m**	2477.09m	2333m	52 deg
44	-	Overlap, Tieback Seal Assembly inside Liner (to NoGo shoulder)	-	-	-	-	-	-	-1.77m	2572.48m	2479.07m		
45	1	**Liner Setting Sleeve, 7⅝" Baker "HRD" (Top of Liner)**	L80	-	-	Hydril 511	6.760"	8.250"	2.50m	**2570.71m**	2477.30m	2333m	52 deg

LONGTOM-4 RECOMPLETION Rev 0, 06 October 2008 **7" x 5½" 13Cr80 Single Completion**

ACTUAL

ITEM	QTY	DESCRIPTION	Material	Weight lb/ft	Top Conn.	Bottom Conn.	Drift or Min ID	Max OD	Length	MD RT (LAT)	MD below Tbg Hgr	TVD RT (LAT)	HOLE ANGLE

Perforations :

Zone	Fluid	Comments	Gun Size	Gun Type	Shot Density	Phasing	Charge Type	Length	Top Shot, MDRT (LAT)	Btm Shot MDRT	Top Shot TVDRT	Top Shot ANGLE
400	Gas	Perforated w/ TCP guns, isolated between Pkr and Tieback Seals	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	22.0m	2494.0m	2516.0m	2282m	45 deg
200	Gas	Perforated overbalanced w/ TCP guns before running completion	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	78.0m	2683.0m	2761.0m	2401m	52 deg
100-1	Gas	Perforated overbalanced w/ TCP guns before running completion	4½"	TCP	5.0 spf	60 deg	Predator XP 39.0g HMX	34.0m	2828.0m	2862.0m	2490m	54 deg
50-1	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	20.4m	3132.0m	3152.4m	2611m	76 deg
100-2	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	304.0m	3640.0m	3944.0m	2624m	92 deg
100-3	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	106.4m	4085.0m	4191.4m	2653m	81 deg
100-3	Gas	Perforated overbalanced w/ TCP guns before running completion	3⅜"	TCP	3.0 spf	120 deg	Predator XP 24.0g HMX	163.0m	4243.0m	4406.0m	2676m	90 deg

Casing & Liner Data :

Item	QTY	Comments	Material / Grade	Weight lb/ft	Top Connect.	Bottom Conn.	Min ID (Drift)	Max OD	Length	Top, MDRT (LAT)	Bottom, MDRT	Bottom, TVDRT	Bottom, ANGLE
1	1	30" Conductor on STC-10 Housing plus 2 jts of 1" wall pipe.	X52	310.0 lb/ft	Lynx	Lynx	28.000"	30.000"	33.70m	95.10m	128.80m	129m	1 deg
2.01	1	Cameron 18¾" STC-10 Wellhead above Land-off Point	-	-	-	Lynx SA2	18.750"	20.000"	6.10m	93.97m	100.07m	100m	0 deg
2.02	1	Crossover Lynx SA2 x Buttress	-	-	Lynx SA2	Buttress	14.936"	17.000"	2.78m	100.07m	102.85m		
2.03	45	16" Surface Casing, 75.0 lb/ft	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	537.33m	102.85m	640.18m		
2.04	8	16" Surface Casing, 75.0 lb/ft with Centralisers	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	96.95m	640.18m	737.13m		
2.05	1	16" Surface Casing, 75.0 lb/ft with 2 Centralisers & Float Shoe	NT80DE	75.0 lb/ft	Buttress	Buttress	14.936"	17.000"	12.94m	737.13m	**750.07m**	750m	1 deg
3.01	1	Production Casing Hanger (below land-off point)		-	-	Ten. Blue	9.694"	18.600"	5.22m	95.19m	100.41m	100m	0 deg
3.02	182	10¾" Production Casing, 55.5 lb/ft	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	2112.98m	100.41m	2213.39m		
3.03	1	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	11.62m	2213.39m	2225.01m		
3.04	1	Crossover, Tenaris Box x NSCC Pin	P110	55.5 lb/ft	Ten. Blue	NSCC	9.604"	11.772"	2.06m	2225.01m	2227.07m		
3.05	3	**10¾" Production Casing, 60.7 lb/ft with Centralisers**	Q125	60.7 lb/ft	NSCC	NSCC	9.504"	11.750"	36.06m	**2227.07m**	**2263.13m**	2098m	32 deg
3.06	1	Crossover, NSCC Box x Tenaris Pin	P110	55.5 lb/ft	NSCC	Ten. Blue	9.604"	11.772"	2.07m	2263.13m	2265.20m		
3.07	15	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	174.23m	2265.20m	2439.43m		
3.08	-	Radioactive Pip Tag	-	-	Ten. Blue	Ten. Blue	-	-	0.00m	**2439.43m**	2439.43m	2242m	40 deg
3.09	11	10¾" Production Casing, 55.5 lb/ft with Centralisers	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	127.34m	2439.43m	2566.77m		
3.10	1	10¾" Float Collar, 55.5 lb/ft	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	0.36m	**2566.77m**	2567.13m	2331m	51 deg
3.11	2	10¾" Production Casing, 55.5 lb/ft (Shoe Track)	L80	55.5 lb/ft	Ten. Blue	Ten. Blue	9.604"	11.772"	23.65m	2567.13m	**2590.78m**	2346m	53 deg
4.01	1	**Liner Setting Sleeve, 7⅝" Baker "HRD"**	L80	-	-	Hydril 511	6.760"	8.250"	2.43m	2570.56m	2572.99m	2335m	52 deg
4.02	1	Liner Crossover Sub, 7⅝" Hydril 511 box x 7" Hydril 513 26# pin	L80	26.0 lb/ft	Hydril 511	Hydril 513	6.093"	7.625"	0.22m	2572.99m	2573.21m		
4.03	120	Liner 7" Range 3 (Plain)	L80	26.0 lb/ft	Hydril 513	Hydril 513	6.151"	7.000"	1386.58m	2573.21m	3959.79m		
4.04	1	Liner Crossover Sub, 7" Hydril 513 26# box x 7" Hydril 513 29# pin	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	0.57m	3959.79m	3960.36m	2639m	89 deg
4.05	54	Liner 7" Range 3 (Plain)	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	605.77m	3960.36m	4566.13m		
4.06	1	Liner Crossover Sub, 7" Hydril 513 29# box x 7" Hydril 513 26# pin	L80	29.0 lb/ft	Hydril 513	Hydril 513	6.059"	7.000"	0.53m	4566.13m	4566.66m	2687m	85 deg
4.07	7	Liner 7" Range 3 - Landing Collar & Shoe Track Joints	L80	26.0 lb/ft	Hydril 513	Hydril 513	6.151"	7.000"	80.44m	4566.66m	4647.10m		
4.08	1	Liner - Weatherford Reamer Shoe Joint	L80	26.0 lb/ft	Hydril 513	-	-	8.250"	0.90m	4647.10m	**4648.00m**	2696m	80 deg

Other Comments :

1	Water Depth = 55.97m, RT Elevation = 41.06m, therefore seabed is 97.03m below RT.
2	All depths are referenced to LAT
3	Completion fluid = Filtered & Inhibited 11.0 ppg CaCl2 Brine, with biocide added.
4	Calculated String Weight in 11.0 ppg brine = 173,000 lbs excluding 7" Riser or 181,000 lbs including 7" Riser (no allowance made for friction).
5	Minimum Restriction through completion = 3.813" at Landing Nipple, 5½" Halliburton R 4.313" Bore, 811R43102-F
6	Subsea Equipment Depths, MDRT : Top of ITC at 91.92m, Top of Subsea Tree at 91.96m, TH Landing Shoulder at 93.41m, Top of TH (Unlocked) at 92.80m, Top of 18¾" Wellhead at 93.97m.
7	The 4.313" R Nipple at 2460m is believed to be damaged - the plug moved downhole from this nipple while setting packers, but there was no apparent damage to the plug when it was recovered.
8	The initial inflow test on the TR-SSSV (immediately after flowing the well) was perfect, but a subsequent test leaked at a rate of 97 psi/hr, approximately 75% of max allowable (equates to ~680 scf/hr).
9	Baker ProductionQuest Single Gauge installed in Mandrel at 2217m MDRT is Serial Number 05-20-1273, Calibration Number 166084.
10	Total of 2 x 5½" Tubetec Cross-coupling protectors plus 168 x 7" Tubetec Cross-coupling protectors plus 2 x Tubetec Cable Protectors at TR-SSSV run with completion.

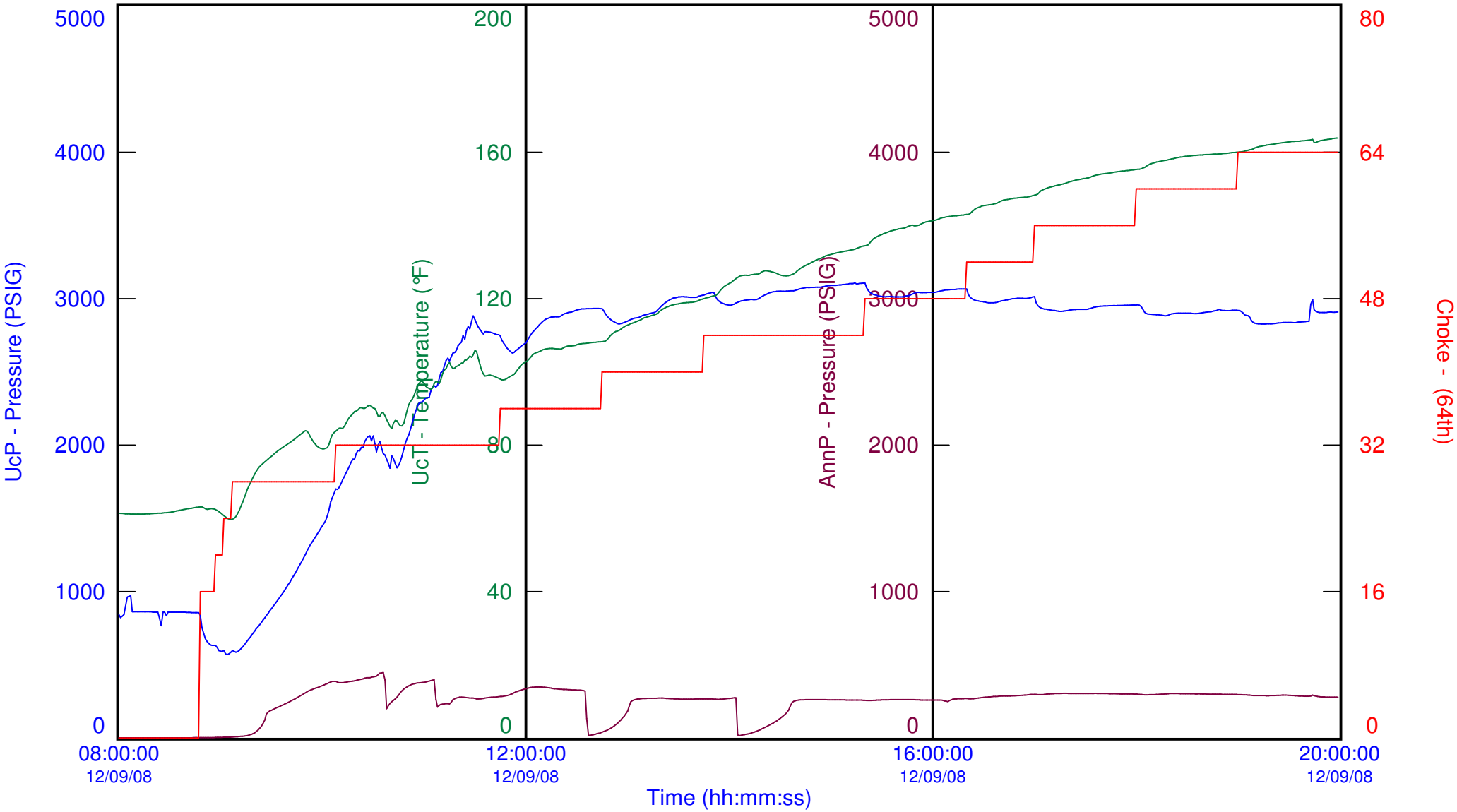
SECTION 4

Wellhead and Separator Data / Plots

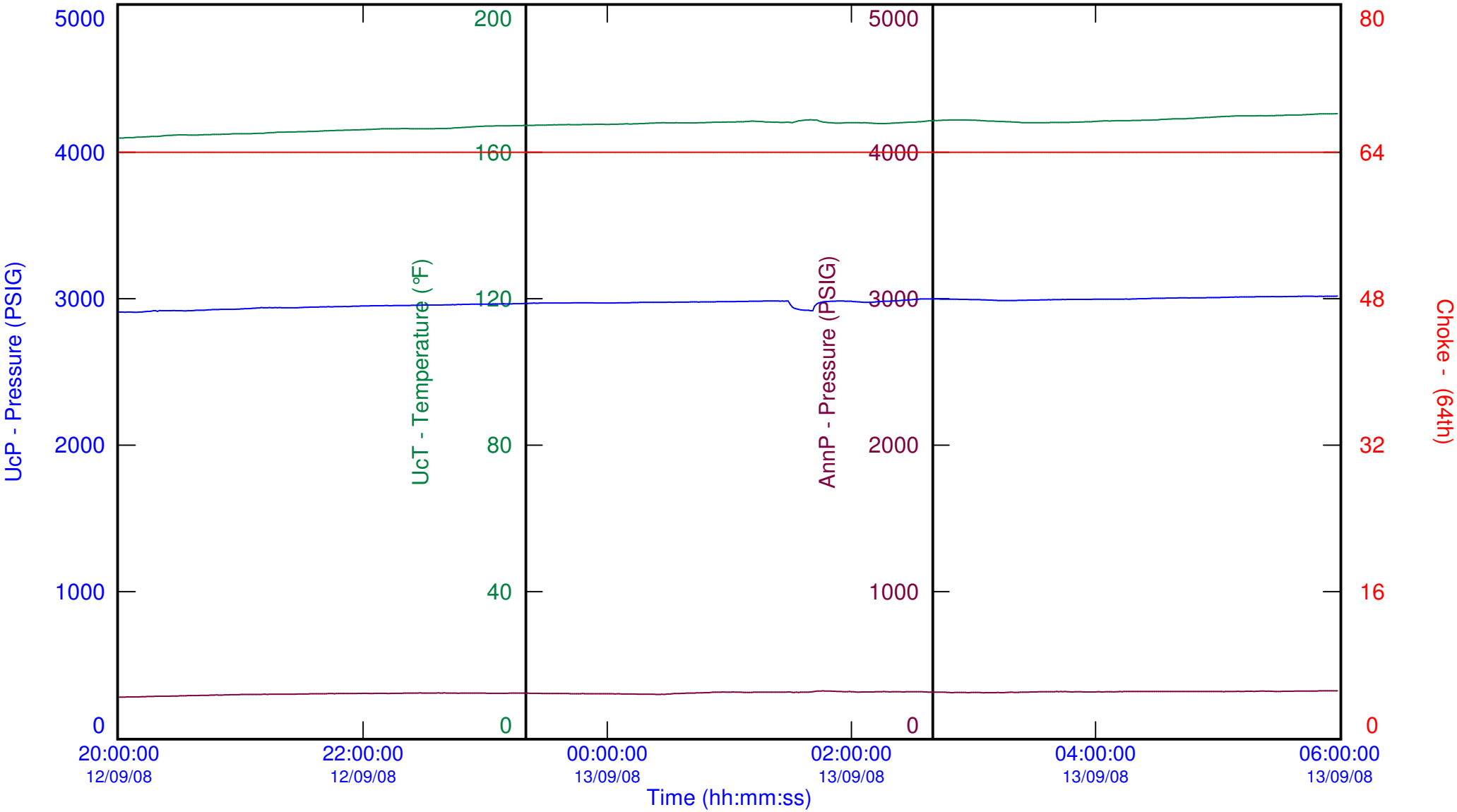
Wellhead and Separator Data / Plots

Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Start Date	12th September 2008
Country	Australia
Field	Longtom
Formation	200, 100 & 50 Sands
Expro Engineer	S. Petrig / J. Coxall
Expro Supervisor	F. Beaton
Client Engineer	S. Thomson / M. Smith
Perforations	2,494 - 4,406 mMDRT

Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Wellhead Plot
	UcP / UcT / AnnP / Choke
	Clean Up Period (1 of 2)

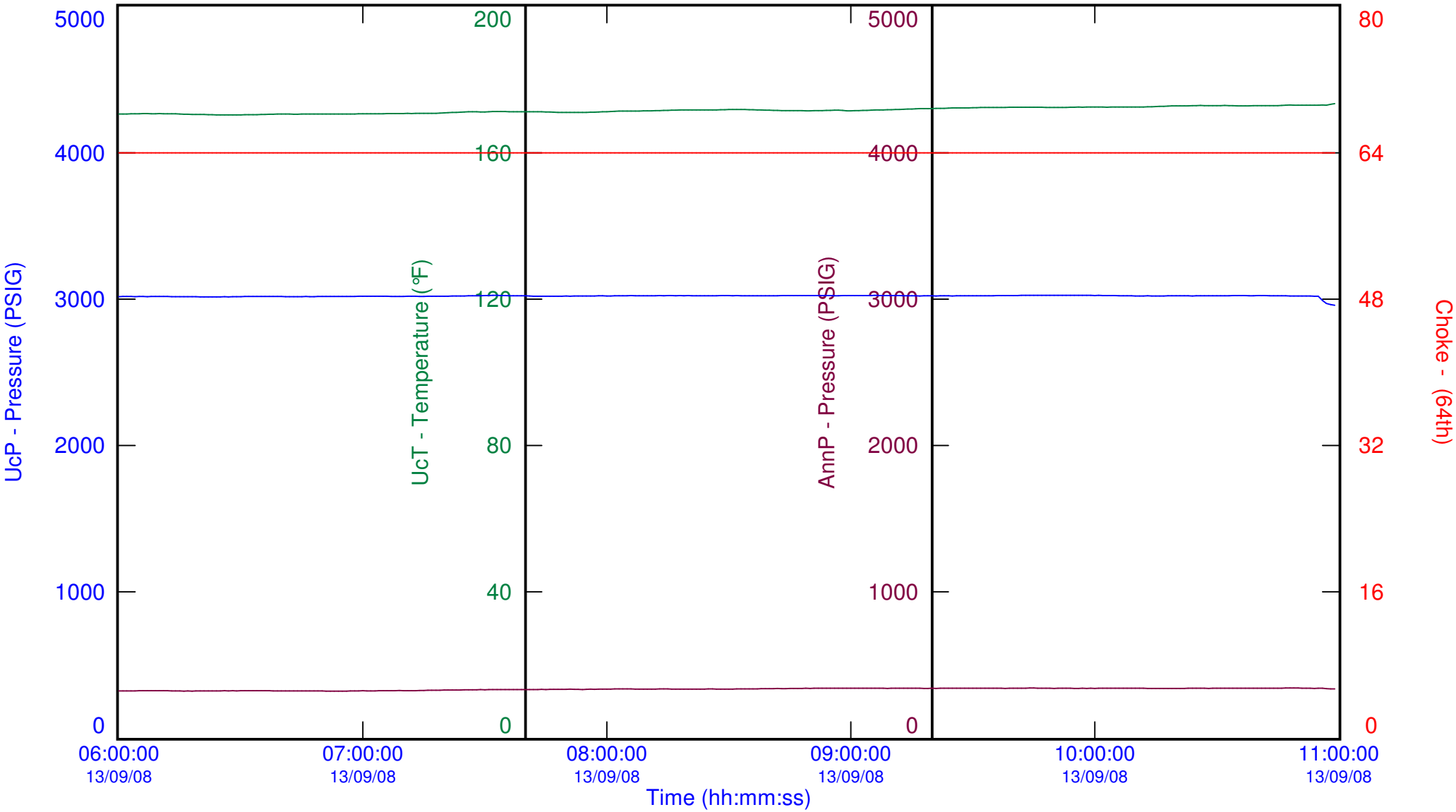


Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Wellhead Plot
	UcP / UcT / AnnP / Choke
	Clean Up Period (2 of 2)

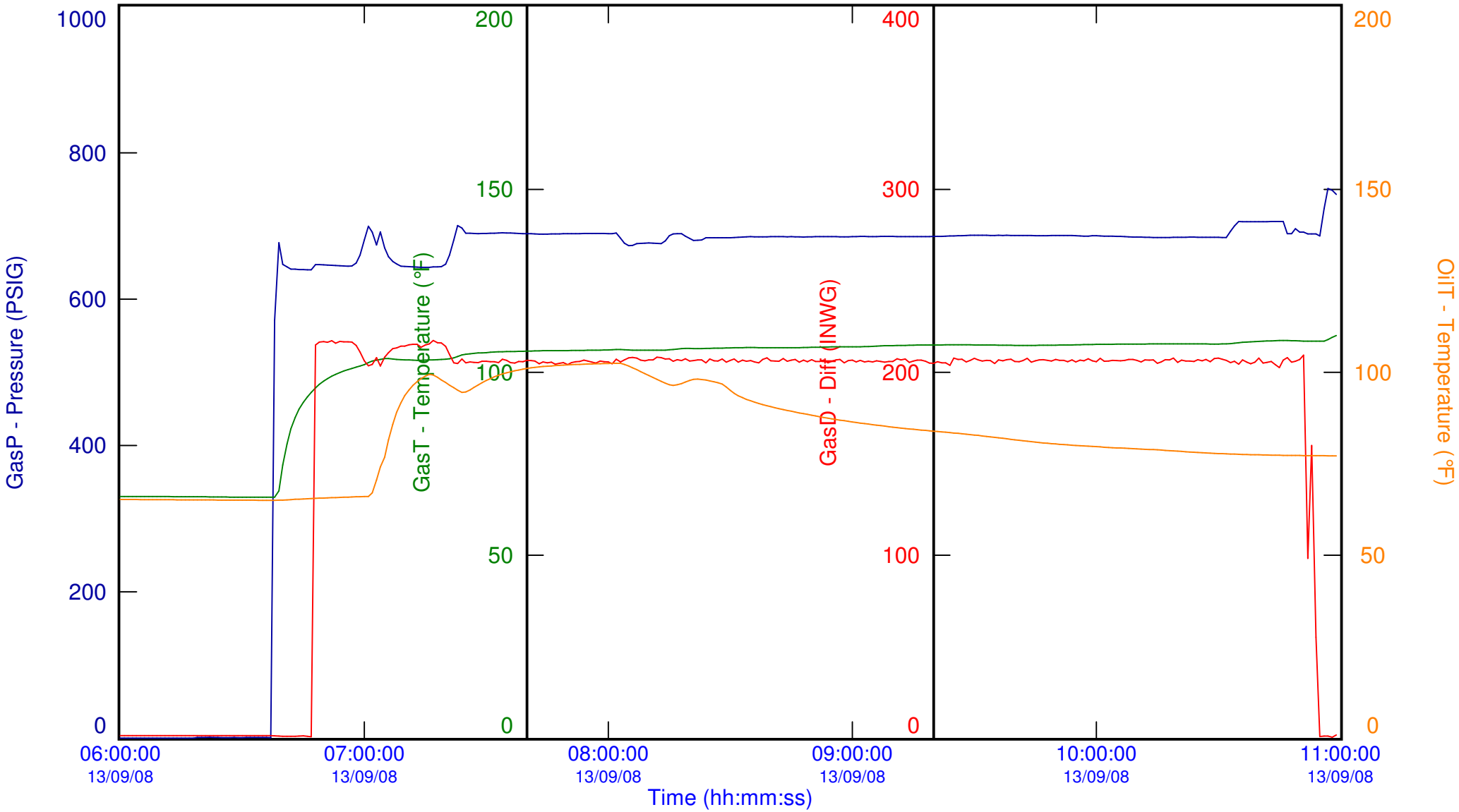


Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton

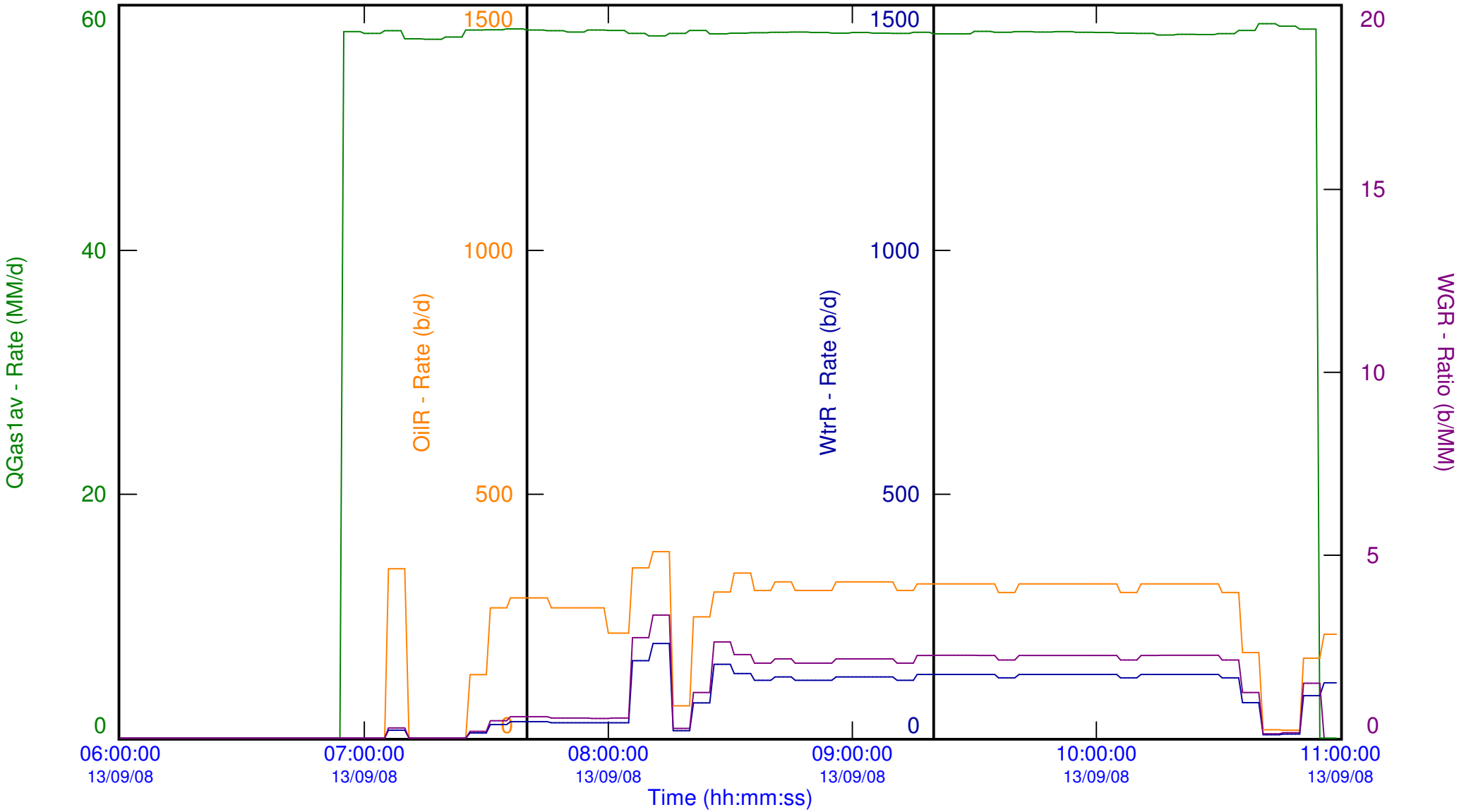
Data Type	EDGE Data
Comments	Wellhead Plot
	UcP / UcT / AnnP / Choke
	Maximum Flow Rate Period



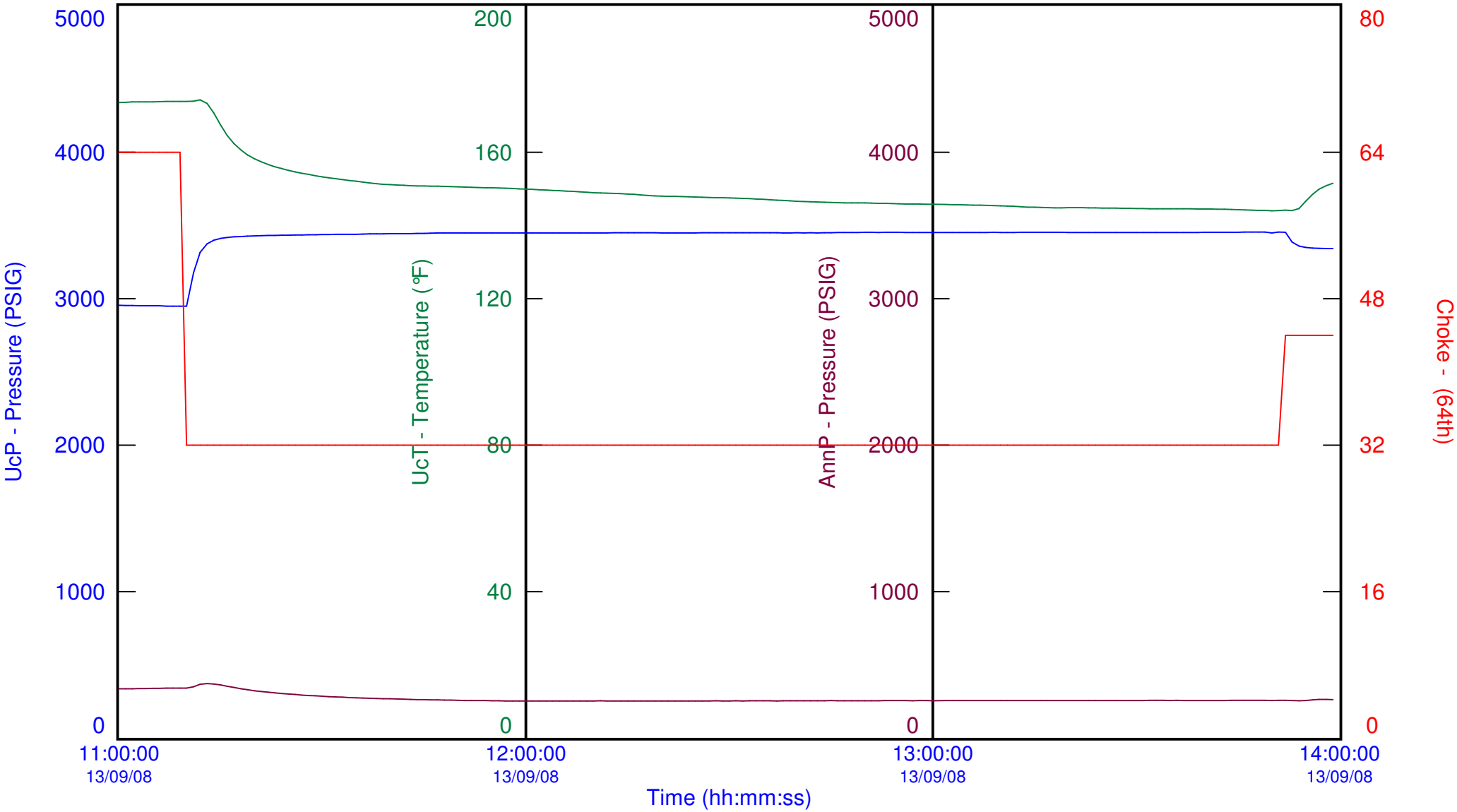
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Separator Plot
	GasP / GasT / GasD / OilT
	Maximum Flow Rate Period



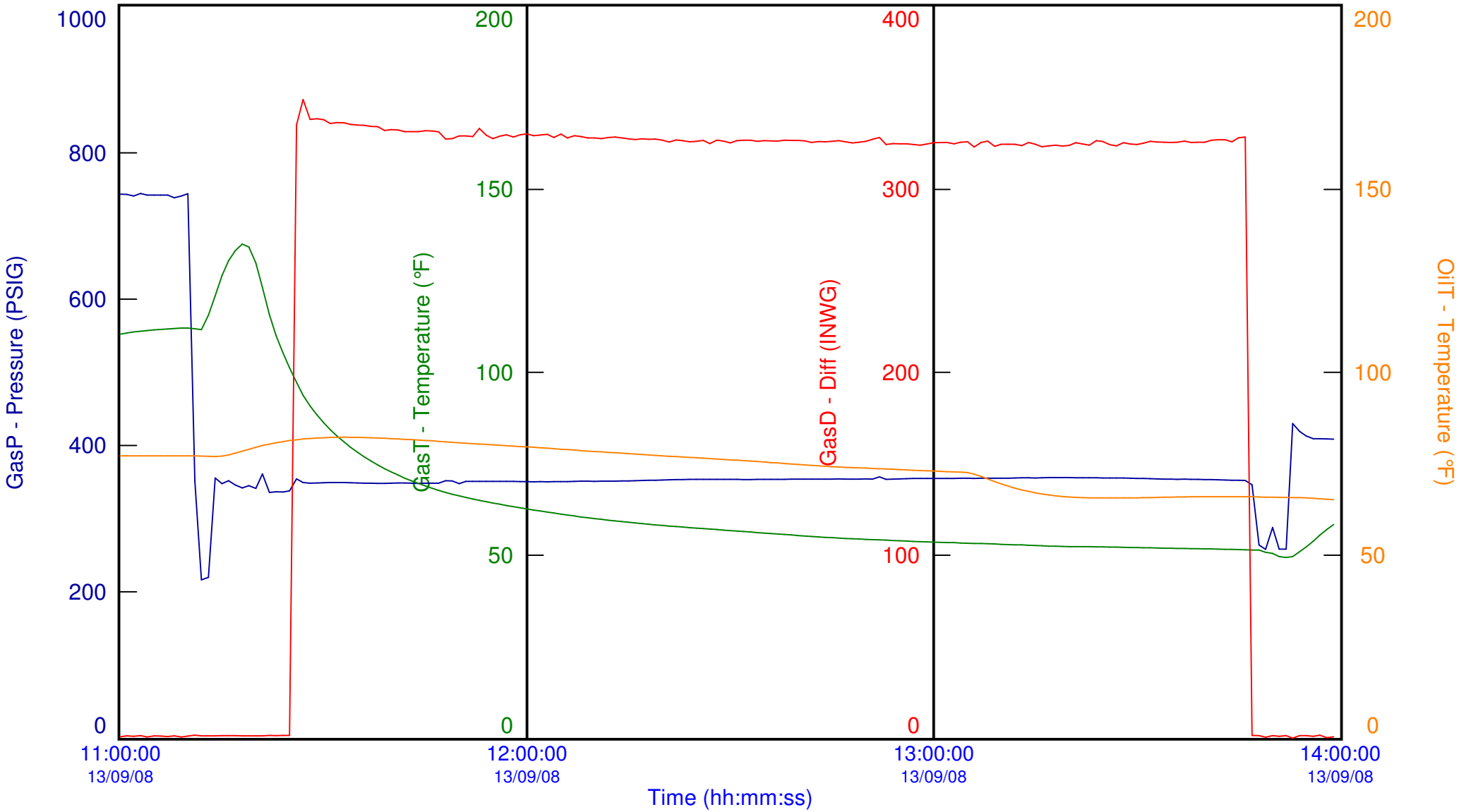
Client	Nexus Energy	**Data Type**	EDGE Data
Well No.	Longtom-4	**Comments**	Rates Plot
Test No.	Completion		Gas / Cond / Water Rates & CGR
Location	West Triton		Maximum Flow Rate Period



Client	Nexus Energy	**Data Type**	EDGE Data
Well No.	Longtom-4	**Comments**	Wellhead Plot
Test No.	Completion		UcP / UcT / AnnP / Choke
Location	West Triton		25% Flow Rate Period

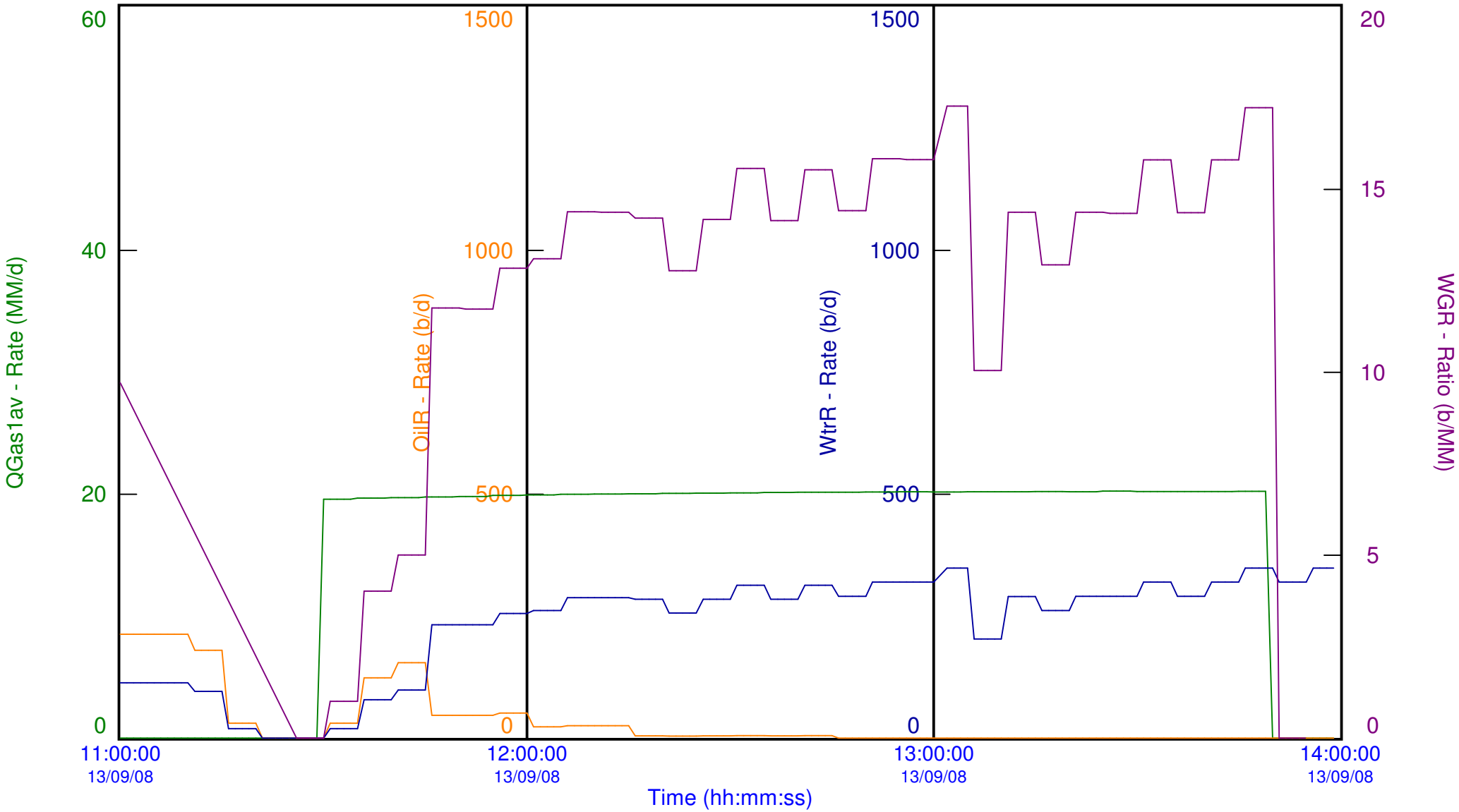


Client	Nexus Energy	**Data Type**	EDGE Data
Well No.	Longtom-4	**Comments**	Separator Plot
Test No.	Completion		GasP / GasT / GasD / OilT
Location	West Triton		25% Flow Rate Period

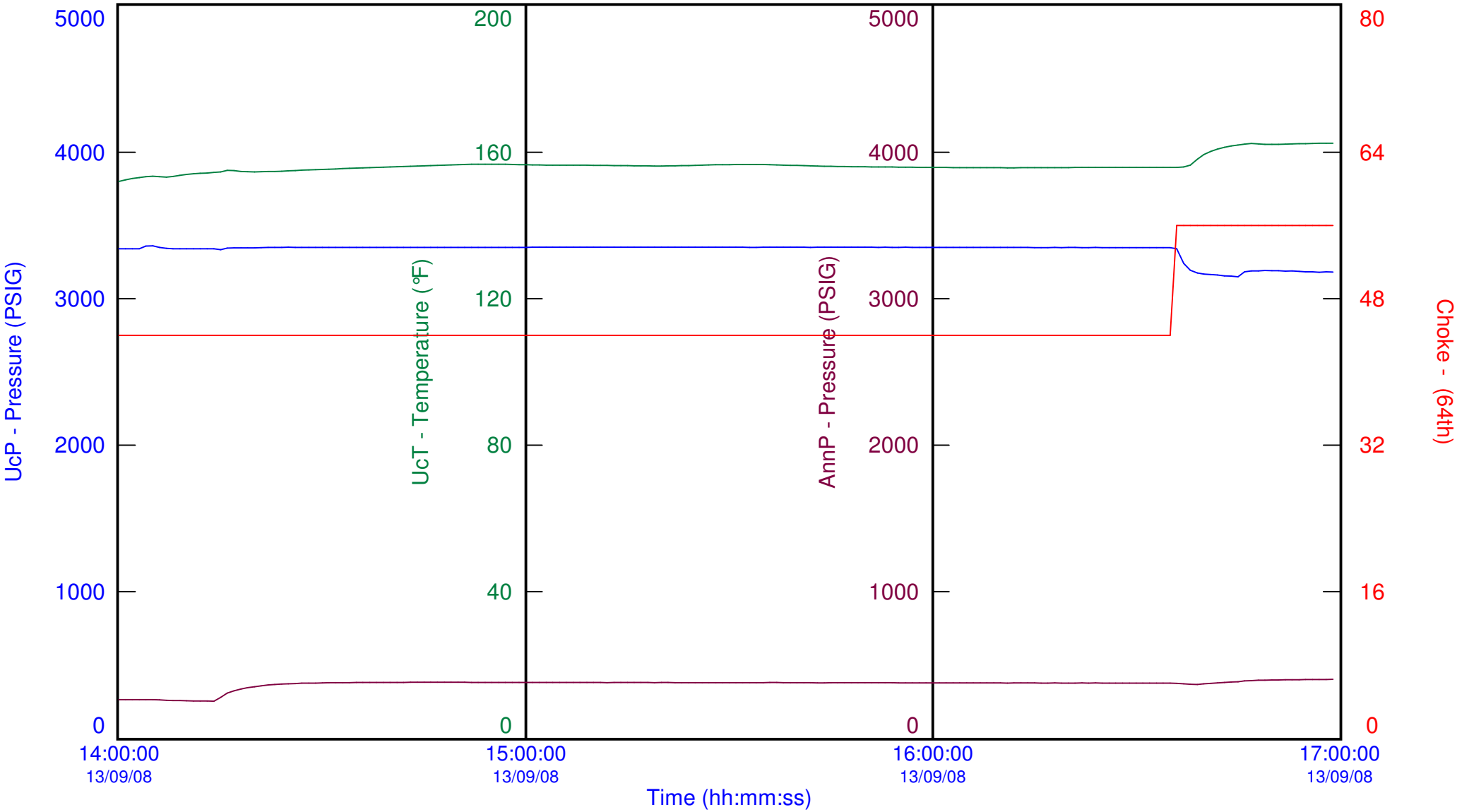


Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton

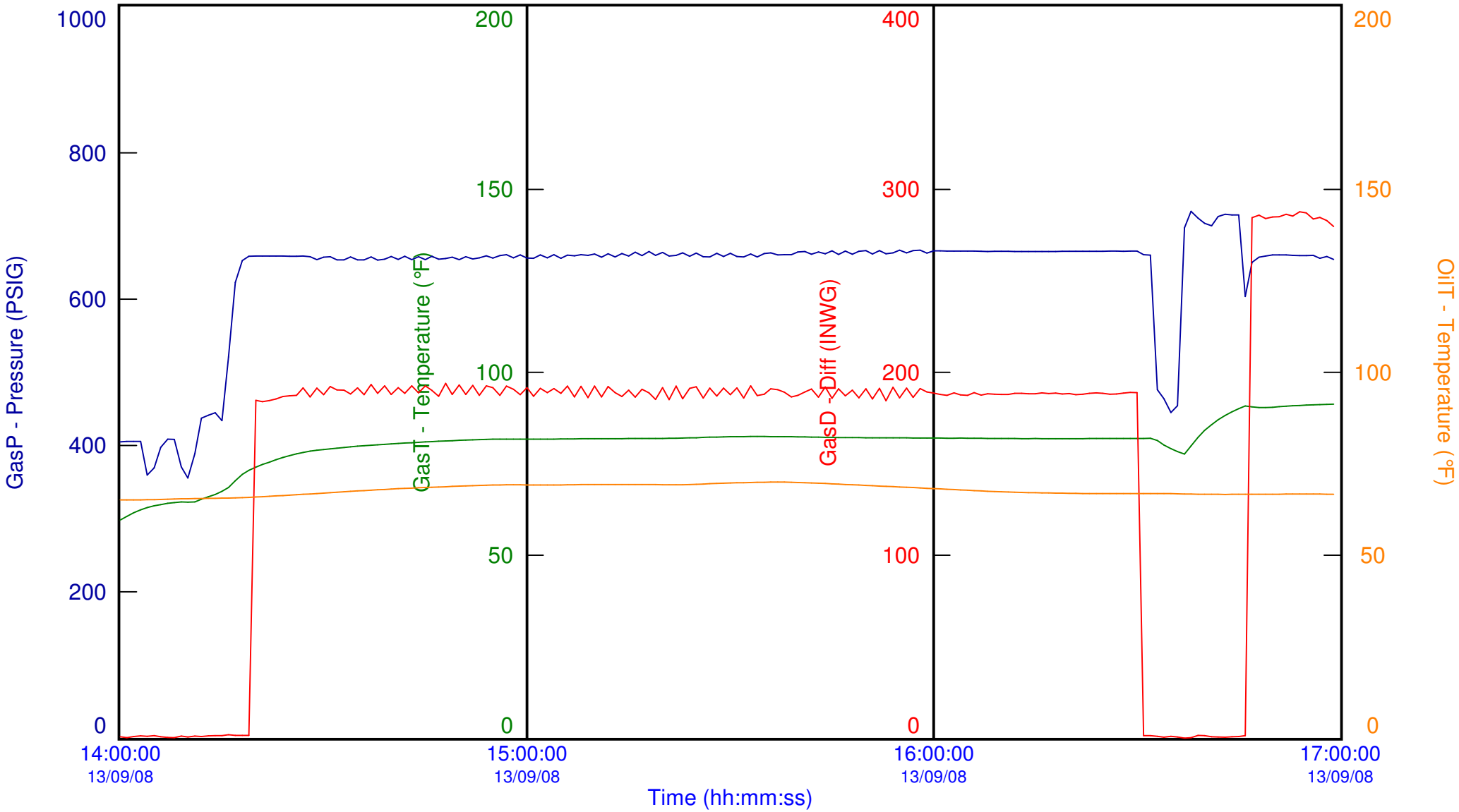
Data Type	EDGE Data
Comments	Rates Plot
	Gas / Cond / Water Rates & CGR
	25% Flow Rate Period



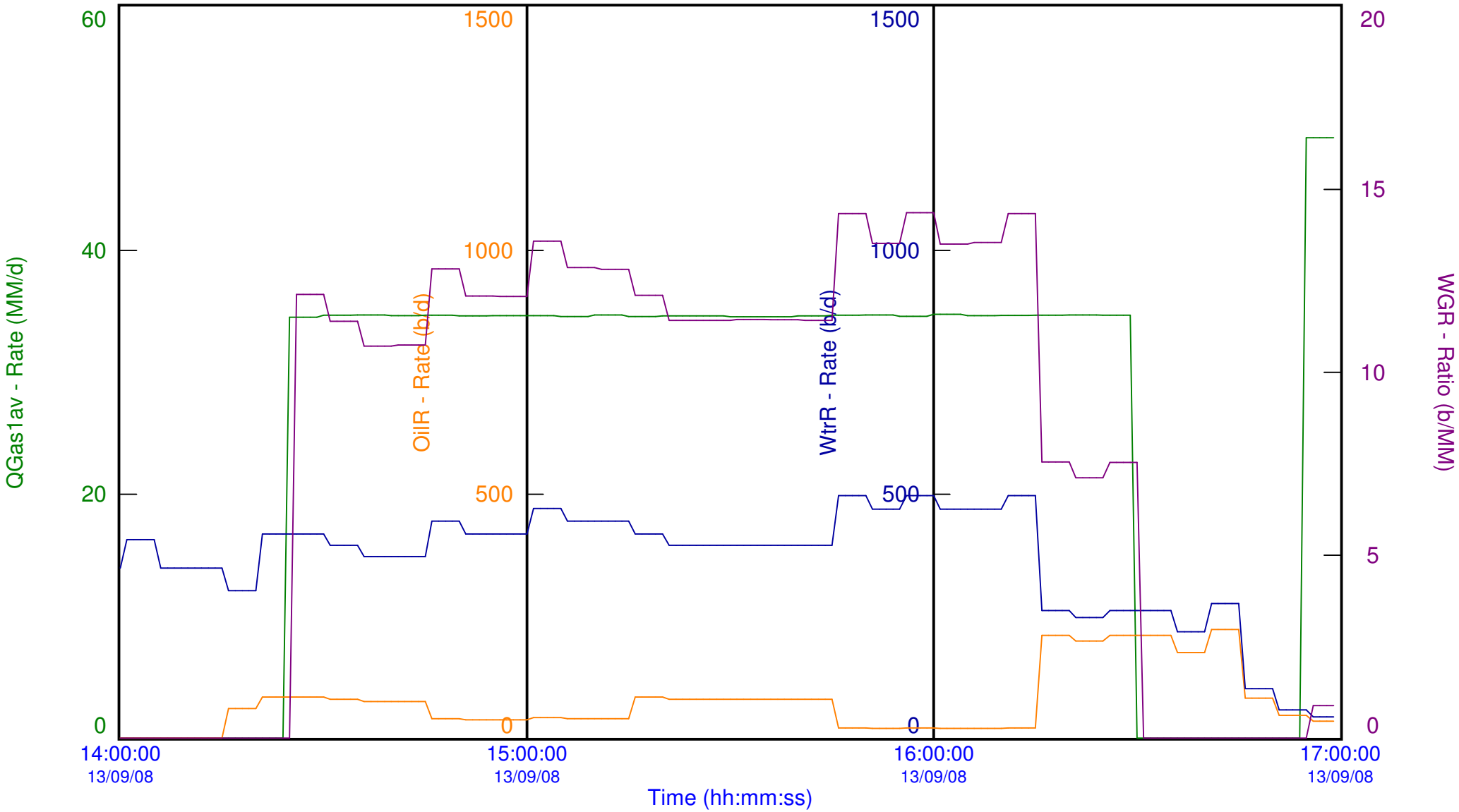
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Wellhead Plot
	UcP / UcT / AnnP / Choke
	50% Flow Rate Period



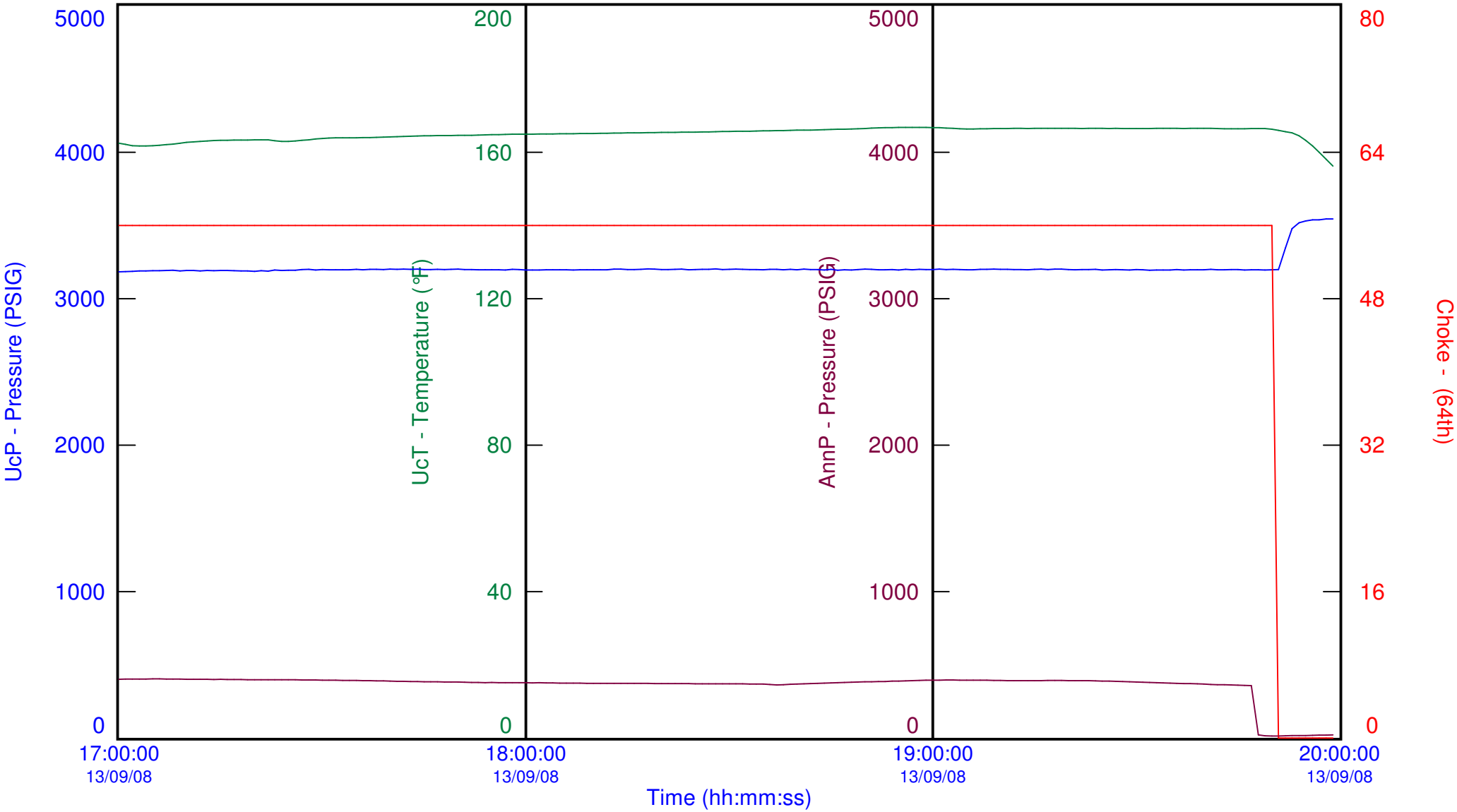
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Separator Plot
	GasP / GasT / GasD / OilT
	50% Flow Rate Period



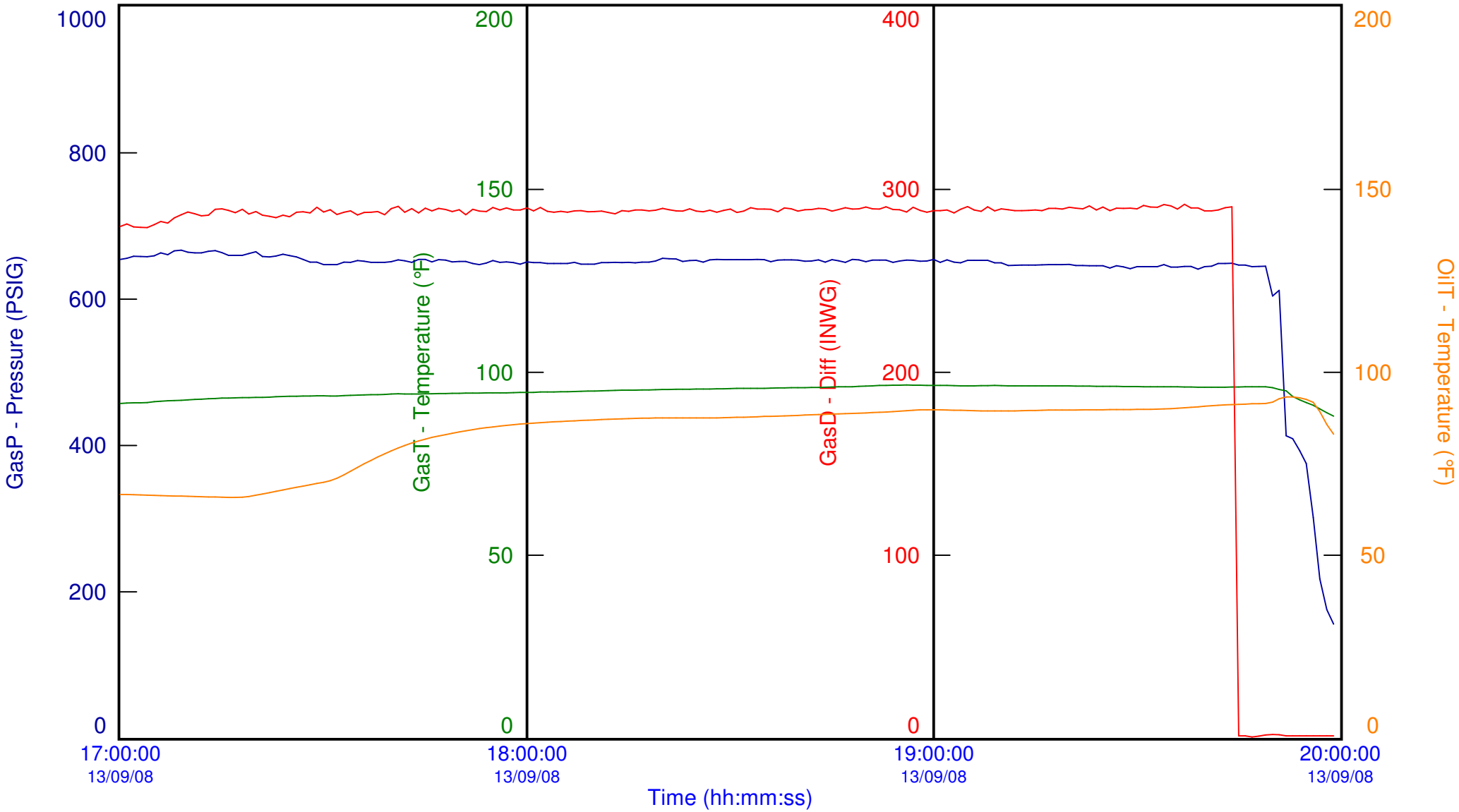
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Rates Plot
	Gas / Cond / Water Rates & CGR
	50% Flow Rate Period



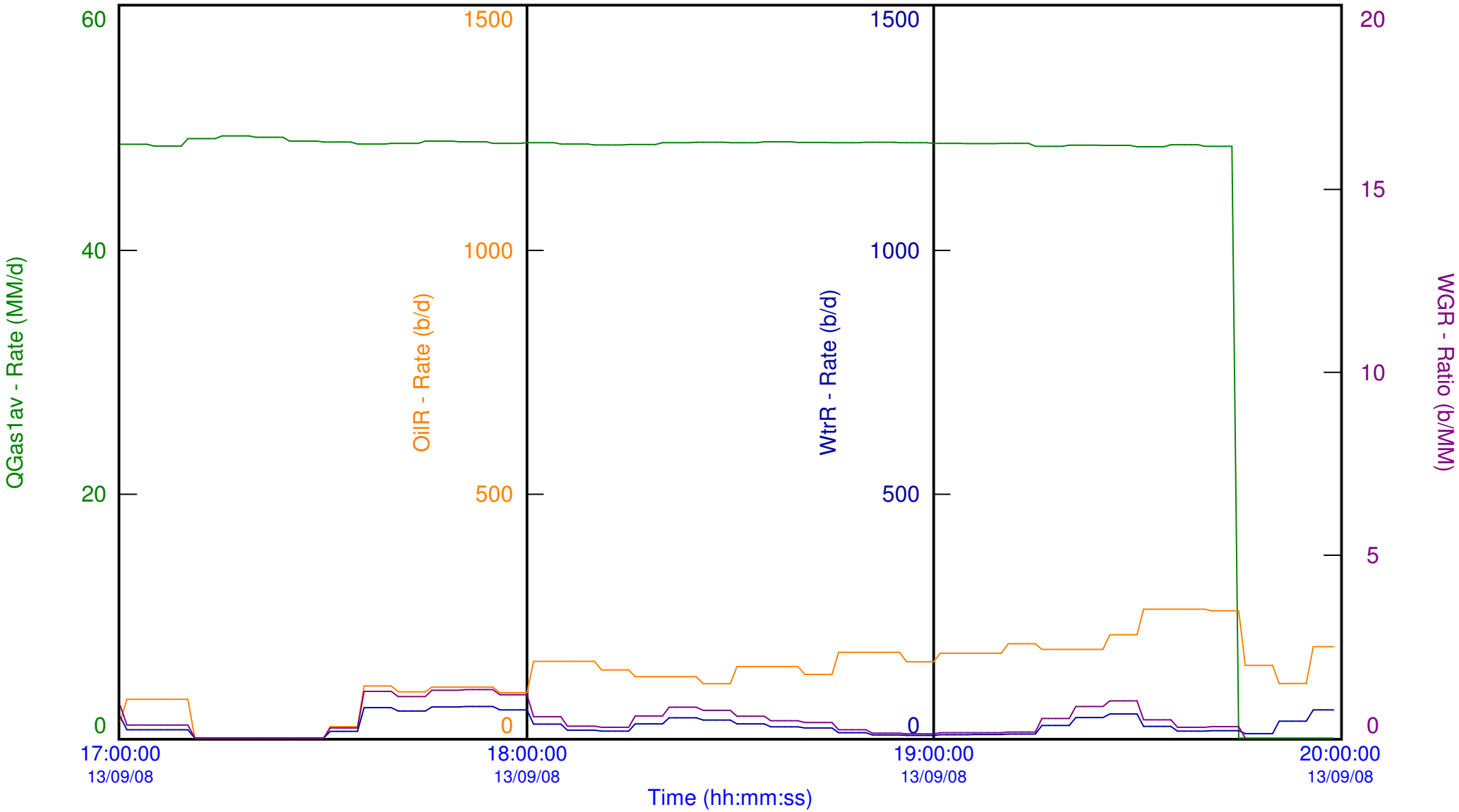
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Wellhead Plot
	UcP / UcT / AnnP / Choke
	75% Flow Rate Period



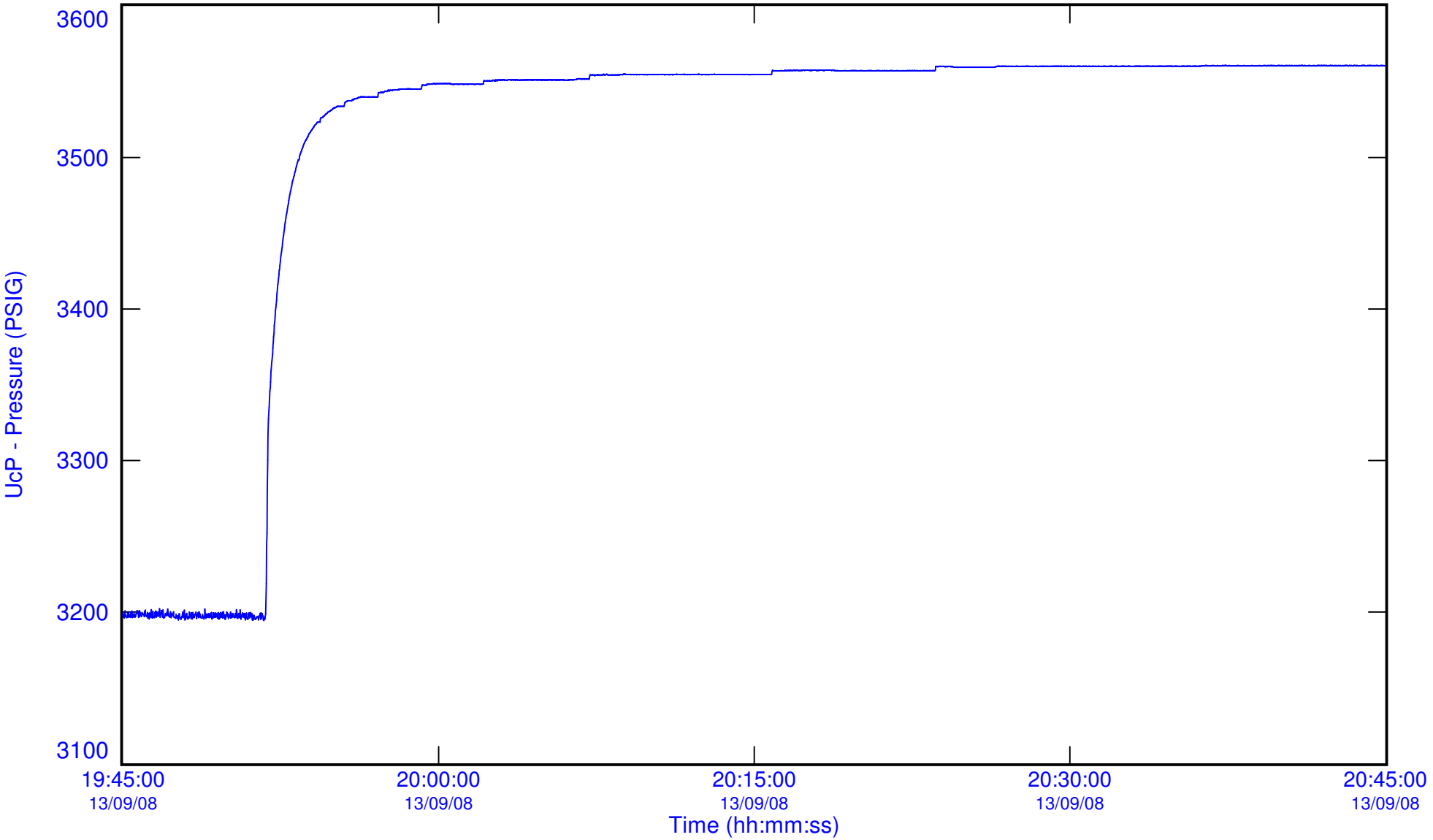
Client	Nexus Energy
Well No.	Longtom-4
Test No.	Completion
Location	West Triton
Data Type	EDGE Data
Comments	Separator Plot
	GasP / GasT / GasD / OilT
	75% Flow Rate Period



Client	Nexus Energy	**Data Type**	EDGE Data
Well No.	Longtom-4	**Comments**	Rates Plot
Test No.	Completion		Gas / Cond / Water Rates & CGR
Location	West Triton		75% Flow Rate Period



Client	Nexus Energy	**Data Type**	EDGE Data
Well No.	Longtom-4	**Comments**	Wellhead Plot
Test No.	Completion		UcP
Location	West Triton		Pressure Build Up Period



Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
12/09/08																											
08:00:00	0	843.5	61.5	18.1	59.8	2.2	18.2	58.6	0.0	59.9	12.9	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
08:15:00	0	863.0	61.2	17.1	60.1	1.8	17.9	59.1	0.0	60.2	0.6	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
08:30:00	0	860.3	61.7	16.1	60.5	2.2	17.7	59.6	0.0	60.6	0.1	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
08:45:00	0	856.8	63.0	13.8	61.0	3.4	17.4	60.1	0.0	61.6	0.0	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
09:00:00	20	594.1	61.5	24.9	63.5	5.4	31.8	61.1	0.0	62.8	0.0	0.000	0.700	0.800	0.00	326	1.000	0.0	0.0								
09:15:00	28	652.4	67.0	116.7	67.8	16.5	122.0	63.3	0.0	63.9	0.0	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
09:30:00	28	884.6	77.0	63.9	79.2	191.1	64.6	98.5	0.0	65.2	0.0	0.000	0.700	0.800	0.50	1447	1.000	0.0	0.0								
09:45:00	28	1147.5	82.2	76.6	85.7	276.1	74.3	110.7	0.0	66.4	0.0	0.000	0.700	0.800	0.00	1324	1.000	0.0	0.0								
10:00:00	28	1449.5	79.0	220.7	78.9	358.7	190.2	116.5	0.0	67.5	0.0	0.000	0.700	0.800	0.00	0	1.000	0.0	0.0								
10:15:00	32	1834.0	86.9	286.3	86.9	384.4	238.6	108.3	0.0	68.2	0.6	0.000	0.700	0.800	100.00	0	1.000	0.0	0.0								
10:30:00	32	2063.8	90.2	338.9	81.4	418.4	273.3	121.6	0.0	68.3	1.0	0.000	0.700	0.800	100.00	0	1.000	1.0	0.0								
10:45:00	32	1863.2	85.9	326.0	45.6	294.1	238.4	124.3	0.0	68.3	1.3	0.000	0.700	0.800	100.00	0	1.000	1.0	0.0								
11:00:00	32	2310.3	96.9	324.8	84.8	381.6	220.6	123.5	0.0	68.1	1.2	0.000	0.700	0.800	100.00	0	1.000	1.0	0.0								
11:15:00	32	2576.3	102.6	367.9	89.2	234.0	250.6	123.4	0.0	67.2	1.2	0.000	0.700	0.800	100.00	0	1.000	1.0	0.0								
11:30:00	32	2857.8	105.9	506.9	90.2	270.4	355.8	122.2	0.0	66.3	1.4	0.000	0.700	0.800	100.00	4	1.000	1.0	0.0								
11:45:00	36	2745.8	98.1	473.6	35.9	284.7	322.2	109.7	0.0	65.5	1.6	0.000	0.700	0.800	100.00	0	1.000	1.0	0.0								
12:00:00	36	2697.7	102.8	553.3	48.7	337.0	387.0	100.0	0.0	65.1	1.5	0.000	0.700	0.800	87.50	0	1.000	1.0	0.0								
12:15:00	36	2875.4	106.5	584.4	63.0	341.5	414.3	114.1	0.0	65.2	1.7	0.000	0.700	0.800	87.50	0	1.000	1.0	0.0								
12:30:00	36	2923.6	107.5	596.7	55.2	328.4	420.0	110.2	0.0	65.6	1.6	0.000	0.700	0.800	87.50	0	1.000	1.5	0.0								
12:45:00	40	2932.4	108.3	598.1	46.0	41.0	417.4	106.5	0.0	66.0	1.4	0.000	0.700	0.800	87.50	106	1.000	1.5	0.0								
13:00:00	40	2848.4	112.8	701.3	55.2	184.1	491.2	104.2	0.0	66.2	1.3	0.000	0.700	0.800	89.50	474	1.000	1.5	0.0								
13:15:00	40	2905.0	115.5	713.6	60.6	272.4	503.6	96.2	0.0	66.2	1.4	0.000	0.700	0.800	89.50	843	1.000	1.5	0.0								
13:30:00	40	3012.3	118.6	729.1	66.1	267.1	516.5	109.4	0.0	66.5	1.4	0.000	0.700	0.800	100.00	1319	1.000	1.5	0.0								
13:45:00	44	3026.0	120.0	719.3	59.9	268.3	511.9	103.5	0.0	66.8	1.4	0.000	0.700	0.800	100.00	1172	1.000	1.5	0.0								
14:00:00	44	2956.5	124.2	820.3	66.3	271.6	578.4	100.3	0.0	67.4	1.5	0.000	0.700	0.800	100.00	1434	1.000	1.5	0.0								
14:15:00	44	2995.2	126.7	824.6	70.7	43.0	582.8	96.7	0.0	68.0	1.4	0.000	0.700	0.800	100.00	1161	1.000	1.5	0.0								
14:30:00	44	3052.6	126.5	848.7	71.7	135.4	606.0	99.4	0.0	68.9	1.4	0.000	0.700	0.800	100.00	828	1.000	1.5	0.0								
14:45:00	44	3076.1	129.1	1374.7	87.6	262.6	583.7	98.0	0.0	69.8	1.2	0.000	0.700	0.800	100.00	993	1.000	1.5	0.0								
15:00:00	44	3091.1	132.2	1340.4	89.5	261.8	574.9	100.1	0.0	70.6	1.0	0.000	0.700	0.800	14.00	1107	1.000	1.5	0.0								
15:15:00	44	3101.9	133.8	1403.8	92.0	259.7	562.0	100.0	0.0	71.1	1.0	0.000	0.700	0.800	14.00	1213	1.000	1.5	0.0								
15:30:00	48	3015.8	137.6	1330.8	95.5	261.0	649.5	101.1	0.0	71.7	1.1	0.000	0.700	0.800	20.00	1231	1.000	1.5	0.0								

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
12/09/08																											
15:45:00	48	3020.7	139.7	1317.9	97.5	263.0	655.0	103.7	0.0	72.1	1.1	0.000	0.700	0.800	15.00	1155	1.000	1.5	0.0								
16:00:00	48	3044.4	141.4	1344.9	100.0	259.7	658.2	106.0	0.0	72.5	1.1	0.000	0.700	0.800	5.00	1471	1.000	1.5	0.0								
16:15:00	48	3066.9	142.8	1353.5	101.1	268.7	657.4	106.2	0.0	72.8	1.1	0.000	0.700	0.800	1.00	1583	1.000	1.5	0.0								
16:30:00	52	2979.2	145.5	1342.6	104.3	278.6	733.5	107.8	0.0	73.1	1.1	0.000	0.700	0.800	1.00	1668	1.000	1.5	0.0								
16:45:00	52	2995.4	147.2	1307.5	106.0	288.4	719.0	85.6	0.0	72.7	0.8	0.000	0.700	0.800	0.50	1565	1.000	1.5	0.0								
17:00:00	56	3015.2	148.3	1318.1	106.8	299.0	720.5	79.7	0.0	70.7	1.3	0.000	0.700	0.800	3.00	1607	1.000	1.5	0.0								
17:15:00	56	2914.4	151.2	1341.2	110.7	305.5	814.6	99.7	0.0	70.0	1.5	0.000	0.700	0.800	40.00	1669	1.000	1.5	0.0								
17:30:00	56	2928.7	152.9	1264.3	110.8	304.7	812.0	108.1	0.0	70.0	1.4	0.000	0.700	0.800	40.00	1849	1.000	1.5	0.0								
17:45:00	56	2953.7	154.4	1261.3	111.9	303.5	807.3	107.3	0.0	70.2	1.5	0.000	0.700	0.800	40.00	1822	1.000	1.5	0.0								
18:00:00	60	2957.4	155.3	1258.6	111.7	301.0	795.0	103.5	0.0	70.4	1.3	0.000	0.700	0.800	50.00	1774	1.000	1.5	0.0								
18:15:00	60	2887.6	157.7	1382.5	118.0	299.8	853.3	104.5	0.0	70.5	1.2	0.000	0.700	0.800	20.00	1874	1.000	1.5	0.0								
18:30:00	60	2902.6	159.0	1372.5	119.7	303.5	861.6	104.5	0.0	70.5	1.3	0.000	0.700	0.800	20.00	1811	1.000	1.5	0.0								
18:45:00	60	2913.8	159.5	1311.3	118.0	299.8	865.5	104.9	0.0	70.6	1.3	0.000	0.700	0.800	20.00	1855	1.000	1.5	0.0								
19:00:00	64	2921.2	160.1	1298.7	117.6	297.4	854.0	103.7	0.0	70.8	1.4	0.000	0.700	0.800	40.00	1803	1.000	1.5	0.0								
19:15:00	64	2828.4	161.8	1384.1	122.8	290.8	933.1	106.3	0.0	71.1	1.3	0.000	0.700	0.800	40.00	1839	1.000	1.5	0.0								
19:30:00	64	2838.6	162.9	1369.6	124.0	292.4	925.3	106.7	0.0	71.3	1.2	0.000	0.700	0.800	10.00	1803	1.000	1.5	0.0								
19:45:00	64	2923.6	162.7	1330.0	120.1	290.0	898.9	104.4	0.0	71.4	1.3	0.000	0.700	0.800	10.00	1591	1.000	1.5	0.0								
20:00:00	64	2910.3	163.9	1004.3	114.0	279.8	874.5	100.3	0.0	71.8	1.2	0.000	0.700	0.800	5.00	1655	1.000	1.5	0.0								
20:15:00	64	2914.6	164.3	1004.3	111.5	284.3	876.1	97.1	0.0	72.0	1.0	0.000	0.700	0.800	5.00	1723	1.000	1.5	0.0								
20:30:00	64	2918.9	164.8	998.0	111.3	288.8	869.3	96.5	0.0	71.8	0.8	0.000	0.700	0.800	0.00	1668	1.000	1.5	0.0								
20:45:00	64	2925.1	164.9	998.8	111.5	293.3	872.5	96.8	0.0	71.7	0.8	0.000	0.700	0.800	0.00	1720	1.000	1.5	0.0								
21:00:00	64	2930.8	165.1	998.4	111.5	298.6	870.8	96.8	0.0	71.5	0.8	0.000	0.700	0.800	0.00	1665	1.000	1.5	0.0								
21:15:00	64	2939.6	165.4	992.8	111.5	299.4	865.7	97.1	0.0	71.2	0.6	0.000	0.700	0.800	0.00	1672	1.000	1.5	0.0								
21:30:00	64	2941.2	165.6	993.0	111.7	301.4	865.5	97.4	0.0	71.0	1.0	0.000	0.700	0.800	0.00	1593	1.000	1.5	0.0								
21:45:00	64	2945.9	165.9	988.5	111.7	304.3	863.3	97.8	0.0	71.1	1.0	0.000	0.700	0.800	0.00	1575	1.000	1.5	0.0								
22:00:00	64	2951.4	166.2	986.9	111.8	305.9	861.8	97.9	0.0	71.1	1.0	0.000	0.700	0.800	0.50	1537	1.000	1.5	0.0								
22:15:00	64	2954.1	166.5	986.3	112.0	305.9	860.8	97.8	0.0	71.0	1.1	0.000	0.700	0.800	1.00	1434	1.000	1.5	0.0								
22:30:00	64	2956.9	166.4	984.7	112.0	308.0	859.1	97.7	0.0	71.0	1.0	0.000	0.700	0.800	0.50	1492	1.000	1.5	0.0								
22:45:00	64	2959.8	166.7	983.0	112.1	307.6	858.2	97.0	0.0	70.8	0.7	0.000	0.700	0.800	0.50	1452	1.000	1.5	0.0								
23:00:00	64	2964.1	167.2	982.2	112.3	308.0	856.7	96.4	0.0	70.5	0.9	0.000	0.700	0.800	3.00	1398	1.000	1.5	0.0								
23:15:00	64	2966.6	167.3	980.6	112.3	307.2	855.6	96.3	0.0	70.3	1.2	0.000	0.700	0.800	7.00	1381	1.000	1.5	0.0								

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
12/09/08																											
23:30:00	64	2972.1	167.5	979.4	112.4	305.5	854.6	96.8	0.0	70.3	1.3	0.000	0.700	0.800	3.00	1476	1.000	1.5	0.0								
23:45:00	64	2973.3	167.6	979.1	112.5	303.9	855.1	97.0	0.0	70.6	1.3	0.000	0.700	0.800	3.00	1404	1.000	1.5	0.0								
13/09/08																											
00:00:00	64	2971.5	167.6	976.1	112.6	302.7	853.1	97.0	0.0	70.7	1.2	0.000	0.700	0.800	2.00	1386	1.000	1.5	0.0								
00:15:00	64	2975.1	167.8	976.9	112.8	300.6	853.6	97.1	0.0	70.7	1.2	0.000	0.700	0.800	4.00	1422	1.000	1.5	0.0								
00:30:00	64	2977.0	168.0	974.2	113.0	301.4	851.8	97.7	0.0	70.6	1.2	0.000	0.700	0.800	6.00	1353	1.000	1.5	0.0								
00:45:00	64	2978.0	168.1	975.5	112.9	309.2	849.9	97.8	0.0	70.5	1.3	0.000	0.700	0.800	4.00	1395	1.000	1.5	0.0								
01:00:00	64	2981.1	168.3	974.9	113.1	314.1	850.1	98.1	0.0	70.5	1.3	0.000	0.700	0.800	2.00	1211	1.000	1.5	0.0								
01:15:00	64	2984.1	168.4	973.6	113.1	313.3	849.9	98.3	0.0	70.4	1.2	0.000	0.700	0.800	1.50	1386	1.000	1.5	0.0								
01:30:00	64	2960.8	168.2	1046.4	112.4	314.9	910.8	97.8	0.0	70.0	1.3	0.000	0.700	0.800	2.00	1388	1.000	1.5	0.0								
01:45:00	64	2976.6	168.4	970.4	114.5	322.3	848.2	99.2	0.0	69.5	1.3	0.000	0.700	0.800	2.00	1358	1.000	1.5	0.0								
02:00:00	64	2983.1	168.1	967.3	112.9	317.0	844.5	97.9	0.0	69.3	1.5	0.000	0.700	0.800	7.00	1238	1.000	1.5	0.0								
02:15:00	64	2982.5	167.9	973.4	113.1	317.8	851.0	98.2	0.0	69.4	1.4	0.000	0.700	0.800	2.00	1550	1.000	1.5	0.0								
02:30:00	64	2994.4	168.3	969.3	113.0	317.4	846.9	98.1	0.0	69.4	1.4	0.000	0.700	0.800	21.00	1383	1.000	1.5	0.0								
02:45:00	64	2997.6	168.8	963.4	112.9	314.1	840.2	97.9	0.0	69.3	1.3	0.000	0.700	0.800	12.50	1254	1.000	1.5	0.0								
03:00:00	64	2995.2	168.8	961.6	112.9	312.1	839.5	97.8	0.0	69.2	1.3	0.000	0.700	0.800	13.00	1314	1.000	1.5	0.0								
03:15:00	64	2988.4	168.4	962.2	112.6	311.3	840.0	97.6	0.0	69.1	1.3	0.000	0.700	0.800	13.00	1424	1.000	1.5	0.0								
03:30:00	64	2991.3	168.1	962.4	112.5	315.4	841.0	97.3	0.0	68.8	1.3	0.000	0.700	0.800	12.00	1464	1.000	1.5	0.0								
03:45:00	64	2995.0	168.2	962.4	112.4	318.2	841.2	97.2	0.0	68.3	1.3	0.000	0.700	0.800	6.00	1452	1.000	1.5	0.0								
04:00:00	64	2998.0	168.5	961.0	112.5	316.2	839.8	97.3	0.0	67.9	1.4	0.000	0.700	0.800	8.00	1376	1.000	1.5	0.0								
04:15:00	64	2998.7	168.7	959.7	112.6	318.6	838.8	97.7	0.0	67.5	1.4	0.000	0.700	0.800	10.00	1331	1.000	1.5	0.0								
04:30:00	64	3003.8	168.9	958.9	113.2	319.0	839.5	97.9	0.0	67.2	1.4	0.000	0.700	0.800	5.00	1340	1.000	1.5	0.0								
04:45:00	64	3007.4	169.2	957.9	113.4	319.0	839.0	98.3	0.0	66.9	1.4	0.000	0.700	0.800	1.00	1333	1.000	1.5	0.0								
05:00:00	64	3008.9	169.7	959.3	113.5	318.2	839.1	98.5	0.0	66.7	1.4	0.000	0.700	0.800	1.50	1308	1.000	1.5	0.0								
05:15:00	64	3012.6	170.0	957.1	113.7	319.8	838.6	98.2	0.0	66.5	1.4	0.000	0.700	0.800	2.00	1281	1.000	1.5	0.0								
05:30:00	64	3015.2	170.1	957.1	114.0	319.0	837.6	98.2	0.0	66.3	1.4	0.000	0.700	0.800	7.00	1227	1.000	1.5	0.0								
05:45:00	64	3017.9	170.4	955.4	114.1	322.3	838.1	98.5	0.0	66.1	1.4	0.000	0.700	0.800	7.00	1228	1.000	1.5	0.0								
06:00:00	64	3018.5	170.6	954.0	114.3	323.5	837.9	99.0	0.0	66.1	1.4	0.000	0.700	0.800	8.00	1277	1.000	1.5	0.0								
06:15:00	64	3017.7	170.7	953.2	114.4	323.5	836.1	98.8	0.0	66.0	1.4	0.000	0.700	0.800	8.00	1246	1.000	1.5	0.0								
06:30:00	64	3018.3	170.4	958.3	114.5	324.8	838.9	98.4	0.8	65.9	1.4	0.000	0.700	0.800	10.00	1290	1.000	1.5	0.0								

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
13/09/08																											
06:45:00	64	3018.3	170.6	982.8	115.3	323.5	867.3	99.4	640.7	91.8	1.3	0.000	0.700	0.800	20.00	1271	1.000	1.5	0.0								
07:00:00	64	3020.1	170.7	1006.8	115.7	324.3	893.9	100.4	681.0	102.2	206.4	4.500	0.660	0.800	25.00	1243	1.000	1.5	0.0	57.81	0.525						
07:15:00	64	3019.9	170.8	986.3	115.7	326.8	868.0	100.2	643.7	103.3	215.0	4.500	0.660	0.800	25.00	1242	1.000	1.5	0.0	57.33	1.125	0.00	4.820	0.00	0.360	0.00	0.00
07:30:00	64	3025.2	171.2	1015.1	116.7	331.7	903.4	101.4	690.1	105.4	206.1	4.500	0.660	0.800	29.00	1268	1.000	1.5	0.0	58.11	1.728	130.25	8.820	10.85	0.690	2.24	0.19
07:45:00	64	3021.6	171.2	1013.9	117.0	333.3	901.3	101.7	689.2	106.0	205.3	4.500	0.660	0.800	29.00	1218	1.000	1.5	0.0	58.03	2.333	287.70	11.740	34.08	1.020	4.95	0.59
08:00:00	64	3023.0	171.3	1012.5	117.2	335.4	901.3	101.7	689.8	106.2	205.7	4.500	0.660	0.778	29.00	1253	0.806	1.5	0.0	58.04	2.938	215.33	14.490	31.64	1.350	3.71	0.54
08:15:00	64	3025.8	171.6	1010.8	117.1	336.6	898.8	102.0	686.7	106.2	207.5	4.500	0.660	0.778	29.00	1236	0.806	1.5	0.0	57.81	3.539	382.86	17.780	194.02	2.690	6.65	3.37
08:30:00	64	3024.8	171.9	1009.2	117.4	336.2	897.6	102.6	684.2	106.7	206.6	4.500	0.660	0.778	24.00	1233	0.806	1.5	0.0	57.83	4.142	299.63	19.920	151.84	3.520	5.19	2.63
08:45:00	64	3025.0	171.6	1008.6	117.2	339.9	897.0	102.8	685.6	106.8	206.7	4.500	0.660	0.778	24.00	1247	0.806	1.5	0.0	57.91	4.745	320.73	23.260	125.66	4.830	5.54	2.17
09:00:00	64	3025.2	171.5	1007.0	117.4	341.5	898.3	103.1	685.5	107.0	206.8	4.500	0.660	0.778	24.00	1250	0.806	1.5	0.0	57.88	5.348	320.73	26.470	125.66	6.090	5.55	2.17
09:15:00	64	3024.2	172.0	1006.3	117.8	342.3	897.2	103.3	685.6	107.4	206.2	4.500	0.660	0.778	25.00	1228	0.806	1.5	0.0	57.89	5.950	302.91	29.750	118.68	7.380	5.24	2.05
09:30:00	64	3023.8	172.4	1004.7	118.1	341.5	897.1	103.1	687.5	107.5	207.7	4.500	0.660	0.778	25.00	1205	0.806	1.5	0.0	57.98	6.553	316.51	33.050	130.90	8.740	5.48	2.27
09:45:00	64	3026.4	172.5	1005.9	118.4	342.7	897.5	102.9	687.0	107.4	206.4	4.500	0.660	0.778	25.00	1221	0.806	1.5	0.0	57.92	7.156	316.51	36.290	130.90	10.080	5.46	2.26
10:00:00	64	3026.0	172.5	1007.6	118.7	340.3	897.0	103.4	686.8	107.7	205.8	4.500	0.662	0.778	25.00	1161	0.806	1.5	0.0	57.88	7.760	316.51	39.580	130.90	11.440	5.47	2.26
10:15:00	64	3021.8	172.7	1007.0	119.1	340.3	892.7	103.5	684.5	107.8	204.9	4.500	0.662	0.778	25.00	1229	0.806	1.5	0.0	57.68	8.361	316.51	42.820	130.90	12.780	5.48	2.26
10:30:00	64	3023.6	172.9	1007.1	119.1	341.5	892.3	103.7	684.6	107.8	207.8	4.500	0.662	0.778	25.00	1167	0.806	1.5	0.0	57.79	8.963	316.51	46.120	130.90	14.150	5.48	2.27
10:45:00	64	3023.4	173.0	1019.0	119.9	342.3	904.4	104.8	706.3	108.7	202.7	4.500	0.662	0.778	30.00	1189	0.806	1.5	0.0	58.39	9.571	17.58	47.830	7.27	14.850	0.30	0.12
11:00:00	64	2955.7	173.6	1090.4	122.3	336.6	964.9	106.2	743.6	110.5	0.8	0.000	0.662	0.778	30.00	1323	0.806	1.5	0.0	0.00	9.813	213.35	49.190	113.44	15.580		
11:15:00	32	3412.6	167.5	1138.6	115.5	363.2	413.1	122.1	347.8	126.5	1.4	0.000	0.662	0.778	34.00	0	0.806	1.5	0.0	0.00	9.813	180.53	51.300	95.99	16.700		
11:30:00	32	3438.8	153.3	1075.6	95.7	286.3	410.7	84.9	349.2	86.2	338.2	3.000	0.662	0.778	34.00	0	0.806	1.5	0.0	19.60	9.882	0.00	51.410	0.00	16.770	0.00	0.00
11:45:00	32	3447.4	150.8	1075.6	92.1	262.6	410.2	67.0	348.6	69.0	332.2	3.000	0.662	0.778	80.00	1	0.806	1.5	0.0	19.79	10.088	154.74	52.480	98.90	17.460	7.84	5.01
12:00:00	32	3449.8	150.0	1078.7	91.3	253.6	412.1	63.2	350.8	62.7	330.4	3.000	0.660	0.782	90.00	0	0.806	1.5	0.0	19.96	10.295	51.58	52.990	255.97	19.960	2.59	12.85
12:15:00	32	3451.3	148.6	1076.9	90.1	254.0	412.4	61.1	351.8	59.1	327.7	3.000	0.660	0.782	98.00	0	0.806	1.5	0.0	20.05	10.504	25.79	53.250	287.97	22.870	1.29	14.38
12:30:00	32	3450.8	147.6	1078.3	88.4	254.4	415.4	59.6	353.9	56.8	325.5	3.000	0.660	0.782	98.00	0	0.806	1.5	0.0	20.12	10.713	4.69	53.300	285.06	25.740	0.23	14.18
12:45:00	32	3452.1	146.3	1078.7	86.6	256.5	416.3	58.2	354.1	54.8	326.4	3.000	0.660	0.782	99.99	0	0.806	1.5	0.0	20.18	10.923	5.16	53.350	313.57	28.910	0.26	15.54
13:00:00	32	3452.9	145.8	1080.1	86.0	256.1	417.8	57.7	355.2	53.6	325.6	3.000	0.660	0.782	99.99	0	0.806	2.0	0.0	20.20	11.133	0.03	53.350	319.94	32.140	0.00	15.82
13:15:00	32	3454.3	145.0	1079.9	85.2	256.5	419.2	57.4	355.8	52.7	324.7	3.000	0.660	0.782	99.99	0	0.806	2.0	0.0	20.23	11.344	0.02	53.350	290.56	35.070	0.00	14.38
13:30:00	32	3453.1	144.7	1078.5	84.9	257.3	418.9	56.8	355.2	52.1	324.7	3.000	0.660	0.782	99.99	0	0.806	2.0	0.0	20.23	11.555	0.02	53.350	290.85	37.990	0.00	14.35
13:45:00	32	3455.1	144.4	1080.1	84.7	258.1	416.8	56.4	352.6	51.6	328.3	3.000	0.660	0.782	99.99	0	0.806	2.0	0.0	20.25	11.766	0.03	53.350	319.94	41.230	0.00	15.81
14:00:00	44	3341.3	152.1	886.8	87.7	263.4	543.5	63.4	405.2	59.6	0.8	0.000	0.660	0.782	99.99	0	0.806	2.0	0.0	0.00	11.780	0.03	53.350	349.02	44.760		
14:15:00	44	3335.3	154.6	829.5	89.3	278.1	564.4	70.6	434.2	67.5	1.4	0.000	0.660	0.782	80.00	0	0.806	2.0	0.0	0.00	11.780	0.03	53.350	349.02	48.600		

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
13/09/08																											
14:30:00	44	3351.5	155.3	943.0	92.4	376.7	741.6	79.5	657.6	78.9	187.8	3.750	0.660	0.782	80.00	5	0.806	2.0	0.0	34.69	12.046	84.40	54.150	418.87	52.560	2.44	12.13
14:45:00	44	3350.9	156.3	941.1	93.3	381.6	738.6	81.6	654.3	81.0	192.7	3.750	0.660	0.782	90.00	0	0.806	2.0	0.0	34.70	12.408	75.02	54.950	372.33	56.520	2.17	10.75
15:00:00	44	3351.7	156.6	942.1	93.7	379.9	740.7	82.0	656.4	81.8	191.6	3.750	0.660	0.782	90.00	0	0.806	2.0	0.0	34.66	12.769	37.51	55.340	418.87	60.970	1.08	12.08
15:15:00	44	3352.3	156.4	944.4	93.6	380.4	744.5	81.9	659.2	81.9	190.3	3.750	0.660	0.782	80.00	0	0.806	2.0	0.0	34.59	13.129	39.86	55.770	445.05	65.700	1.15	12.82
15:30:00	44	3351.9	156.7	946.6	94.0	379.1	745.9	82.2	662.9	82.4	187.8	3.750	0.660	0.782	80.00	0	0.806	2.0	0.0	34.56	13.490	79.71	56.610	395.60	69.900	2.30	11.42
15:45:00	44	3352.1	156.2	949.3	93.4	378.3	749.0	81.3	666.2	82.2	185.9	3.750	0.660	0.782	95.00	0	0.806	2.0	0.0	34.69	13.851	79.71	57.440	395.60	74.020	2.30	11.42
16:00:00	44	3351.1	155.9	948.3	93.1	376.7	749.2	80.2	666.2	82.0	188.7	3.750	0.660	0.782	95.00	0	0.806	2.0	0.0	34.77	14.212	21.10	57.660	497.40	79.110	0.61	14.37
16:15:00	44	3350.3	155.8	948.5	93.0	377.1	749.5	79.7	665.3	81.9	188.3	3.750	0.660	0.782	50.00	0	0.806	2.0	0.0	34.69	14.573	21.10	57.870	497.40	84.090	0.61	14.34
16:30:00	44	3349.5	155.9	949.1	93.1	375.4	749.9	79.7	666.0	82.0	189.0	0.000	0.660	0.782	50.00	0	0.806	2.0	0.0	0.00	14.911	211.00	60.030	261.79	86.770	6.08	7.54
16:45:00	56	3149.9	162.0	973.2	101.0	385.3	884.3	86.0	715.4	90.1	1.0	0.000	0.660	0.782	50.00	631	0.806	2.0	0.0	0.00	14.911	222.73	62.150	276.34	89.400		
17:00:00	56	3184.5	162.5	895.5	100.6	402.0	814.7	88.4	654.4	91.5	279.8	4.000	0.660	0.782	15.00	1085	0.806	2.0	0.0	48.72	15.389	35.17	62.720	43.63	90.100	0.71	0.89
17:15:00	56	3193.7	163.3	902.3	101.6	401.6	820.0	89.4	663.8	93.0	289.4	4.000	0.660	0.782	49.00	1082	0.806	2.0	0.0	49.39	15.900	0.00	63.270	0.00	90.230	0.00	0.00
17:30:00	56	3199.6	163.8	886.1	102.2	395.5	805.0	90.0	647.4	93.6	287.7	4.000	0.660	0.782	49.00	1009	0.806	2.0	0.0	48.89	16.411	0.00	63.270	0.00	90.230	0.00	0.00
17:45:00	56	3199.8	164.5	889.2	102.6	385.7	810.4	90.4	654.4	94.1	289.8	4.000	0.660	0.782	50.00	619	0.806	2.0	0.0	48.97	16.920	95.18	64.050	55.60	90.680	1.95	1.14
18:00:00	56	3196.3	165.0	889.0	103.1	378.3	807.1	90.7	651.0	94.5	289.9	4.000	0.660	0.782	25.00	530	0.806	2.0	0.0	48.85	17.429	93.32	65.110	57.89	91.330	1.91	1.19
18:15:00	56	3199.8	165.3	888.2	103.6	374.2	806.7	91.2	650.4	95.2	288.1	4.000	0.660	0.782	40.00	570	0.806	2.0	0.0	48.70	17.936	139.97	66.690	14.47	91.540	2.88	0.30
18:30:00	56	3201.7	165.7	891.5	103.9	370.9	812.5	91.6	654.2	95.6	289.3	4.000	0.660	0.782	30.00	472	0.806	2.0	0.0	48.85	18.445	111.98	67.950	37.05	91.920	2.29	0.76
18:45:00	56	3201.0	166.3	885.7	104.4	377.9	806.6	92.3	654.0	96.0	288.3	4.000	0.660	0.782	16.00	486	0.806	2.0	0.0	48.85	18.954	130.64	69.420	20.84	92.170	2.67	0.43
19:00:00	56	3199.2	166.8	891.0	104.9	395.5	813.3	92.8	654.5	96.5	288.5	4.000	0.660	0.782	17.00	362	0.806	2.0	0.0	48.79	19.463	156.77	71.190	5.93	92.260	3.21	0.12
19:15:00	56	3200.8	166.6	887.2	104.8	393.4	805.9	92.7	646.9	96.3	288.9	4.000	0.660	0.782	35.00	451	0.806	2.0	0.0	48.54	19.970	193.63	73.080	8.36	92.340	3.97	0.17
19:30:00	56	3199.6	166.5	882.7	104.6	384.0	800.4	92.2	644.6	96.1	289.4	4.000	0.660	0.782	19.00	346	0.806	2.0	0.0	48.50	20.476	212.29	75.080	49.64	92.750	4.37	1.02
19:45:00	56	3199.2	166.4	884.7	104.7	362.4	803.1	91.8	646.7	96.0	1.3	0.000	0.660	0.782	20.00	423	0.806	2.0	0.0	0.00	20.915	261.28	77.820	15.57	92.940	5.38	0.32
20:00:00	0	3548.8	154.3	161.0	97.5	22.6	166.6	86.3	156.1	87.3	1.3	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	187.56	79.380	58.18	93.290		
20:15:00	0	3554.9	76.0	0.0	87.4	34.0	5.8	78.7	0.0	76.9	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
20:30:00	0	3560.2	71.0	3.8	79.9	42.2	11.3	73.9	0.0	72.4	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
20:45:00	0	3560.8	68.3	4.6	74.4	51.6	10.9	70.7	0.0	69.3	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
21:00:00	0	3561.9	67.2	0.9	70.5	63.9	7.3	68.4	0.0	67.1	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
21:15:00	0	1255.1	68.9	76.4	5.3	77.8	78.9	27.6	0.0	65.5	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
21:30:00	0	197.1	73.7	0.0	47.4	89.3	5.7	43.0	0.0	65.7	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
21:45:00	0	200.6	72.5	0.0	54.2	99.5	5.4	51.5	0.0	66.5	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
22:00:00	0	200.8	71.4	0.0	57.9	96.6	4.9	68.6	0.0	66.8	0.9	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		

Client	Nexus Energy	**Expro Engineer**	S. Petrig / J. Coxall
Well No.	Longtom-4	**Location**	West Triton
Test No.	Completion	**Start Date**	12th September 2008

Time hh:mm:ss	Choke 64th	UcP PSIG	UcT °F	DcP PSIG	DcT °F	AnnP PSIG	DhP PSIG	DhT °F	GasP PSIG	GasT °F	GasD INWG	d ins	GasSG SG	OilSG SG	BSWchk %	SIR 0	Cmf fact	Co2 mol%	H2S ppm	QGas1av MM/d	Gas1Cum MMcf	OilR b/d	OilC bbls	WtrR b/d	WtrC bbls	CGR b/MM	WGR b/MM
13/09/08																											
22:15:00	0	202.2	68.8	0.0	62.5	85.6	4.8	68.0	0.0	67.4	0.9	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
22:30:00	0	204.7	68.0	0.0	66.5	76.6	4.8	66.8	0.0	67.6	0.9	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
22:45:00	0	205.1	66.4	0.0	63.0	69.2	4.9	65.9	0.0	67.4	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
23:00:00	0	205.5	65.9	0.9	63.3	68.0	5.4	65.4	0.0	67.0	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
23:15:00	0	5.4	66.8	0.0	64.0	71.7	6.2	66.2	0.0	66.6	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
23:30:00	0	7.8	66.1	2.0	63.4	71.7	9.5	65.6	0.0	66.4	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
23:45:00	0	7.2	65.6	1.4	63.2	72.5	8.6	65.0	0.0	66.2	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		
14/09/08																											
00:00:00	0	11.1	64.6	3.8	62.7	72.5	8.6	64.2	0.0	65.9	0.8	0.000	0.660	0.782	20.00	0	0.806	2.0	0.0	0.00	20.915	0.00	87.980	0.00	95.960		

SECTION 5

Additional Information

Transducers Information
Mechanical Meter Factors
Sampling Information
Glossary of Terms
Data Discs and Information

Transducer Information

Client Nexus Energy

Test No. Completion

Well No. Longtom-4

Start Date 12th September 2008

Probe	Location	Span	Serial No.	Tag
1	Upstream Choke Manifold	0 - 5,000 psi	N4C3022T	UcP
2	Upstream Choke Manifold	0 - 300 DegF	0477251	UcT
3	Downstream Choke Manifold	0 - 5,000 psi	84GB508	DcP
4	Downstream Choke Manifold	0 - 300 DegF	0421476	DcT
5	Pipe Stand Drill Floor	0 - 10,000 psi	R8850	AnnP
6	Downstream Heat Exchanger	0 - 1,500 psi	3034T	DhP
7	Downstream Heat Exchanger	0 - 300 DegF	0518906	DhT
8	Separator Gas Line	0 - 1,500 psi	75GB0206	SepP
9	Separator Gas Line	0 - 300 degF	374470	SepT
10	Separator Gas Line	0 - 400 inWg	7528759	SepD
11	Separator Oil Line	0 - 300 degF	045392	OilT
12	Separator Oil Line	250 - 2,500 bbls	011452	Oil1
13	Separator Oil Line	1,300 - 13,000 bbls	011458	Oil2
14	Separator Water Line	250 - 2,500 bbls	011457	Wtr1

Mechanical Meter Factors

Client	**Nexus Energy**	**Well No.**	**Longtom-4**
Test No.	**Completion**	**Field.**	**VIC/L29**

Date		Time	Pump Rate bbls/min	Tank Reading bbls	Test Separator SepCum bbls	Corrected Volumes dTank bbls	Corrected Volumes dMeter bbls	MF	Comments
28/08/08	Start	15:58	0.458	4.0	6.0	*5.96*	*5.93*	***1.005***	*0.875" MC-II Oil Meter*
	Finish	16:11		10.0	12.0				
28/08/08	Start	16:13	1.157	11.0	13.0	*6.94*	*6.80*	***1.021***	*0.875" MC-II Oil Meter*
	Finish	16:19		17.9	19.8				
28/08/08	Start	16:23	1.060	22.0	22.3	*7.42*	*7.09*	***1.047***	*2" MC-II Oil Meter*
	Finish	16:30		29.4	29.4				
28/08/08	Start	16:45	1.400	3.1	38.0	*9.80*	*8.88*	***1.104***	*2" MC-II Oil Meter*
	Finish	16:52		12.9	46.9				
28/08/08	Start	16:57	0.997	16.3	24.3	*6.98*	*6.91*	***1.010***	*1" MC-II Water Meter*
	Finish	17:04		23.3	31.2				

Calibration Fluid: Water
Note: Halliburton Cement unit used to provide rates.

COMBINED METER SHRINKAGE FACTOR

COMBINED METER FACTOR #1

Client	: Nexus Energy		**Field**	: Longtom	
Date	: 9/13/2008		**Well No.**	: Longtom-4	
Test No.	: Completion		**Choke Size**	: 64	/64th
Separator Pressure	: 687	psig	**Observed temp**	: 60	
Type of Meter	: 1" Turbine		**Oil S.G. @ obsv Temp**	: 0.778	degF
Serial No.	: 11457		**Oil S.G. @ 60 degF**	: 0.778	
Oil Line Water Cut					
BS&W	: 25.0%		**Metered Water**	11.035	
Tank Readings					
Initial Time	: 21:15		**Final Time**	: 21:38	
Initial Tank Reading	: 21	bbls	**Final Tank Reading**	: 59	bbls
Temperature	: 80	degF	**Temperature**	: 80	degF
Oil Total	: 26.965	bbls	**K(Vol Corr. Factor)**	: 0.9892	
Final Corrected Oil Volume Through Meter	: 26.673	bbls			
Meter Readings					
Initial Meter Reading	: 14.45	bbls	**Final Meter Reading**	: 58.59	bbls
Flowing Oil Temp	: 80	degF	**Flowing Oil Temp**	: 80	degF
Oil Total	: 33.105	bbls			
Final Corrected Oil Volume Through Meter	: 33.105	bbls			

Combined Meter Shrinkage Factor @ 60 degF	**Tank Vol/Meter Vol (Corrected @ 60 degF)** =	0.8057

Katz Shrinkage %	21.6%	**Applied from 08:00:00 13/09/08**
Shrinkage Factor	0.784	
MF = CMSF / S.F	**1.028**	

EXPRO Petrotech

SAMPLE LIST

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP

Sample No	Date	Sampling Time	Sample Nature	Volume	Sample Point	Cylinder No	Shipping Pressure	Comments
1.01a	13.09.08	08:50 - 9:25	Condensate	500 cc	Separator	PT -3173	540 psig	PVT set # 1
1.01b	13.09.08	08:50 - 9:25	Gas	20lt	Separator	4629-C1F	710 psig	PVT set # 1
1.02a	13.09.08	09:42- 10:15	Condensate	500 cc	Separator	C-23205	540 psig	PVT set # 2
1.02b	13.09.08	09:42- 10:15	Gas	20lt	Separator	2426A	710 psig	PVT set # 2
1.03a	13.09.08	10:25 - 11:00	Condensate	500 cc	Separator	PT-2540	540 psig	PVT set # 3
1.03b	13.09.08	10:25 - 11:00	Gas	20lt	Separator	A-1987	710 psig	PVT set # 3
1.04a	13.09.08	17:00	gas (scrubbing in AgNO3)	50mL	Separator	glass bottle	atm.	For Po trace analysis
1.04b	13.09.08	17:00	gas (scrubbing in AgNO3)	50mL	Separator	glass bottle	atm.	For Heavy Metals analysis
1.05a	13.09.08	18:00	gas (scrubbing in AgNO3)	50mL	Separator	glass bottle	atm.	For Po trace analysis
1.05b	13.09.08	18:00	gas (scrubbing in AgNO3)	50mL	Separator	glass bottle	atm.	For Heavy Metals analysis
1.06a	13.09.08	na	AgNO3	50mL	Separator	glass bottle	atm.	Blank solution for Po & Heavy metal analysis
1.06b	13.09.08	na	AgNO3	50mL	Separator	glass bottle	atm.	Blank solution for Po & Heavy metal analysis
1.07	13.09.08	10:35	Condensate	100ml	Separator	Teflon bottle	atm.	For Mercury in liquid analysis
1.08	13.09.08	10:40	Condensate	100ml	Separator	Teflon bottle	atm.	For Mercury in liquid analysis
1.09	13.09.08	16:50	Condensate	100ml	Separator	Teflon bottle	atm.	For Mercury in liquid analysis
1.10	13.09.08	17:00	Condensate	100ml	Separator	Teflon bottle	atm.	For Mercury in liquid analysis
1.11	13.09.08	17:10	Condensate	100ml	Separator	Teflon bottle	atm.	For Mercury in liquid analysis
1.12	13.09.08	10:30	Gas	3L	Separator	Tedlar bag	atm.	For Mercury in liquid analysis
1.13	13.09.08	13:40	Gas	3L	Separator	Tedlar bag	atm.	For Mercury in liquid analysis
1.14	13.09.08	16:00	Gas	3L	Separator	Tedlar bag	atm.	For Mercury in liquid analysis
1.15	13.09.08	18:30	Gas	3L	Separator	Tedlar bag	atm.	For Mercury in liquid analysis
1.16	13.09.08	15:00	Water	1lt	Separator	Glass bottle	atm.	Produced water unpreserved
1.17	13.09.08	16:00	Water	1lt	Separator	Glass bottle	atm.	Produced water preserved with HNO3
1.18	13.09.08	15:30	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.19	13.09.08	15:35	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.20	13.09.08	15:43	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.21	13.09.08	16:00	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.22	13.09.08	16:10	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.23	13.09.08	16:17	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.24	13.09.08	16:25	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.25	13.09.08	16:31	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.26	13.09.08	16:40	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample

SAMPLE LIST

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP

Sample No	Date	Sampling Time	Sample Nature	Volume	Sample Point	Cylinder No	Shipping Pressure	Comments
1.27	13.09.08	16:45	Condensate	5 lt IATA	Separator	Epoxy lined can	atm.	Condensate assay atmospheric sample
1.28	13.09.08	17:15	Condensate	205 lt	Separator	Epoxy lined drum	atm.	Condensate assay atmospheric sample
1.29	13.09.08	17:50	Condensate	205 lt	Separator	Epoxy lined drum	atm.	Condensate assay atmospheric sample

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.01a
Set number	1
Sample point	Separator
Sample nature	Condensate
Date	13.09.2008
Sampled by	mfs
Sampling commenced	8:50
Sampling completed	9:25
Cylinder number	PT-3173
Cylinder coupled with	4629-C1F

SEPARATOR CONDITIONS

Time	9:00	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	9:00	
Wellhead pressure(DN)	1009	psia
Wellhead temperature	46.5	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Glycol	
Cylinder volume	700	ml
Sample volume	500	ml
Transfer fluid remaining	150	ml
Transfer pressure	49.0	barg
Shipping pressure	540	psig
Ambient temperature	20.7	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.01b
Set number	1
Sample point	Separator
Sample nature	Gas
Date	13.09.2008
Sampled by	mfs
Sampling commenced	8:50
Sampling completed	9:25
Cylinder number	4629-C1F
Cylinder coupled with	PT -3173

SEPARATOR CONDITIONS

Time	9:00	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	9:00	
Wellhead pressure	1009	psia
Wellhead temperature	46.5	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Vacuum	
Cylinder volume	20	lt
Sample volume	20	lt
Transfer fluid remaining	n/a	ml
Transfer pressure	49.0	barg
Shipping pressure	49.0	barg
Ambient temperature	20.7	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.02a
Set number	2
Sample point	Separator
Sample nature	Condensate
Date	13.09.2008
Sampled by	mfs
Sampling commenced	9:42
Sampling completed	10:15
Cylinder number	C-23205
Cylinder coupled with	2426 A

SEPARATOR CONDITIONS

Time	10:00	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	10:00	
Wellhead pressure (DN)	1010	psia
Wellhead temperature	50	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Glycol	
Cylinder volume	700	ml
Sample volume	500	ml
Transfer fluid remaining	150	ml
Transfer pressure	49.0	barg
Shipping pressure	540	psig
Ambient temperature	20.5	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.02b
Set number	2
Sample point	Separator
Sample nature	Gas
Date	13.09.2008
Sampled by	mfs
Sampling commenced	9:42
Sampling completed	10:15
Cylinder number	2426A
Cylinder coupled with	C-23205

SEPARATOR CONDITIONS

Time	9:00	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	10:00	
Wellhead pressure (DN)	1010	psia
Wellhead temperature	50	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Vacuum	
Cylinder volume	20	lt
Sample volume	20	lt
Transfer fluid remaining	n/a	ml
Transfer pressure	49.0	barg
Shipping pressure	49.0	barg
Ambient temperature	20.5	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.03a
Set number	3
Sample point	Separator
Sample nature	Condensate
Date	13.09.2008
Sampled by	mfs
Sampling commenced	10:25
Sampling completed	11:00
Cylinder number	PT-2540
Cylinder coupled with	A-1987

SEPARATOR CONDITIONS

Time	10:30	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	10:30	
Wellhead pressure	1010	psia
Wellhead temperature	50	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Glycol	
Cylinder volume	700	ml
Sample volume	500	ml
Transfer fluid remaining	150	ml
Transfer pressure	49.0	barg
Shipping pressure	540	psig
Ambient temperature	20.3	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

PVT SAMPLING SHEET

Client	NEXUS ENERGY
Well	LONGTOM-4
Rig	WEST TRITON
Test	DST LOWER GROUP
Flow period	MAINFLOW

SAMPLING DATA

Sample number	1.03b
Set number	3
Sample point	Separator
Sample nature	Gas
Date	13.09.2008
Sampled by	mfs
Sampling commenced	10:25
Sampling completed	11:00
Cylinder number	A-1987
Cylinder coupled with	PT-2540

SEPARATOR CONDITIONS

Time	9:00	
Pressure	49	barg
Temperature	42.2	°C
Gas gravity SG (air = 1.00)	0.66	
Oil gravity (@15°C)	0.778	g/mL

PRODUCTION CONDITIONS

Time	10:30	
Wellhead pressure	1010	psia
Wellhead temperature	50	°F
Choke size	64F	inch

SAMPLING CONDITIONS

Transfer fluid	Vacuum	
Cylinder volume	20	lt
Sample volume	20	lt
Transfer fluid remaining	n/a	ml
Transfer pressure	49.0	barg
Shipping pressure	49.0	barg
Ambient temperature	20.3	°C

BOTTOM HOLE CONDITIONS

Time	n/a	
Flowing pressure	n/a	psig
Flowing temperature	n/a	°C
Static pressure	n/a	psig
Static temperature	n/a	°C

COMMENTS

Sample taken from Expro Separator during a maximum flow as per agreed by Nexus.

GLOSSARY OF TERMS

Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

a(v)	**Average**
A	**Average**
ACV	**Annulus Choke Valve**
AMV	**Annulus Master Valve**
AnnP	**Annulus Pressure**
API	**American Petroleum Institute**
b	**Barrel(s)**
BDF	**Below Drill Floor**
BHA	**Bottom Hole Assembly**
BHP	**Bottom Hole Pressure**
BHT	**Bottom Hole Temperature**
BOP	**Blow out Preventer**
BS&W	**Base Sediment and Water**
CBL	**Cement Bond Log**
cf	**Standard cubic feet**
CO2	**Carbon Dioxide**
CGR	**Condensate Gas Ratio**
CIV	**Chemical Injection Valve**
CTU	**Coil Tubing Unit**
Cum	**Cumulative**
d	**Day**
degC	**Degrees Celcius**
DcP	**Downstream Choke Pressure**
DcT	**Downstream Choke Temperature**
degF	**Degrees Farenheit**
DFE	**Drill Floor Elevation**
DhP	**Down Heater Pressure**
DhT	**Down Heater Temperature**
DST	**Drill Stem Test**
DWT	**Dead Weight Tester**
ESD	**Emergency Shut Down**

GLOSSARY OF TERMS

Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

FWV	**Flow Wing Valve**
FTHP	**Flowing Tubing Head Pressure**
gas	**Gas**
GLV	**Gas Lift Valve**
GLR	**Gas Liquid Ratio**
GOR	**Gas oil ratio**
GR / CCL	**Gamma Ray / Casing Collar Locator**
H2S	**Hydrogen Sulfide**
HCL	**Hydrocloric Acid**
HMV	**Hydraulic Master Valve**
HP	**High Pressure**
HUMV	**Hydraulic Upper Master Valve**
i	**Instantaneous**
ICV	**Interval Control Valve**
inWg	**Inches of Water**
ID	**Internal Diameter**
JHA	**Job Hazard Analysis**
JSA	**Job Safety Analysis**
KCL	**Pottasium Chloride**
KWV	**Kill Wing Valve**
LMV	**Lower Master Valve**
LP	**Low Pressure**
LV	**Lubricator Valve**
MDBRT	**Measured Depth Below Rotary Table**
MF	**Meter Factor**
CMSF	**Combined Meter and Shrinkage Factor**
MMcf	**Millions of standard cubic feet**
MM/b	**Millions of standard cubic feet per barrel**
MM/d	**Millions of standard cubic feet per day**
MODU	**Mobile Offshore Drilling Unit**
MPR	**Middle Pipe Rams**

GLOSSARY OF TERMS

Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

MSL	**Mean Sea Level**
MV	**Master Valve**
MWD	**Measurement While Drilling**
o	**Oil**
OD	**Outside Diameter**
OIM	**Offshore Installation Manager**
PCV	**Production Choke Valve**
PDHG	**Permanent Downhole Gauge**
PFD	**Process Flow Diagram**
P&ID	**Process and Instrument Diagram**
PIR	**Performance Indicator Report**
PLT	**Production Logging Tool**
PMV	**Production Master Valve**
POB	**Personal on Board**
POOH	**Pulling out of Hole**
ppm	**Parts per million**
psia	**Pounds per square inch (absolute pressure)**
psig	**Pounds per square inch (gauge pressure)**
PWV	**Production Wing Valve**
Q	**Flow rate**
RIH	**Running in Hole**
RKB	**Refer to Kelly Bushing**
SITHP	**Shut in Tubing Head Pressure**
sep	**Separator**
sepb	**Separator barrels**
sepd	**Separator barrels per day**
SG	**Specific Gravity**
SIBHP	**Shut in Bottom Hole Pressure**
SIR	**Sand Impact Rate**
SST	**Subsea Test Tree**
STT	**Surface Test Tree**

GLOSSARY OF TERMS

Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

stk	**Stock tank**
stkb	**Stock tank barrels**
stkd	**Stock tank barrels per day**
SV	**Swab Valve**
SSSV	**Sub Surface Safety Valve**
TCP	**Tubing Conveyed Perforating**
THRT	**Tubing Hanger Running Tool**
TRSSSV	**Tubing Retrievable Sub Surface Safety Valve**
TVD	**Total Vertical Depth**
UcP	**Upstream Choke Pressure**
UcT	**Upstream Choke Temperature**
UMV	**Upper Master Valve**
UPR	**Upper Pipe Rams**
VPR	**Variable Pipe Rams**
WGR	**Water Gas Ratio**
WOV	**Work Over Valve**
XO	**Crossover**
XOV	**Crossover Valve**

DISK INFORMATION

Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

Longtom-4_Welltest Report.PDF

Complete welltest report in pdf format.

Longtom-4_SEQ.TXT

A diary of events. In particular all information on events which affect the readings of the transducers is recorded, eg opening of valves, power shut-downs, bleeding of lines, etc.

Longtom-4_WHD.ASC

Contains the raw data readings taken from sensors on the choke manifold and wellhead throughout the complete test period.

Column 1	**:**	Date	dd/mm/yy
Column 2	**:**	Time	hr:min:sec
Column 3	**:**	Upstream Choke Pressure	kPa
Column 4	**:**	Upstream Choke Temperature	degC
Column 5	**:**	Downstream Choke Pressure	kPa
Column 6	**:**	Downstream Choke Temperature	degC
Column 7	**:**	Annulus Pressure	kPa

Start Date:	12/09/2008	**Start Time:**	14/09/2008
Finish Date:	06:00	**Finish Time:**	06:00

DISK INFORMATION

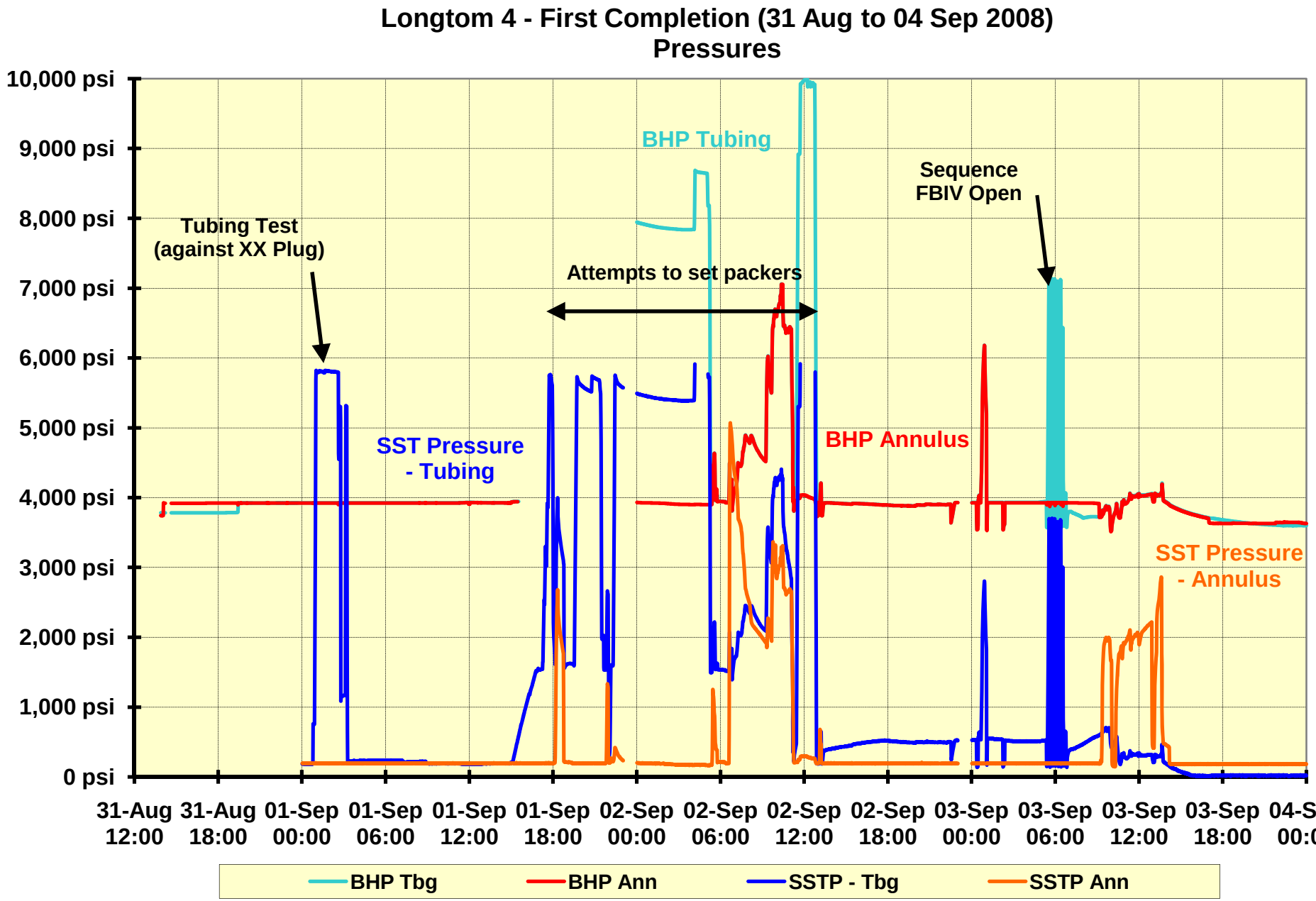
Client :	**Nexus Energy**	**Well No. :**	**Longtom-4**
Test :	**Completion**	**Date :**	**12th September 2008**

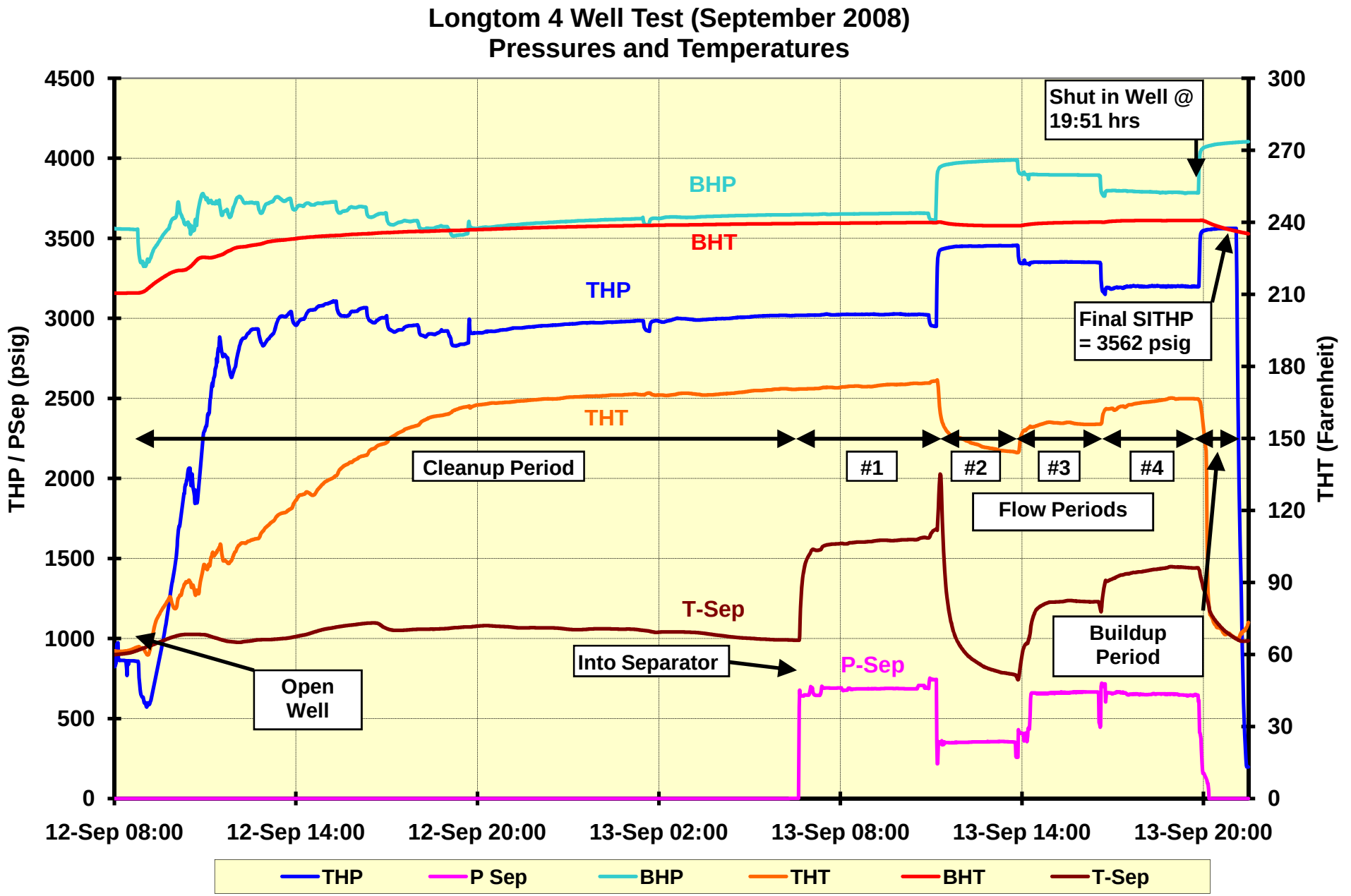
Longtom-4_ALL.ASC

Contains the raw data readings taken from sensors on the choke manifold, separator, manual inputs and rates throughout the complete test period.

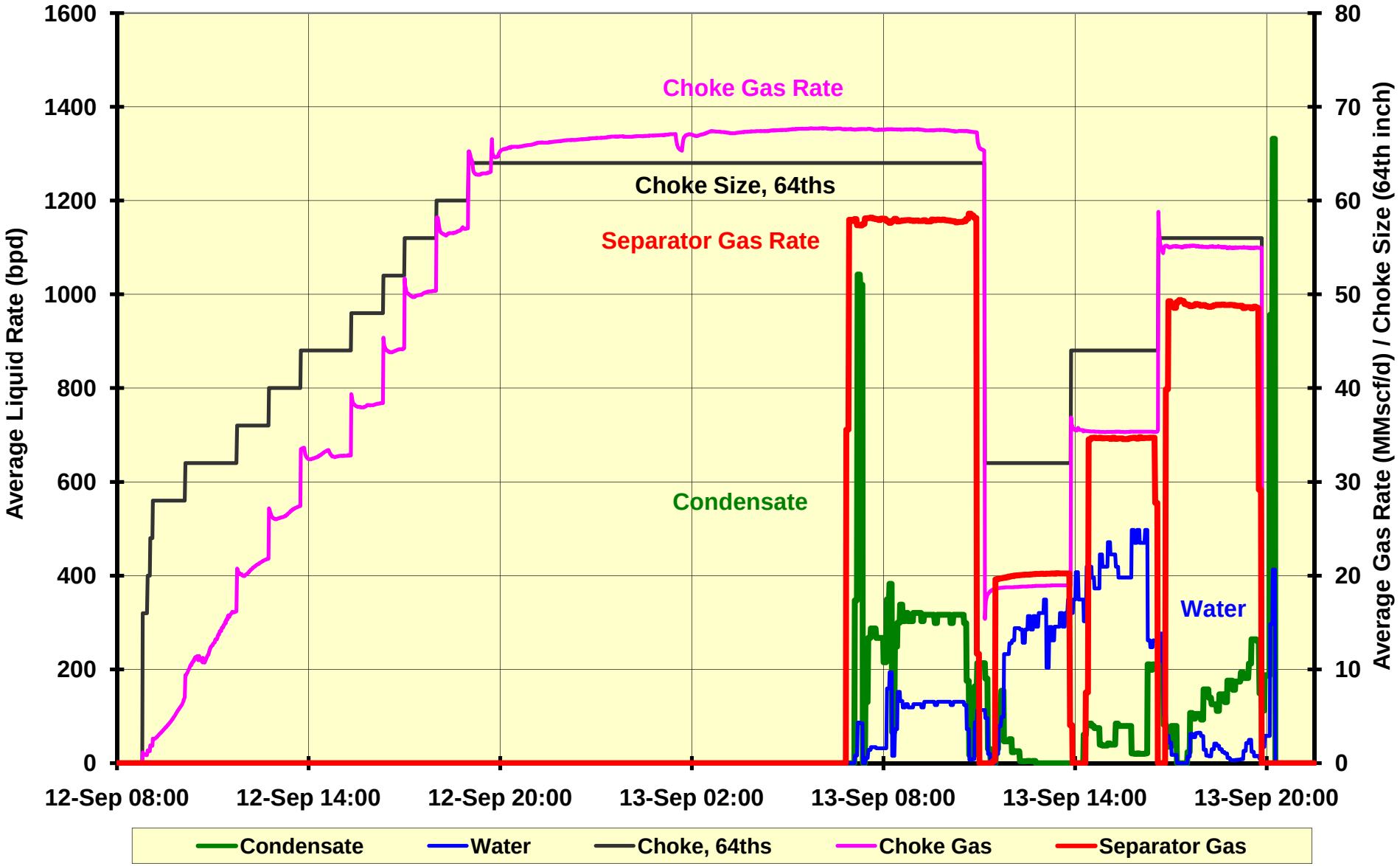
Column 1	**:**	Date	dd/mm/yy
Column 2	**:**	Time	hr:min:sec
Column 3	**:**	Choke Size	mm
Column 4	**:**	Upstream Choke Pressure	kPa
Column 5	**:**	Upstream Choke Temperature	degC
Column 6	**:**	Downstream Choke Pressure	kPa
Column 7	**:**	Downstream Choke Temperature	degC
Column 8	**:**	Annulus Pressure	kPa
Column 9	**:**	Downstream Heater Pressure	kPa
Column 10	**:**	Downstream Heater Temperature	degC
Column 11	**:**	Separator Pressure	kPa
Column 12	**:**	Separator Temperature	degC
Column 13	**:**	Separator Differential	InWg
Column 14	**:**	Orifice Size	mm
Column 15	**:**	Gas SG	fact
Column 16	**:**	Oil SG	fact
Column 17	**:**	BS&W	%
Column 18	**:**	Sand Impact Rate	SIR
Column 19	**:**	CMF	fact
Column 20	**:**	CO2 Readings	%
Column 21	**:**	H2S Readings	ppm
Column 22	**:**	Gas Rate Average	MMscf/d
Column 23	**:**	Gas Cummulative	MMscf
Column 24	**:**	Stock Condensate Rate Average	bbls/d
Column 25	**:**	Stock Condensate Cumulative	bbls
Column 26	**:**	Separator Water Rate	bbls/d
Column 27	**:**	Water Cumulative	bbls
Column 28	**:**	Stock Water Gas Ratio	bbls/MMscf

Start Date:	12/09/2008	**Start Time:**	14/09/2008
Finish Date:	06:00	**Finish Time:**	00:00


Longtom 4 - First Completion (31 Aug to 04 Sep 2008)
Pressures
10,000 psi
9,000 psi
8,000 psi
7,000 psi
6,000 psi
5,000 psi
4,000 psi
3,000 psi
2,000 psi
1,000 psi
0 psi
Tubing Test
(against XX Plug)
Attempts to set packers
Sequence
FBIV Open
BHP Tubing
SST Pressure
- Tubing
BHP Annulus
SST Pressure
- Annulus
31-Aug 12:00
31-Aug 18:00
01-Sep 00:00
01-Sep 06:00
01-Sep 12:00
01-Sep 18:00
02-Sep 00:00
02-Sep 06:00
02-Sep 12:00
02-Sep 18:00
03-Sep 00:00
03-Sep 06:00
03-Sep 12:00
03-Sep 18:00
04-Sep 00:00
BHP Tbg
BHP Ann
SSTP - Tbg
SSTP Ann


Longtom 4 Well Test (September 2008)
Pressures and Temperatures
THP / PSep (psig)
THT (Farenheit)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
300
270
240
210
180
150
120
90
60
30
0
12-Sep 08:00
12-Sep 14:00
12-Sep 20:00
13-Sep 02:00
13-Sep 08:00
13-Sep 14:00
13-Sep 20:00
Shut in Well @ 19:51 hrs
BHP
BHT
THP
Final SITHP = 3562 psig
THT
Cleanup Period
#1
#2
#3
#4
Flow Periods
T-Sep
Into Separator
P-Sep
Buildup Period
Open Well
THP
P Sep
BHP
THT
BHT
T-Sep

Longtom 4 Well Test (September 2008) - Flowrates



ENCLOSURE 1: MUDLOG

BAKER HUGHES
INTEQ

Company : Nexus Energy
Well : Longtom-4
Interval : 88.00 - 2613.28 meters
Created : 23/Jul/2008 4:36:36 AM

FORMATION EVALUATION LOG

Gamma Ray
40 | 80 | 120 | 160 | 200
ROP
200 | 160 | 120 | 80 | 40
m/hr
WEIGHT ON BIT
80 | 64 | 48 | 32 | 16
klbf
ROP BACKUP
300 | 280 | 260 | 240 | 220
m/hr

MD meters 1:500

Cuttings

LITHOLOGY

INTERPRETED

Chromatograph Data

Methane ppm
10 | 100 | 1000 | 10000 | 100000
Ethane ppm
10 | 100 | 1000 | 10000 | 100000
Propane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Butane ppm
10 | 100 | 1000 | 10000 | 100000
n-Butane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
n-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
Ditch Gas %
0.01 | 0.1 | 1 | 10 | 100

Analysis
Calcimetry
50 | 100
Dolomite %
50 | 100

DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

90
100
110
120
130
140
150
160
170

RB1: 660mm (26")
914mm (36") H/Opener
Make: Reed
Type: Rock/YC11
Jets: 3x22, 1x16
Depth In: 97.0 m
Depth Out: 132.0 m
Drilled 35.0 m in 2.6hrs
Grade: 1-1-WT-A-0-I-NO-TD

Set 762mm (30") x 610mm (24")
casing shoe at 128.86 mMDRT

22/06/08

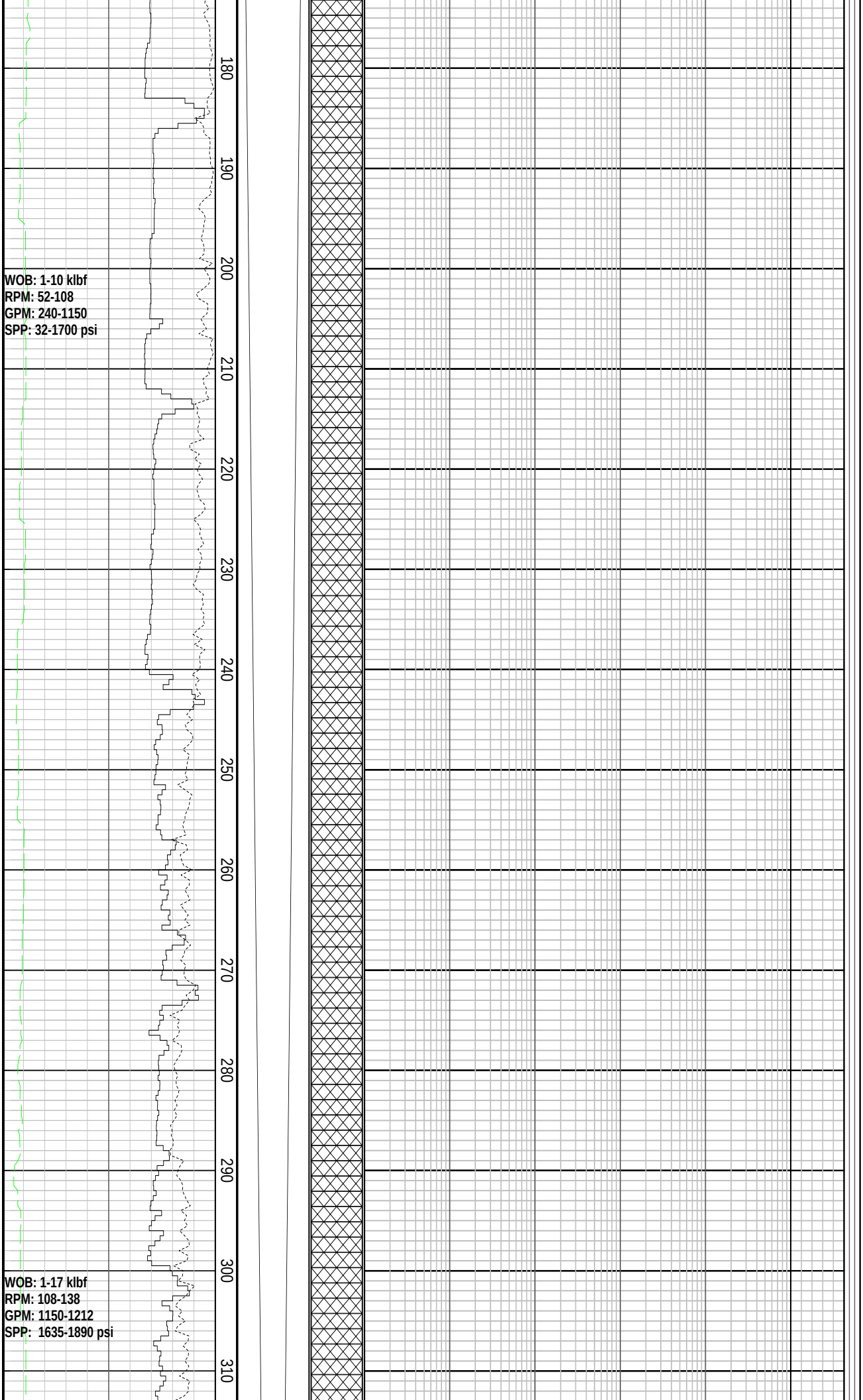
RB2: 559mm (22")
Make: Smith
Type: Rock/M23173
Jets: 3x22, 1x15
Depth In: 132.0 m
Depth Out: 755.0 m
Drilled 623.0 m in 26.8hrs
Grade: 2-2-WT-A-1-I-NO-TD

RT-MSL: 39.9 mMDRT
Water Depth: 57.1 mMDRT
RT-Seabed: 97.0 mMDRT

Spud Longtom-4 @ 01:20 hrs on 21/06/08

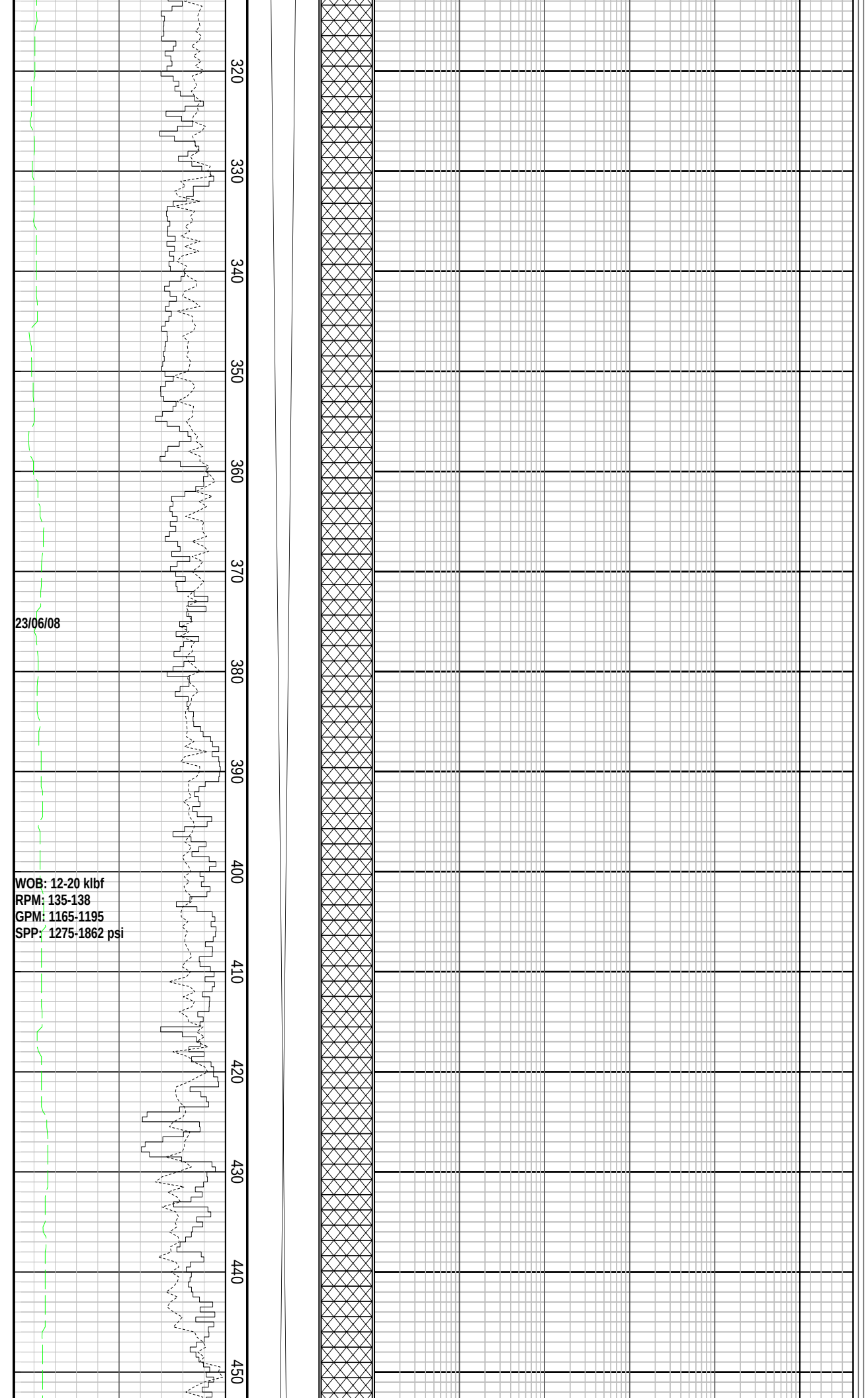
Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

36" hole section TD 132.0m



MD: 204.75 m	Azi: 355.69°
TVD: 204.7 m	Incl: 0.52°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m



MD: 321.74 m Azi: 145.66°
TVD: 321.7 m Incl: 2.44°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

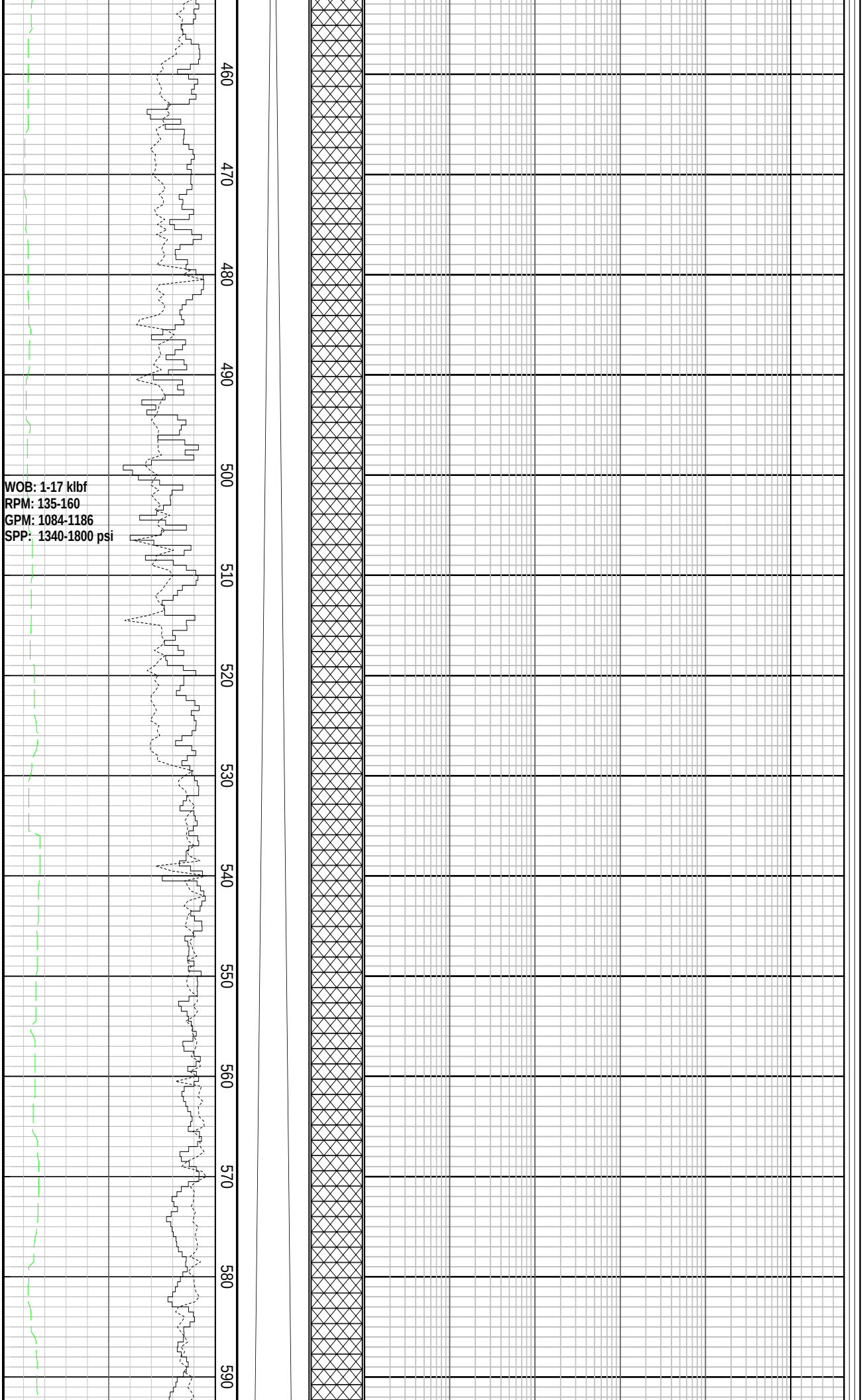
MD: 324.05 m Azi: 189.14°
TVD: 324.6 m Incl: 0.78°

MD: 382.91 m Azi: 326.57°
TVD: 382.9 m Incl: 0.23°

MD: 412.77 m Azi: 250.06°
TVD: 412.7 m Incl: 0.34°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

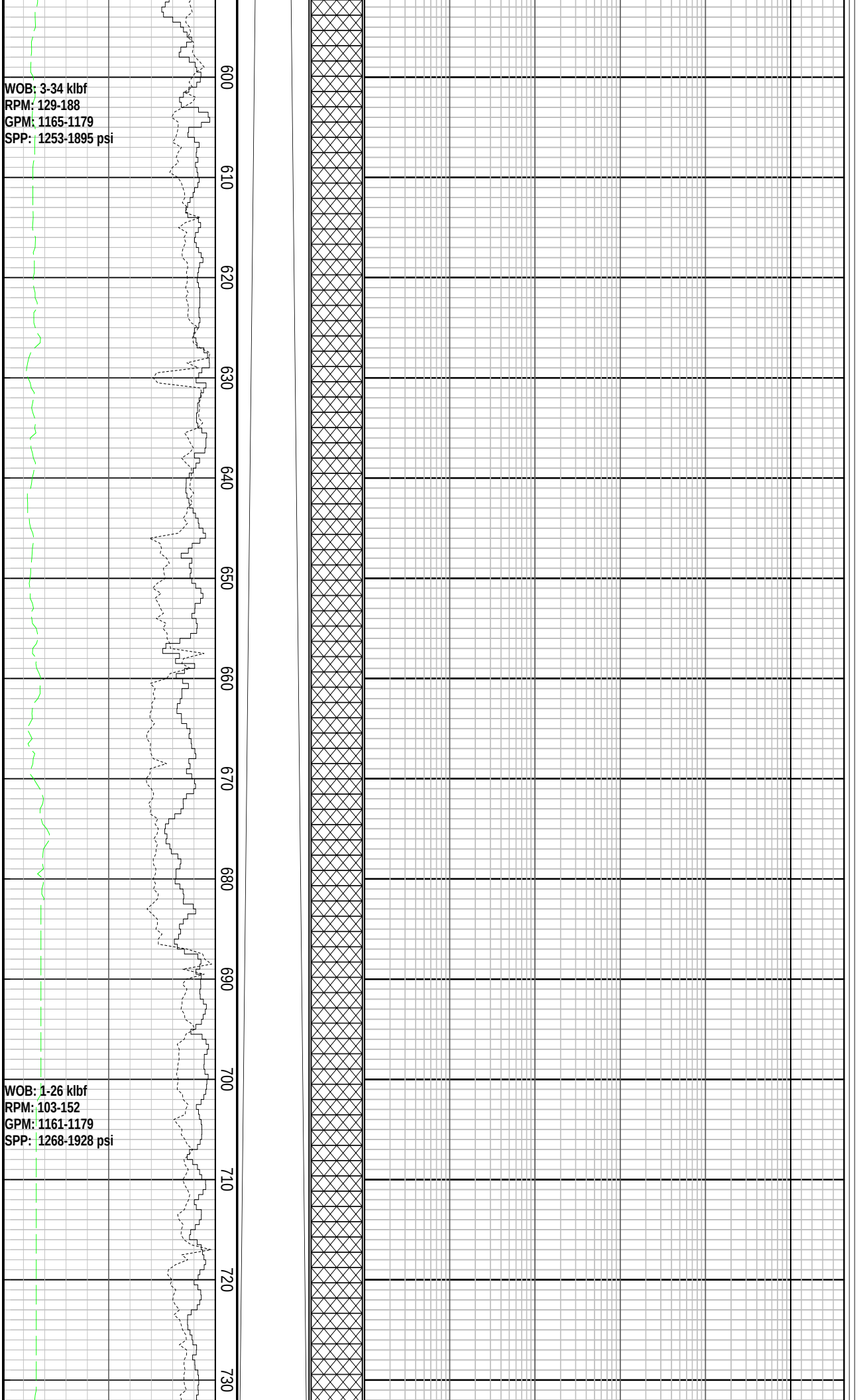
MD: 442.90 m Azi: 118.87°
TVD: 442.9 m Incl: 0.19°



Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

MD: 531.83 m	Azi: 328.15°
TVD: 531.8 m	Incl: 0.85°

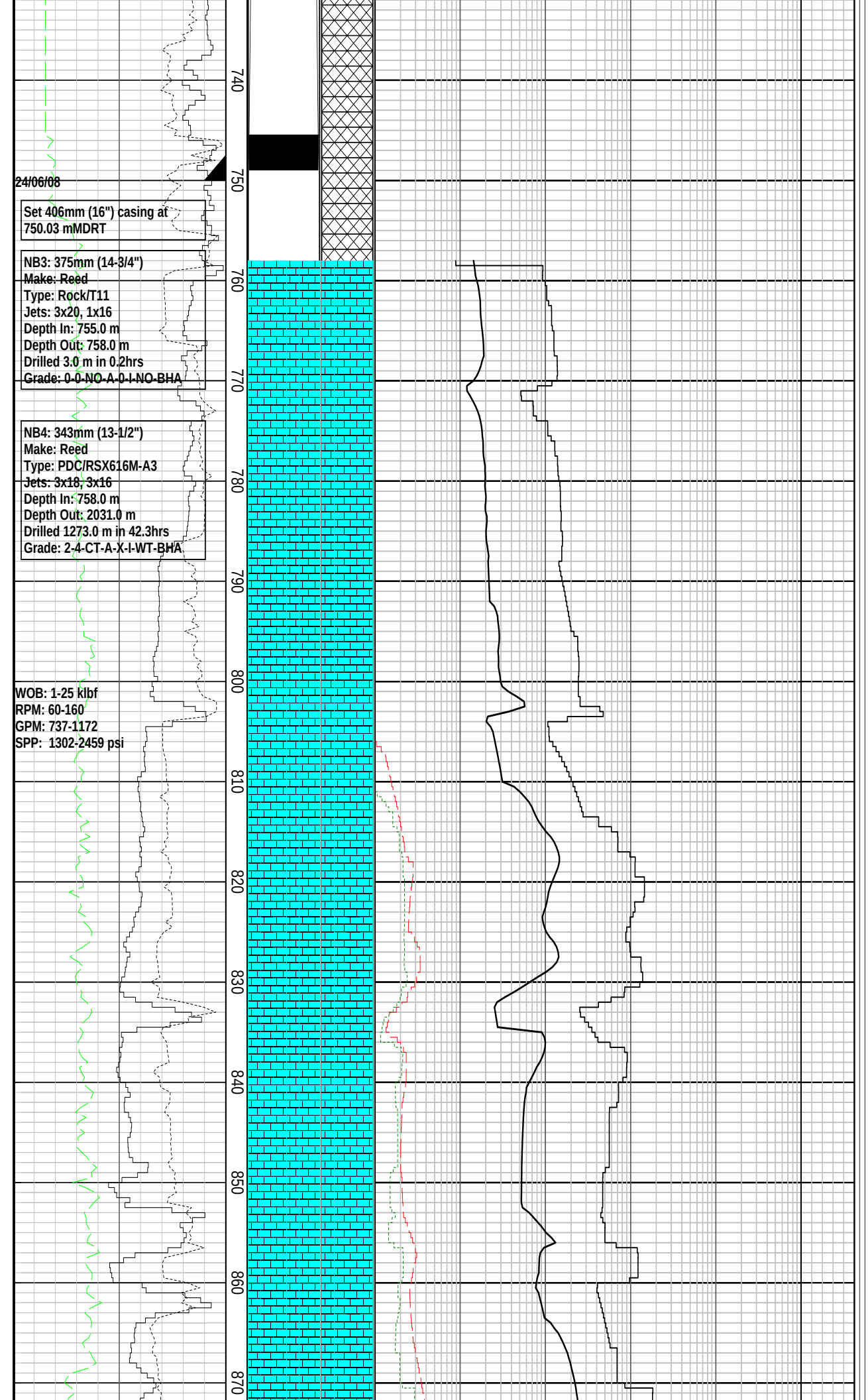
MD: 563.30 m	Azi: 289.41°
TVD: 563.3 m	Incl: 0.97°

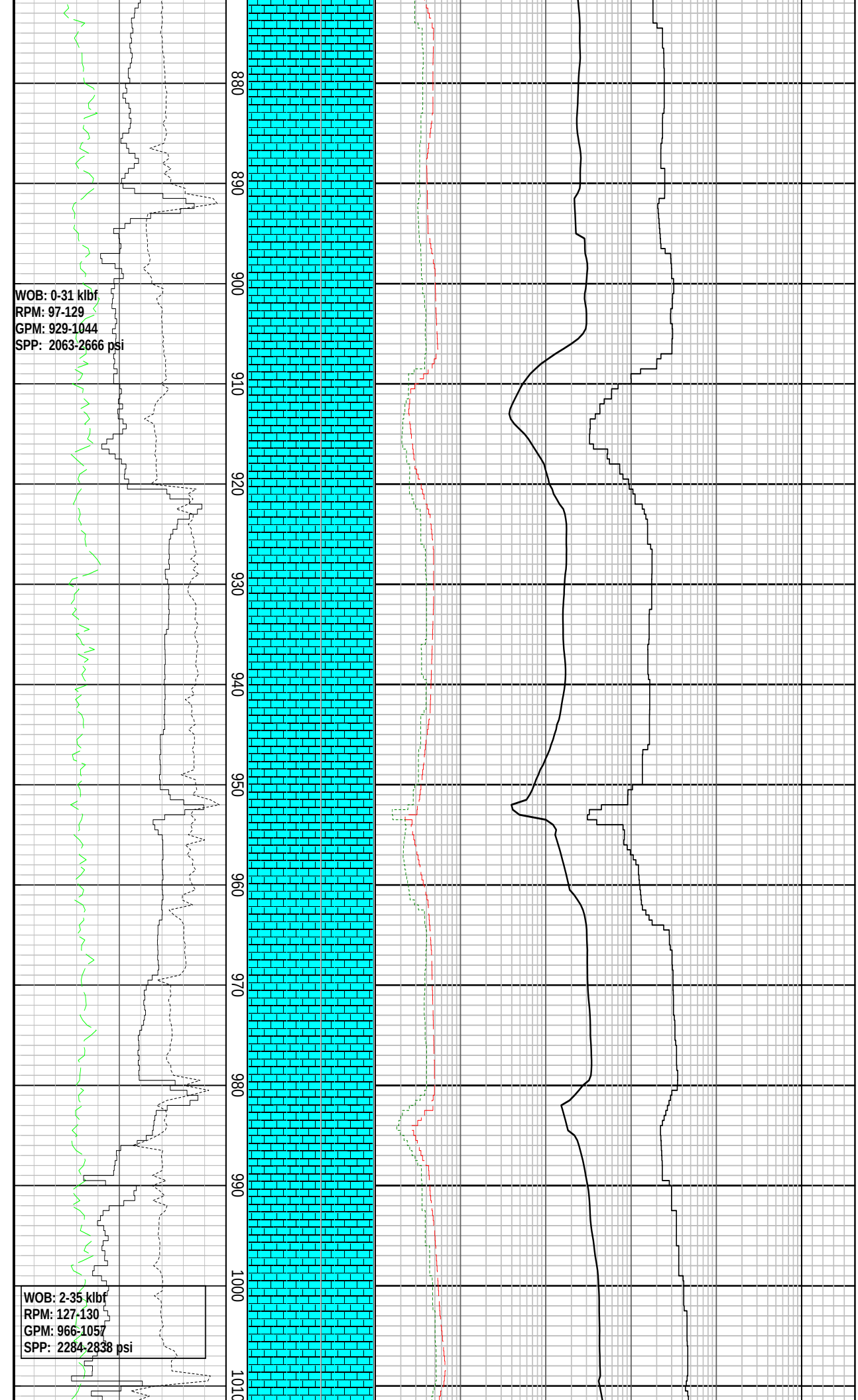


Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m

MD: 651.66 m	Azi: 355.43°
TVD: 651.6 m	Incl: 0.44°

Drill with seawater & Hi-Vis sweeps.
Returns to seabed 97.0m - 755.0m


740
750
760
770
780
790
800
810
820
830
840
850
860
870
24/06/08
Set 406mm (16") casing at 750.03 mMDRT
NB3: 375mm (14-3/4")
Make: Reed
Type: Rock/T11
Jets: 3x20, 1x16
Depth In: 755.0 m
Depth Out: 758.0 m
Drilled 3.0 m in 0.2hrs
Grade: 0-0-NO-A-0-I-NO-BHA
NB4: 343mm (13-1/2")
Make: Reed
Type: PDC/RSX616M-A3
Jets: 3x18, 3x16
Depth In: 758.0 m
Depth Out: 2031.0 m
Drilled 1273.0 m in 42.3hrs
Grade: 2-4-CT-A-X-I-WT-BHA
WOB: 1-25 klbf
RPM: 60-160
GPM: 737-1172
SPP: 1302-2459 psi
MD: 741.14 m Azi: 334.49°
TVD: 741.1 m Incl: 0.59°
MD: 750.39 m Azi: 327.45°
TVD: 750.4 m Incl: 0.71°
22" hole section TD 755.0m
Drill with SBM from 758m to Well TD
LOT @ 758.0m with 8.6 ppg
EMW: 13.70 ppg @ 650 psi
MW: 12.00 ppg FV: 70
PV: 31 YP: 14
Gels: 8/12/14
O/W:70.0/30.0
MD: 783.28 m Azi: 304.12°
TVD: 783.3 m Incl: 0.52°
CLCLT: m-dk gy, sft-frm, occ hd, amor-sbblky, disp, tr vf lse qtz grs
MD: 812.94 m Azi: 203.29°
TVD: 812.9 m Incl: 2.32°
CLCLT: m-dk gy, sft-frm, occ hd, amor-sbblky, disp, tr vf lse qtz grs
MD: 842.62 m Azi: 197.90°
TVD: 842.5 m Incl: 5.16°
CLCLT: m-dk gy, sft-frm, occ hd, amor-sbblky, disp, tr vf lse qtz grs



MD: 872.25 m Azi: 192.11°
TVD: 872.0 m Incl: 7.16°

CLCLT: m-dk gy, sft-frm, occ hd, amor-sbblky, disp, tr vf lse qtz grs

MD: 901.94 m Azi: 183.91°
TVD: 901.4 m Incl: 8.22°

CLCLT: m-dk gy, sft-frm, occ hd, amor-sbblky, disp, tr vf lse qtz grs

MD: 931.42 m Azi: 179.91°
TVD: 930.5 m Incl: 10.19°

CLCLT: lt-m gy,v sft-sft, amor-sbblky, disp, tr vf lse qtz grs

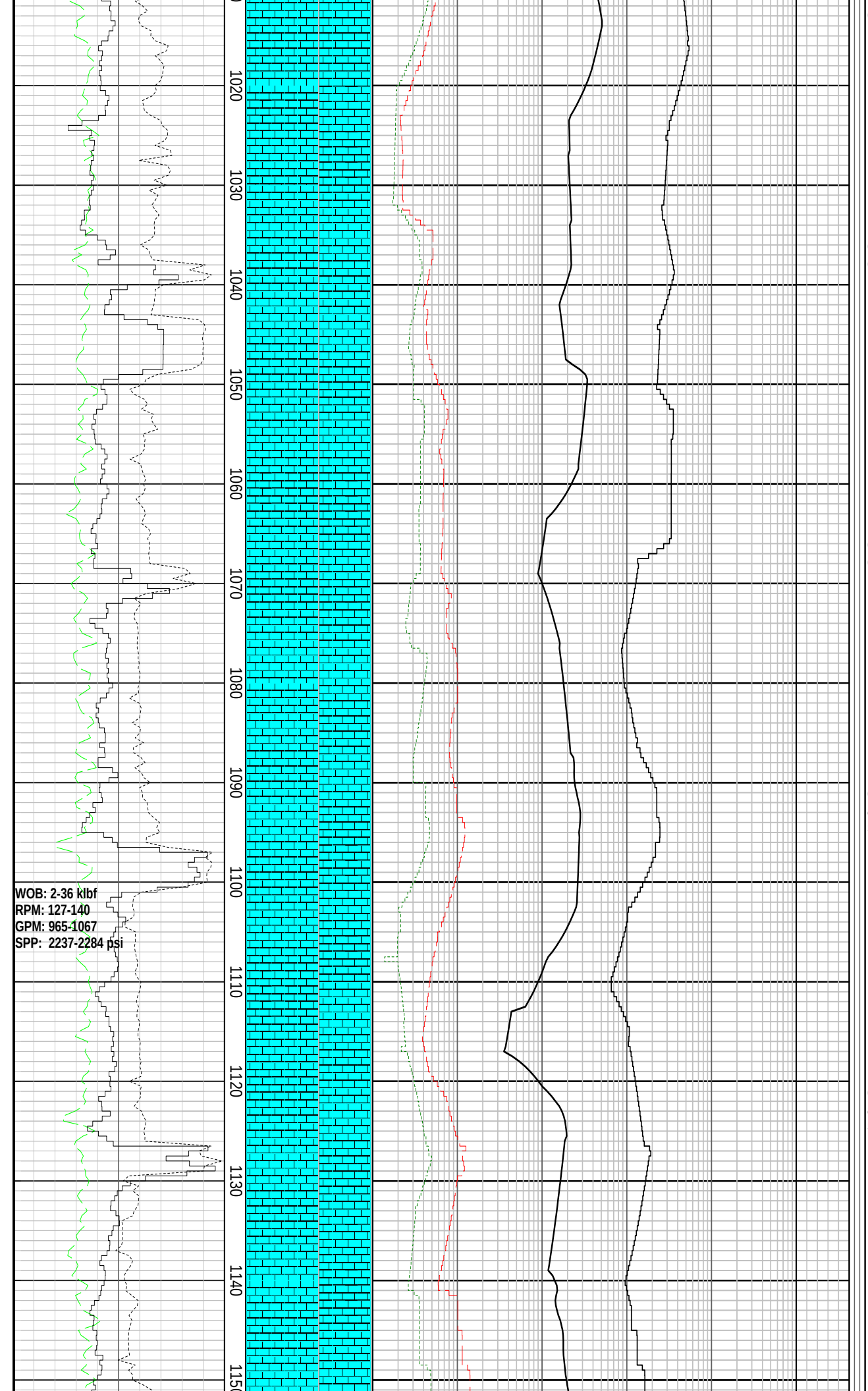
MD: 960.94 m Azi: 179.75°
TVD: 959.4 m Incl: 13.95°

CLCLT: lt m gy, v sft-sft, amor-sbblky, disp, tr vf lse qtz grs

MD: 990.68 m Azi: 178.95°
TVD: 988.0 m Incl: 17.52°

MW: 11.90 ppg FV: 85
PV: 32 YP: 24
Gels: 11/12/12
O/W:65.0/35.0

CLCLT: lt m gy, v sft-sft, amor-sbblky,



CLCLT: lt m gy, v sft-sft, amor-sbblky, disp, tr vf lse qtz grs

MD: 1020.40 m Azi: 177.48°
TVD: 1016.0 m Incl: 20.88°

CLCLT: lt m gy, v sft-sft, amor-sbblky, disp, tr vf lse qtz grs

MD: 1050.8 m Azi: 176.64°
TVD: 1043.4 m Incl: 24.28°

CLCLT: lt m gy, v sft-sft, amor-sbblky, disp, tr vf lse qtz grs

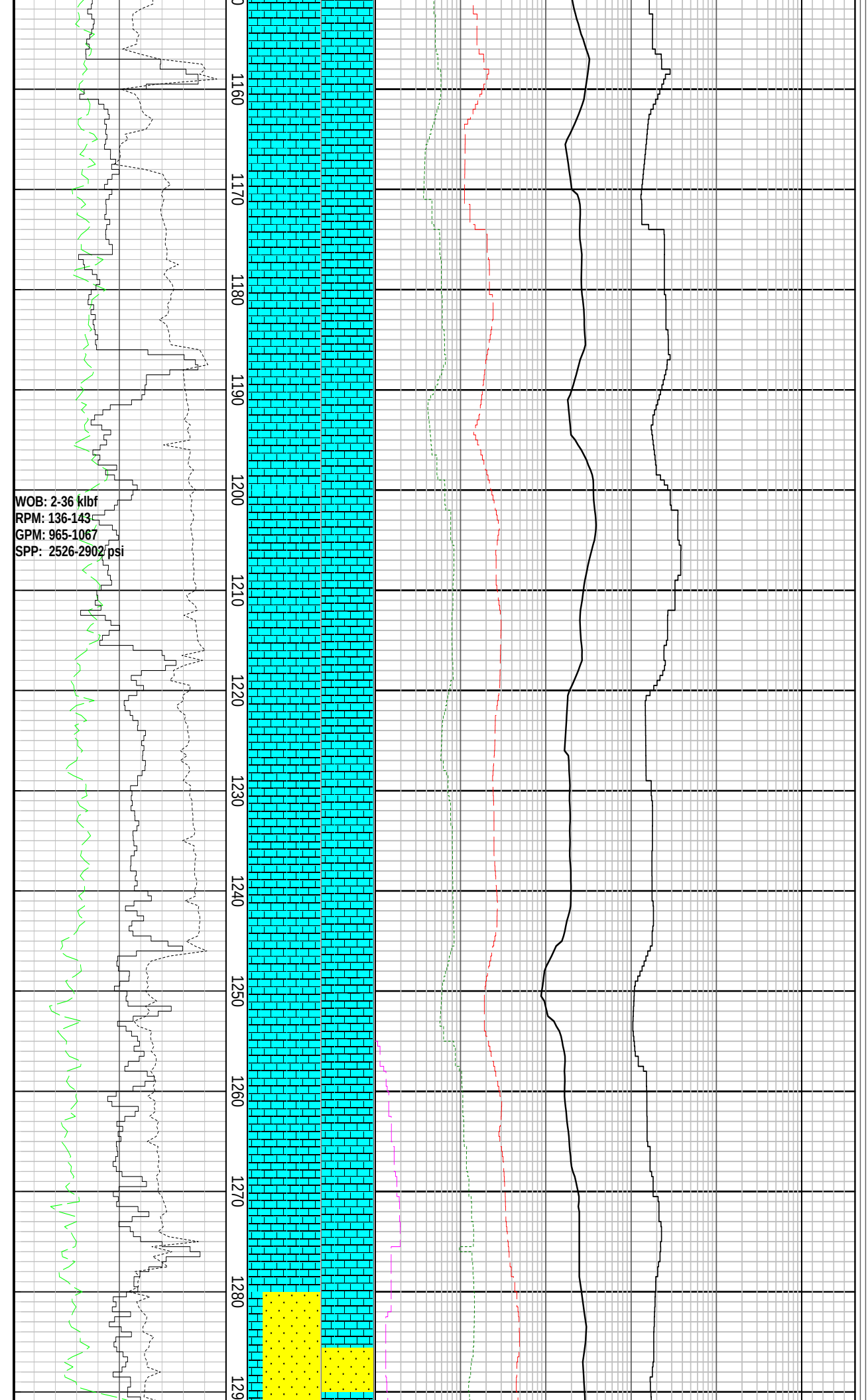
MD: 1078.64 m Azi: 178.42°
TVD: 1069.30 m Incl: 25.70°

CLCLT: lt m gy, occ wh, v sft-sft, amor-sbblky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1108.28 m Azi: 180.79°
TVD: 1095.9 m Incl: 26.85°

CLCLT:lt m gy, occ wh, v sft-sft, amor-sbblky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1137.39 m Azi: 182.43°
TVD: 1121.8 m Incl: 27.64°



MD: 1166.97 m Azi: 183.83°
TVD: 1147.9 m Incl: 28.48°

CLCLT: lt m gy, occ wh, v sft-sft, amor-sbblky, disp, tr glauc, tr carb spks

MD: 1196.40 m Azi: 184.58°
TVD: 1173.60 m Incl: 29.46°

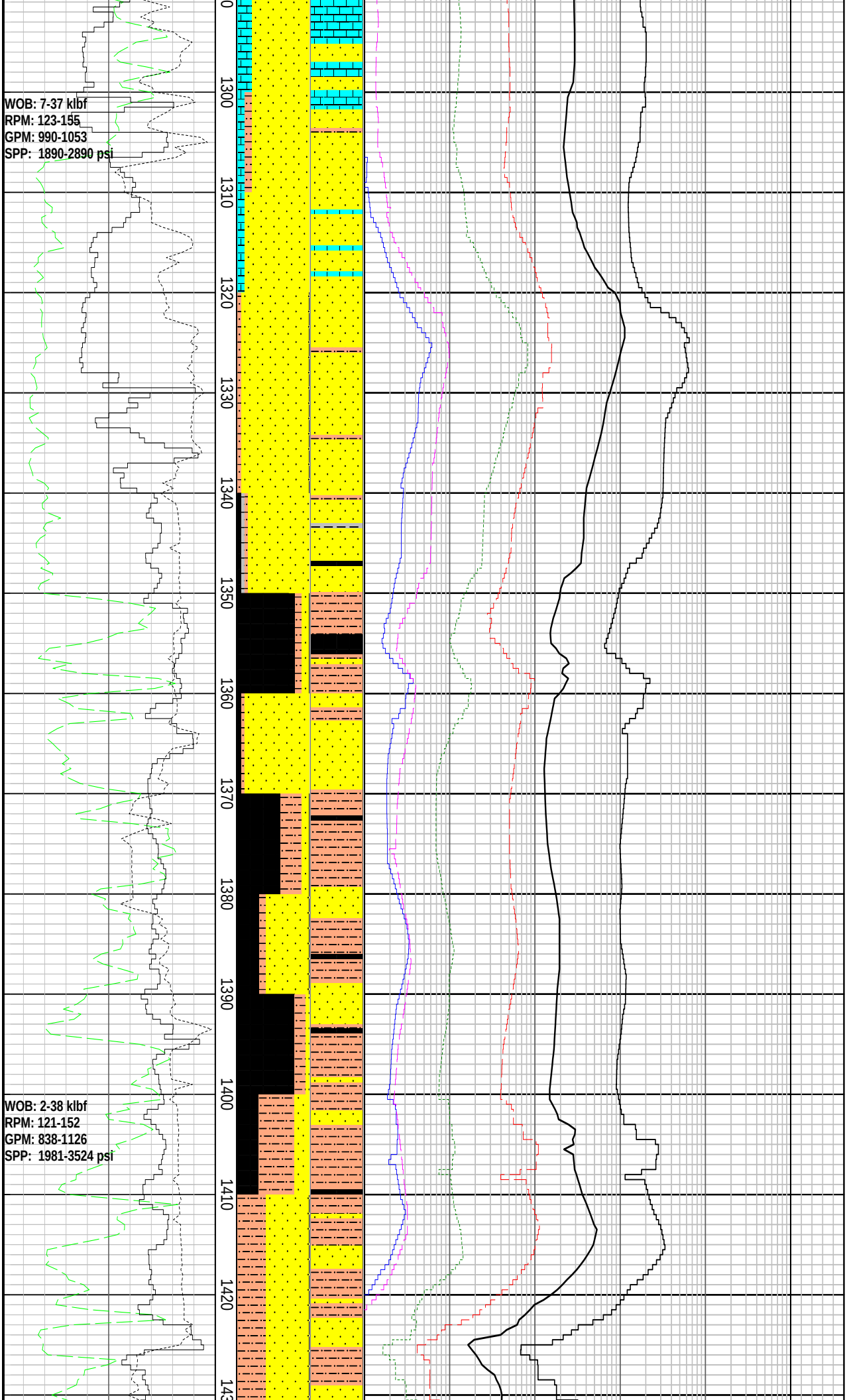
CLCLT: lt m gy, occ wh, v sft-sft, amor-sbblky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1225.95m Azi: 185.46 °
TVD: 1199.30 m Incl: 30.16°

MW: 11.90 ppg FV: 76
PV: 35 YP: 33
Gels: 15/19/--
O/W:67.5/32.5

CLCLT: lt m gy, occ wh, v sft-sft, amor-sbblky, disp, tr glauc, tr carb spks, tr vf lse qtz grs

MD: 1285.37m Azi: 186.70°
TVD: 1250.80 m Incl: 30.03°



SST: lse, wh-v lt gy,clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, rr agg cmt w/ hd blk-hem min, hd, mnr v crs qtz grs, sbrndd, microxln pyr nod, no shw

MD: 1315.16m Azi: 187.70°
TVD: 1276.4 m Incl: 31.09°

SLTST: dk brn gy, frm-mod hd, argl, slily carb, tr pyr

MD: 1344.99m Azi: 187.53°
TVD: 1302.70 m Incl: 31.21°

COAL: blk, mod dull, hd, blky

SLTST: dk brn gy, frm-mod hd, argl, slily carb

MD: 1374.68m Azi: 184.92°
TVD: 1327.4 m Incl: 30.42°

SST: lse, wh-v lt gy, clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, mnr v crs qtz grs, fr inf por, no shw

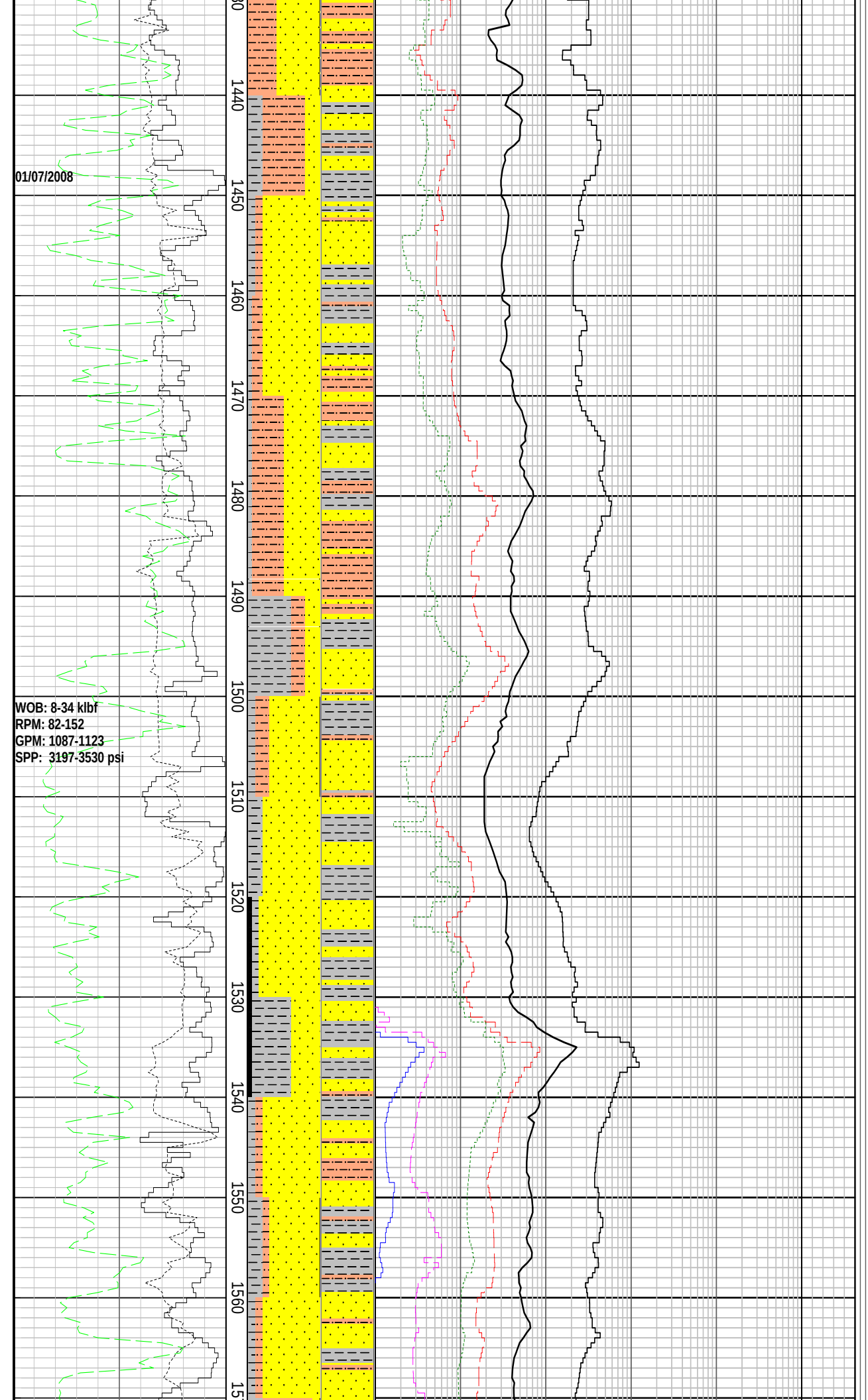
COAL: blk, frm, grd to carb Sltst

MD: 1404.59m Azi: 183.00°
TVD: 1353.3 m Incl: 30.04°

SST: lse, wh-v lt gy, clr-trnsl grs, occ opq, v f-m, dom f, mod srt, sbang-rndd, qtz w/ mnr fspr & lit, mnr v crs qtz grs, fr inf por, no shw

MW: 12.00 ppg FV: 78
PV: 37 YP: 37
Gels: 15/20/--
O/W:65.9/34.1

SLTST: dk brn gy, sft - frm, blky -



sbblky, argl, slily carb, tr pyr

MD: 1433.94m Azi: 182.29°
TVD: 1378.5 m Incl: 31.67°

CLYST: wh - lt gy, v sft - sft, amor - sbblky, disp

SST: lse qtz gr, wh, trnsp-trnsl, vf-v crs, pred f-m, hd-v hd, ang-rndd, prly srt, fr inf por, no shw

MD: 1463.79m Azi: 181.20°
TVD: 1404.0 m Incl: 30.65°

SLTST: dk brn gy, sft-frm, blky-sbblky, argl, slily carb, tr pyr

CLYST: wh-lt gy, v sft-sft, amor-sbblky, disp

SST: lse qtz gr, wh, trnsp-trnsl, vf-v crs, pred f-m, hd-v hd, ang-rndd, prly srt, fr inf por, no shw

MD: 1493.62m Azi: 180.72°
TVD: 1429.80 m Incl: 30.04°

CLYST: wh-lt gy, v sft-sft, amor-sbblky, disp

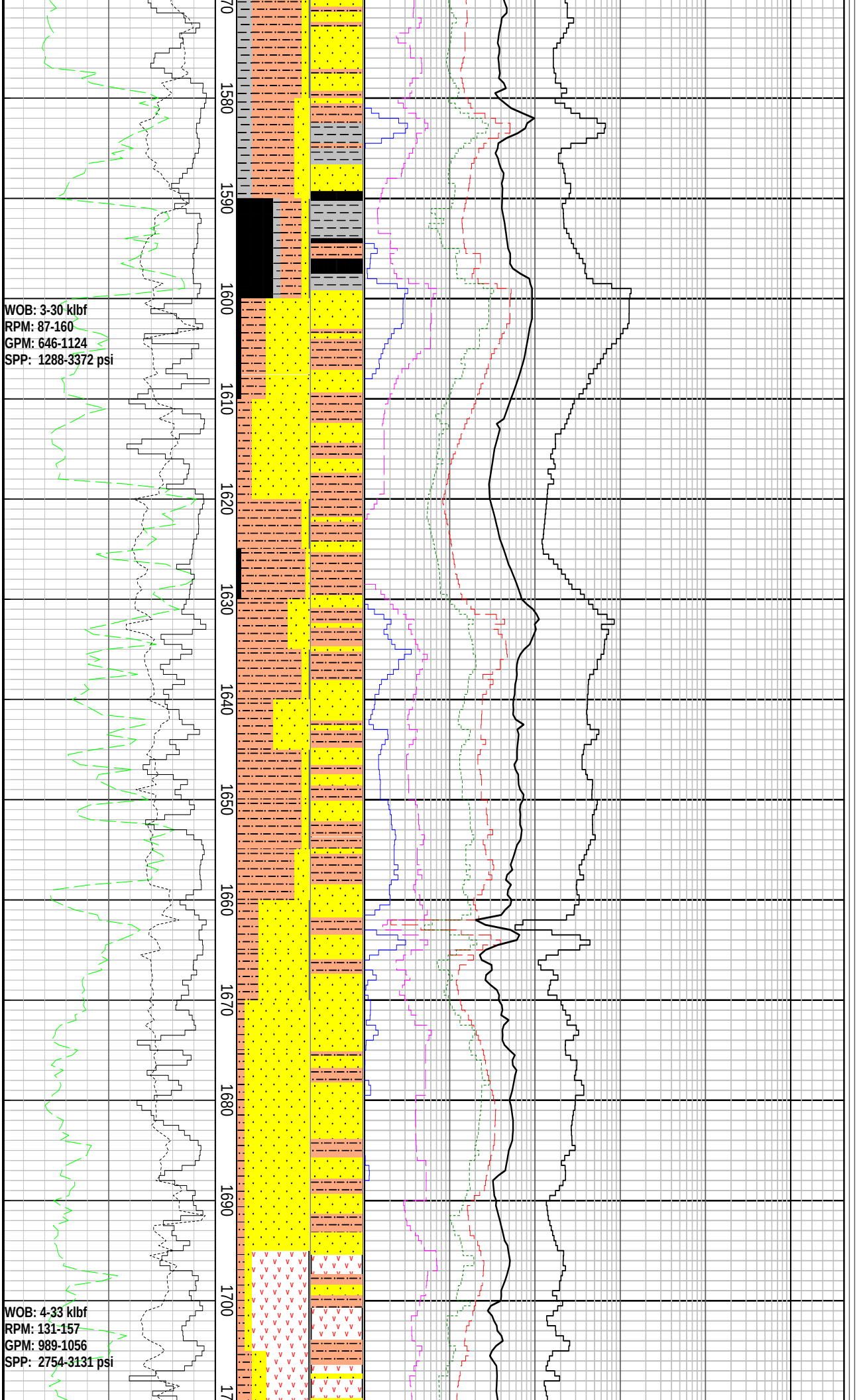
SST: lse qtz grs, wh-v lt gy, clr-trnsl, occ opq, vf-v crs, rndd-sbrndd, ang i/p, sbsph-sph, mod srt, tr pyr nod, fr inf por, no show

MD: 1523.11m Azi: 181.58°
TVD: 1455.36 m Incl: 30.08°

SLTST: m dk gy-dk gy, sft-frm, sbblky argl, carb i/p

MD: 1553.11m Azi: 181.81°
TVD: 1481.2 m Incl: 30.38°

SST: lse qtz grs, wh-v lt gy, clr-trnsl, occ opq, vf-v crs, rndd-sbrndd, ang i/p, sbsph-sph, mod srt, tr pyr nod, fr inf por, no show



MD: 1583.05m Azi: 183.44°
TVD: 1507.0 m Incl: 30.31°

SLTST: m gy-brnsh gy, fri-mod frm, amor-sbblky, com argl mtrx, tr micrxln pyr, mnr carb frag & lam, grd to argl Sltst

MD: 1612.84m Azi: 184.08°
TVD: 1532.8 m Incl: 30.34°

COAL: blk-brnsh blk, frm, blky-sbblky erthy-sbvit lus, brit

CLYST: m gy-m dk gy, mod frm, amor-sbblky, mnr qtz slt, tr carb frag, non calc

SLTST: m gy-brnsh gy, fri-mod frm, amor-sbblky, com argl mtrx, tr micrxln pyr, mnr carb frag & lam, grd to argl Sltst

MD: 1642.12m Azi: 183.53°
TVD: 1558.0 m Incl: 30.48°

SST: qtz, wh-v lt gy, dom lse, tr sft, m-v crs, pred crs, mod srt, ang-sbang, mnr sbrndd, low-mod spsh, tr sft agg w/ argl mtrx, tr intgran pyr cmt, tr pyr grs, gd inf por, no shws

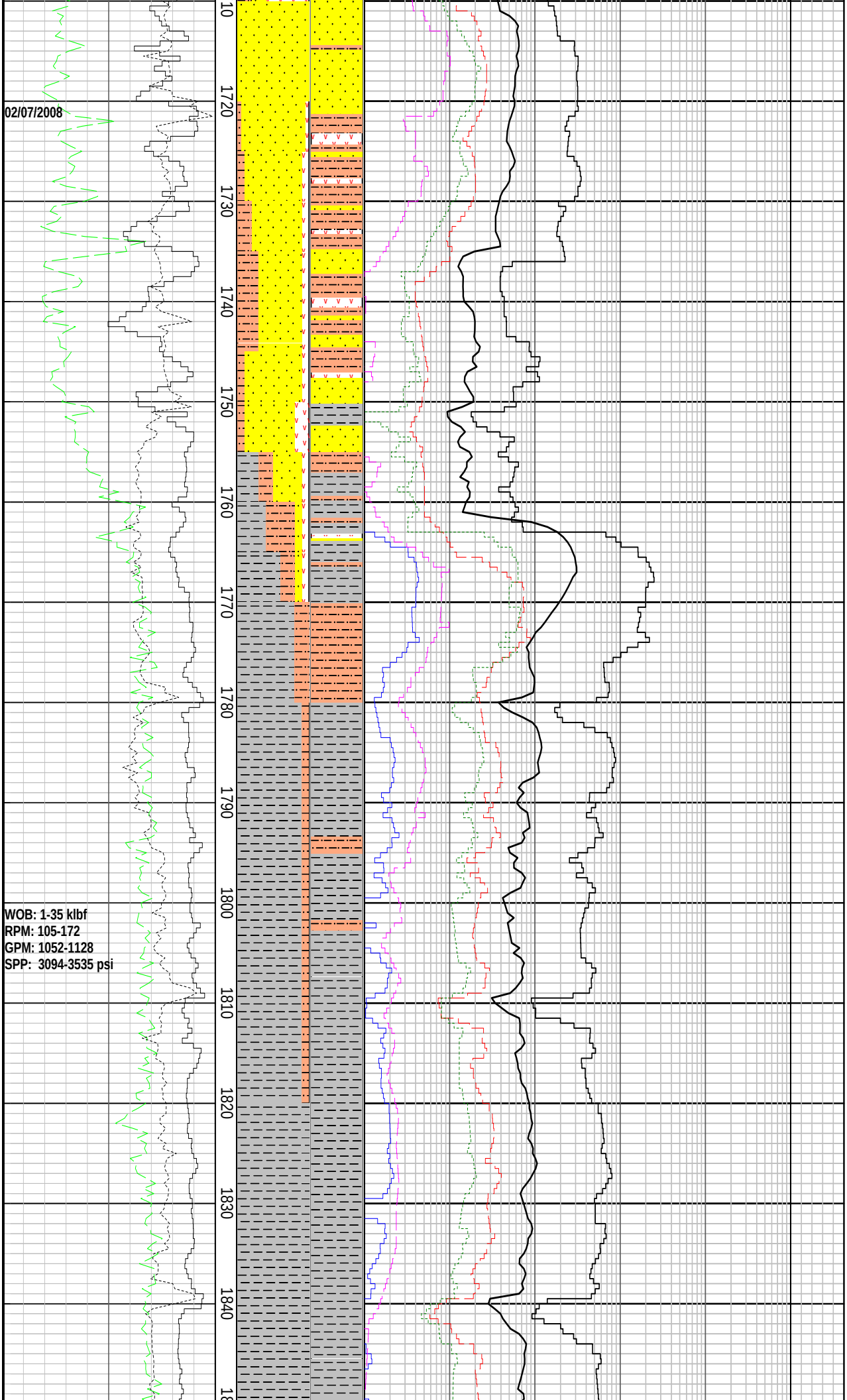
MD: 1671.81m Azi: 182.75°
TVD: 1583.60 m Incl: 30.16°

SST: qtz, wh-v lt gy, dom lse, tr sft, m-v crs, pred crs, mod srt, ang-sbang, mnr sbrndd, low-mod spsh, tr sft agg w/ argl mtrx, tr intgran pyr cmt, tr pyr grs, gd inf por, no shws

MW: 12.10 ppg FV: 78
PV: 35 YP: 36
Gels: 14/19/--
O/W:67.5/32.5

VOLC: off wh, lt gy-lt gn, speck gy-dk gy, sft-mod frm, occ v sft, sbblky-blky

MD: 1701.38m Azi: 181.97°
TVD: 1609.20 m Incl: 29.96°



SST: qtz, wh-v lt gy, trnsp-trnsl, dom lse, tr sft, m-v crs, pred crs, mod srt, ang-sbang, mnr sbrndd, low-mod spsh, tr pyr grs, gd inf por, no shw

MD: 1730.84m Azi: 182.20°
TVD: 1634.70m Incl: 30.49°

VOLC: off wh, lt gy-lt gn, speck gy-dk gy, sft-mod frm, occ v sft, sbblky-blky

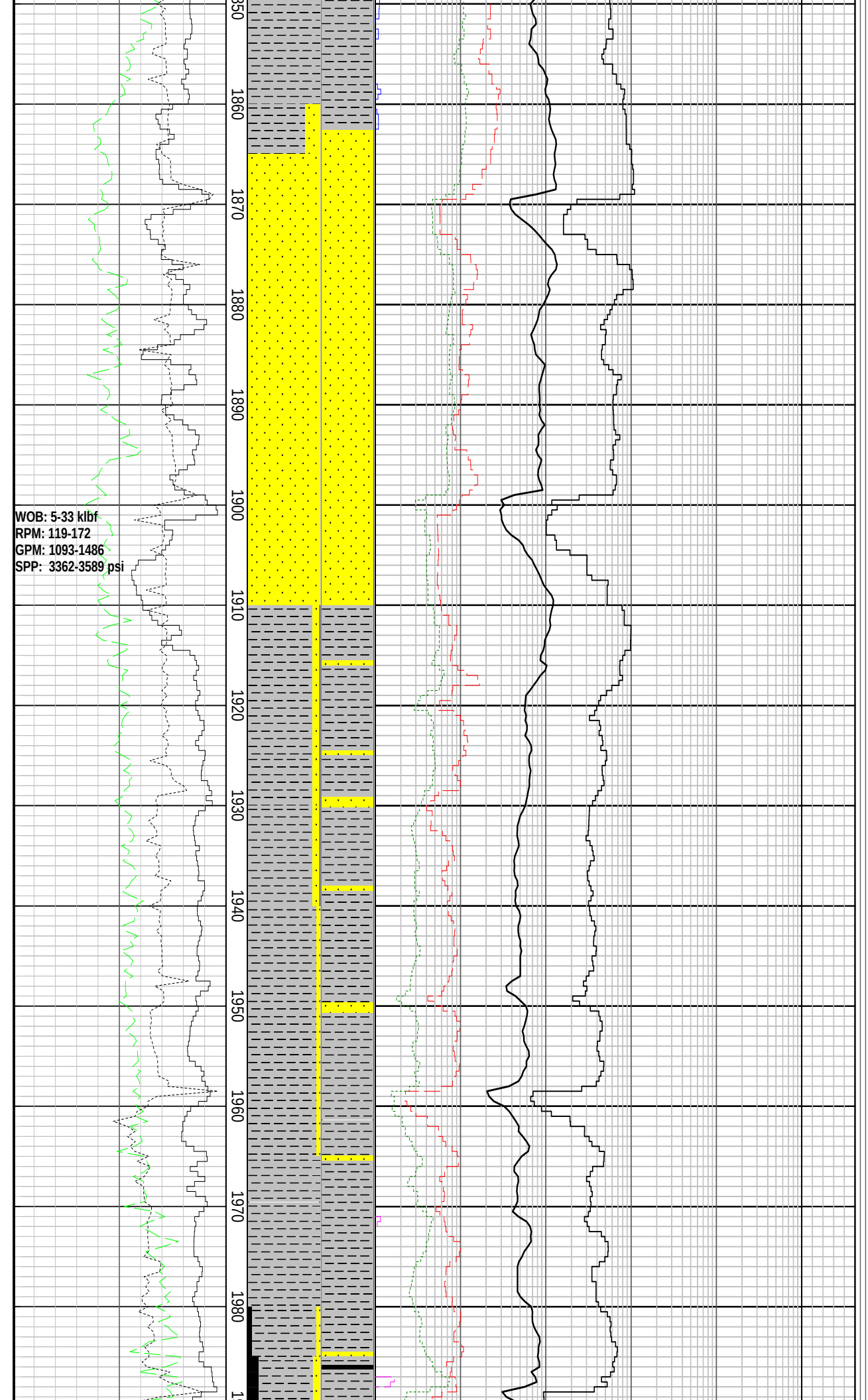
MD: 1760.64m Azi: 183.16°
TVD: 1660.40m Incl: 30.44°

MD: 1790.34m Azi: 183.49°
TVD: 1686.10m Incl: 29.76°

CLYST: m-dk gy, dk brnsh gy, mod frm-frm, blky, occ lams, tr pyr, grd to Sltst

MD: 1820.04m Azi: 183.26°
TVD: 1711.90m Incl: 28.44°

CLYST: m-dk gy, dk brnsh gy, occ lt gy, mod frm-frm, occ sft, blky, occ lams, tr pyr, grd to Sltst



MD: 1849.86m Azi: 182.80°
TVD: 1738.10m Incl: 28.05°

SST: lse qtz grs, wh-v lt gy, trnsl-trnsp, hd, vf-m, mod srt, sbang-rndd, fr inf por, no shw

MD: 1879.39m Azi: 182.54°
TVD: 1764.10m Incl: 28.44°

SST: lse qtz grs, wh-v lt gy, trnsl-trnsp, hd, vf-m, mod srt, sbang-rndd, fr inf por, no shw

MD: 1909.08m Azi: 181.91°
TVD: 1790.20m Incl: 29.18°

CLYST: m-dk gy, dk brnsh gy, occ lt gy, mod frm-frm, occ sft, blky, occ lams, tr pyr, grd to SLTST

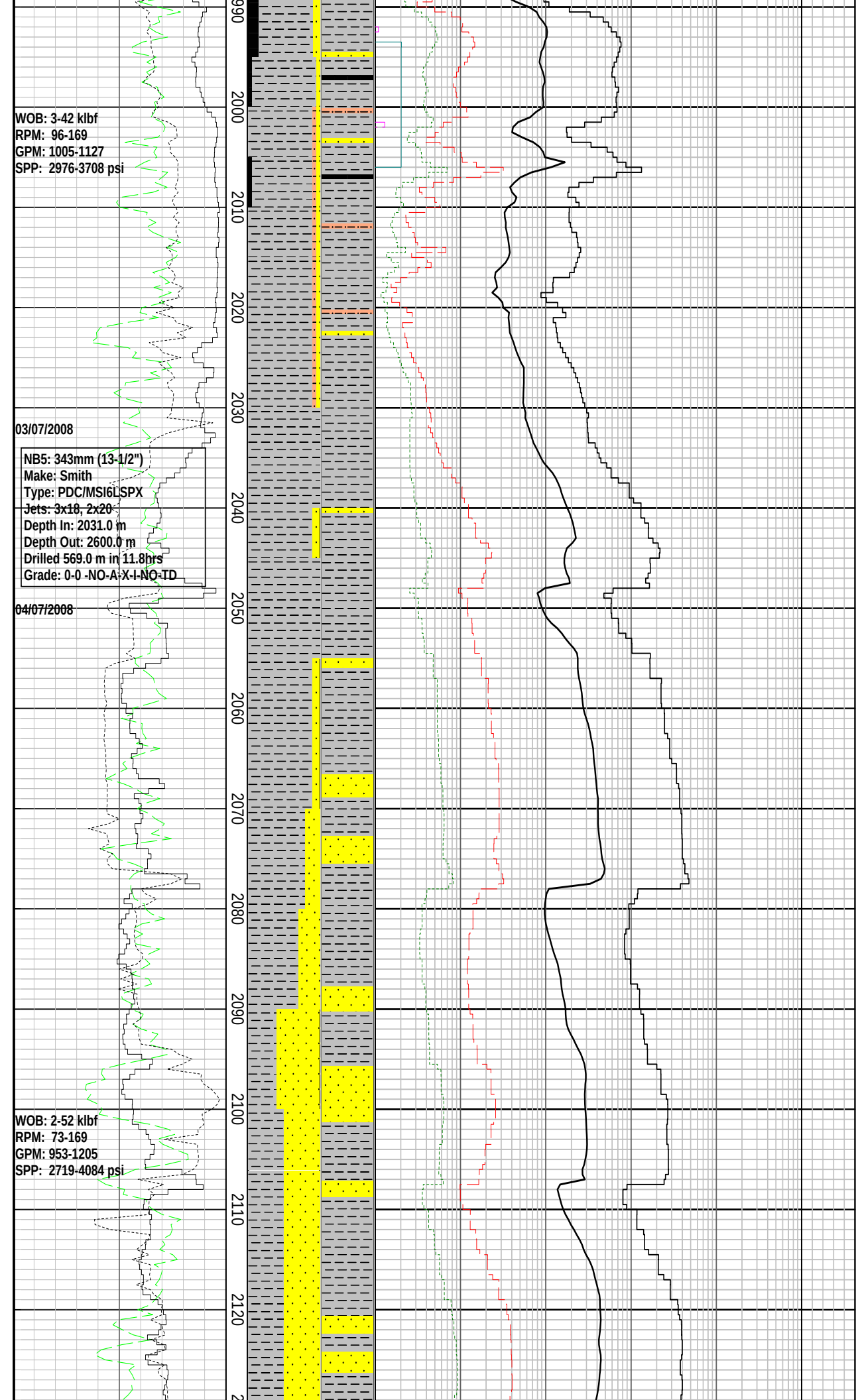
MD: 1938.97m Azi: 182.37°
TVD: 1816.2m Incl: 29.25°

CLYST: m gy-m lt gy, sft-frm i/p, blky, tr carb spks, tr pyr nod, grd to Slty Clyst

SST: lse qtz grs, wh-v lt gy, trnsp-trnsl, occ opq, hd-v hd, vf-f, crs i/p, sbang-rndd, sbsph i/p, mod srt, fr inf por, no shw

MD: 1968.51m Azi: 181.63°
TVD: 1842.2m Incl: 27.81°

COAL: blk, frm, blky-sbblky, erthy-sbvit lus, brit



SST: lt gy-m lt gy, lse, w/ com fri-frm agg, vf-f grs, sbang-sbrndd, mnr rndd mod-high sph, v wl srt, v lt gy-lt brnsh gy, argl mtrx, tr blk & mod red lith grs, tr coaly frag, pr

MD: 1998.05m Azi: 181.66°
TVD: 1868.4m Incl: 27.26°

CLYST: m gy-m lt gy, sft-frm i/p, blky, tr carb spks, tr pyr nod, grd to Slty Clyst

MW: 12.00 ppg FV: 72
PV: 38 YP: 34
Gels: 14/19/--
O/W:70.0/30.0

MD: 2028.03m Azi: 181.70°
TVD: 1895.1m Incl: 26.98°

SST: wh-v lt gy, trnsp-trnsl, occ opq, fri-mod hd, v hd i/p, vf-f, med crs i/p, ang-sbrndd, sbsph-sph, mod wl srt, mod calc cmt, pr inf por, no shw

CLYST: lt-m gy, bnsh gy, dk gnsh gy, v sft-mod frm,sbblky-blky, tr carb spks, occ lams, tr pyr, grd to Slty Clyst

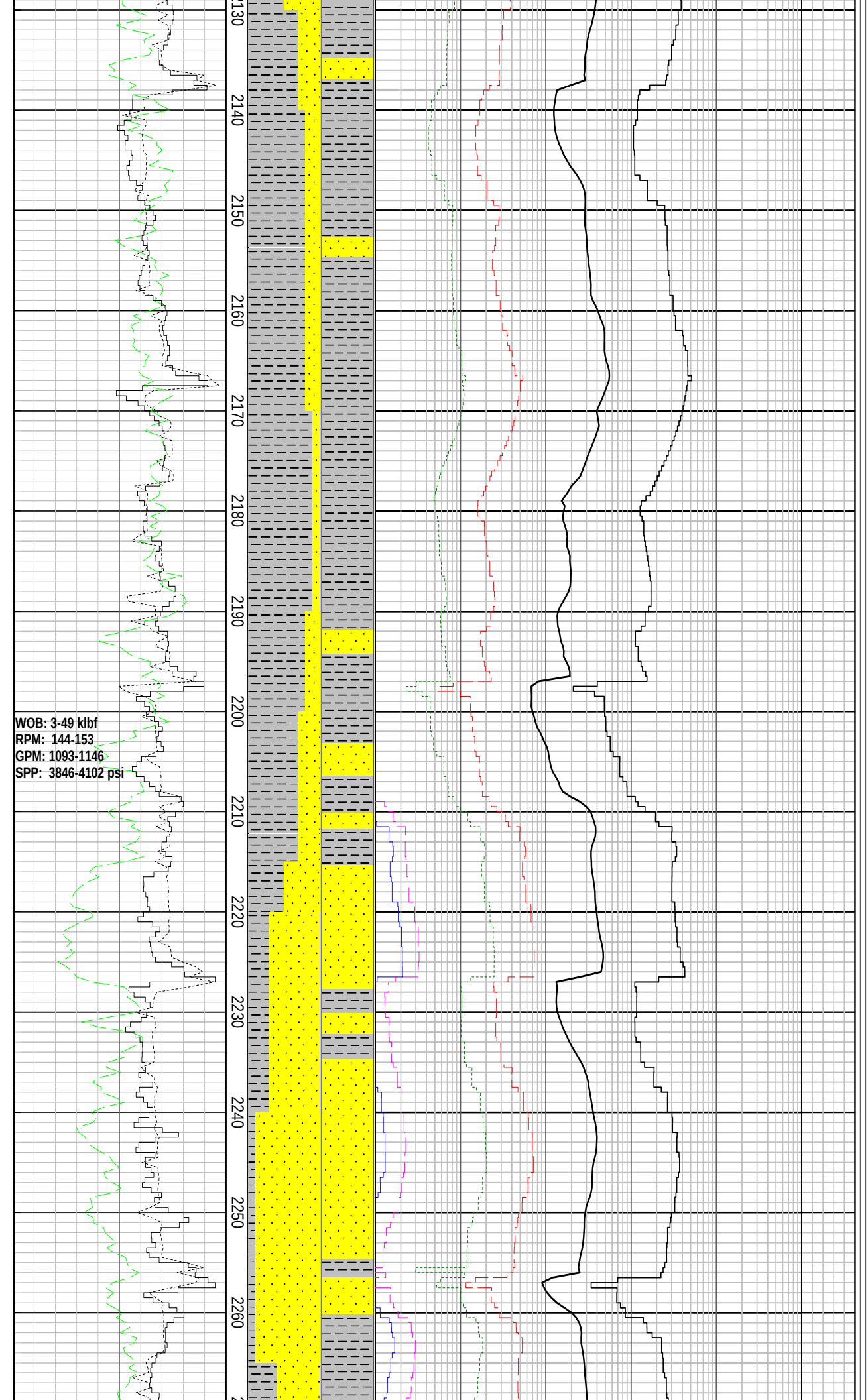
MD: 2057.68m Azi: 184.81°
TVD: 1921.2m Incl: 29.01°

CLYST: lt-m gy, bnsh gy, dk gnsh gy, v sft-mod frm,sbblky-blky, tr carb spks, occ lams, tr pyr, grd to Slty Clyst

MD: 2087.27m Azi: 188.03°
TVD: 1947.1m Incl: 29.58°

SST: lse qtz gns, trnsl-trnsp, wh-v lt gy, vf-f, occ m, sb ang-rnd, mod srt, arg mtrx, fr inf por, no shw

MD: 2116.78m Azi: 188.02°
TVD: 1972.7m Incl: 29.55°



SST: lse qtz gns, trnsl-trnsp, wh-v lt gy, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtrx, fr inf por, no shw

MD: 2146.82m Azi: 187.12°
TVD: 1998.7m Incl: 30.97°

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm, occ sft-mod frm, sbblky-blky, occ lams, grd to Sltst

MD: 2176.36m Azi: 185.57°
TVD: 2023.9m Incl: 31.76°

SST: lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtrx, fr inf por, no shw

MD: 2206.21m Azi: 183.82°
TVD: 2049.3m Incl: 31.48°

SST: agg-lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtrx, fr vis por, no shw

MD: 2235.88m Azi: 183.41°
TVD: 2074.6m Incl: 31.35°

SST: agg-lse qtz gns, trnsl-trnsp, wh-off wh, hd-v hd, vf-f, occ m-crs, sb ang-rnd, mod-wl srt, arg mtx, fr vis por, no shw

MD: 2265.38m Azi: 184.62°
TVD: 2099.7m Incl: 32.11°

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm, occ sft-mod frm, sbblky-blky, occ lams, grd to Sltst

MD: 2295.13m Azi: 185.04°
TVD: 2125.0m Incl: 31.69°

CLYST: m-dk gy, occ bn gy, mod frm-frm, occ sft, occ hd, sbblky-blky, occ lams, grd to Sltst

MD: 2325.11m Azi: 184.84°
TVD: 2150.3m Incl: 33.21°

SST: agg-lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m-crs, sb ang-rndd, mod-wl srt, arg mtrx, calc cmt, fr vis por, no shw

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm-hd, occ mod frm, sbblky-blky, occ lams, grd to Sltst

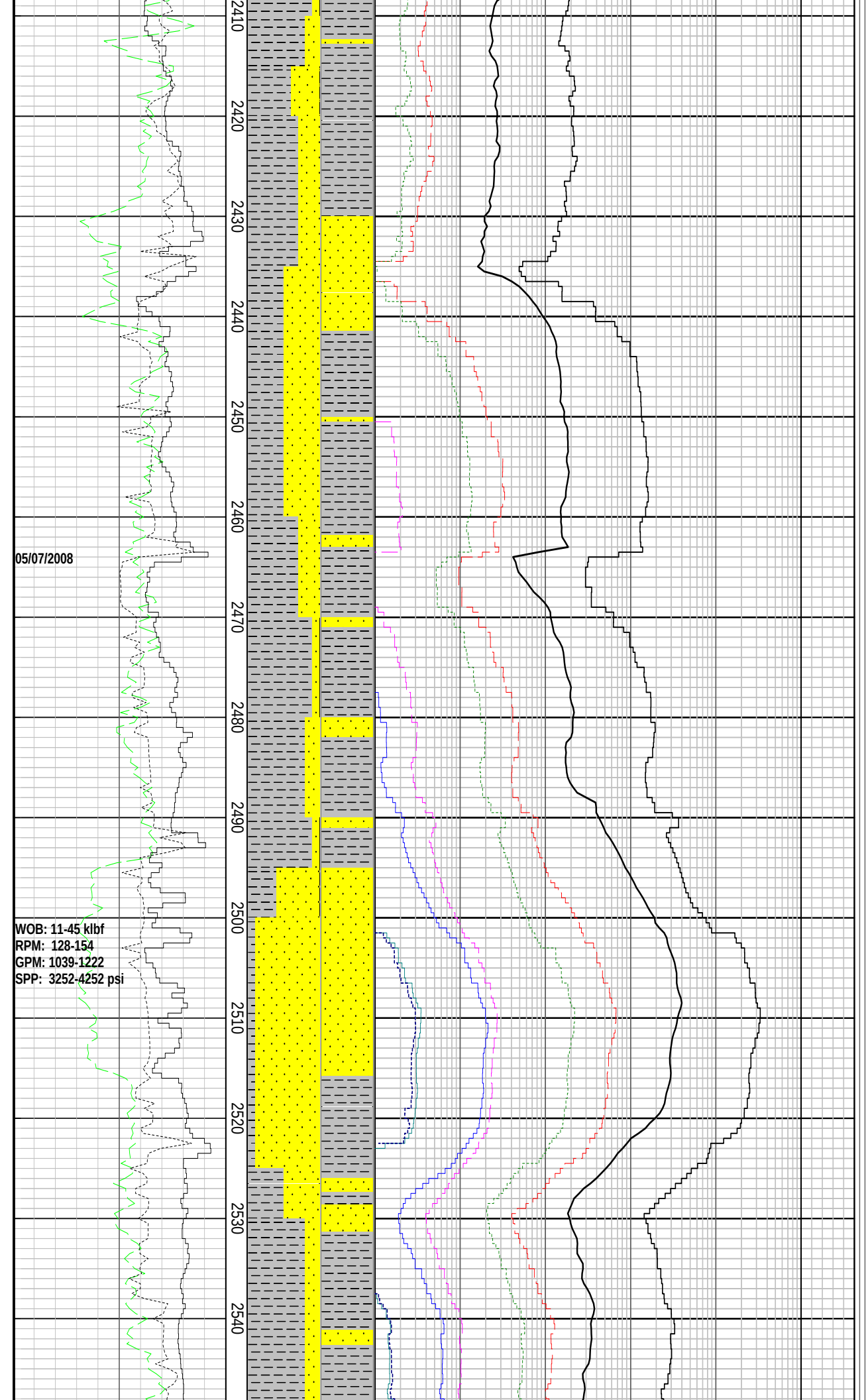
MD: 2355.31m Azi: 185.28°
TVD: 2175.1m Incl: 35.92°

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm-hd, occ mod frm, sbblky-blky, occ lams, grd to Sltst

MD: 2385.09m Azi: 184.07°
TVD: 2199.1m Incl: 36.82°

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm-hd, occ mod frm, sbblky-blky, occ lams, grd to Sltst

MW: 12.00 ppg FV: 84
PV: 41 YP: 38



MD: 2413.59m Azi: 183.21°
TVD: 2221.80m Incl: 37.70°

SST: agg-lse qtz gns, trnsl-trnsp, wh-off wh, pa gy, hd-v hd, vf-f, occ m, sb ang-rndd, mod-wl srt, arg mtrx, calc cmt, fr vis por, no shw

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm-hd, occ mod frm, sbblky-blky, occ lams, grd to Sltst

SST: agg-lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m, sb ang-rndd, mod-wl srt, arg mtrx, calc cmt, fr vis por, no shw

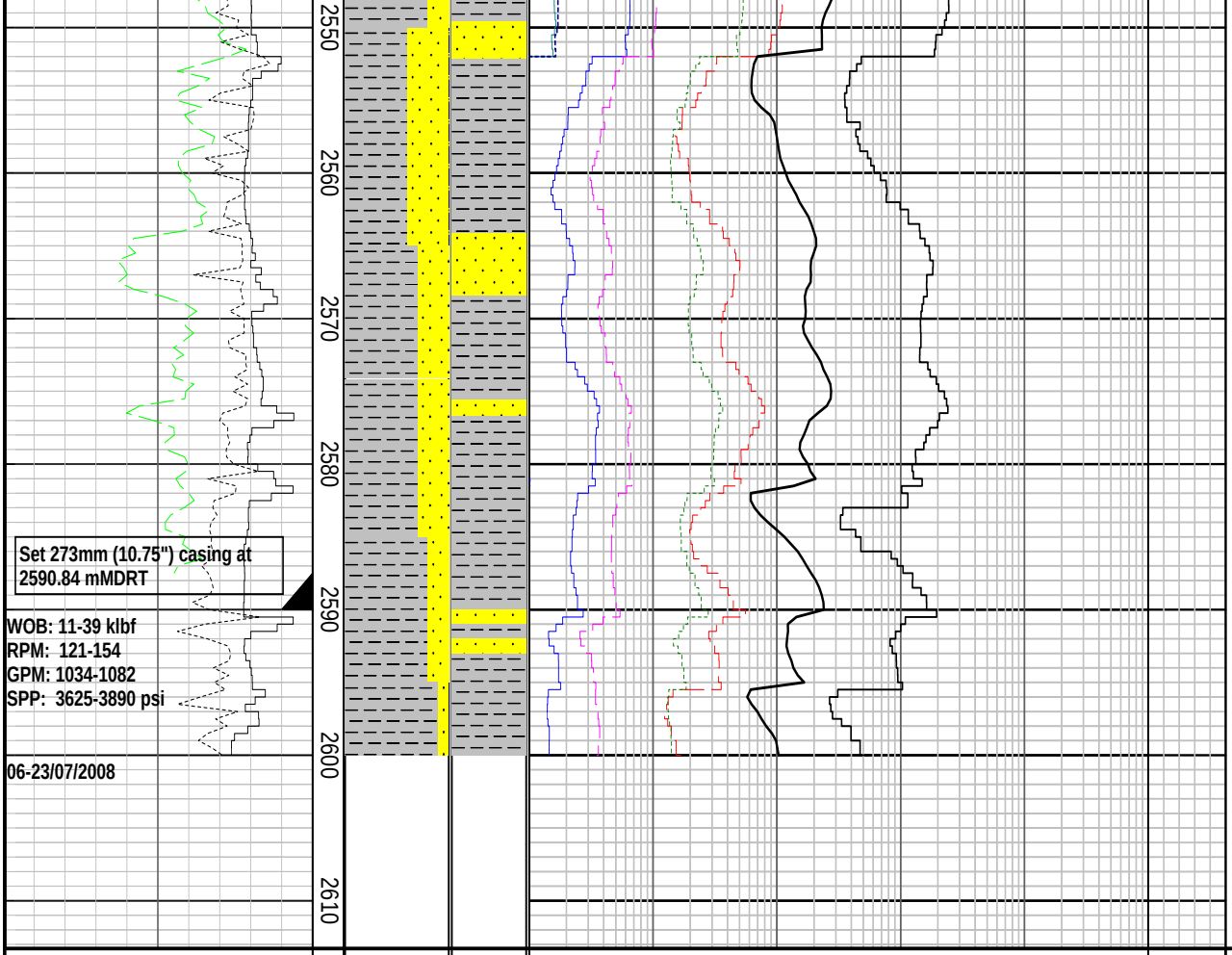
MD: 2472.44m Azi: 182.99°
TVD: 2266.8m Incl: 42.55°

CLYST: dk gy, occ lt-m gy, occ brnsh gy, frm-hd, occ mod frm, sbblky-blky, occ lams, grd to Sltst

MD: 2502.19m Azi: 182.77°
TVD: 2288.2m Incl: 45.34°

SST: agg-lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m, sb ang-rndd, mod-wl srt, arg mtrx, calc cmt, fr vis por, no shw

MD: 2531.76m Azi: 183.24°
TVD: 2308.4m Incl: 48.61°



CLYST: m-dk gy, occ bn gy, mod frm-frm, occ sft, occ hd, sbblky-blky, occ lams, grd to Sltst

MD: 2561.19m Azi: 182.57°
TVD: 2327.4m Incl: 50.89°

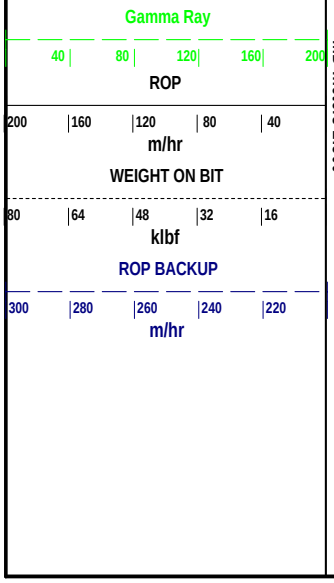
SST: agg-lse qtz gns, trnsl-trnsp, wh-v lt gy, fri, vf-f, occ m, sb ang-rndd, mod-wl srt, arg mtrx, calc cmt, fr vis por, no shw

MD: 2578.22m Azi: 183.03°
TVD: 2338.0m Incl: 52.52°

CLYST: m-dk gy, occ bn gy, mod frm-frm, occ sft, occ hd, sbblky-blky, occ lams, grd to Sltst

13.5" hole section TD 2600.0m

Wireline Logging:
Run #1 XPT-DS1
Run #2 MDT-GR
Run #3 CST-GR
Run #4 MDT-GR
Drill Pilot hole
Longtom-4 P from 2600.0m



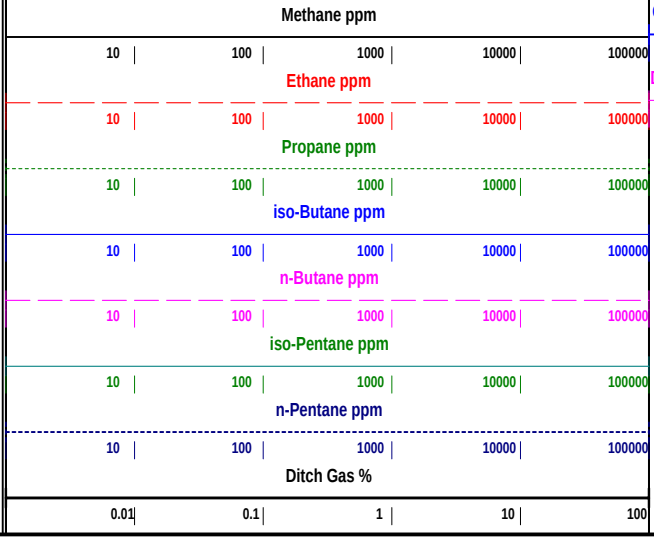
MD meters 1:500

Cuttings

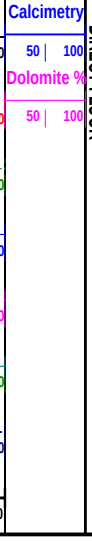
INTERPRETED LITHOLOGY

FORMATION EVALUATION LOG

Chromatograph Data



Analysis

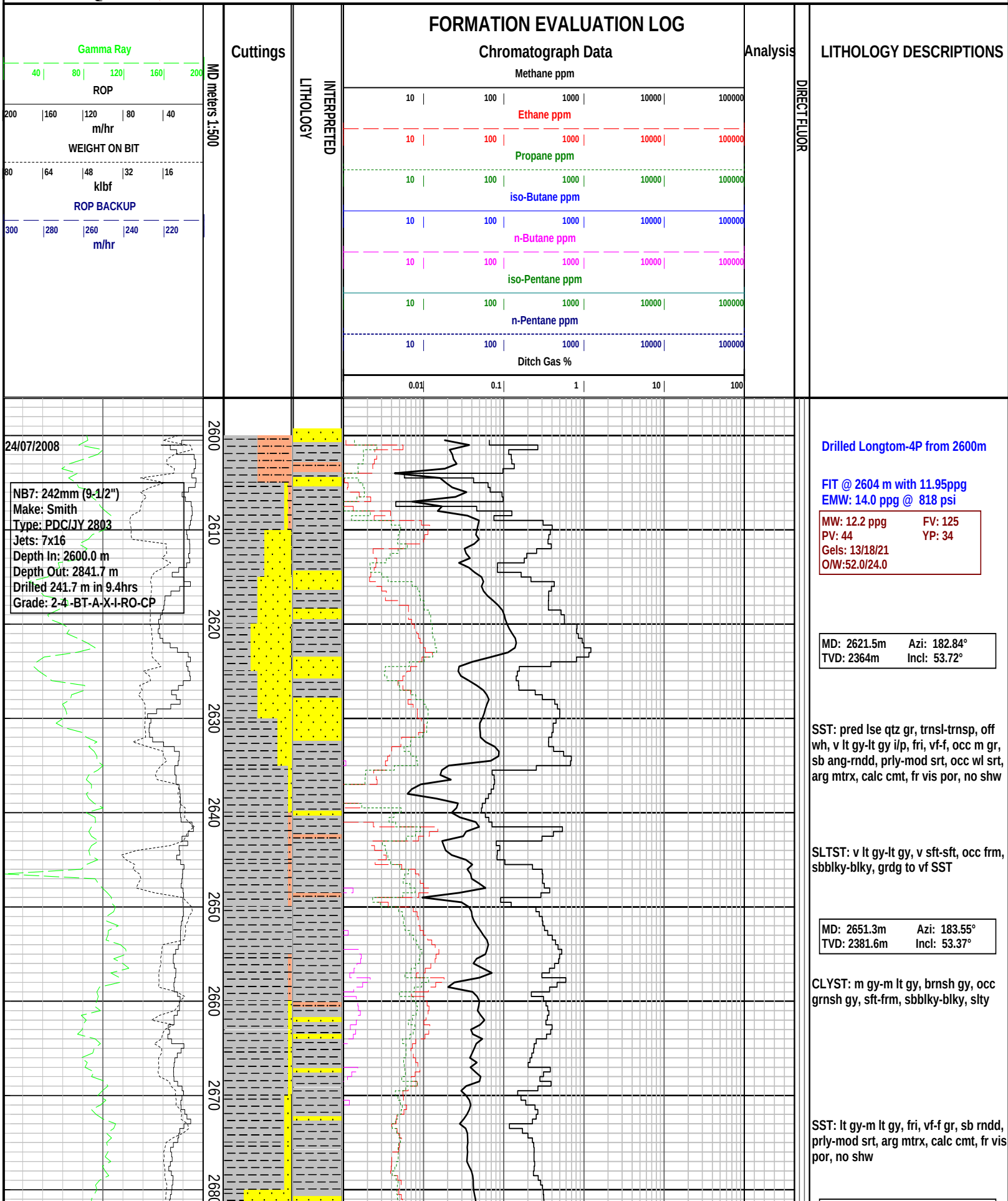


DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

BAKER HUGHES
INTEQ

Company : Nexus Energy
Well : Longtom-4
Interval : 2596.00 - 2996.28 meters
Created : 01/Aug/2008 3:40:15 AM



Drilled Longtom-4P from 2600m

FIT @ 2604 m with 11.95ppg
EMW: 14.0 ppg @ 818 psi

MW: 12.2 ppg FV: 125
PV: 44 YP: 34
Gels: 13/18/21
O/W:52.0/24.0

MD: 2621.5m Azi: 182.84°
TVD: 2364m Incl: 53.72°

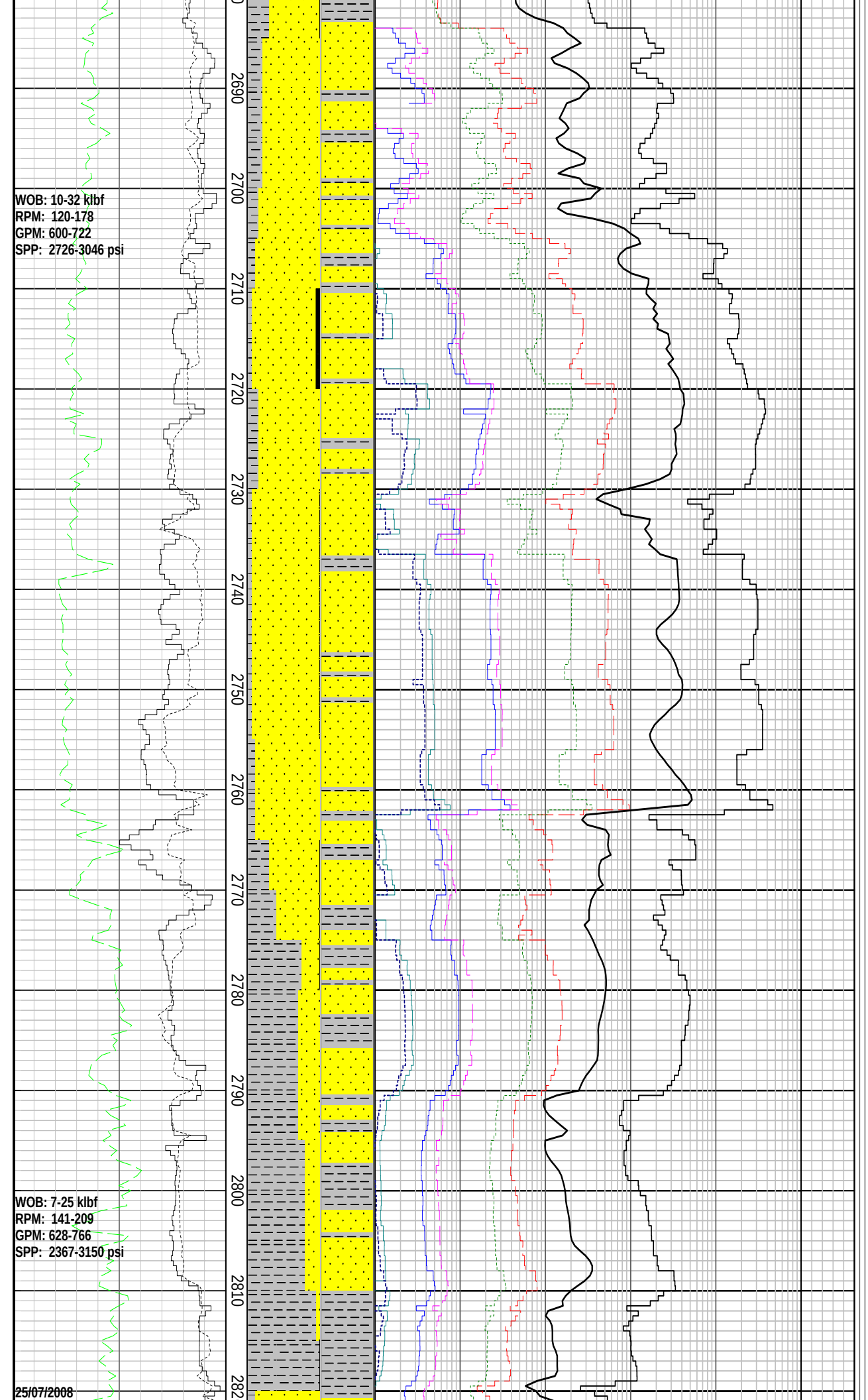
SST: pred lse qtz gr, trnsl-trnsp, off wh, v lt gy-lt gy i/p, fri, vf-f, occ m gr, sb ang-rndd, prly-mod srt, occ wl srt, arg mtrx, calc cmt, fr vis por, no shw

SLTST: v lt gy-lt gy, v sft-sft, occ frm, sbblky-blky, grdg to vf SST

MD: 2651.3m Azi: 183.55°
TVD: 2381.6m Incl: 53.37°

CLYST: m gy-m lt gy, brnsh gy, occ grnsh gy, sft-frm, sbblky-blky, slty

SST: lt gy-m lt gy, fri, vf-f gr, sb rndd, prly-mod srt, arg mtrx, calc cmt, fr vis por, no shw



MD: 2681m Azi: 184.22°
TVD: 2399.5m Incl: 52.5°

SST: lt gy-v lt gy, occ m lt gy-m gy, lse-fri, frm i/p, f- m gr, occ crs gr, sb rndd-rndd, mod-wl srt, arg mtrx, calc cmt, occ sil cmt, occ carb stk, fr vis por, no shw

MD: 2711.02m Azi: 184.51°
TVD: 2418m Incl: 51.43°

SST: pred lse qtz gr, trnsl-trnsp, off wh, brnsh wh, fri i/p, f-m gr, occ crs-v cse gr, sbang-sbrndd, prly-mod srt, arg matx, tr gn & blk lith, tr carb mat, fr vis por

MD: 2740.27m Azi: 184.48°
TVD: 2436.4m Incl: 50.60°

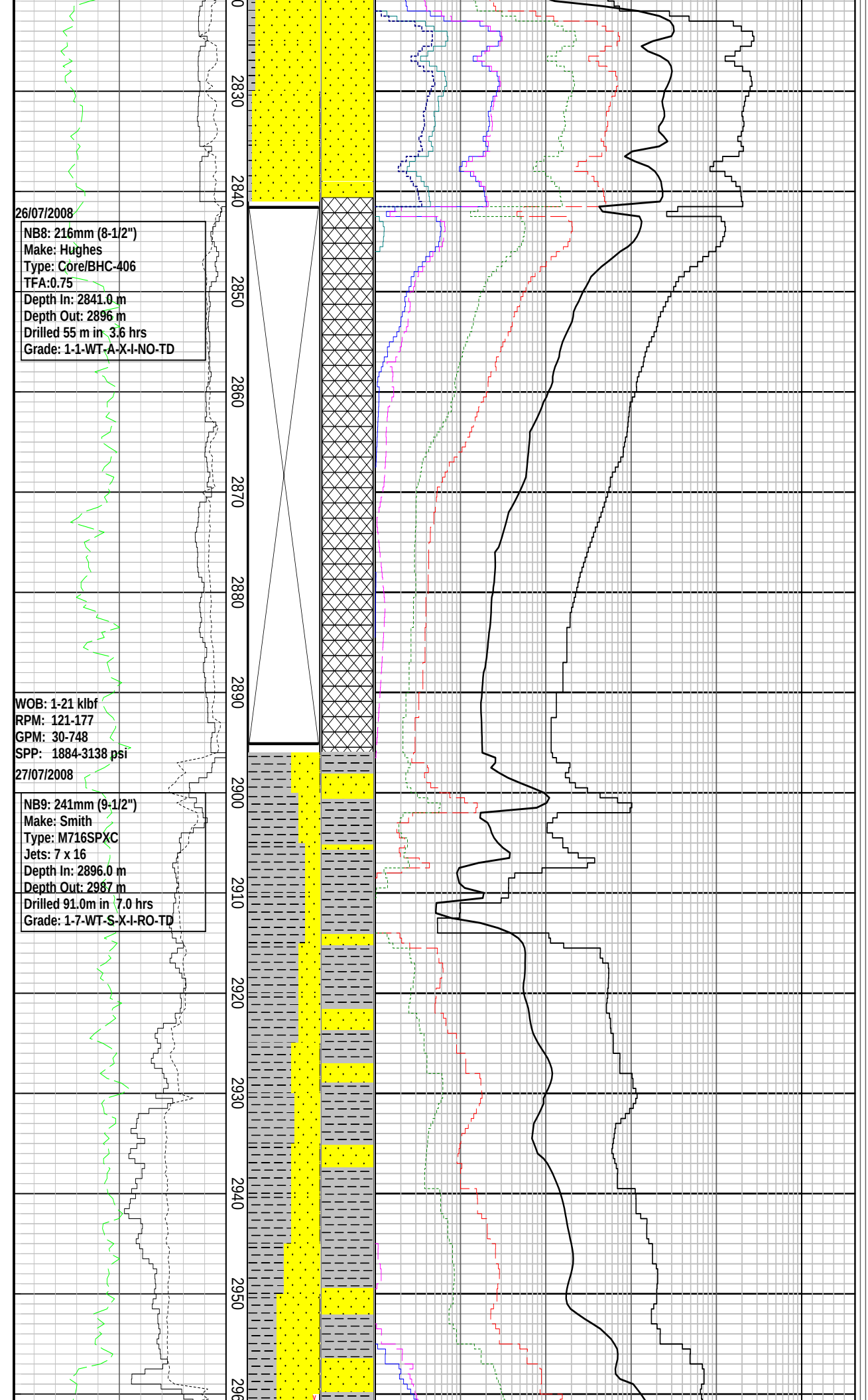
CLYST: m gy-dk gy, occ gysh blk, frm-mod hd, sbblky-blky, occ elong, abd carb mat, occ grdg to Sltst

MD: 2770m Azi: 184.85°
TVD: 2455.5m Incl: 50.01°

SST: pred lse qtz gr, trnsl-trnsp, lt gy, brnsh wh, fri i/p., f-m gr, occ crs-v crs gr, sbang-sbrndd, prly-mod srt, arg mtrx, tr gn & blk lith, tr carb mat, fr vis por

MD: 2798m Azi: 183.57°
TVD: 2474.2m Incl: 47.70°

CLYST: m gy-m dk gy, frm, blky, rr sb fiss i/p, rr carb mat i/p, grd to Sltst i/p



SST: wh-v lt gy, clr-trnsl qtz gr, prec sft- fri agg, f gr, sbang-sbrnd, sphr, v wl srt, v lt gy arg mtrx, pr vis por, no shw

Coring @ 2841.0m-2896.0m
Recovery: 99.4%

MW: 12 ppg FV: 86
PV: 43 YP: 35
Gels: 14/18/21
O/W:85.9/135.4

MD: 2857.04m Azi: 183.13°
TVD: 2514.2m Incl: 46.14°

MD: 2886.94m Azi: 182.91°
TVD: 2534.8m Incl: 46.56°

MW: 12.1 ppg FV: 128
PV: 45 YP: 20
Gels: 12/15/18
O/W:69.2/30.8

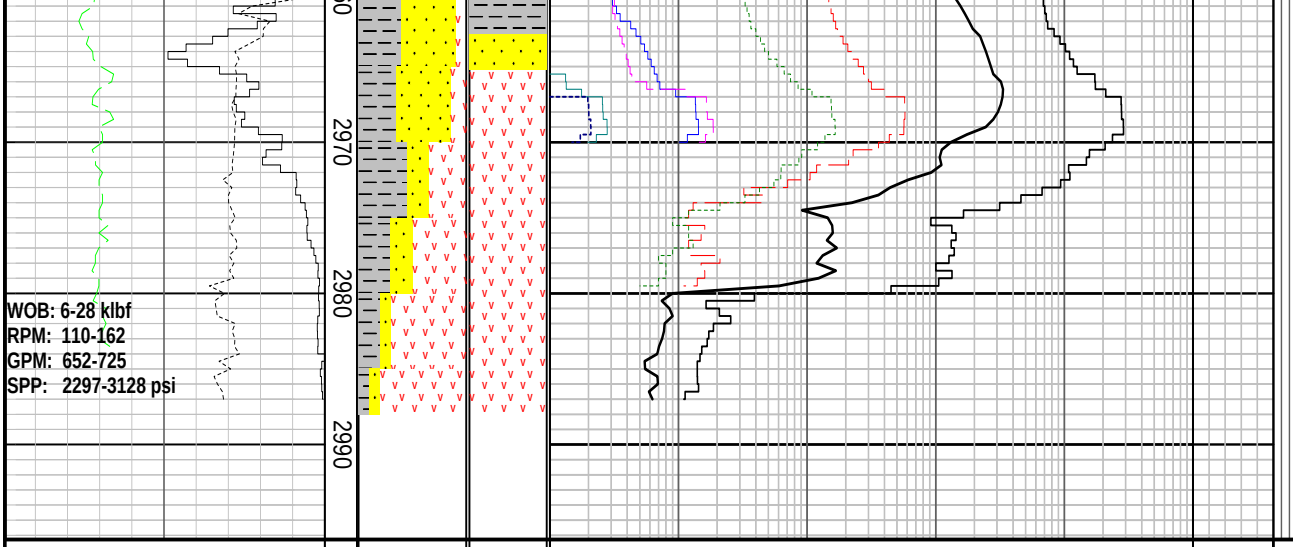
CLYST: m lt gy-m gy, mod frm-frm, occ hd, sbblky, com carb mat, slty

MD: 2916.37m Azi: 183.31°
TVD: 2555.1m Incl: 46.19°

SST: off wh, m gy, fri, sft-frm, mod hd, vf-f gr, sbang-sbrndd, prly-mod srtd, arg mtrx, f carb spks, fr vis por, no shw

MD: 2946.06m Azi: 184.18°
TVD: 2575.9m Incl: 45.04°

SST: lt gy, m lt gy, m gy i.p., trnsl-trnsp, fri, frm-mod hd, f-m gr, sbrndd-rndd, prly-mod srtd, arg mtrx



MD: 2970.49m Azi: 184.59°
TVD: 2593.1m Incl: 45.14°

VOLC: wthd Bas, gysh blk, dk grnsh gy, brnsh blk, hd-v hd, blky, occ splin, microxln, tuf frag, com med-crs sbhdral plag & qtz xls, r cub pyr

Wireline Logging:
Run #1 XPT-DS1
Run #2 CST-GR

Longtom-4P TD @ 2987.0m on 28 July 2008 @ 2050 hrs

Gamma Ray
40 | 80 | 120 | 160 | 200
ROP
200 | 160 | 120 | 80 | 40
m/hr
WEIGHT ON BIT
80 | 64 | 48 | 32 | 16
klbf
ROP BACKUP
300 | 280 | 260 | 240 | 220
m/hr

MD meters 1:500

Cuttings

INTERPRETED LITHOLOGY

FORMATION EVALUATION LOG

Chromatograph Data

Methane ppm
10 | 100 | 1000 | 10000 | 100000
Ethane ppm
10 | 100 | 1000 | 10000 | 100000
Propane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Butane ppm
10 | 100 | 1000 | 10000 | 100000
n-Butane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
n-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
Ditch Gas %
0.01 | 0.1 | 1 | 10 | 100

Analysis

DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

BAKER HUGHES
INTEQ

Company : Nexus Energy
Well : Longtom-4 H
Interval : 2687.00 - 4657.60 meters
Created : 14/Aug/2008 6:14:51 AM

FORMATION EVALUATION LOG

Gamma Ray
40 | 80 | 120 | 160 | 200
ROP
200 | 160 | 120 | 80 | 40
m/hr
WEIGHT ON BIT
80 | 64 | 48 | 32 | 16
klbf
ROP BACKUP
300 | 280 | 260 | 240 | 220
m/hr

MD meters 1:500

Cuttings

LITHOLOGY INTERPRETED

Chromatograph Data
Methane ppm
10 | 100 | 1000 | 10000 | 100000
Ethane ppm
10 | 100 | 1000 | 10000 | 100000
Propane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Butane ppm
10 | 100 | 1000 | 10000 | 100000
n-Butane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
n-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
Ditch Gas %
0.01 | 0.1 | 1 | 10 | 100

Analysis

DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

NB10: 241mm (9-1/2")
Make: REED
Type: RSR616M-B3
Jets: 6x16
Depth In: 2690.0m
Depth Out: 3577.0m
Drilled 881m in 54.8 hrs
Grade: 2-6-BT-S-X-I-JD-DTF

02/08/2008

2690
2700
2710
2720
2730
2740
2750
2760
2770

Tag cement at 2690.0m, Kick-off & start drilling Longtom-4H on 02 Aug 08

MD: 2704.04 m Azi: 184.56°
TVD: 2413.7 m Incl: 51.56°

SST: v lt gy-lt gy, dk gy i/p, trnsl-trnsp, occ opq, uncons-fri, tr lse qtz, vf-f, crs gr i/p, occ m gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, calc cmt, tr carb mat, tr glau, pr inf por, no shw

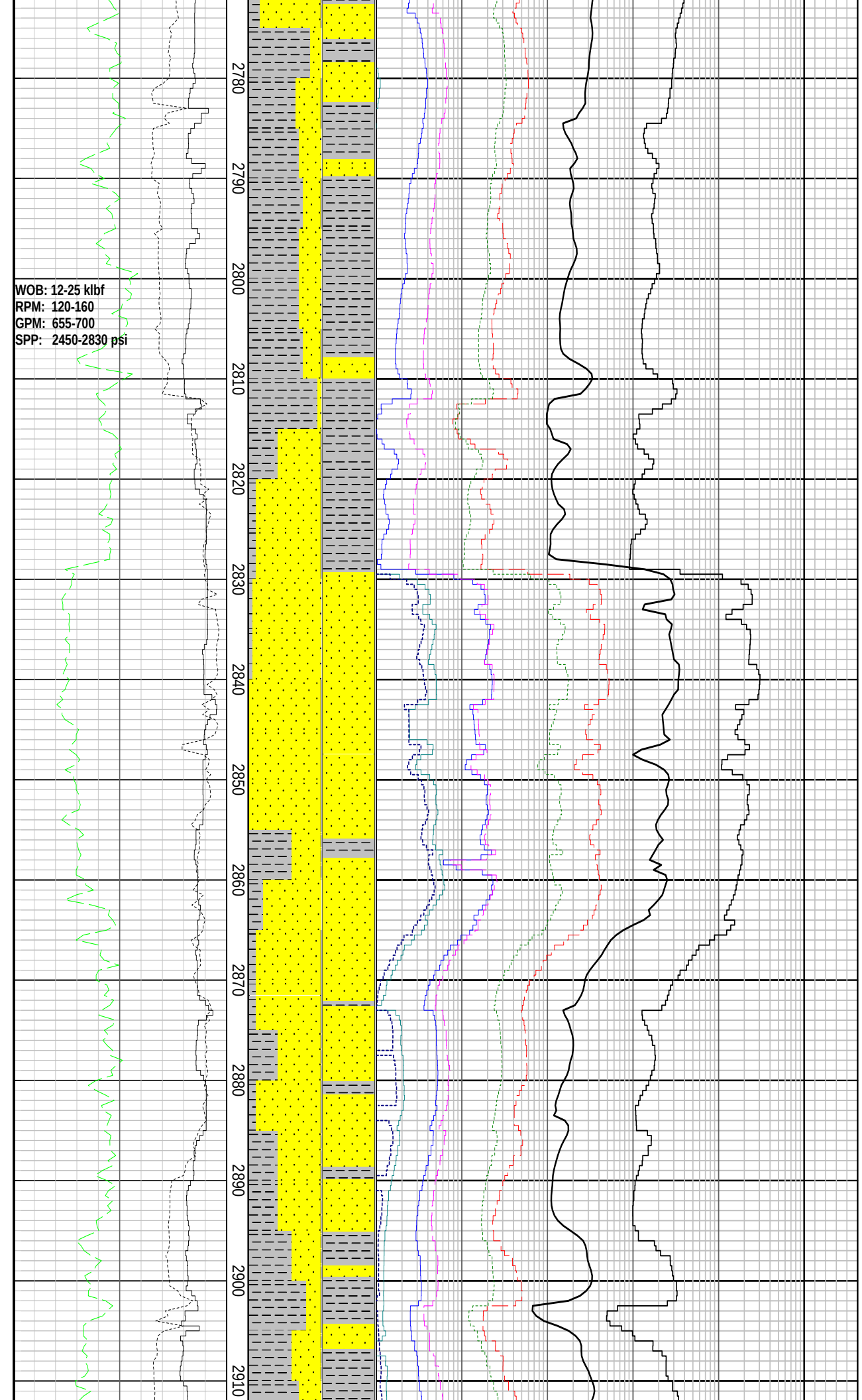
MD: 2733.77 m Azi: 181.87°
TVD: 2432.5 m Incl: 49.85°

SST: v lt gy-lt gy, dk gy i/p, trnsl-trnsp, occ opq, uncons-fri, tr lse qtz, vf-f, crs gr i/p, occ m gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, calc cmt, tr carb mat, tr glauc, pr inf por, no shw

COAL: blk, frm, blky-sbblky, erthy-sbvit lus, brit

MD: 2763.58 m Azi: 177.62°
TVD: 2451.5 m Incl: 51.38°

CLYST: m dk gy-dk gy, mod frm-frm



CLYST: lt dk gy-dk gy, mod frm-frm, occ hd, sbblky-blky, grd to Sltst

SST: v lt gy-lt gy, dk gy i/p, occ wh, trnsl-trnsp, occ opq, uncons-fri agg, vf-f, crs gr i/p, occ m gr, lse qtz gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, calc cmt, tr carb mat, tr glauc, pr inf por, no shw

MD: 2792.00 m Azi: 176.31°
TVD: 2469.1m Incl: 53.1°

CLYST: m dk gy-dk gy, mod frm-frm, occ hd, sbblky-blky, grd to Sltst

MD: 2820.01m Azi: 176.82°
TVD: 2485.5 m Incl: 54.07°

SST: lt gy, trnsl-trnsp, tr rdsh brn lse qtz grm-crs gr, occ v crs gr, frm-fri, sbang-sbrndd, sbsph, mod srt, tr arg mtrx, tr coal frag, tr carb mat, pr vis por, no shw

MD: 2850.81m Azi: 179.97°
TVD: 2503.4 m Incl: 54.91°

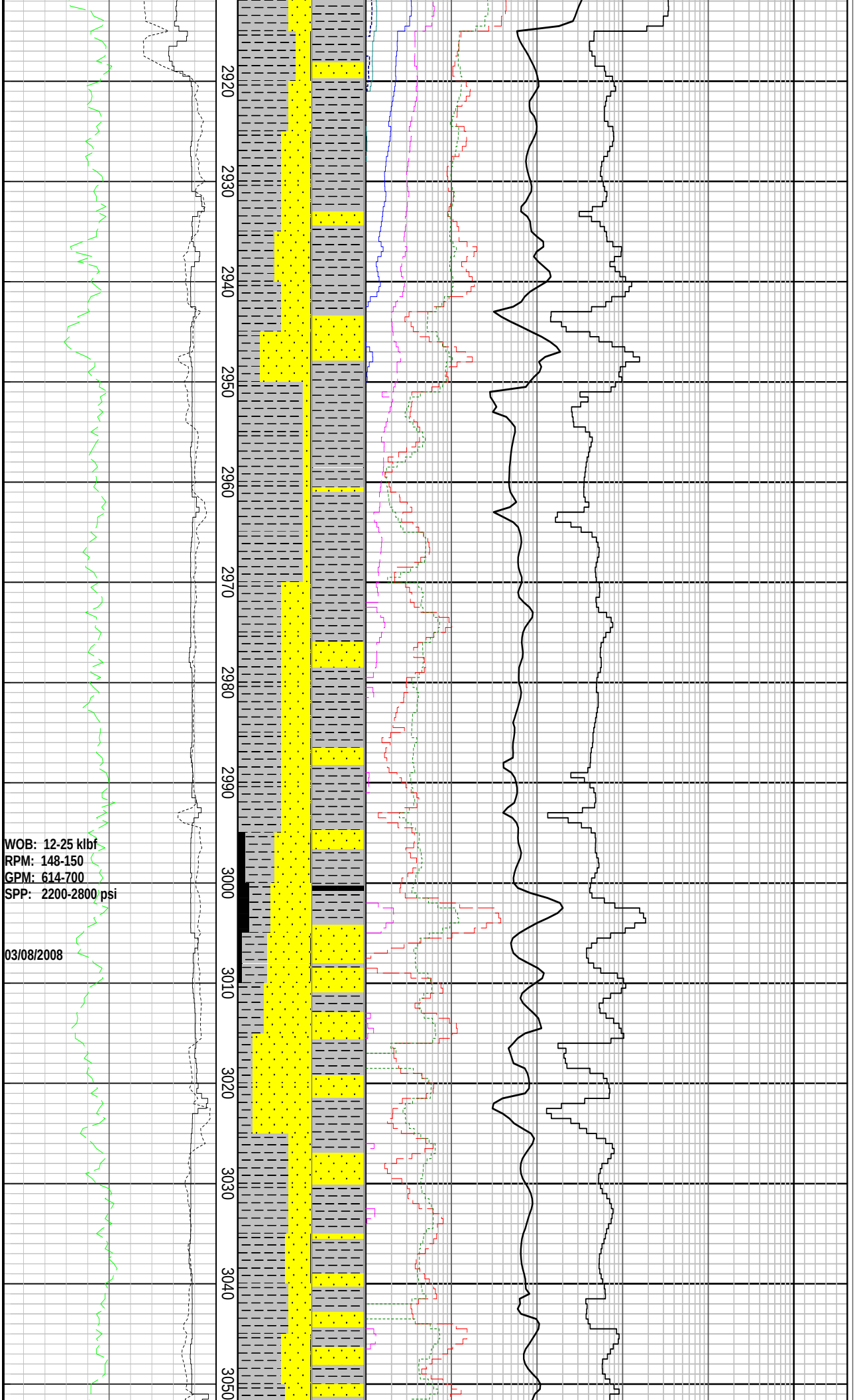
CLYST: m dk gy, frm-hd, sbblky-blky, grd to Sltst

MW: 12.00 ppg FV: 96
PV: 45 YP: 35
Gels: 14/25/29
O/W: 69.6/30.4

SST: lt gy, trnsl-trnsp, m-crs gr, occ v crs gr, frm-fri, sbang-sbrndd, sbsph, mod srt, tr arg mtrx, pr vis por, no shw

MD: 2881.69 m Azi: 185.74°
TVD: 2520.7m Incl: 57.25°

CLYST: m gy-dk gy, frm-hd, sbblky-sbfiss, slty, grd to Sltst



MD: 2911.49 m Azi: 188.17°
TVD: 2535.6 m Incl: 62.80°

CLYST: m gy-dk gy, occ gysh blk, sft-frm, occ hd, sbblky-sbfiss

MD: 2941.41m Azi: 188.76°
TVD: 2548.7m Incl: 65.11°

SST: lt gy, trnsl, frm-fri, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, mod srt, pr vis por, no shw

MW: 12.00 ppg FV: 92
PV: 45 YP: 32
Gels: 14/25/29
O/W:70/30

CLYST: lt gy-dk gy, frm-hd, sbblky-blky, occ sbfiss

SST: dk gy-m gy, lt gy i/p, occ wh, trnsl- trnsp, occ opq, fri-mod hd, uncons i/p, vf-f gr, crs gr i/p, sbang-sbrndd, ang i/p, sbelong-sbsph, pr-mod srt, calc cmt, tr slt, tr glauc, pr inf por, no shw

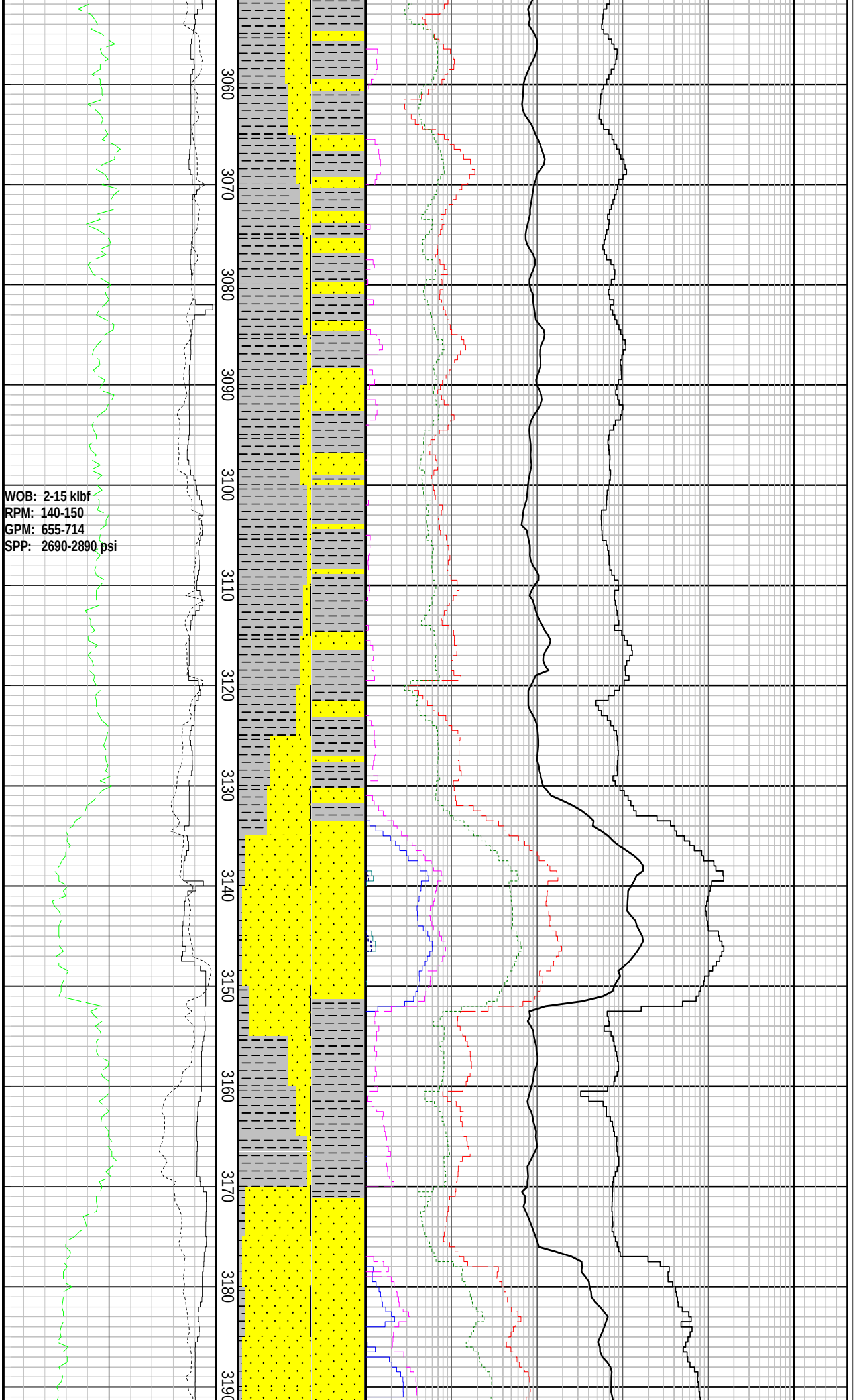
CLYST: lt gy-dk gy, frm-hd, sft i/p, amor-blky, occ sbfiss, n calc, grd to Sltst

COAL: blk, frm, blky-sbblky, erthy-sbvit lus, brit

MD: 3016.23 m Azi: 189.15°
TVD: 2577.3 m Incl: 69.92°

SST: dk gy-m gy, lt gy i/p, occ wh, trnsl-trnsp, occ opq, fri-mod hd, uncons i/p, vf-f gr, crs gr i/p, sbang-sbrndd, ang i/p, sbelong-sbsph, pr-mod srt, calc cmt, tr slt, tr carb mat, tr glauc, pr inf por, no shw

CLYST: lt gy- dk gy, frm-hd, sft i/p, amor-blky, occ sbfiss, n calc, grd to Sltst



SST: dk gy-m gy, lt gy i/p, occ wh, trnsl-trnsp, occ opq, fri-mod hd, vf-f gr, crs gr i/p, sbang-sbrndd, ang i/p, sbsph, pr-mod srt, calc cmt, tr slt, tr carb mat, tr glauc, tr arg mtrx, tr micrlam, pr inf por, no shw

MD: 3076.35 m Azi: 190.05°
TVD: 2596.3 m Incl: 72.83°

SST: dk gy-m gy, lt gy i/p, occ wh, trnsl-trnsp, occ opq, fri-mod hd, vf-f gr, crs gr i/p, sbang-sbrndd, ang i/p, sbsph, pr-mod srt, calc cmt, tr slt, tr carb mat, tr glauc, tr arg mtrx, tr micrlam, pr inf por, no shw

MD: 3106.22 m Azi: 185.49°
TVD: 2605.1 m Incl: 72.92°

CLYST: lt gy- dk gy, frm-hd, sft i/p, amor-blky, occ sbfiss, n calc, grd to Sltst

SST: dk gy-m gy, lt gy i/p, occ wh, trnsl-trnsp, occ opq, fri-mod hd, vf-f gr, crs gr i/p, sbang-sbrndd, ang i/p, sbsph, pr-mod srt, calc cmt, tr slt, tr carb mat, tr glauc, tr arg mtrx, tr micrlam, pr inf por, no shw

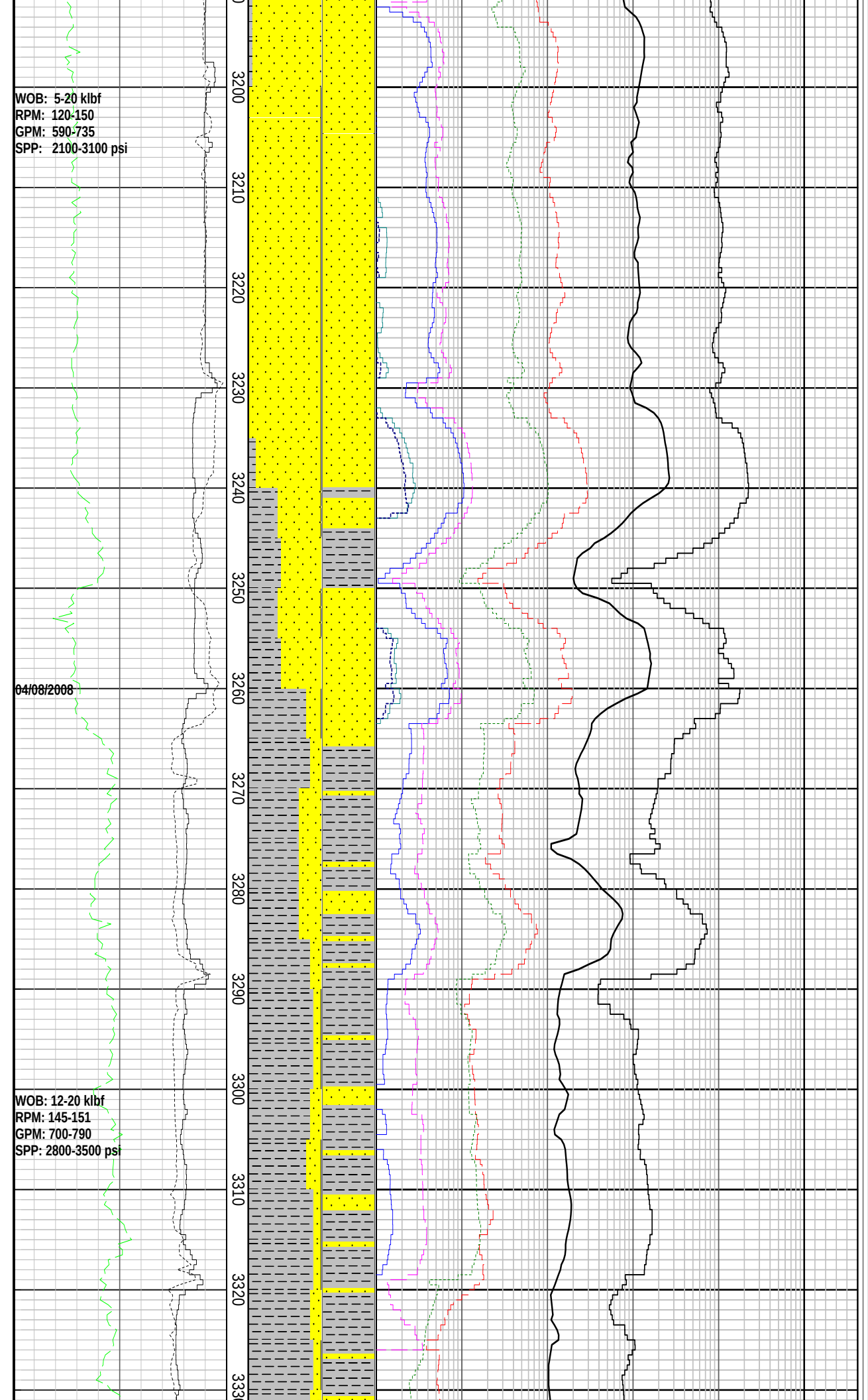
MD: 3136.04 m Azi: 186.22°
TVD: 2613.1 m Incl: 75.98°

SST: lt gy, trnsl, pred frm agg, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, pr vis & inf por, no shw

MD: 3164.24 m Azi: 185.24°
TVD: 2618.9 m Incl: 80.13°

CLYST: m dk gy-dk gy, sft-frm, amor-blky, occ sbfiss, n calc

MD: 3194.93 m Azi: 185.98°



TVD: 2624.3 m Incl: 79.46°

SST: lt gy, trnsl-trnsp, pred frm agg, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr srt, tr arg mtrx, tr flsp gr i/p pr vis por, no shw

MD: 3224.35 m Azi: 184.32°
TVD: 2629.2 m Incl: 81.52°

SST: v lt gy-lt gy, trnsl-trnsp, pred frm agg, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, mod-wl srt, tr arg mtrx, sil cmt, tr glau, pr vis por, no shw

CLYST: dk gy-m dk gy, occ lt gy, sft-frm, hd i/p, sbblky-blky, amor i/p, n calc, tr carb frag

MD: 3254.13 m Azi: 184.05°
TVD: 2632.8 m Incl: 84.39°

SST: v lt gy-lt gy, trnsl-trnsp, pred frm, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, mod-wl srt, tr arg mtrx, sil cmt, tr glau, rr dissem pyr, pr vis por, no shw

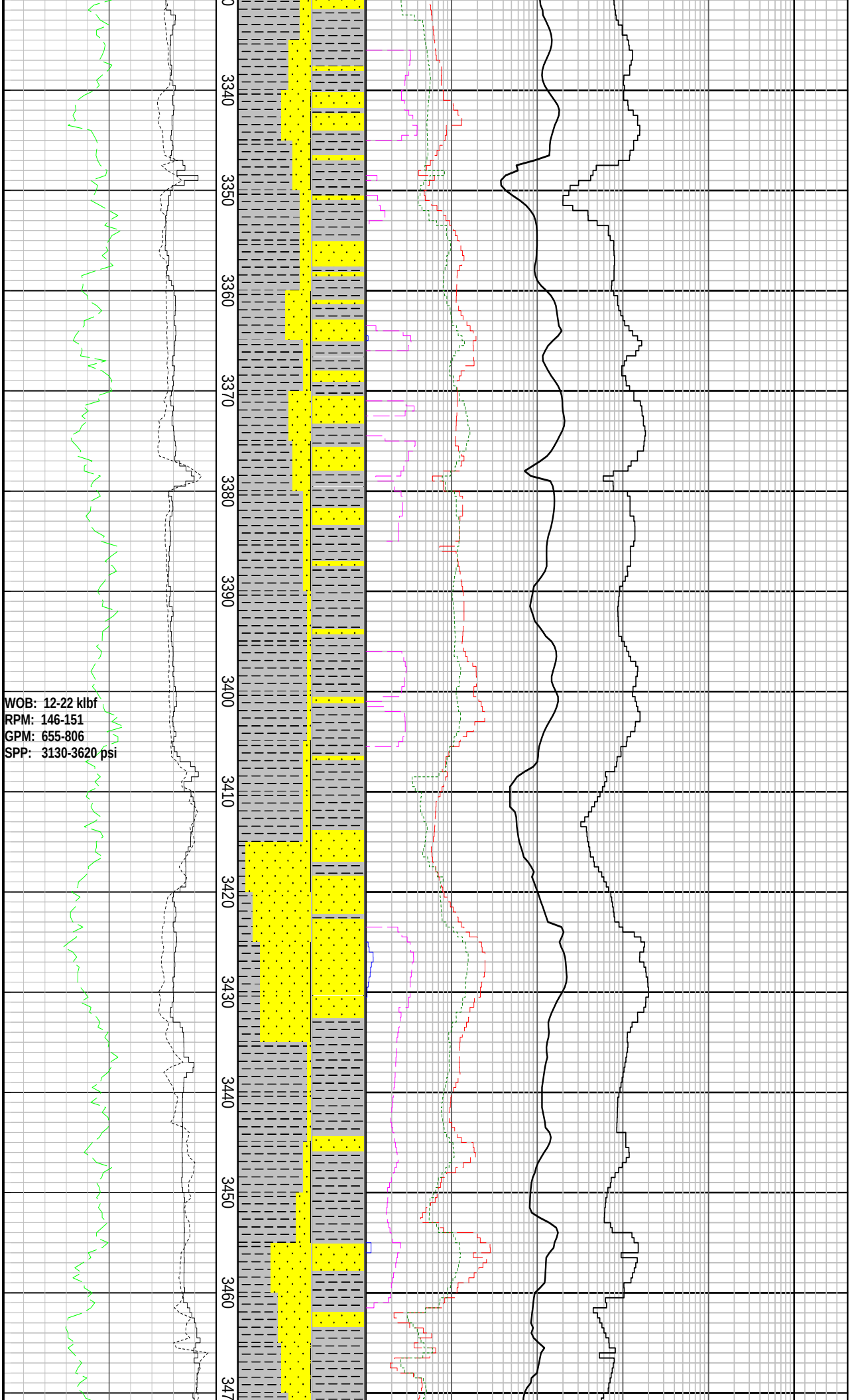
CLYST: dk gy-m dk gy, occ lt gy, sft-frm, hd i/p, sbblky-blky, amor i/p, n calc, tr carb frag

MD: 3283.78 m Azi: 180.52°
TVD: 2635.0 m Incl: 87.22°

CLYST: dk gy-m dk gy, occ lt gy, sft-frm, hd i/p, sbblky-blky, amor i/p, n calc, tr carb frag

MD: 3313.51 m Azi: 179.55°
TVD: 2635.6 m Incl: 90.41°

MW: 12.00 ppg FV: 80
PV: 47 YP: 31
Gels: 14/25/29
O/W:74.4/25.6



SST: v lt gy-lt gy, trnsl-trnsp, f-crs gr occ v crs gr, sbang-sbrndd, sbsph, p srt, tr arg mtrx, sil cmt, tr glauc, pr vis por, no shw

MD: 3343.47 m Azi: 182.41°
TVD: 2634.7 m Incl: 93.13°

CLYST: dk gy-m dk gy, occ lt gy, sft-frm, hd i/p, sbblky-blky, amor i/p, n calc, tr carb lit

MD: 3373.36 m Azi: 181.60°
TVD: 2632.8 m Incl: 94.02°

CLYST: dk gy-m dk gy, sft-frm, blky, n calc

MD: 3402.75 m Azi: 178.76°
TVD: 2630.8 m Incl: 93.92°

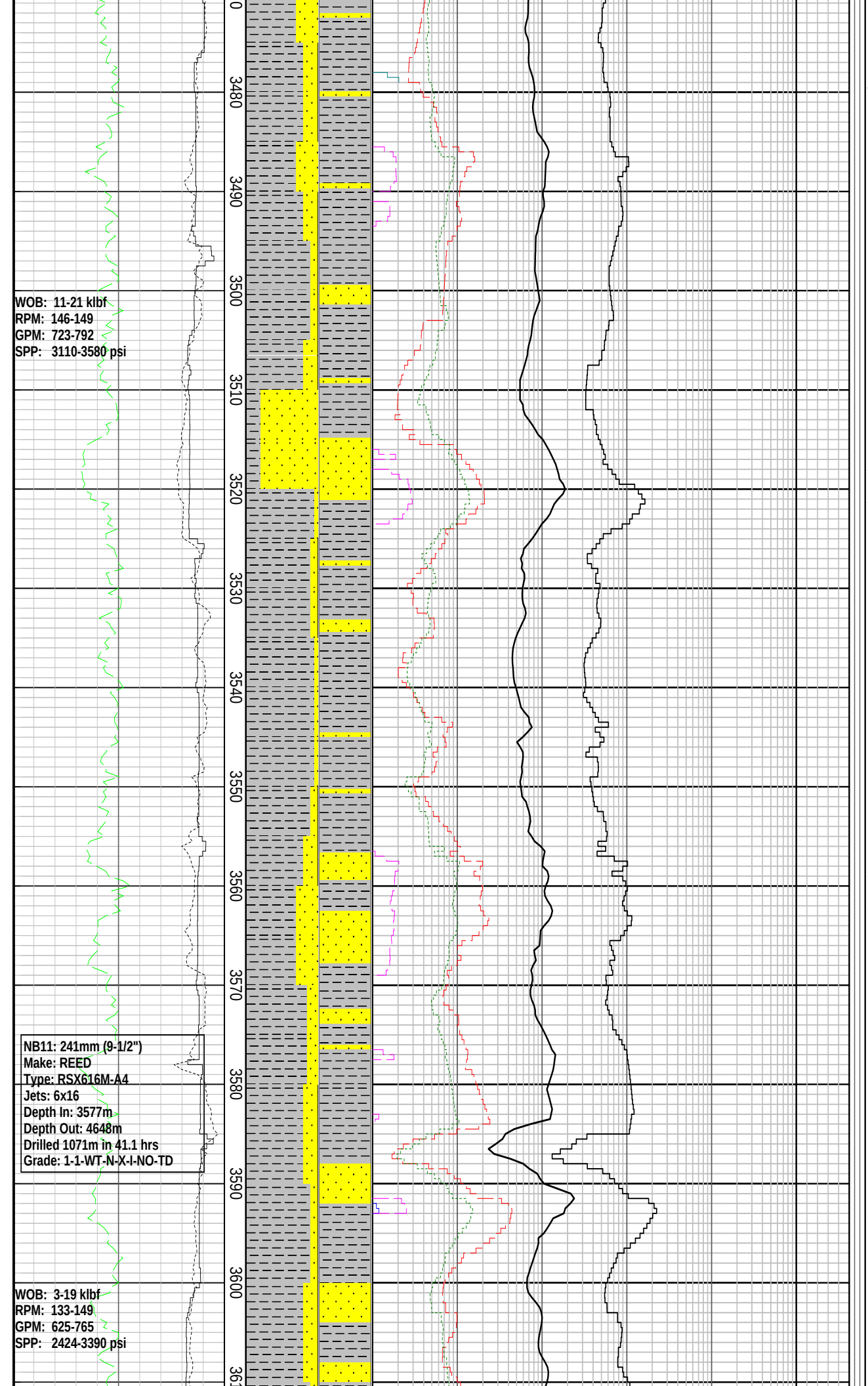
SST: v lt gy-lt gy, trnsl-trnsp, frm, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr srt, tr arg mtrx, tr glauc, pr vis por, no shw

MD: 3431.88 m Azi: 178.07°
TVD: 2629.5 m Incl: 91.13°

CLYST: dk gy-m dk gy, sft-frm, blky, n calc

SST: v lt gy-lt gy, trnsl-trnsp, frm, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, tr glauc, pr vis por, no shw

MD: 3461.34 m Azi: 178.76°
TVD: 2628.8 m Incl: 91.68°



CLYST: m lt gy-m dk gy, sft-frm, blky, tr carb mat, n calc

MD: 3492.03 m Azi: 180.60°
TVD: 2627.9 m Incl: 91.51°

MW: 12.00 ppg FV: 92
PV: 44 YP: 27
Gels: 14/22/27
O/W:74.4/25.6

SST: v lt gy-lt gy, trnsl-trnsp, frm aggs, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, tr glau, pr vis por, no shw

MD: 3521.63 m Azi: 178.88°
TVD: 2627.2 m Incl: 91.27°

CLYST: m lt-m dk gy, sft-frm, blky, tr carb mat, n calc

MD: 3551.39 m Azi: 180.83°
TVD: 2626.5 m Incl: 91.44°

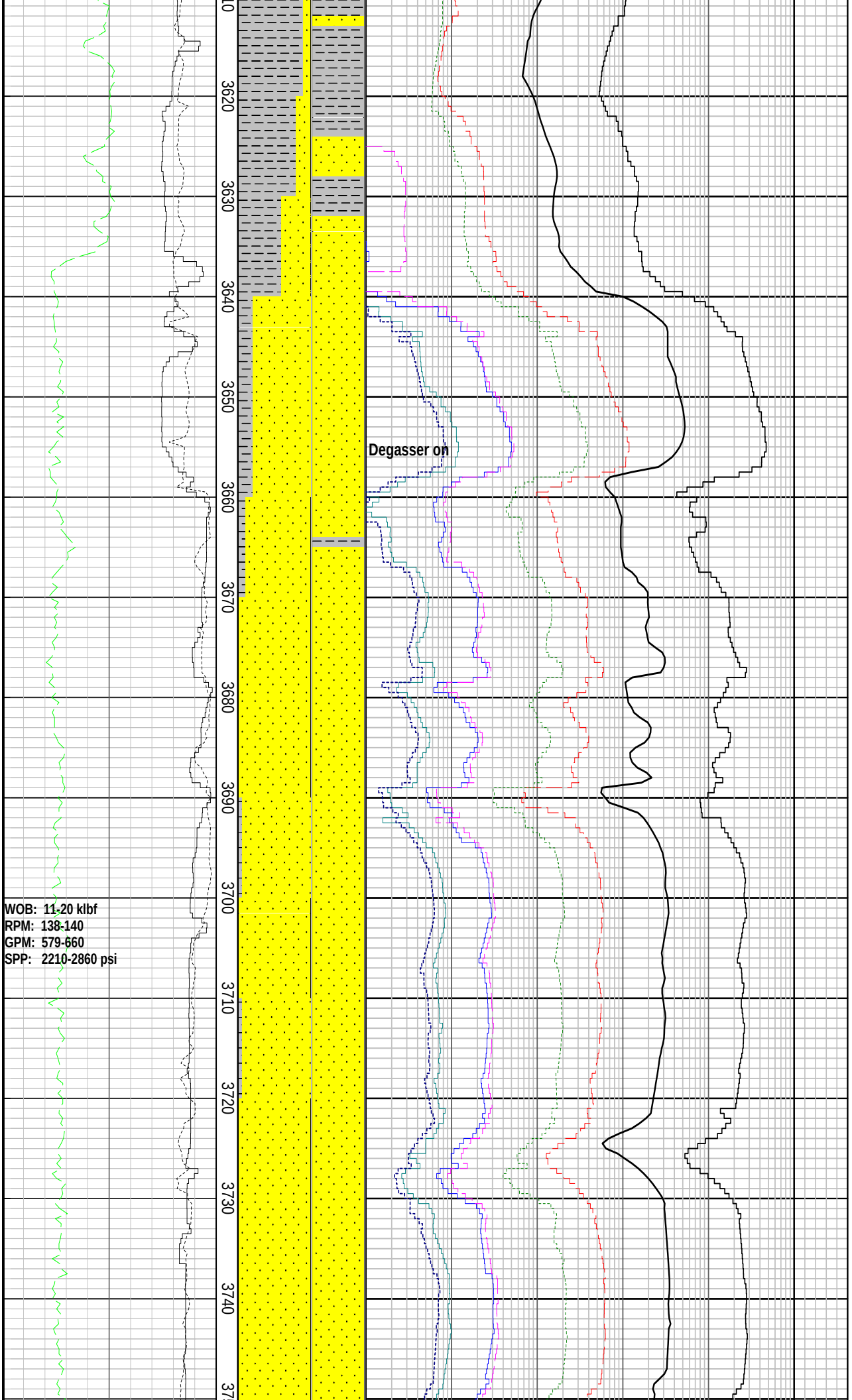
SST: v lt gy-lt gy, trnsl-trnsp, frm aggs, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, tr glau, pr vis por, no shw

MD: 3564.74 m Azi: 180.85°
TVD: 2626.2 m Incl: 91.37°

MW: 12.01 ppg FV: 110
PV: 43 YP: 31
Gels: 14/23/27
O/W:75/25

SST: v lt gy-lt gy, occ wh, clr-trnsl, occ opq, f-crs gr, occ v crs gr, sbang-sbrndd, sbsph, pr-mod srt, tr arg mtrx, tr glauc, tr blk lit, pr vis por, no shw

MD: 3594.59 m Azi: 180.97°
TVD: 2625.5 m Incl: 91.46°



CLYST: m dk gy-dk gy, sft-frm, sbblky-blky, tr carb mat, n calc

SST: lt olv gy-m lt gy, clr-trnsl, fri, vf-gr, occ m gr, sbang-sbrndd, sbsph, wl srt, pr-mod calc cmt, tr blk lith, pr vis por, no shw

MD: 3653.86 m Azi: 184.27°
TVD: 2623.9 m Incl: 91.66°

CLYST: m gy-m dk gy, sft-frm, sbblky-blky, fiss i/p, n calc

MW: 12.00 ppg FV: 80
PV: 44 YP: 27
Gels: 14/22/27
O/W:72.5/27.5

MD: 3684.08 m Azi: 183.77°
TVD: 2623.4 m Incl: 90.26°

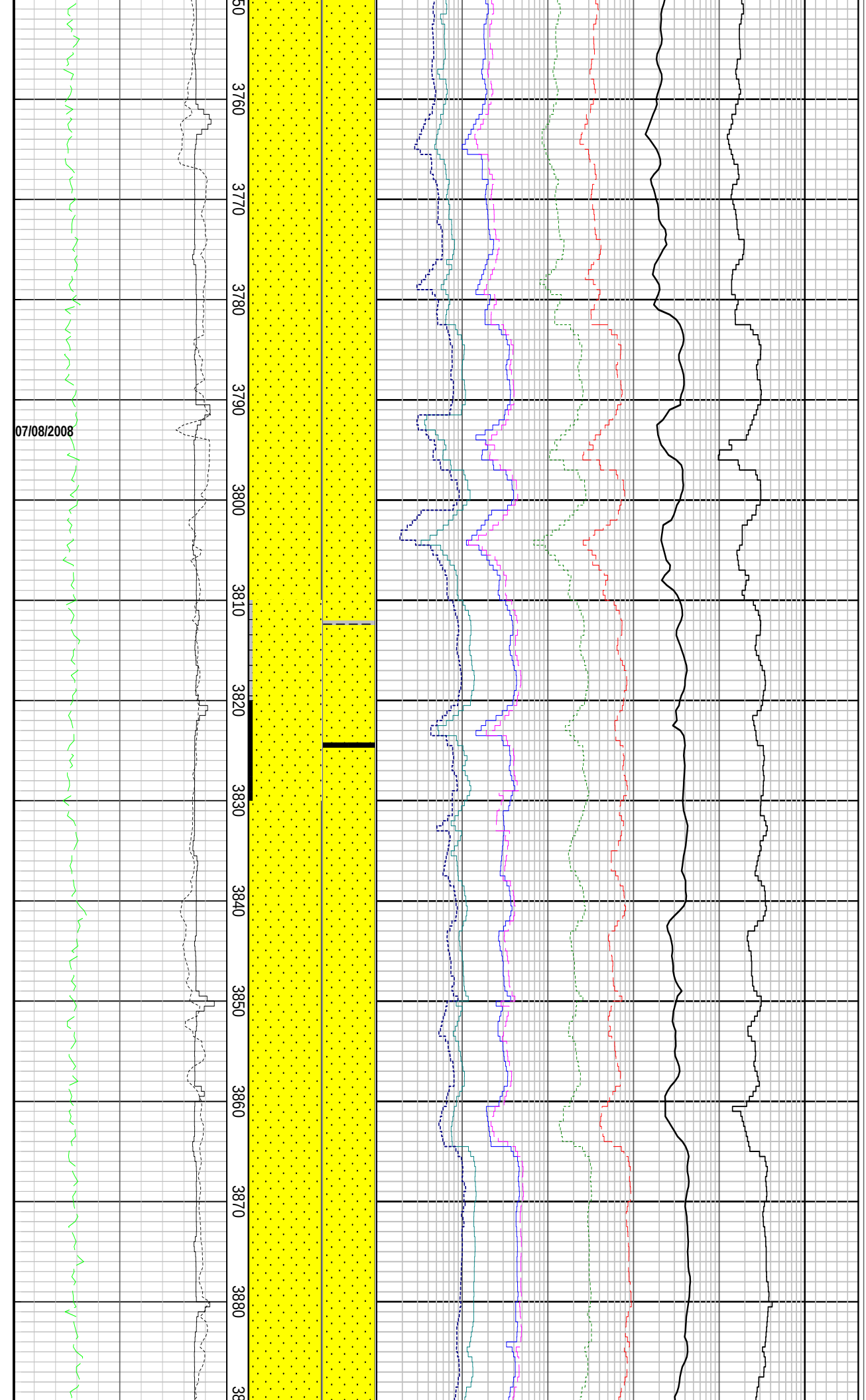
SST: olv gy, occ or gr, clr-trnsl, fri, vf-m gr, ang-sbang, sbsph, mod srt, wk calc cmt, tr blk lith, tr glau, pr vis por, no shw

MD: 3711.90 m Azi: 185.04°
TVD: 2623.4 m Incl: 89.74°

MW: 12.10 ppg FV: 81
PV: 42 YP: 32
Gels: 14/25/--
O/W:72.5/27.5

SST: olv gy, m lt gy, occ orng gr, clr-trnsl, fri, vf-m gr, sbang-sbrndd, sbsph, mod srt, wk calc cmt, tr blk lith, tr glau, pr vis por, no shw

MD: 3740.99 m Azi: 184.85°
TVD: 2623.8 m Incl: 88.54°



SST: olv gy, occ orng gr, clr-trnsl, fri aggs, vf-m gr, ang-sbang, sbsph, mod srt, wk calc cmt, tr blk lith, tr glau, pr vis por, no shw

MD: 3770.39 m Azi: 184.63°
TVD: 2625.3 m Incl: 85.50°

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MD: 3799.79 m Azi: 184.62°
TVD: 2627.8 m Incl: 83.81°

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MD: 3829.12 m Azi: 183.90°
TVD: 2631.1 m Incl: 82.94°

COAL: blk, frm, blky-sbblky, erthy-sbvit lus, brit

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MW: 12.00 ppg FV: 80
PV: 44 YP: 33
Gels: 15/25/29
O/W:72.5/27.5

MD: 3859.22 m Azi: 183.23°
TVD: 2634.6 m Incl: 84.01°

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MD: 3888.65 m Azi: 183.06°

TVD: 2637.1 m Incl: 86.73°

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MD: 3918.67 m Azi: 185.50°
TVD: 2638.4 m Incl: 88.74°

SST: olv gy-lt olv gy, occ orng gr, clr-trnsl, occ opq, fri, vf-m gr, crs gr i/p, sbang-sbrndd, sbsph, pr-mod srt, wk calc cmt, tr blk lith, tr glauc, pr inf por, no shw

MD: 3948.65 m Azi: 186.27°
TVD: 2638.9 m Incl: 89.63°

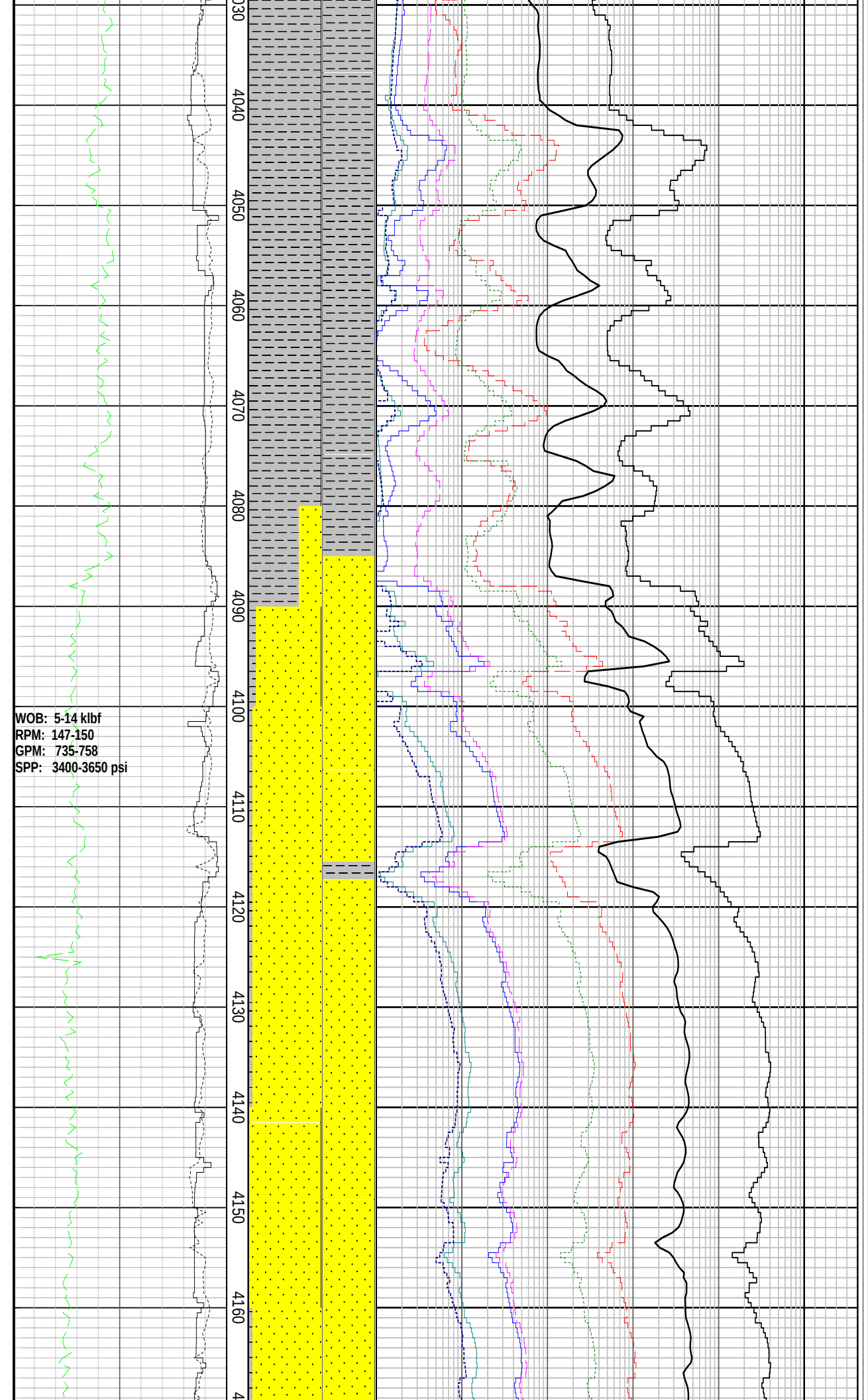
CLYST: m dk gy-dk gy, sft-frm, sbblky-blky, tr carb mat, n calc, grd to Sltst

MD: 3977.71 m Azi: 185.58°
TVD: 2639.7 m Incl: 86.96°

CLYST: m gy-olv gy, sft-frm, sbblky-blky, n calc, grd to Sltst

MD: 4006.54 m Azi: 184.14°
TVD: 2642.1 m Incl: 83.81°

CLYST: m gy-olv gy, sft-frm, sbblky-blky, n calc, grd to Sltst



MD: 4035.61 m Azi: 183.23°
TVD: 2645.6 m Incl: 82.10°

CLYST: m gy-olv gy, sft-frm, sbblky-blky, n calc, tr carb mat, grd to Sltst

MD: 4065.35 m Azi: 182.76°
TVD: 2649.7 m Incl: 82.21°

CLYST: m gy-olv gy, sft-frm, sbblky-blky, n calc, tr carb mat, grd to Sltst

MW: 12.00 ppg FV: 71
PV: 41 YP: 33
Gels: 14/24/27
O/W:71.8/28.2

MD: 4094.84 m Azi: 183.49°
TVD: 2654.3 m Incl: 79.90°

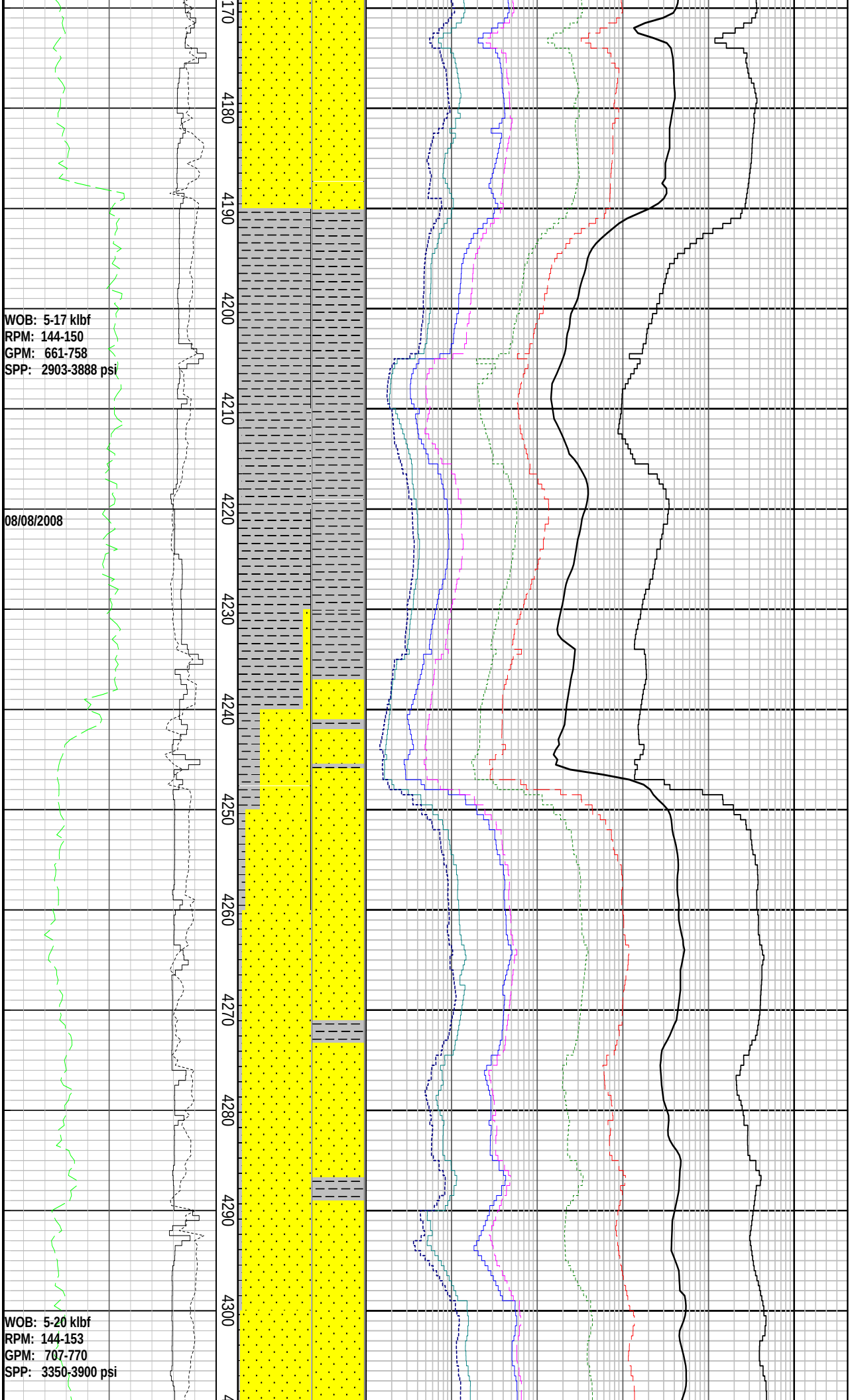
SST: m lt gy-lt olv gy, occ Fe stng, trnsp-trnsl, fri-frm, vf-f gr, occ m gr, ang-sbang, sbsph, mod srt, wk-mod calc cmt, com blk lith, tr glau, pr vis por, no shw

MD: 4124.38 m Azi: 183.62°
TVD: 2660.0 m Incl: 77.56°

SST: m lt gy-lt olv gy, tr Fe stng, clr-trnsl, fri-frm, vf-m gr, occ crs gr, ang-sbang, sbsph, pr srt, wk-mod calc cmt, com blk lith, tr glau, pr vis por, no shw

MW: 12.00 ppg FV: 75
PV: 40 YP: 41
Gels: 18/29/25
O/W:74.4/25.6

MD: 4159.10 m Azi: 185.00°
TVD: 2666.1 m Incl: 78.91°



SST: m lt gy-lt olv gy, tr Fe stng, clr-trnsl, fri-frm, vf-m gr, occ crs gr, ang-sbang, sbsph, pr srt, wk-mod calc cmt, com blk lith, tr glau, pr inf por, no shw

MD: 4183.07 m Azi: 187.28°
TVD: 2671.0 m Incl: 81.41°

CLYST: brnsh blk, olv gy, m lt gy i/p, sft-frm, blky-sbblky, n calc, tr carb mat

MD: 4212.97 m Azi: 190.26°
TVD: 2674.5 m Incl: 85.21°

CLYST: brnsh blk, olv gy, m lt gy i/p, sft-frm, blky-sbblky, tr carb mat, n calc

MD: 4242.27 m Azi: 193.94°
TVD: 2675.8 m Incl: 89.34°

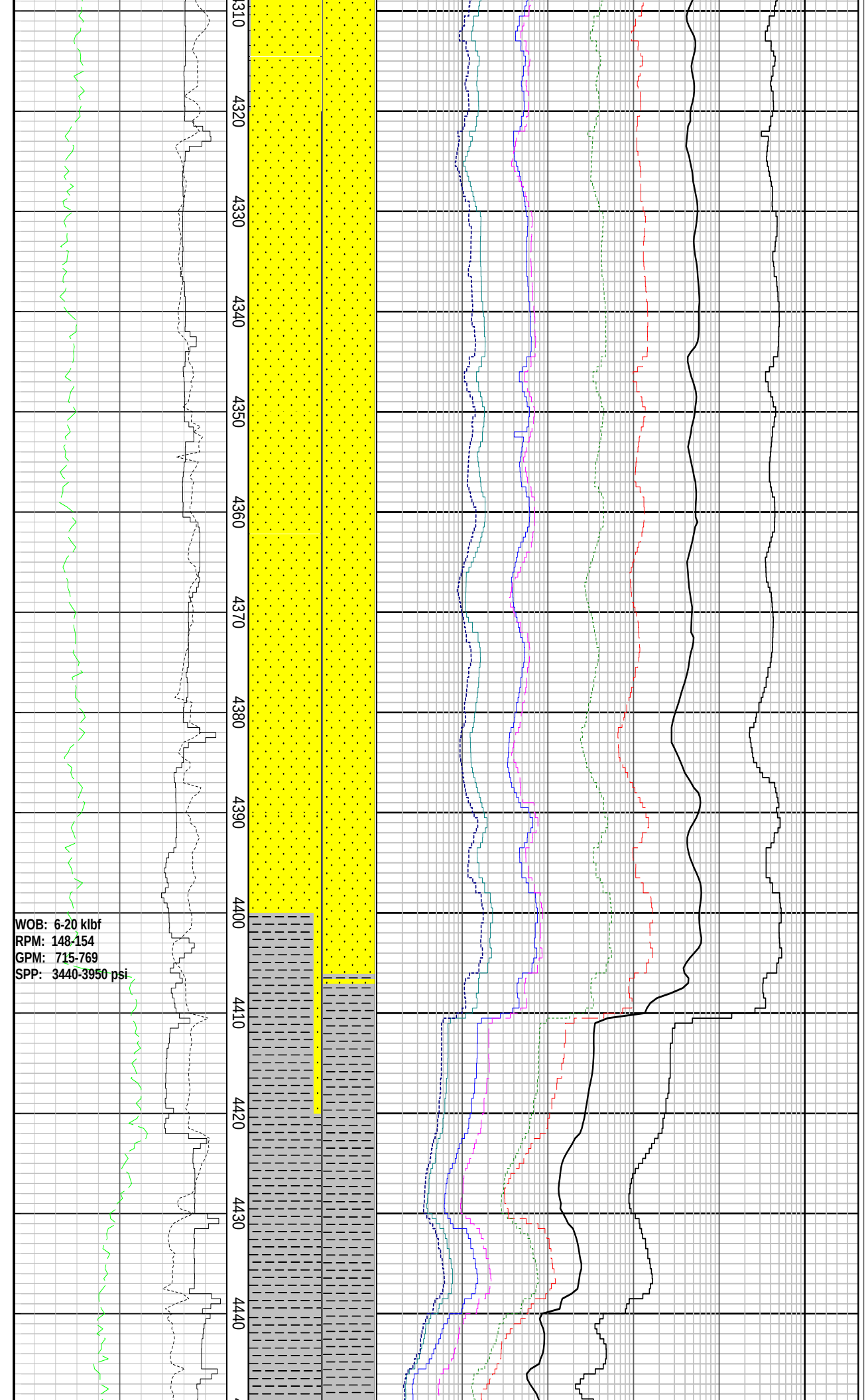
SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

MD: 4270.99 m Azi: 195.73°
TVD: 2675.1 m Incl: 92.69°

SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

MW: 12.00 ppg FV: 73
PV: 47 YP: 40
Gels: 18/32/34
O/W:74.4/25.6

MD: 4301.34 m Azi: 195.79°
TVD: 2673.9 m Incl: 92.03°



SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

MD: 4331.01 m Azi: 195.62°
TVD: 2672.6 m Incl: 92.98°

SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

MD: 4360.69 m Azi: 195.41°
TVD: 2671.6 m Incl: 90.97°

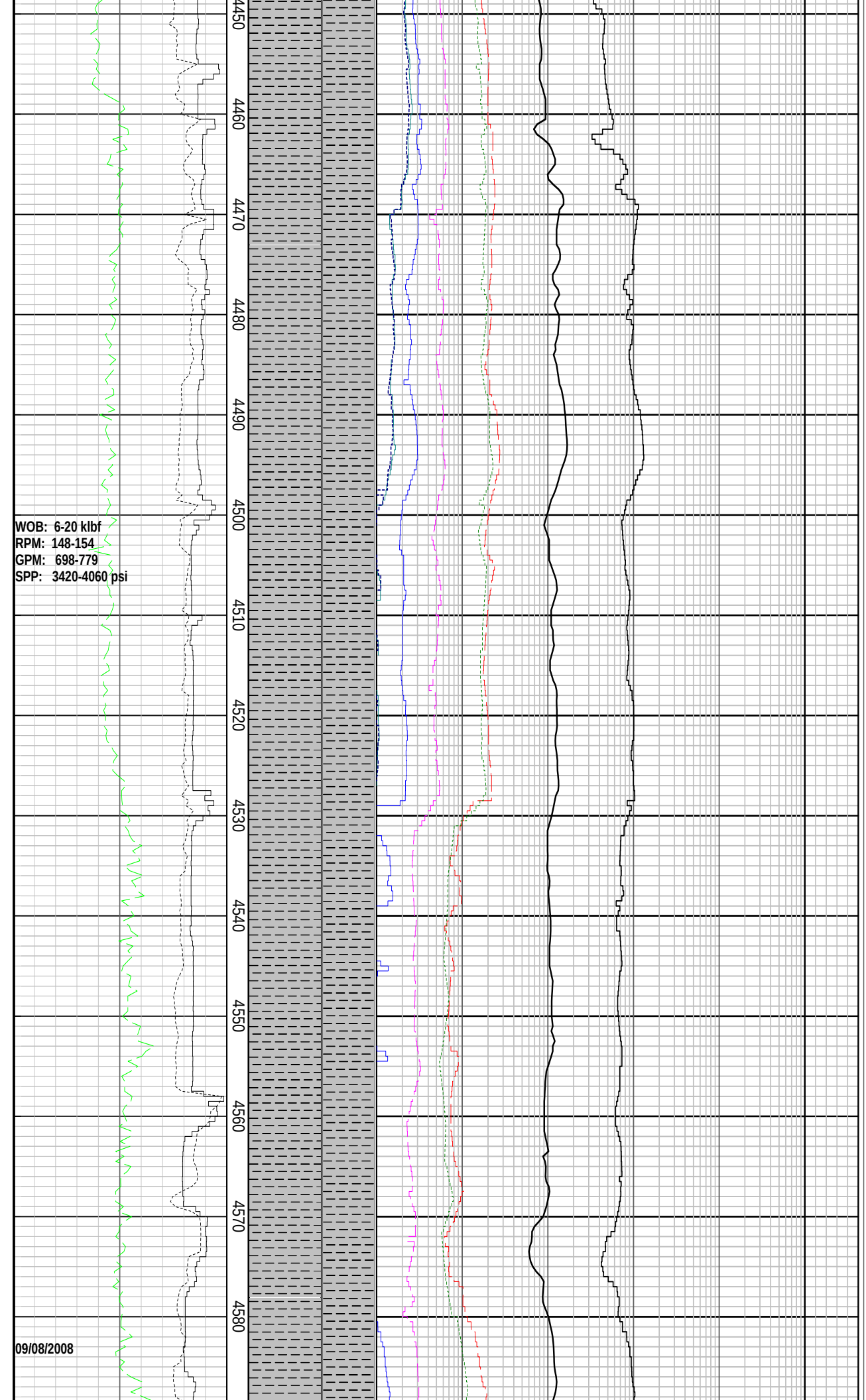
SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

MD: 4390.61 m Azi: 193.25°
TVD: 2671.9 m Incl: 87.74°

CLYST: brnsh blk, olv gy, m lt gy i/p, sft-frm, blky-sbblky, tr carb mat, n calc

MD: 4419.25 m Azi: 189.93°
TVD: 2673.8 m Incl: 84.58°

CLYST: m dk gy-dk gy, sft-frm, occ hd, blky-sbblky, tr carb mat, n calc, grd to Sltst



MD: 4448.12 m Azi: 190.34°
TVD: 2678.7 m Incl: 85.64°

CLYST: m dk gy-dk gy, sft-frm, occ hd, blky-sbblky, tr carb mat, n calc, grd to Sltst

MD: 4478.07 m Azi: 191.52°
TVD: 2678.7 m Incl: 84.87°

CLYST: m dk gy-dk gy, sft-frm, occ hd, blky-sbblky, tr carb mat, n calc, grd to Sltst

MD: 4507.60 m Azi: 193.02°
TVD: 2681.4 m Incl: 84.61°

MW: 12.00 ppg FV: 77
PV: 60 YP: 35
Gels: 15/24/27
O/W:73.4/26.6

CLYST: m dk gy-dk gy, sft-frm, occ hd, blky-sbblky, tr carb mat, n calc, grd to Sltst

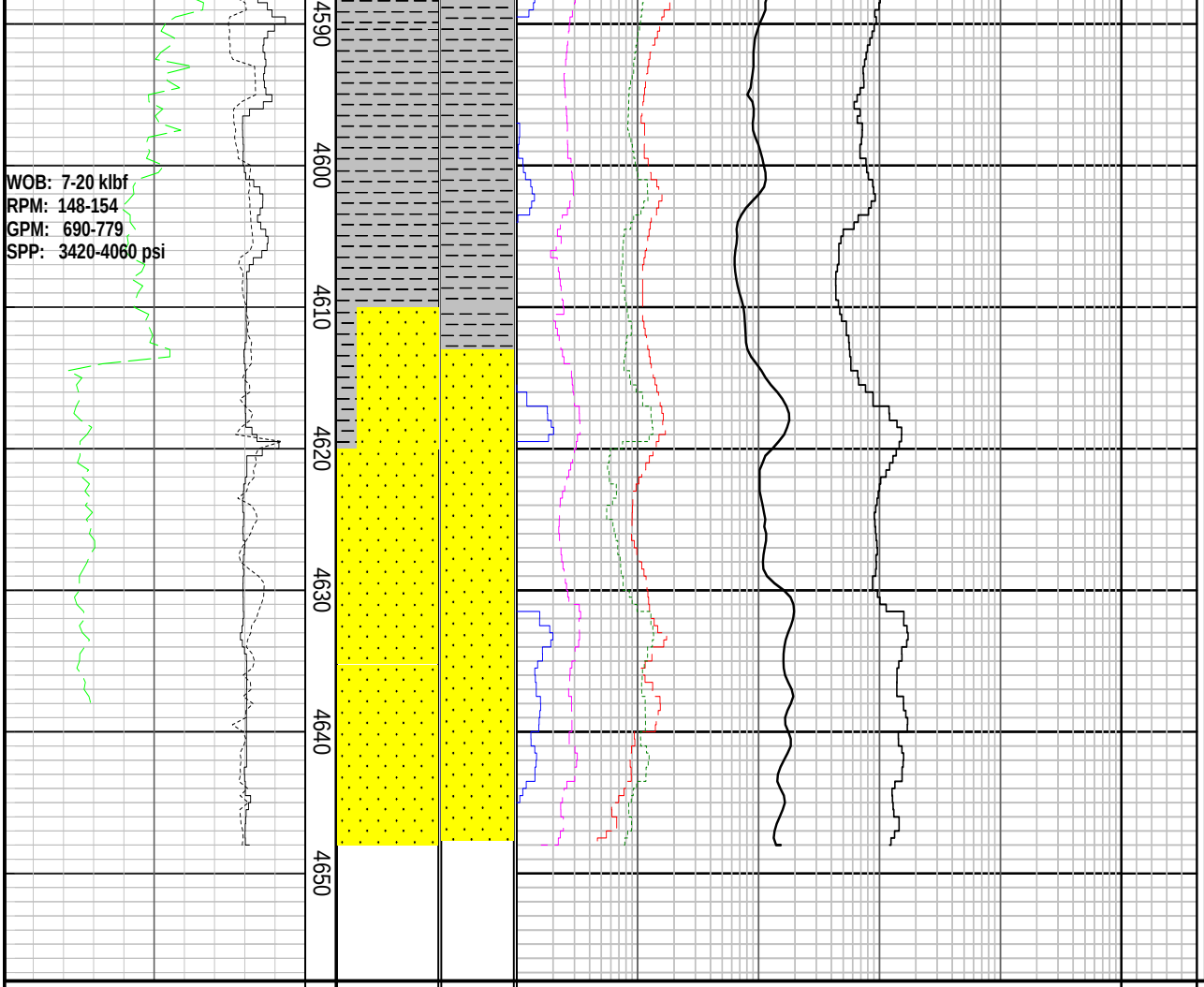
MD: 4538.99 m Azi: 192.67°
TVD: 2684.4 m Incl: 84.55°

CLYST: brnsh gy, olv gy, frm-hd, sbblky-sbang, tr carb mat, n calc, grd to Sltst

MW: 12.00 ppg FV: 75
PV: 60 YP: 33
Gels: 15/24/27
O/W:73.4/26.6

MD: 4568.77 m Azi: 189.40°
TVD: 2687.1 m Incl: 84.96°

CLYST: brnsh gy, olv gy, frm-hd, sbblky-sbang, tr carb mat, n calc, grd to Sltst



MD: 4598.48 m Azi: 186.02°
TVD: 2689.8 m Incl: 84.84°

CLYST: brnsh gy, olv gy, frm-hd, sbblky-blky, tr carb mat, n calc, grd to Sltst

MD: 4627.92 m Azi: 185.74°
TVD: 2693.1 m Incl: 82.10°

SST: m lt gy-lt gy, occ wh, tr Fe stng, trnsp-trnsl, occ opq, fri-hd, v hd i/p, vf-m gr, sbang-sbrndd, sbsph, pr-mod srt, calc cmt, tr glau, tr arg mtrx, abt coal frag, tr micrlam, pr inf por, no shw

Longtom-4 H, TD @ 4648.0m
10 Aug 08, 0235 hrs

Gamma Ray
40 | 80 | 120 | 160 | 200
ROP
200 | 160 | 120 | 80 | 40
m/hr
WEIGHT ON BIT
80 | 64 | 48 | 32 | 16
klbf
ROP BACKUP
300 | 280 | 260 | 240 | 220
m/hr

MD meters 1:500

Cuttings

INTERPRETED LITHOLOGY

FORMATION EVALUATION LOG

Chromatograph Data

Methane ppm
10 | 100 | 1000 | 10000 | 100000
Ethane ppm
10 | 100 | 1000 | 10000 | 100000
Propane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Butane ppm
10 | 100 | 1000 | 10000 | 100000
n-Butane ppm
10 | 100 | 1000 | 10000 | 100000
iso-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
n-Pentane ppm
10 | 100 | 1000 | 10000 | 100000
Ditch Gas %
0.01 | 0.1 | 1 | 10 | 100

Analysis

DIRECT FLUOR

LITHOLOGY DESCRIPTIONS

ENCLOSURE 2: GAS RATIO LOG

BAKER HUGHES

INTEQ

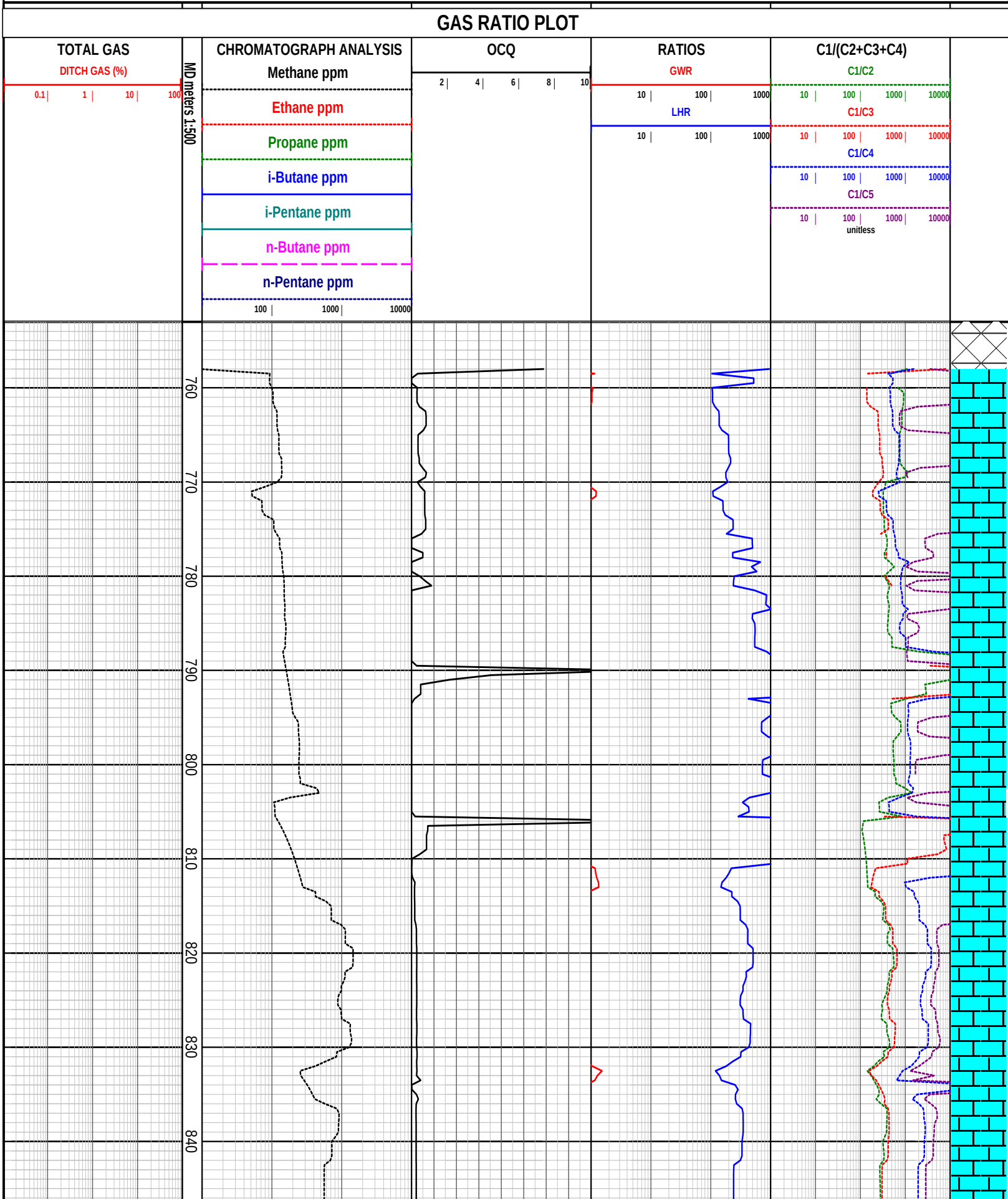
Company : Nexus Energy

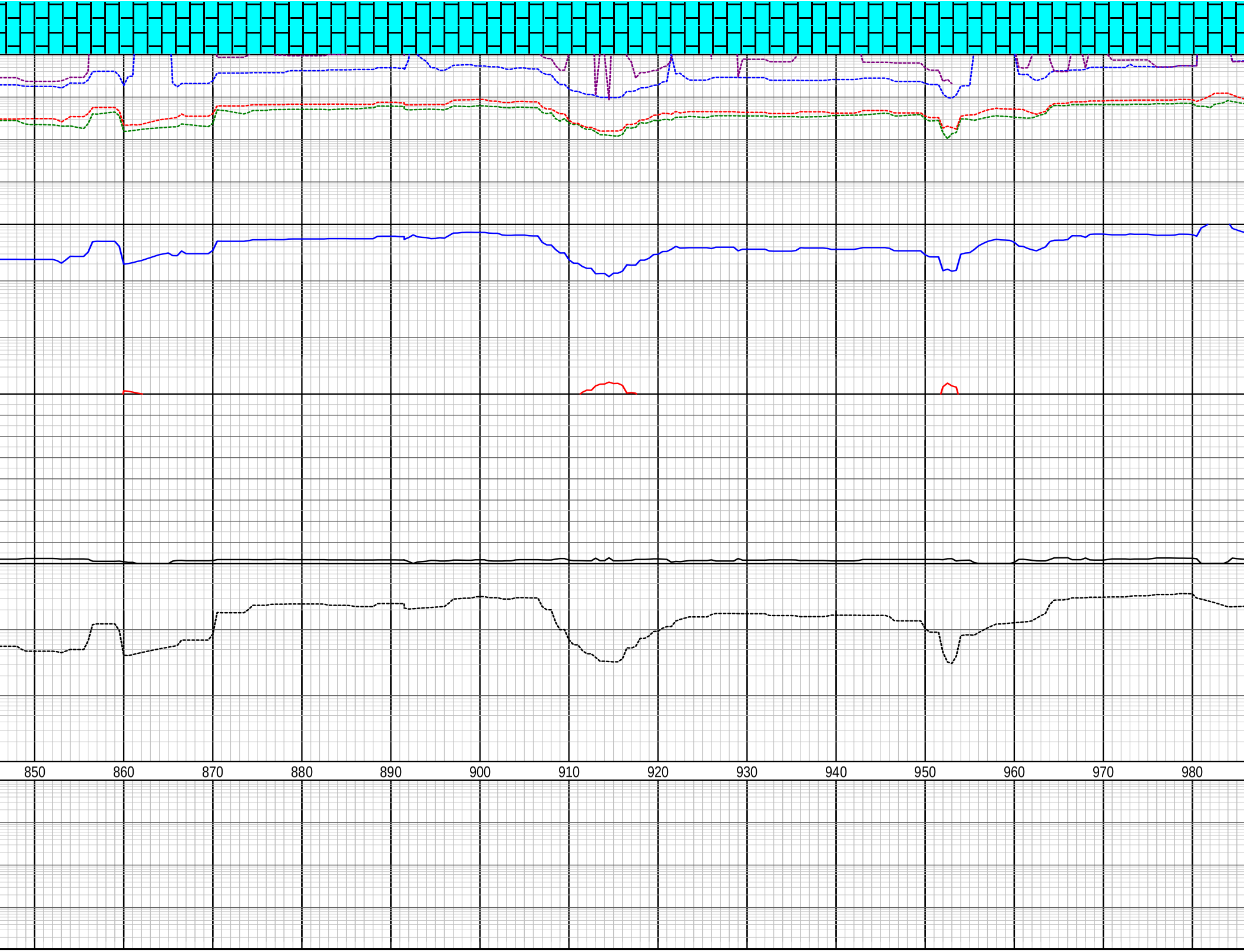
Well : Longtom-4

Interval : 753.00 - 2603.61 meters

Created : 23/Jul/2008 4:36:36 AM

GAS RATIO PLOT

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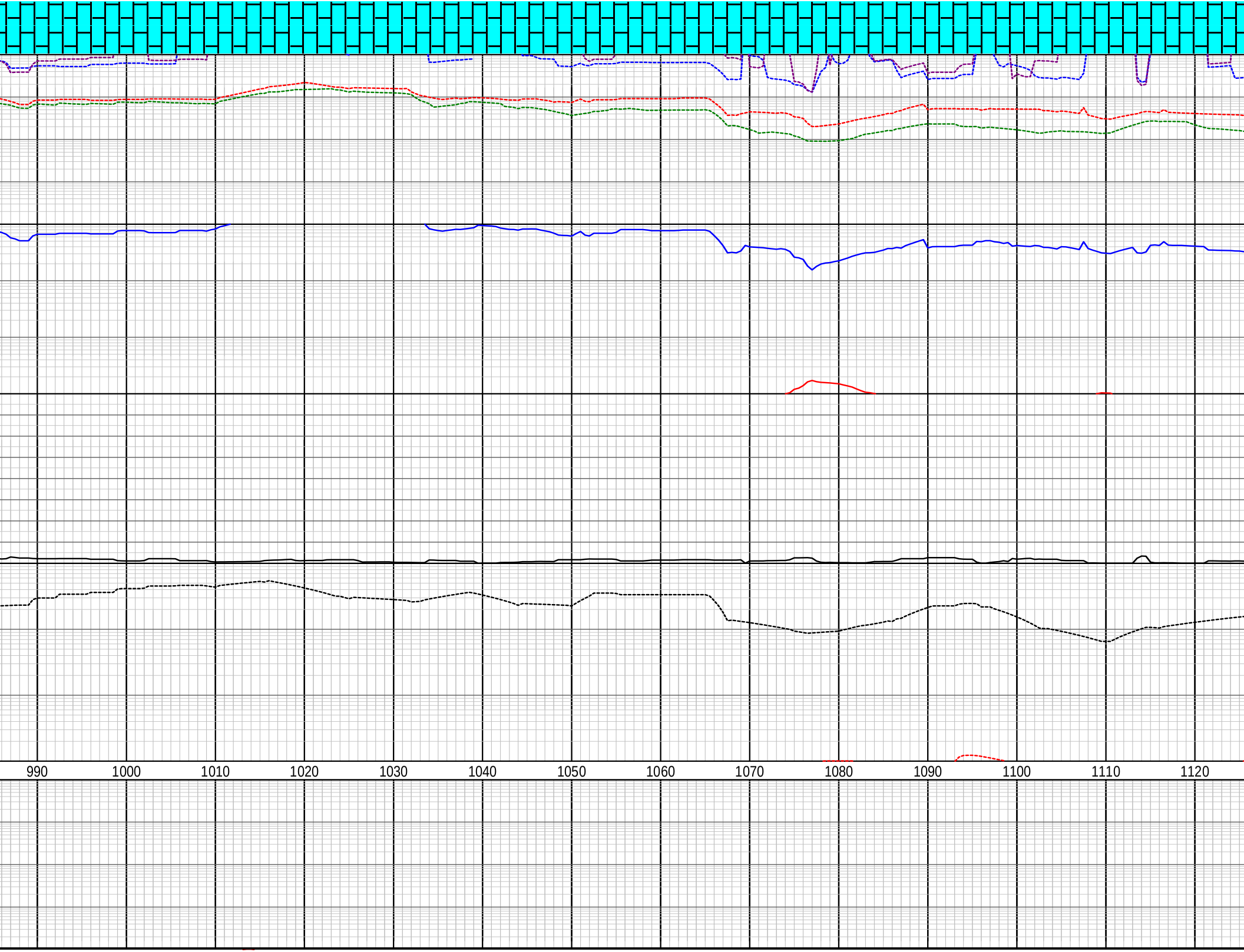
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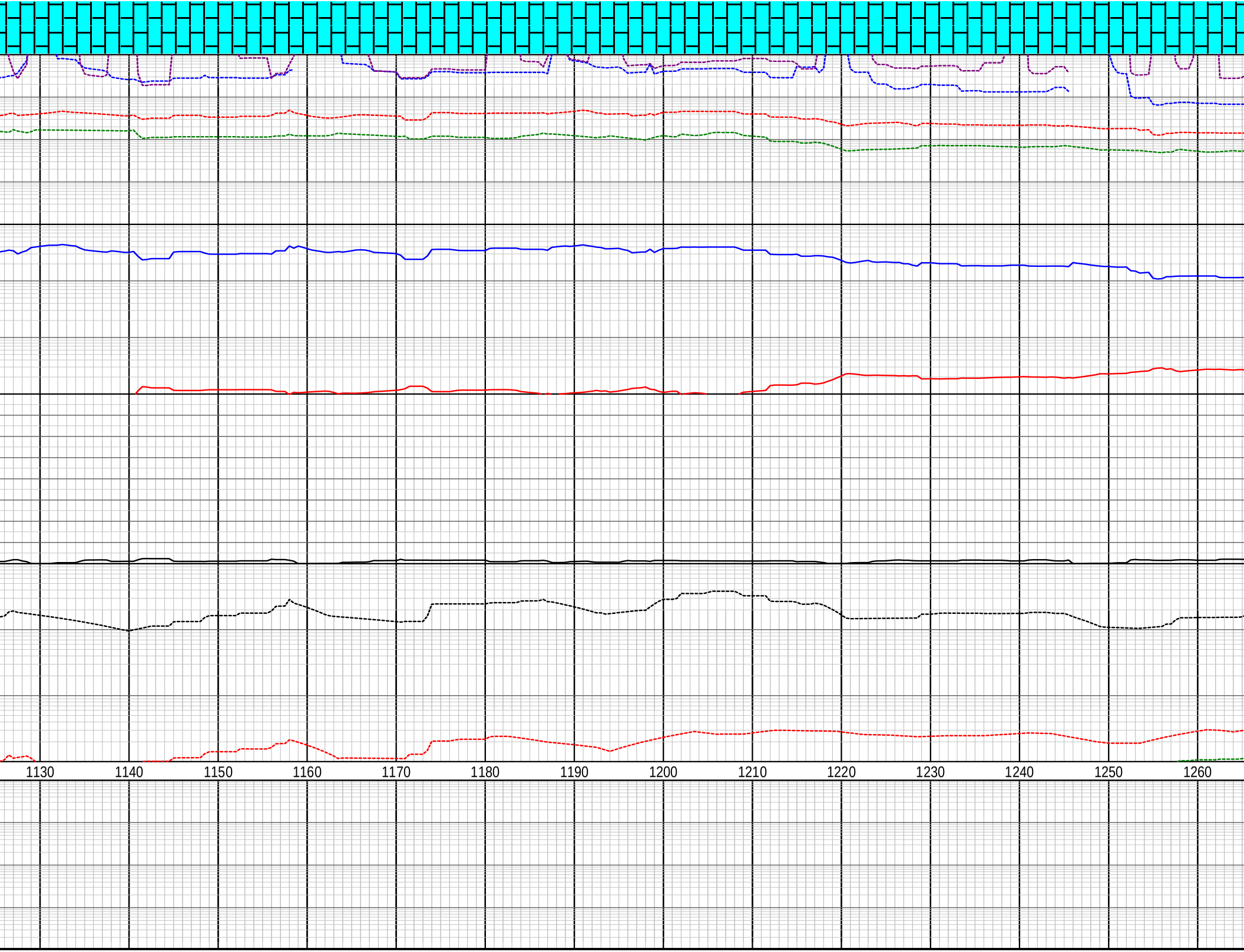
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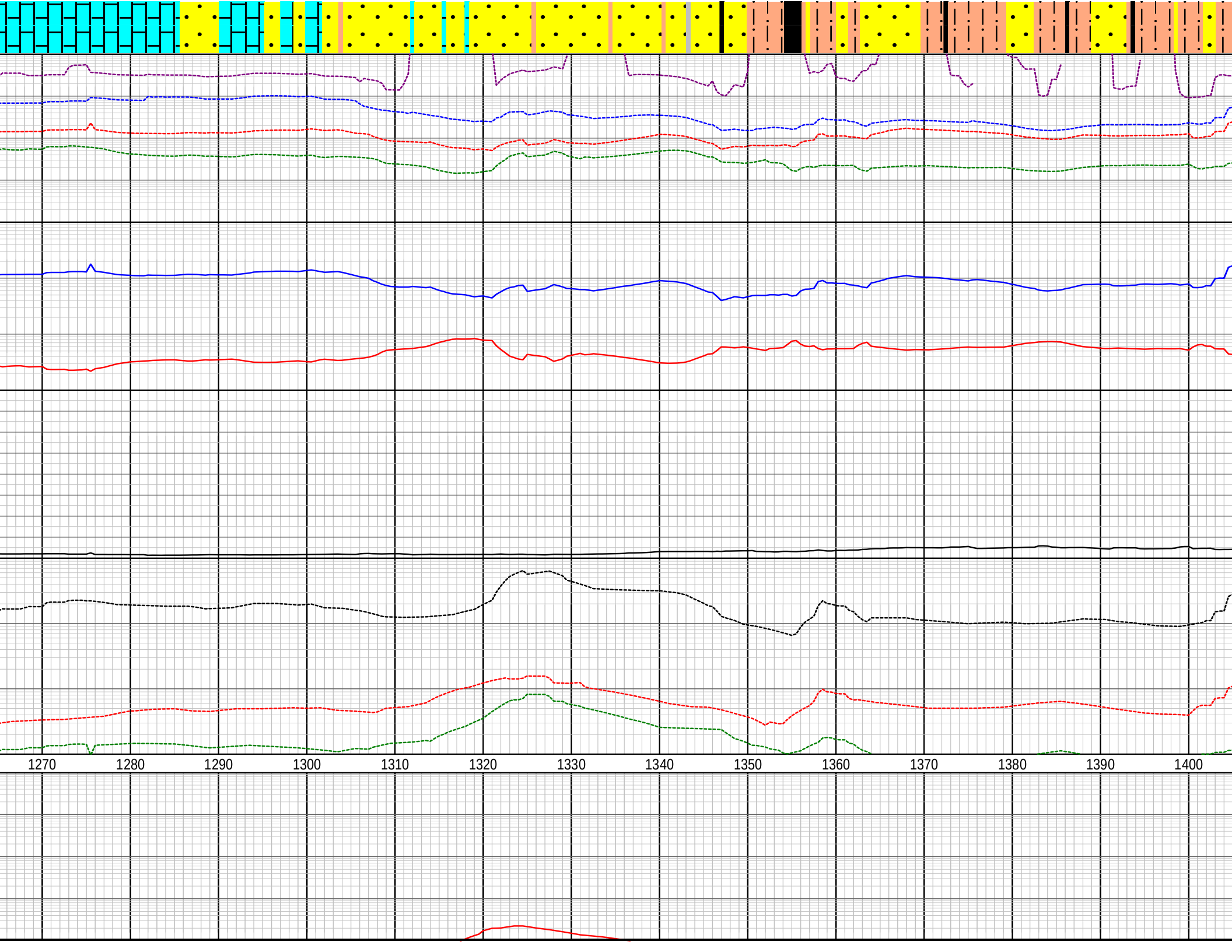
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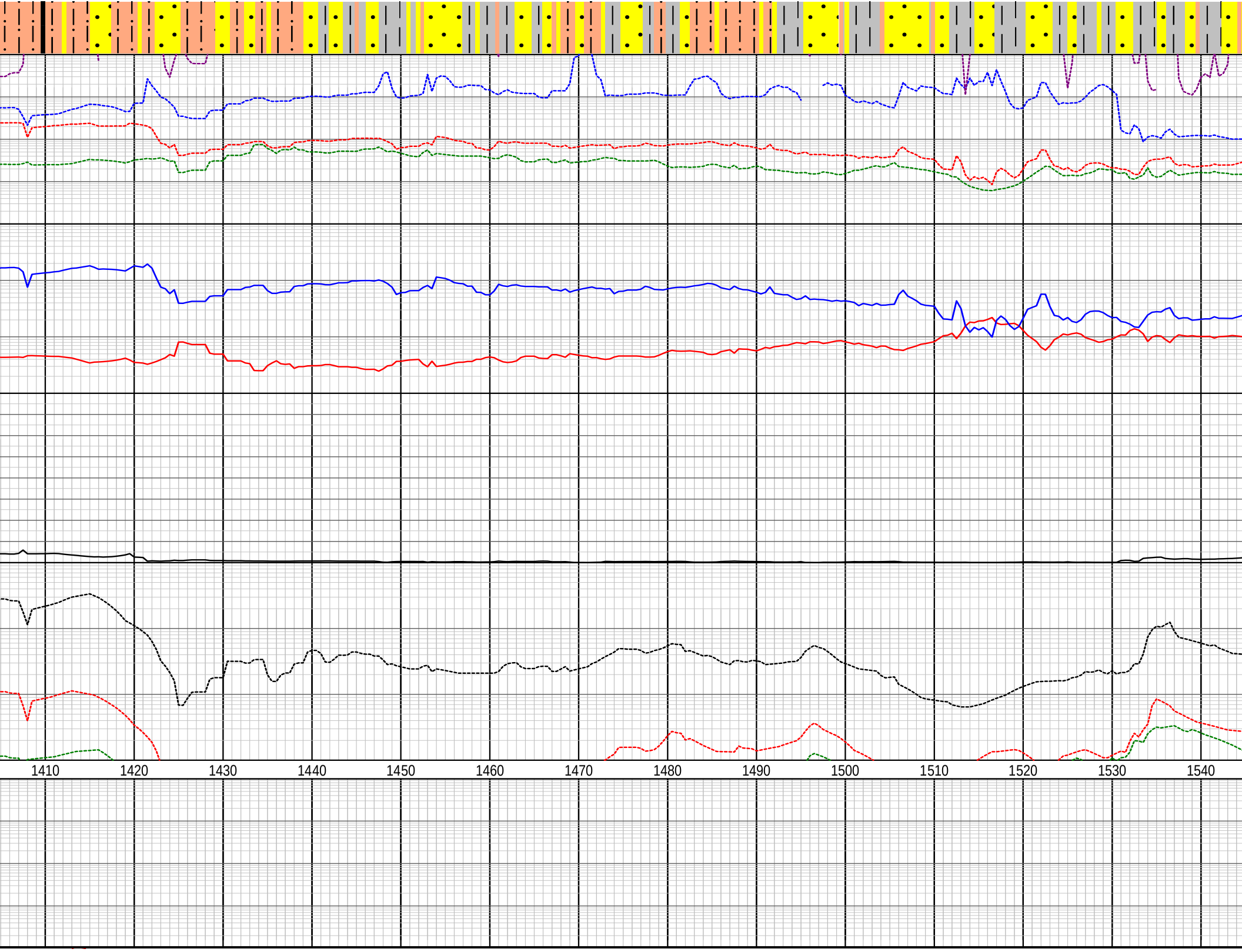
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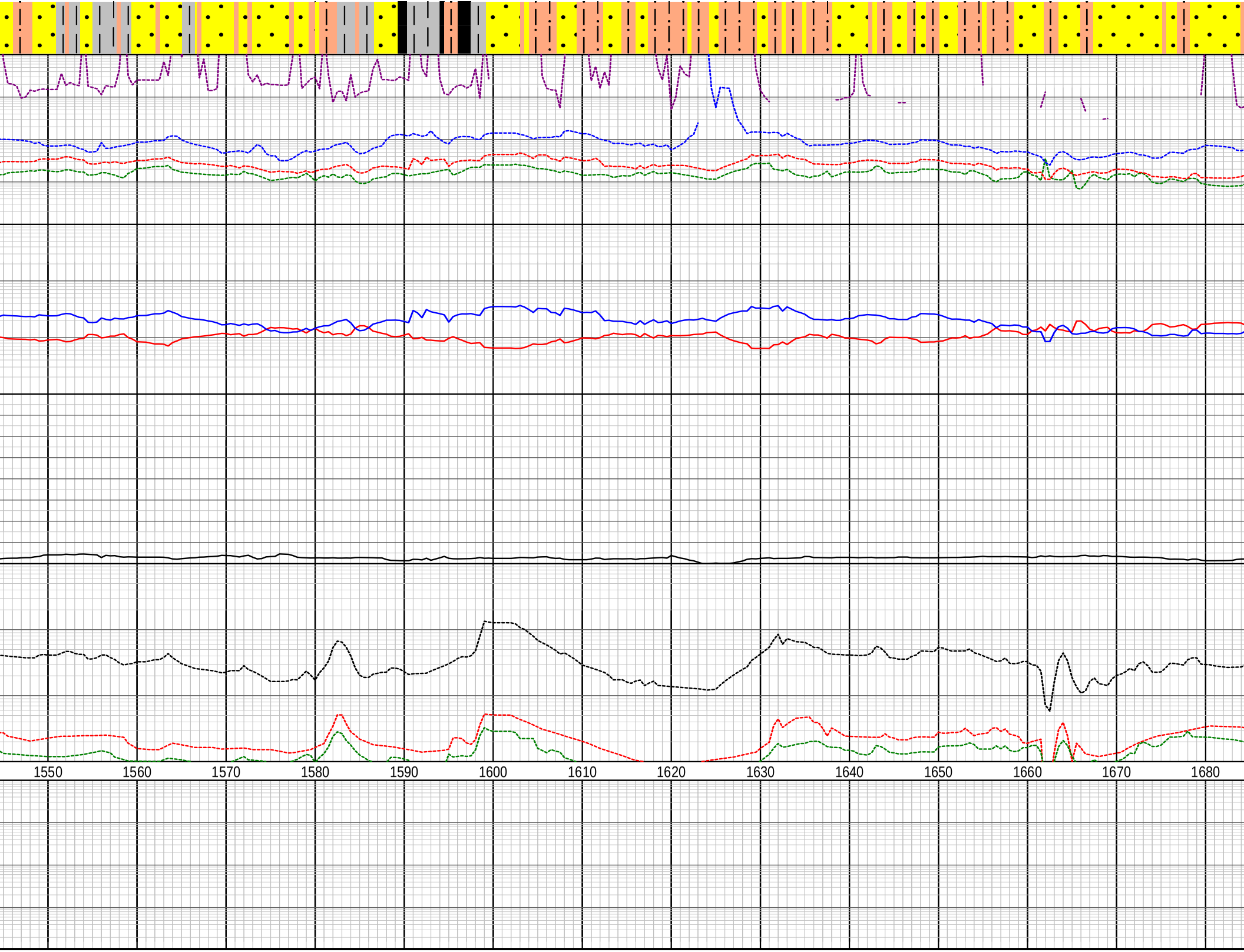
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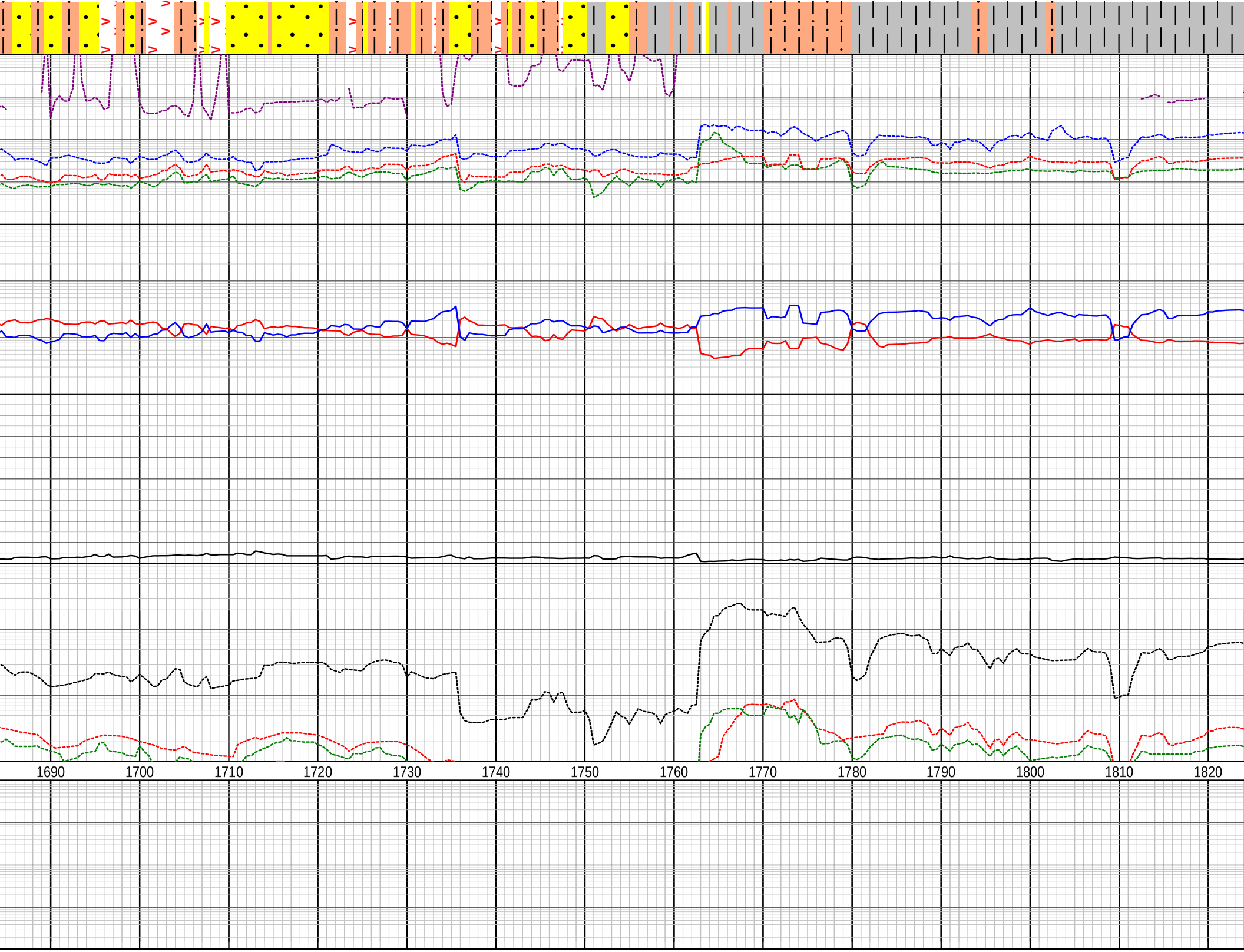
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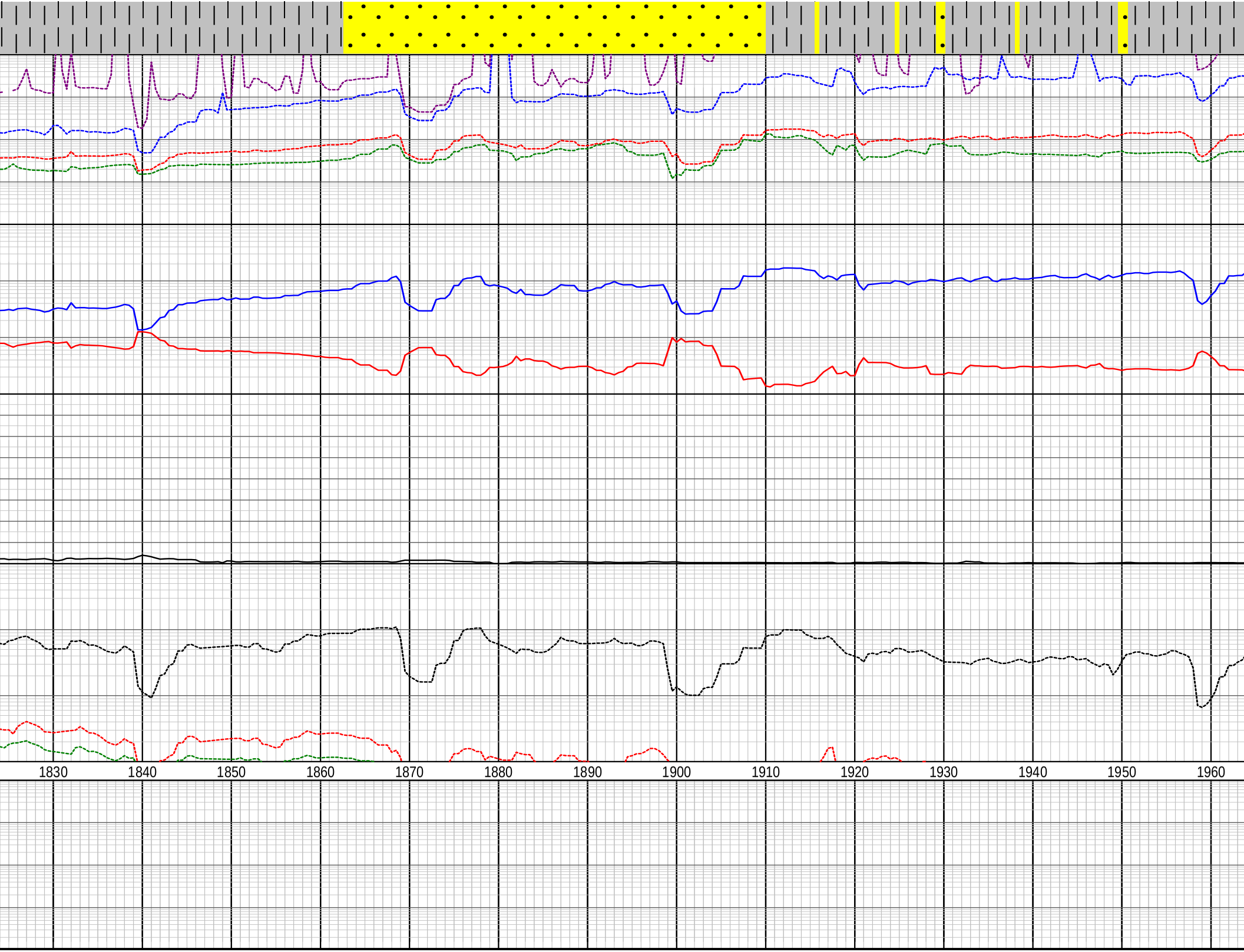
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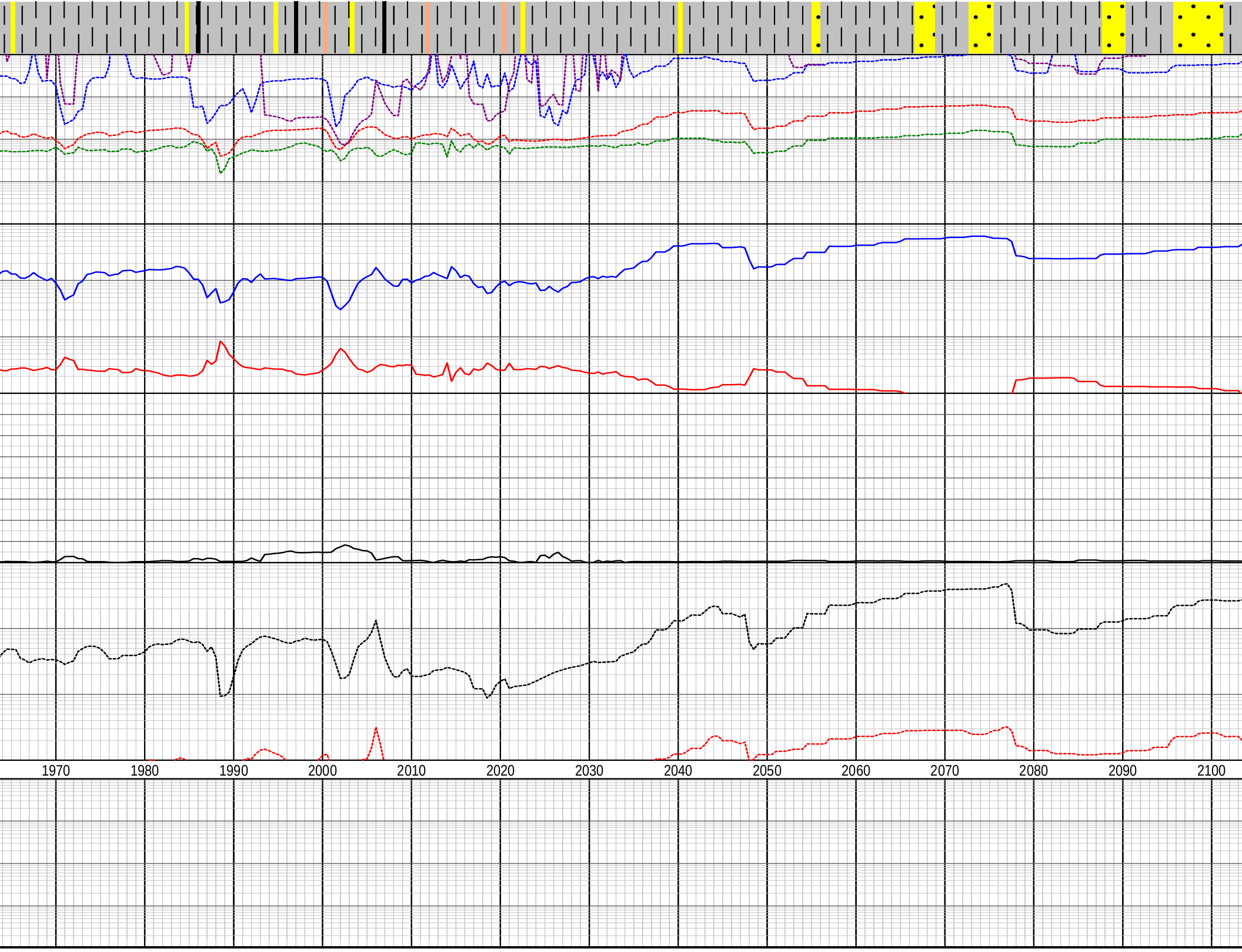
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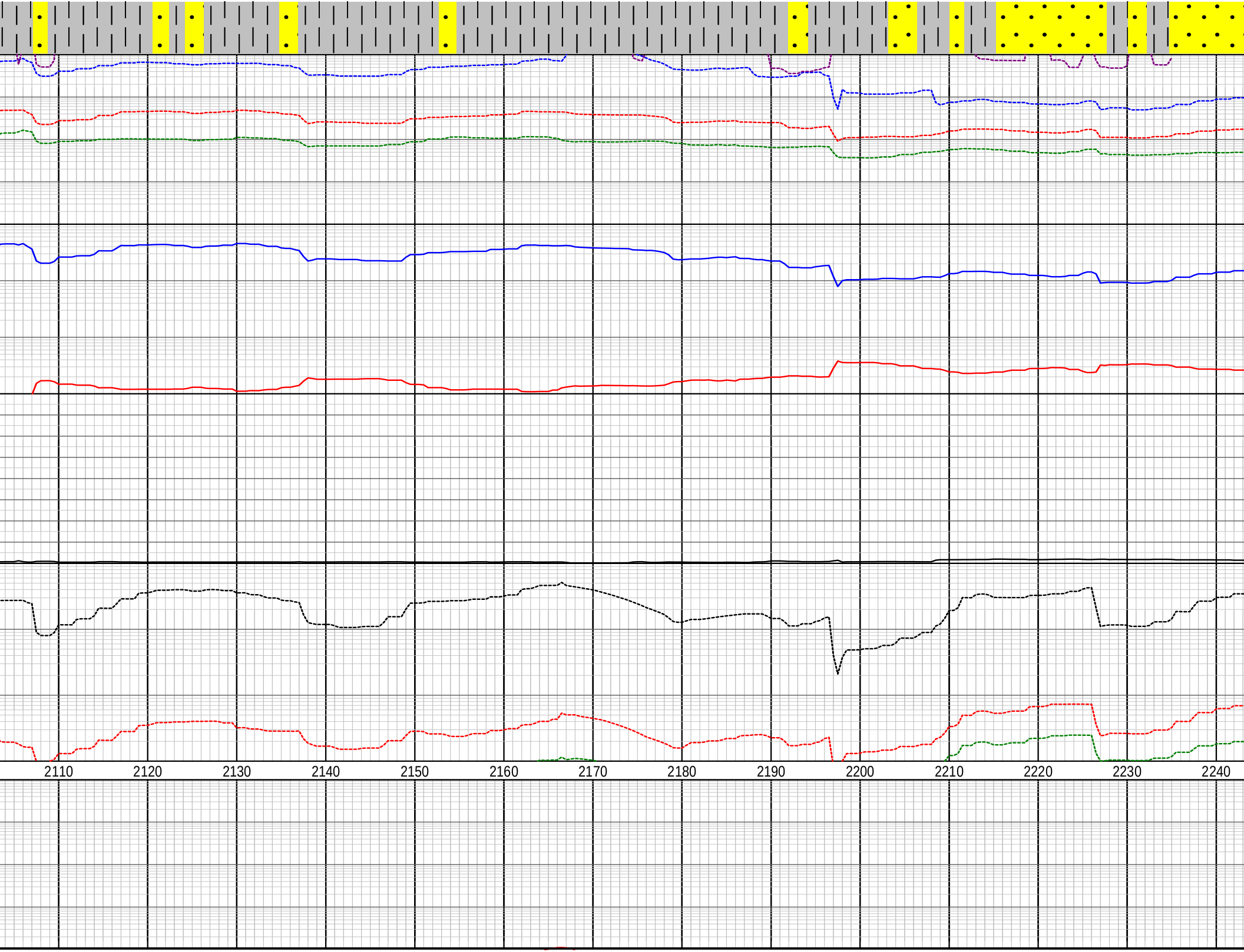
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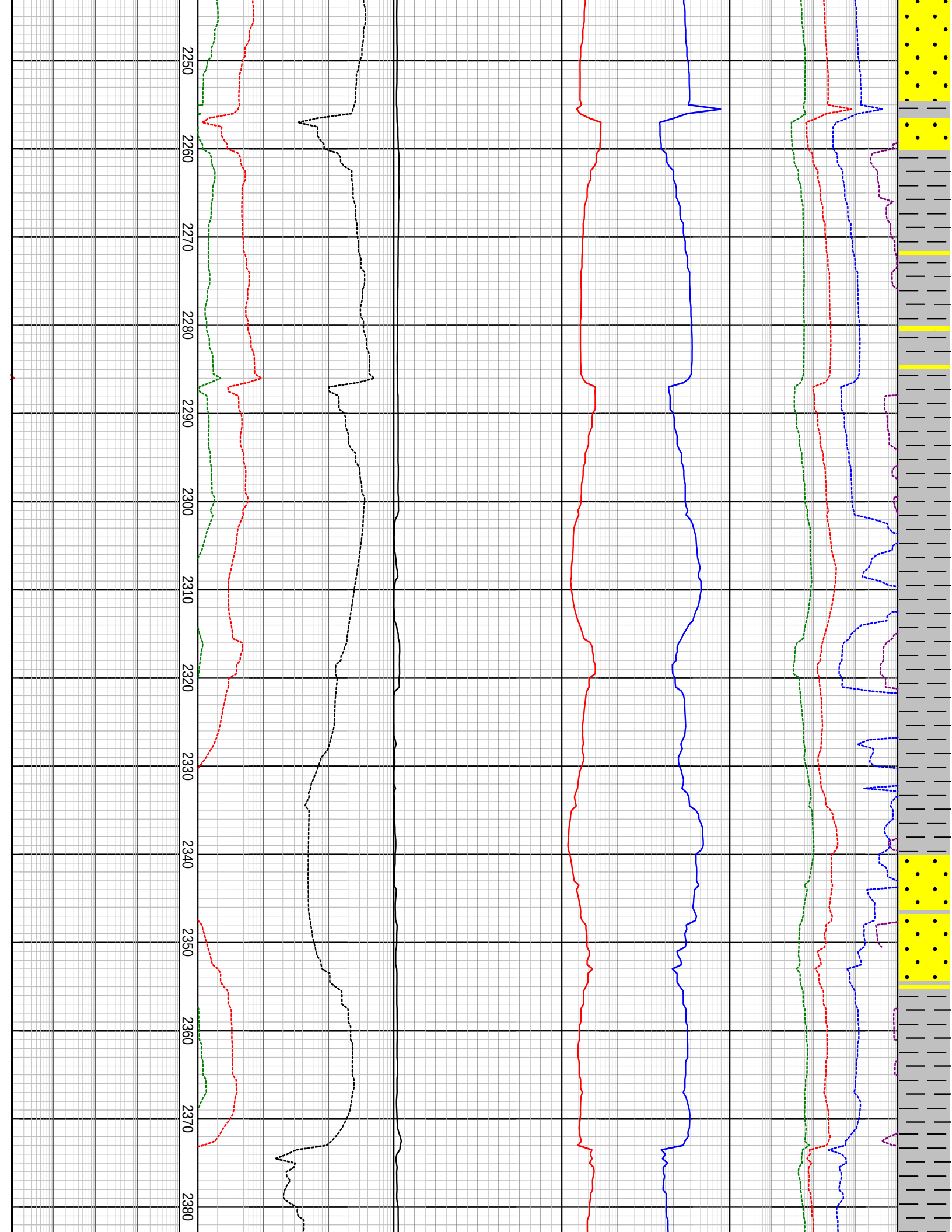
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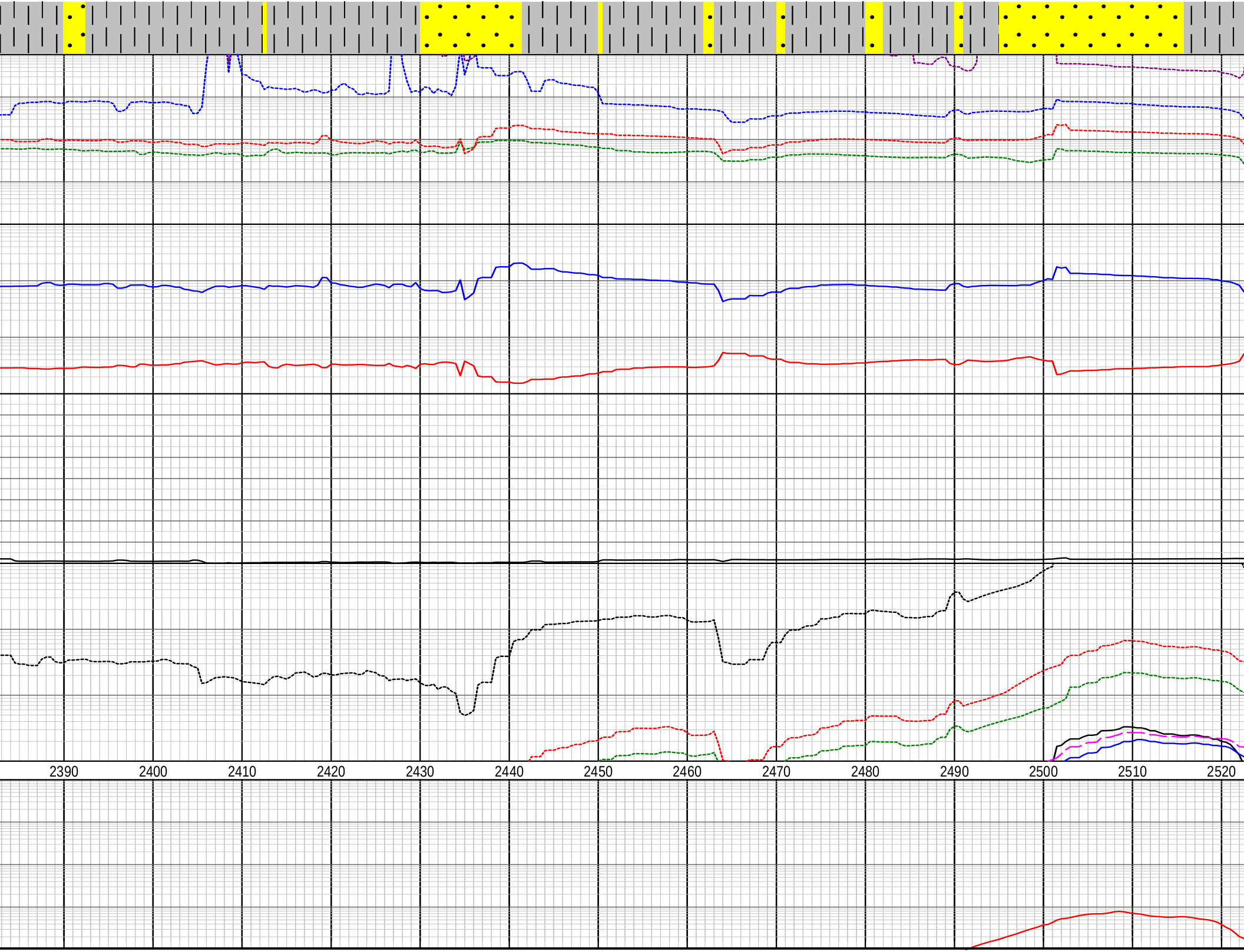
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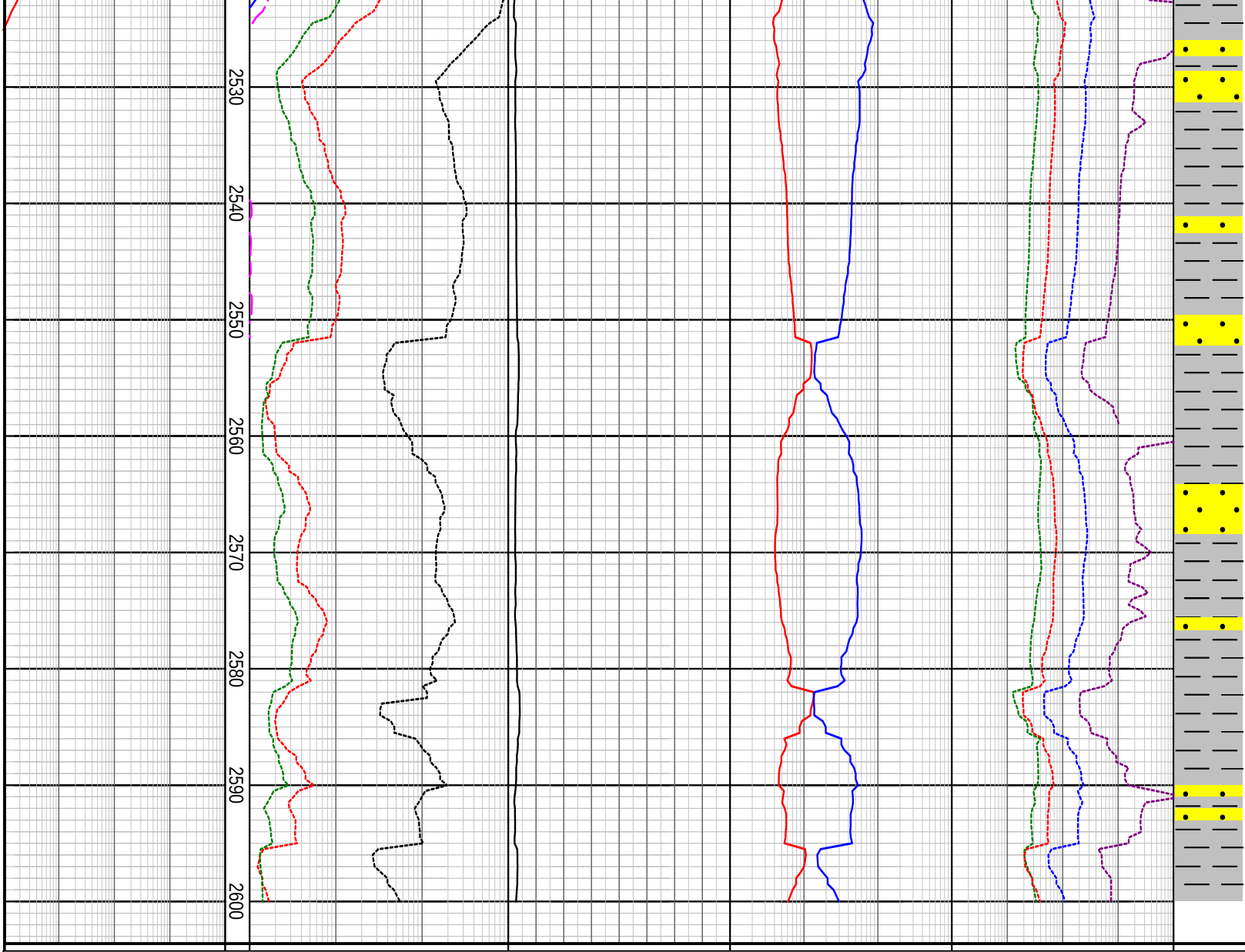


GAS RATIO PLOT

TOTAL GAS
DITCH GAS (%)
0.1 | 1 | 10 | 100

MD meters 1:500

CHROMATOGRAPH ANALYSIS
Methane ppm
Ethane ppm
Propane ppm
i-Butane ppm
i-Pentane ppm
n-Butane ppm
n-Pentane ppm
100 | 1000 | 10000

OCQ
2 | 4 | 6 | 8 | 10

RATIOS
GWR
10 | 100 | 1000
LHR
10 | 100 | 1000

C1/(C2+C3+C4)
C1/C2
10 | 100 | 1000 | 10000
C1/C3
10 | 100 | 1000 | 10000
C1/C4
10 | 100 | 1000 | 10000
C1/C5
10 | 100 | 1000 | 10000
unitless

BAKER HUGHES

INTEQ

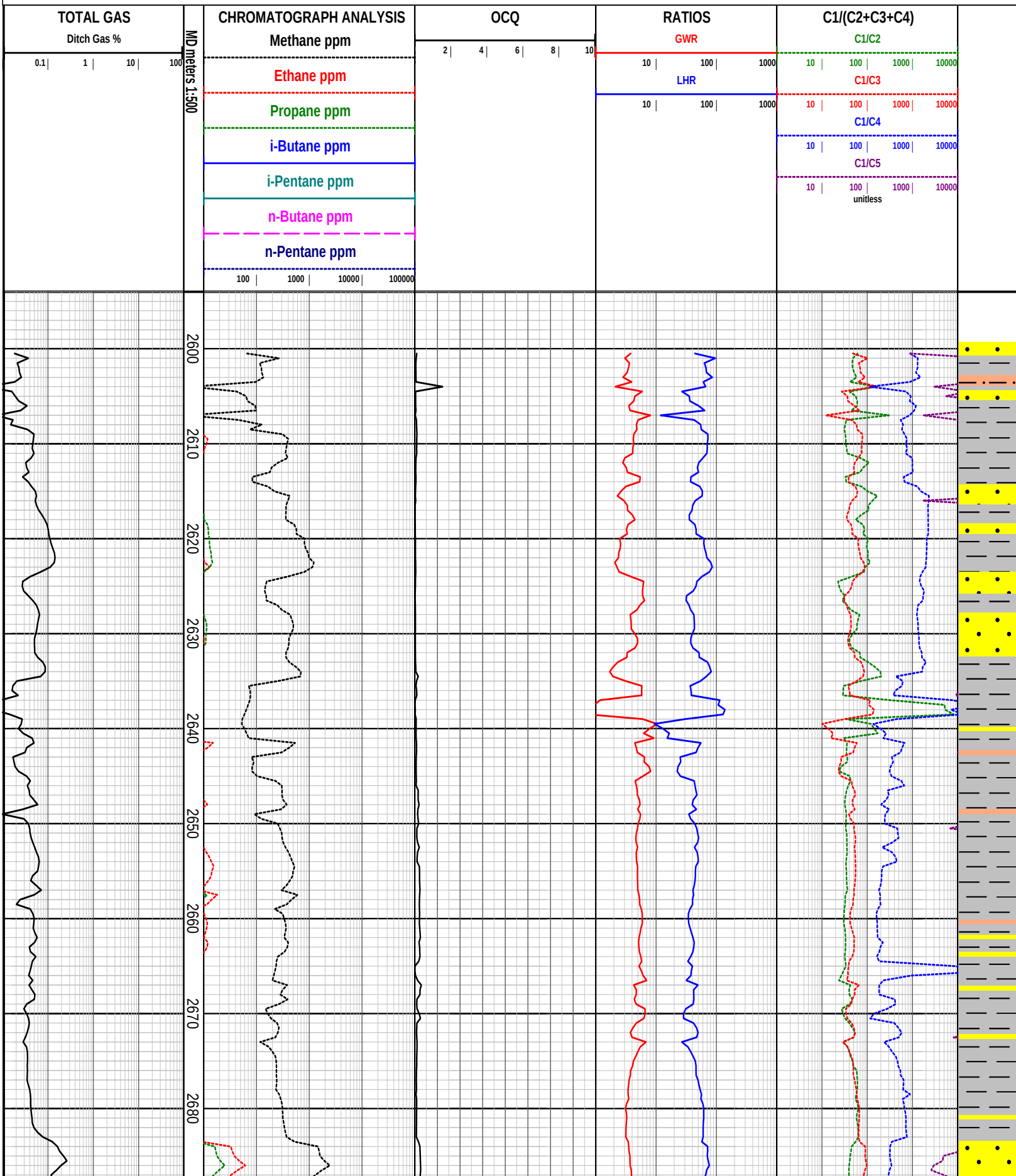
Company : Nexus Energy

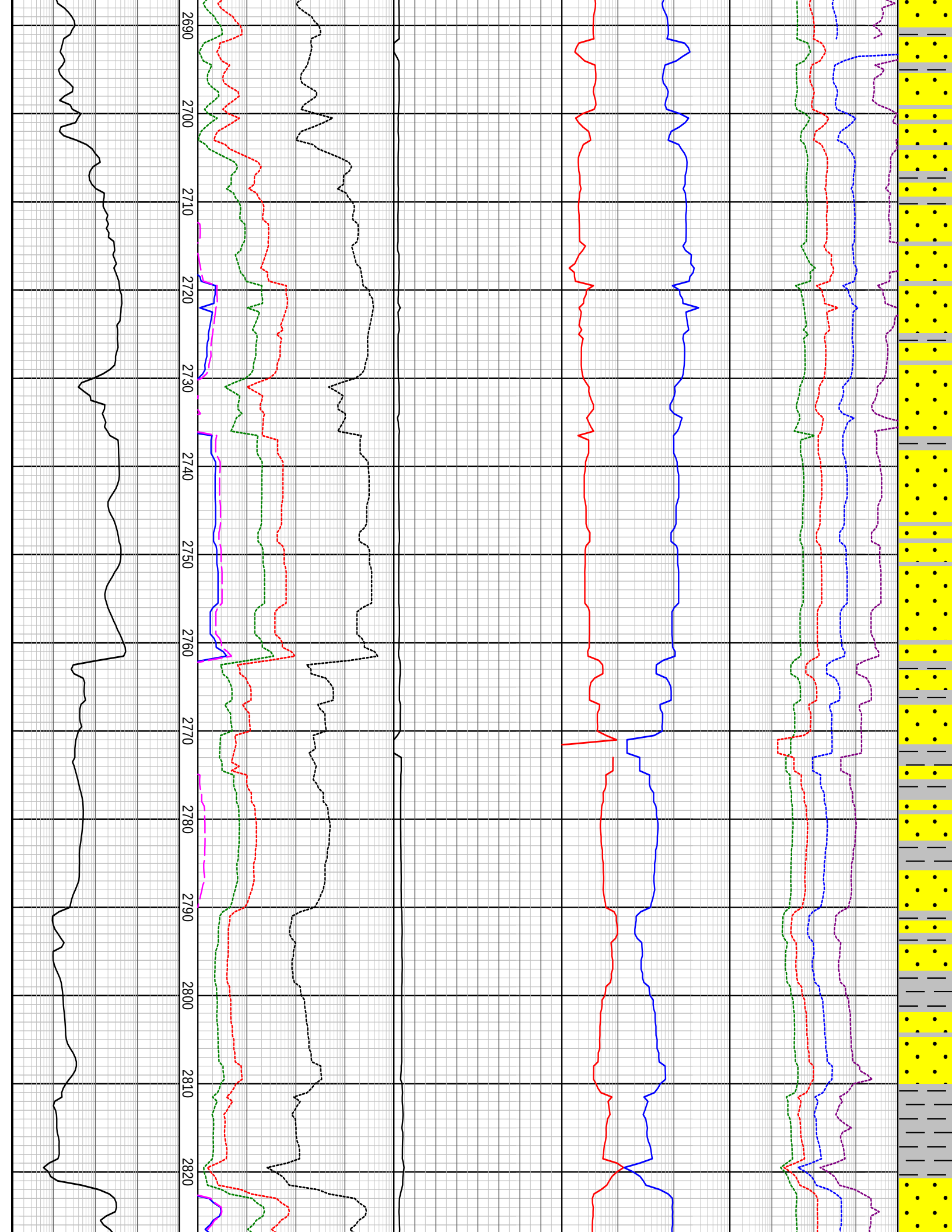
Well : Longtom-4

Interval : 2594.00 - 2991.61 meters

Created : 01/Aug/2008 3:40:15 AM

GAS RATIO PLOT

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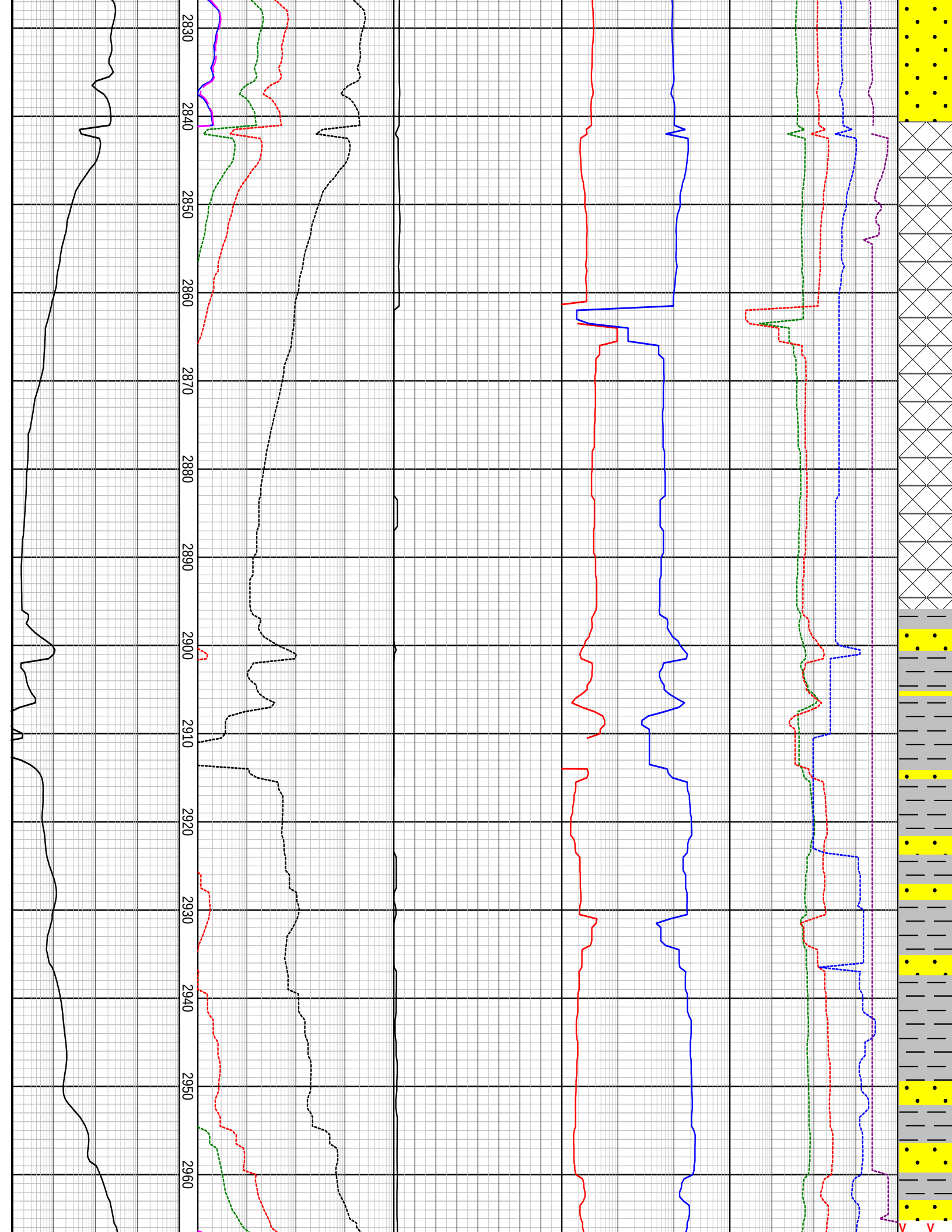
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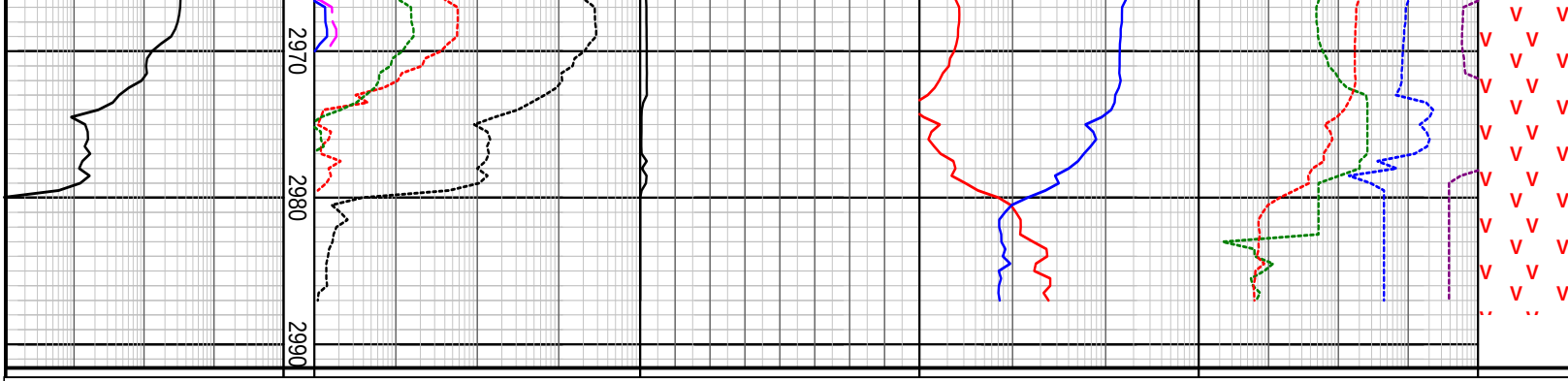


GAS RATIO PLOT

TOTAL GAS
Ditch Gas %
0.1 | 1 | 10 | 100

MD meters 1:500

CHROMATOGRAPH ANALYSIS
Methane ppm
Ethane ppm
Propane ppm
i-Butane ppm
i-Pentane ppm
n-Butane ppm
n-Pentane ppm
100 | 1000 | 10000 | 100000

OCQ
2 | 4 | 6 | 8 | 10

RATIOS
GWR
10 | 100 | 1000
LHR
10 | 100 | 1000

C1/(C2+C3+C4)
C1/C2
10 | 100 | 1000 | 10000
C1/C3
10 | 100 | 1000 | 10000
C1/C4
10 | 100 | 1000 | 10000
C1/C5
10 | 100 | 1000 | 10000
unitless

BAKER HUGHES

INTEQ

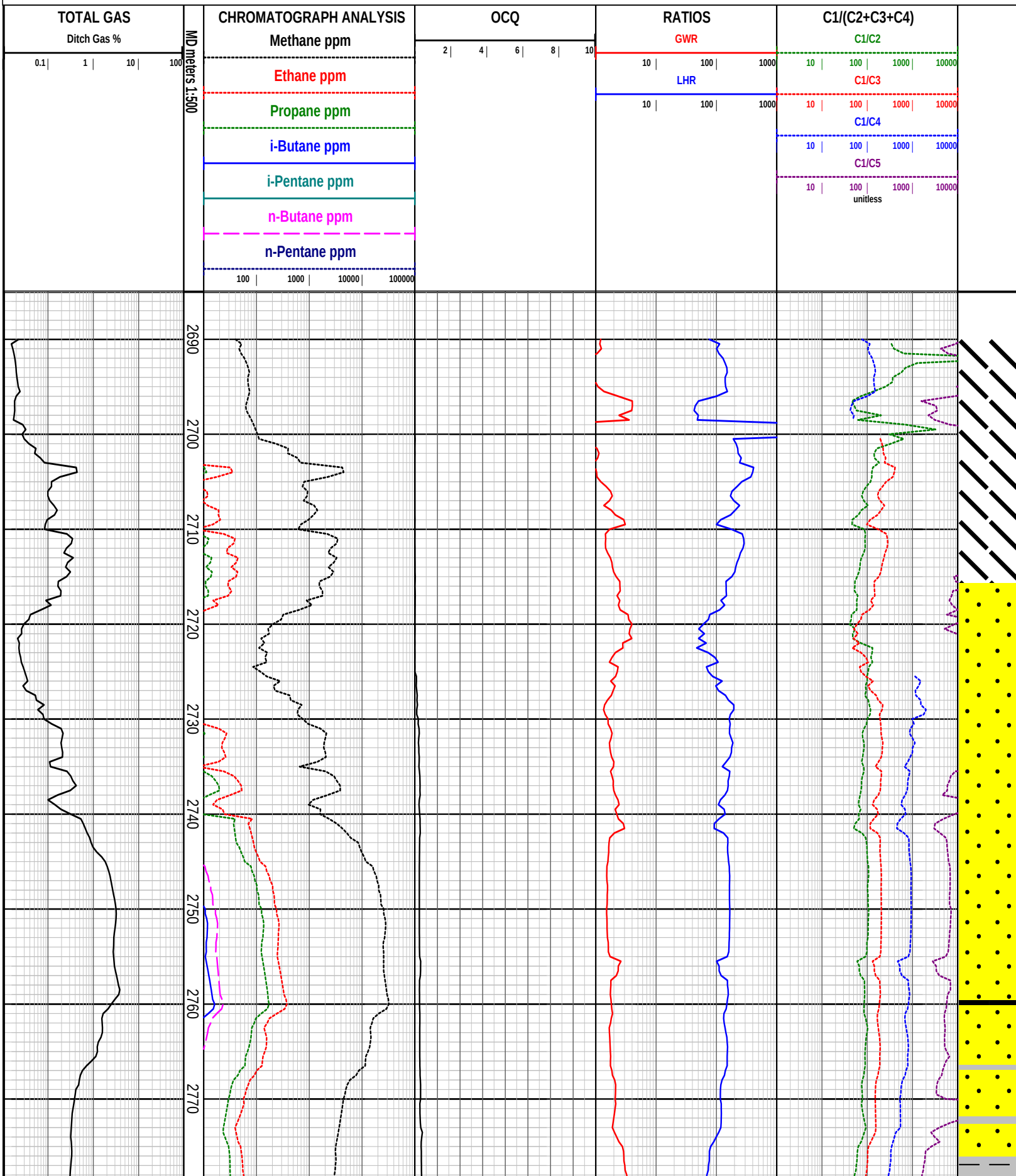
Company : Nexus Energy

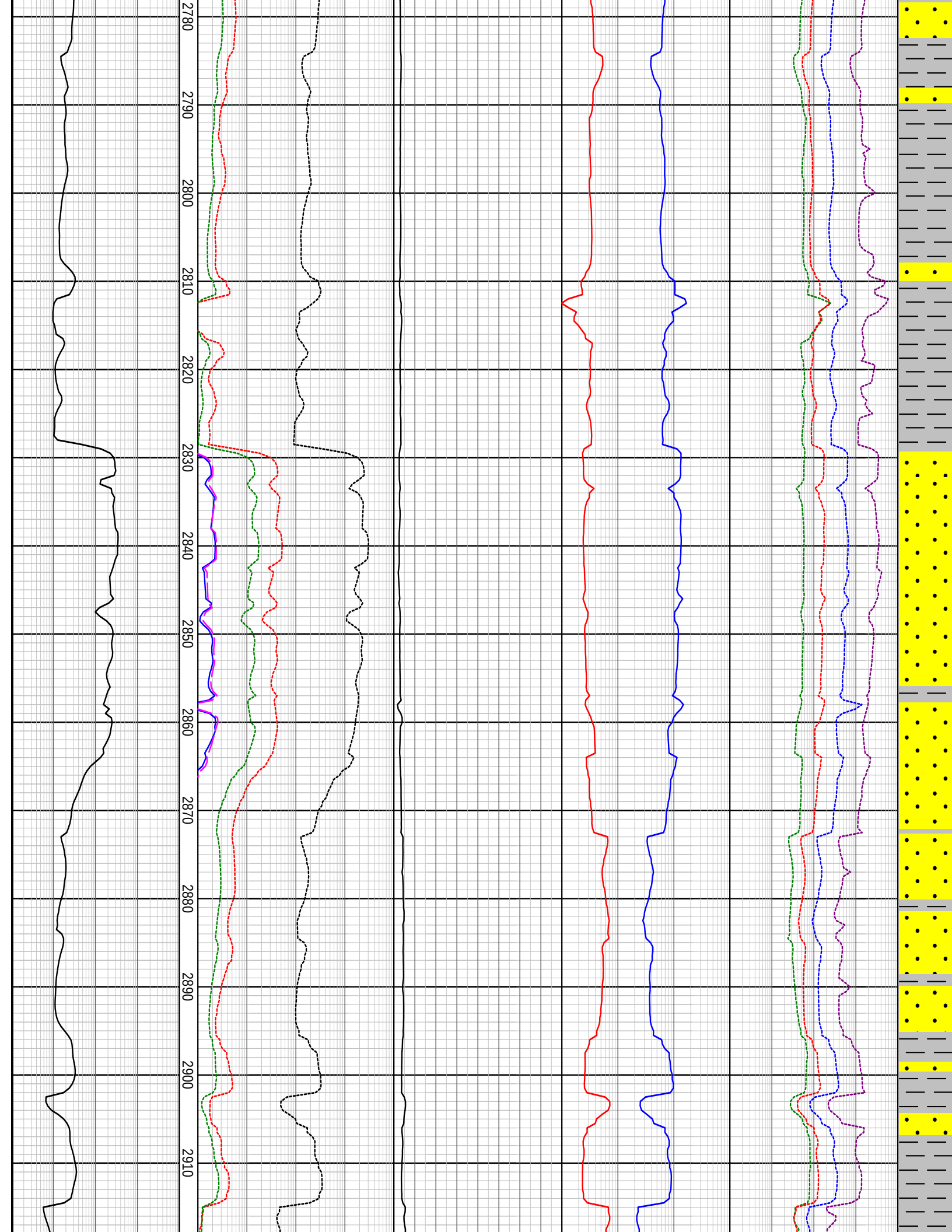
Well : Longtom-4 H

Interval : 2685.00 - 4649.13 meters

Created : 14/Aug/2008 6:14:51 AM

GAS RATIO PLOT

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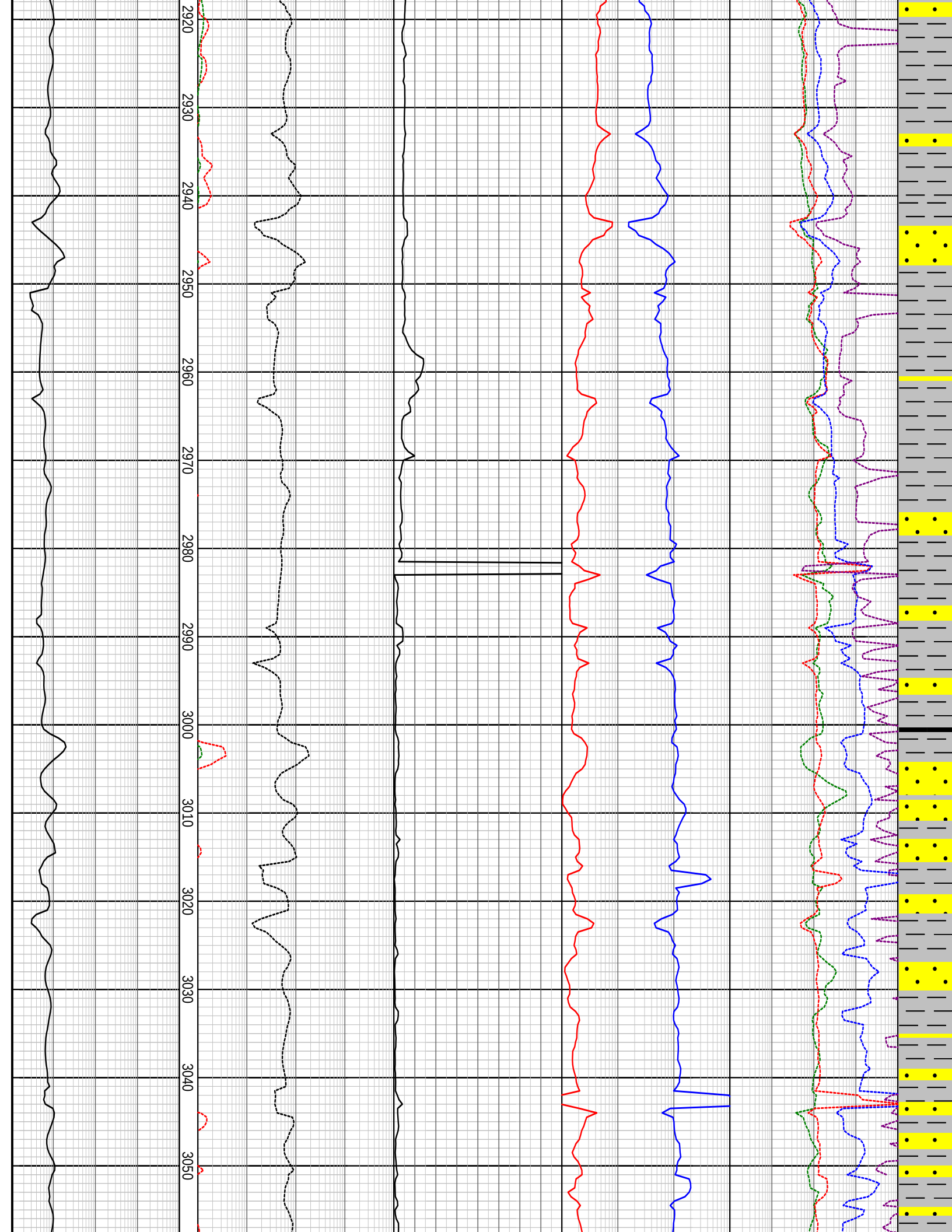
2790
2800
2810
2820
2830
2840
2850
2860
2870
2880
2890
2900
2910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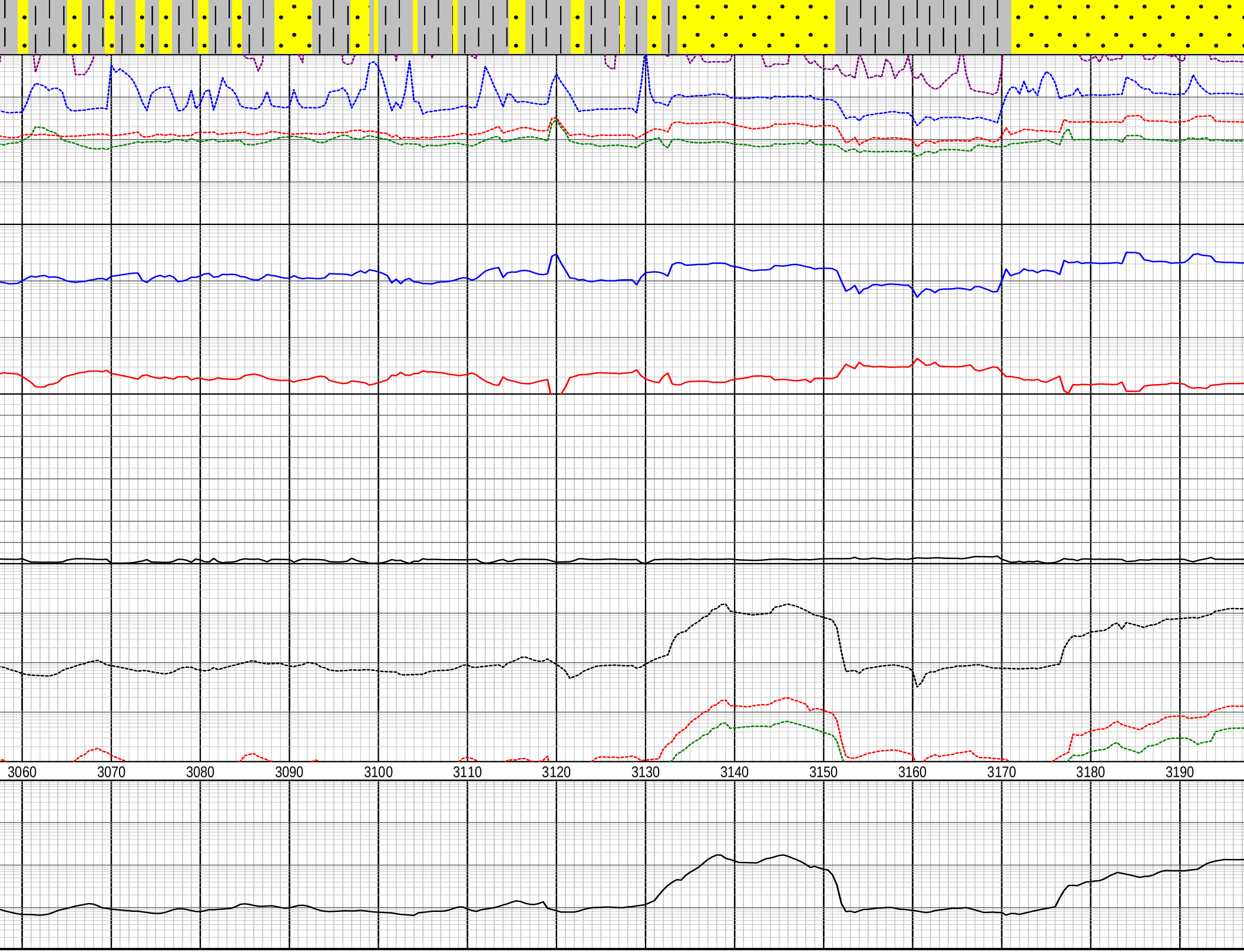
2940
2950
2960
2970
2980
2990
3000
3010
3020
3030
3040
3050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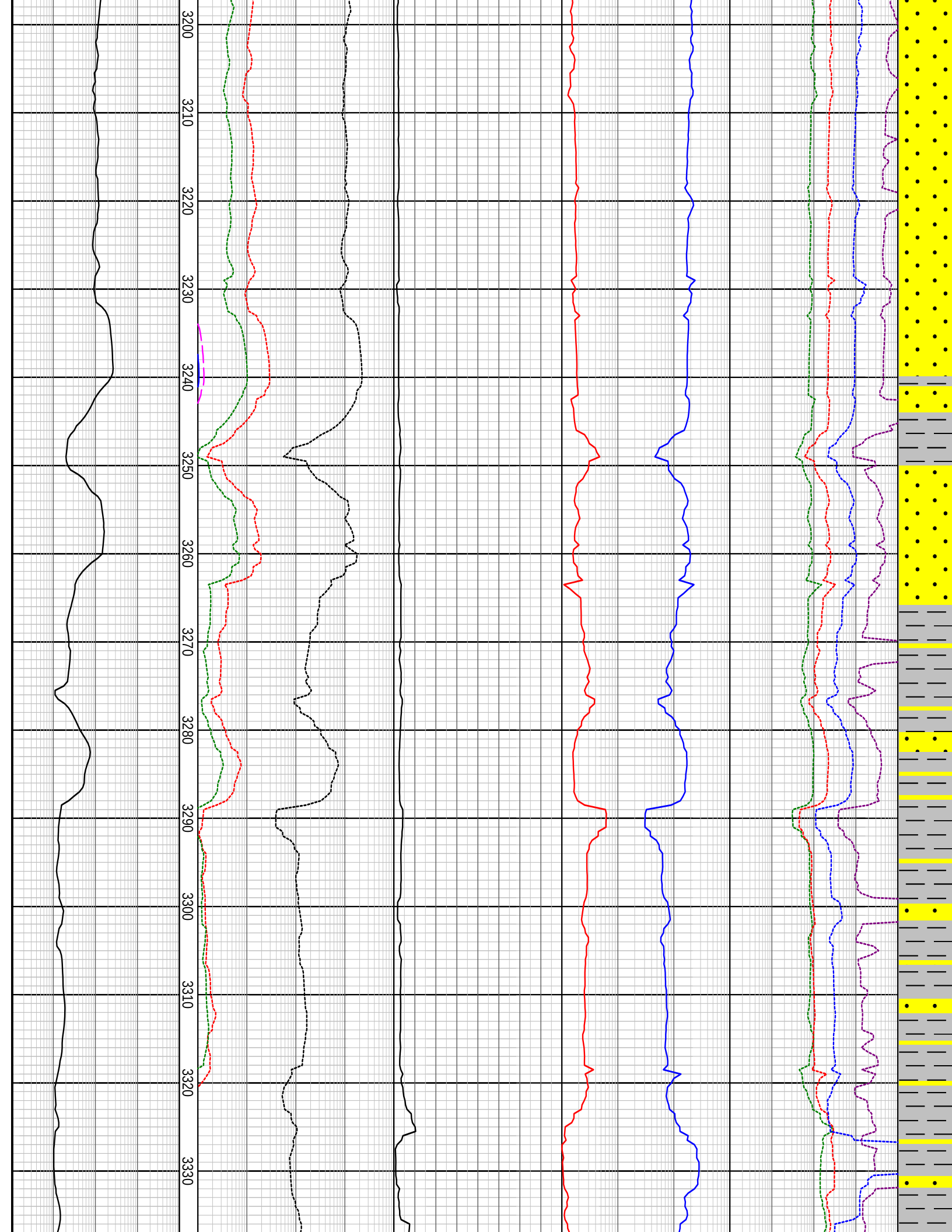
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190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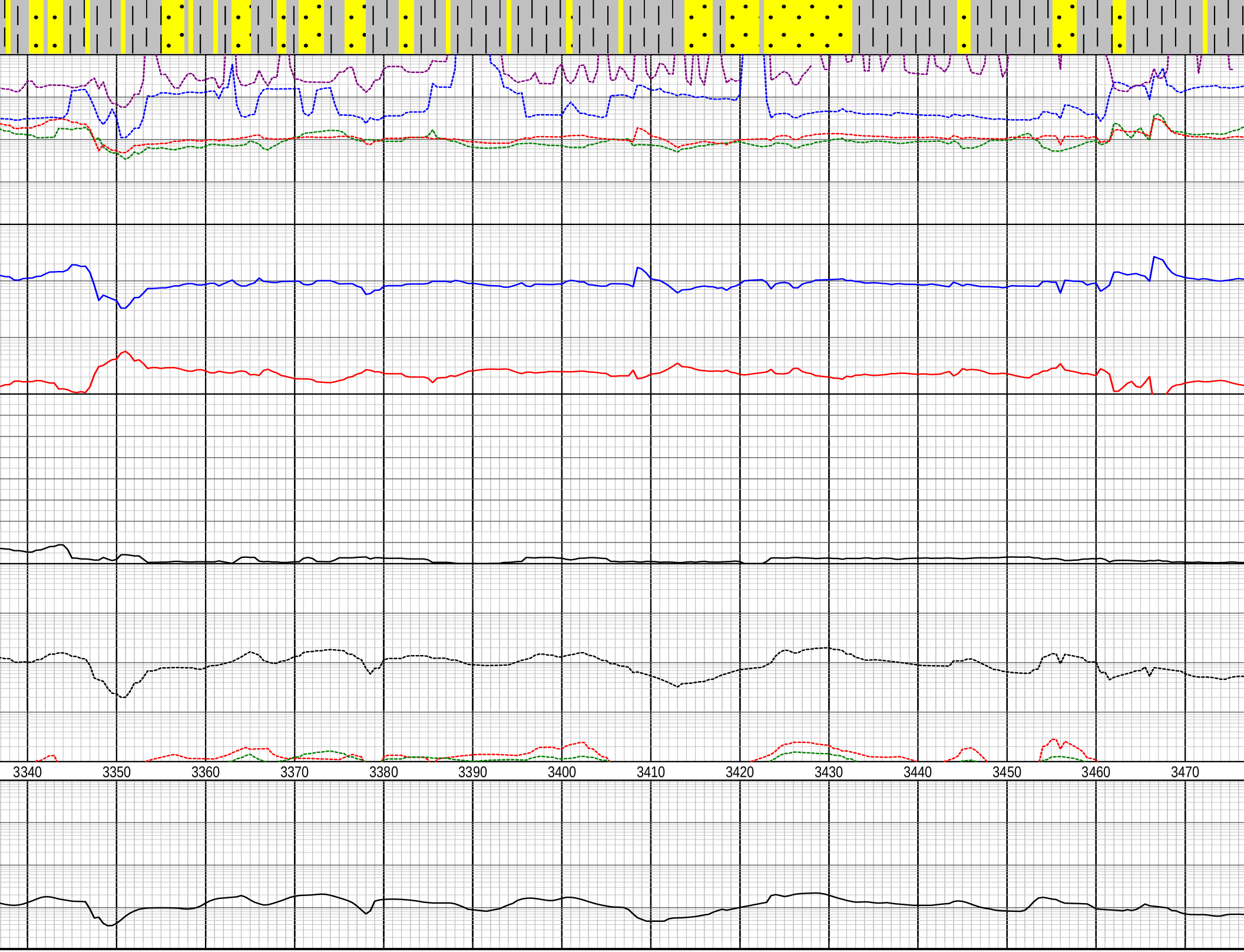
3210
3220
3230
3240
3250
3260
3270
3280
3290
3300
3310
3320
3330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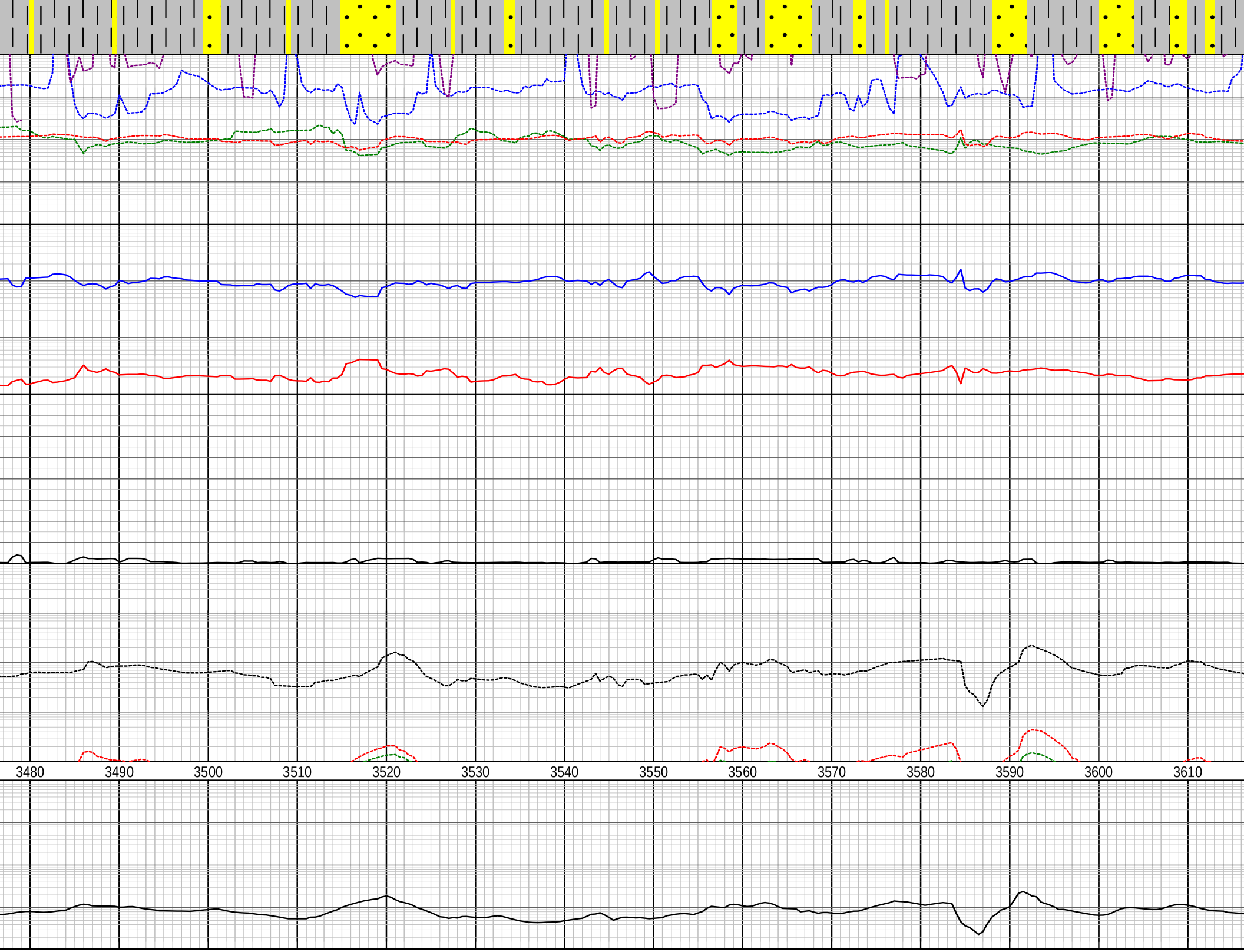
3350
3360
3370
3380
3390
3400
3410
3420
3430
3440
3450
3460
3470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3490
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3520
3530
3540
3550
3560
3570
3580
3590
3600
3610

3620
3630
3640
3650
3660
3670
3680
3690
3700
3710
3720
3730
3740
3750

3760
3770
3780
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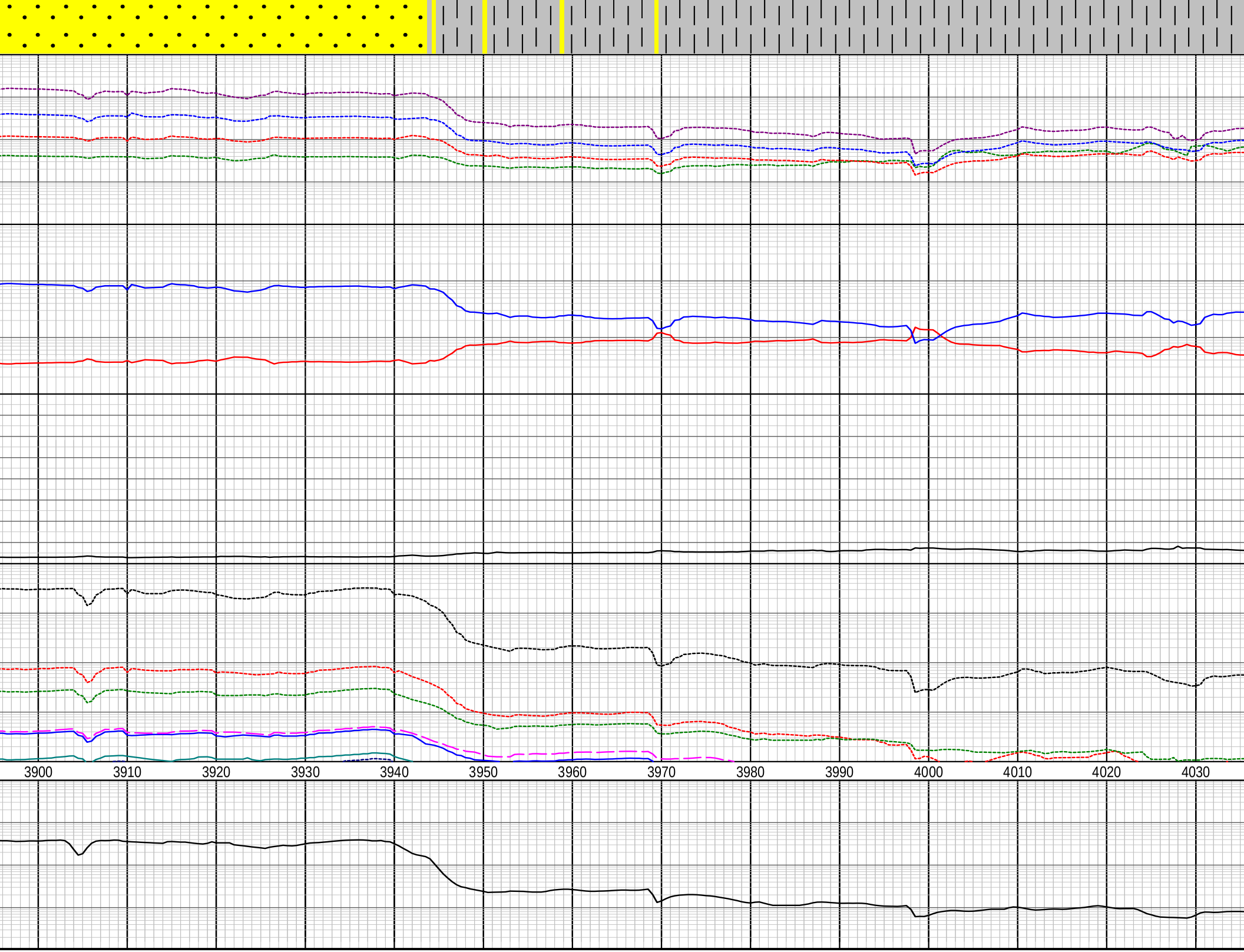
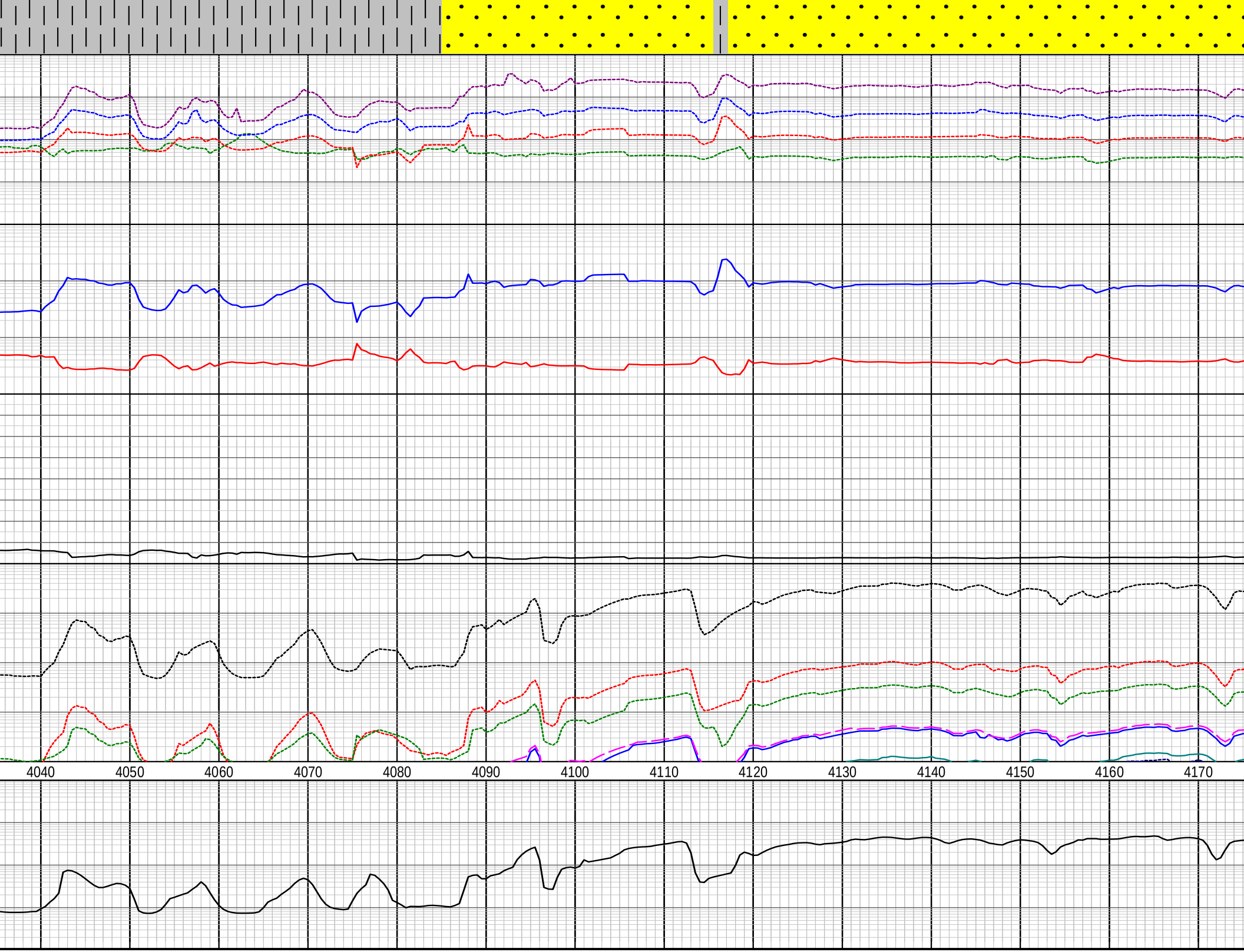
3870
3880
3890


3900
3910
3920
3930
3940
3950
3960
3970
3980
3990
4000
4010
4020
4030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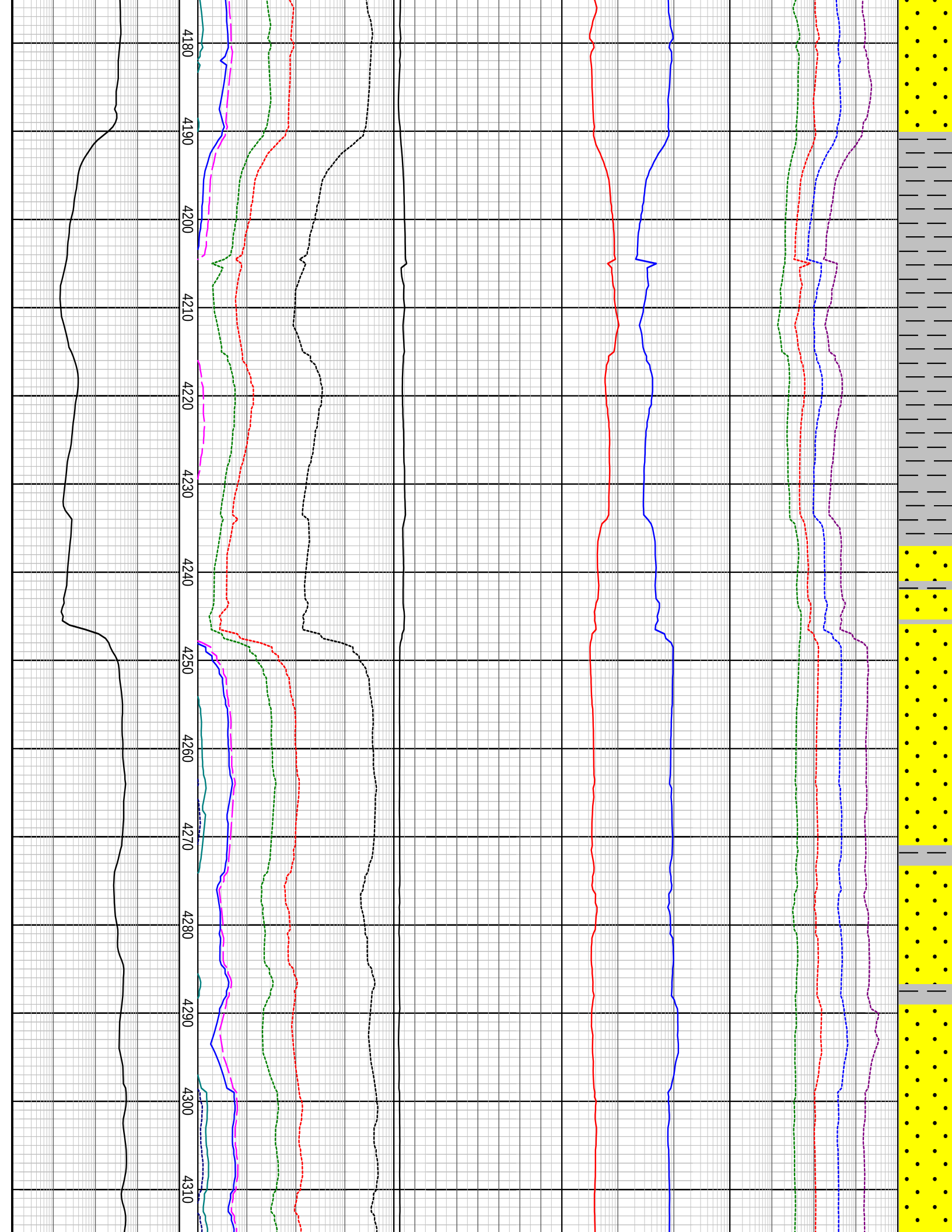
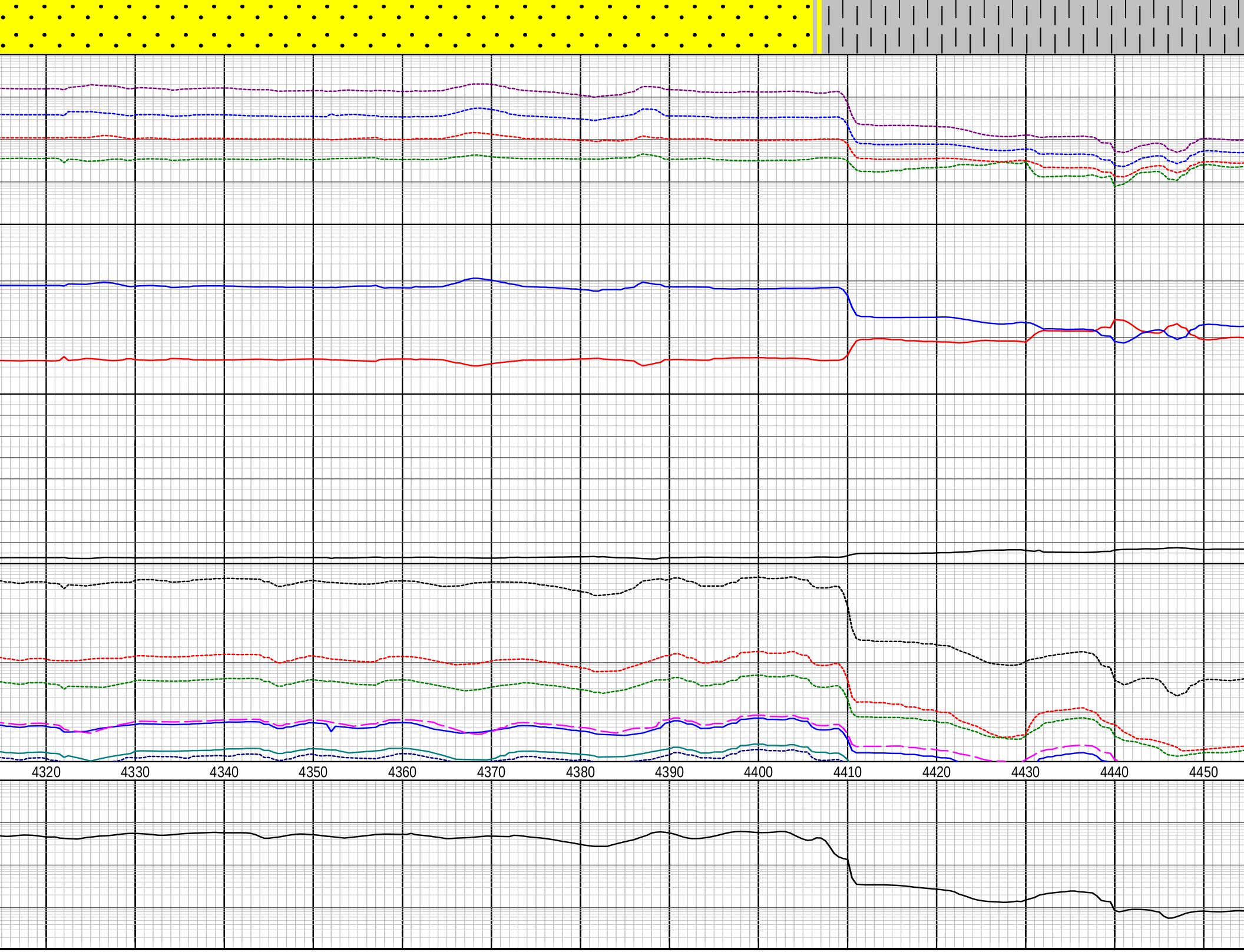
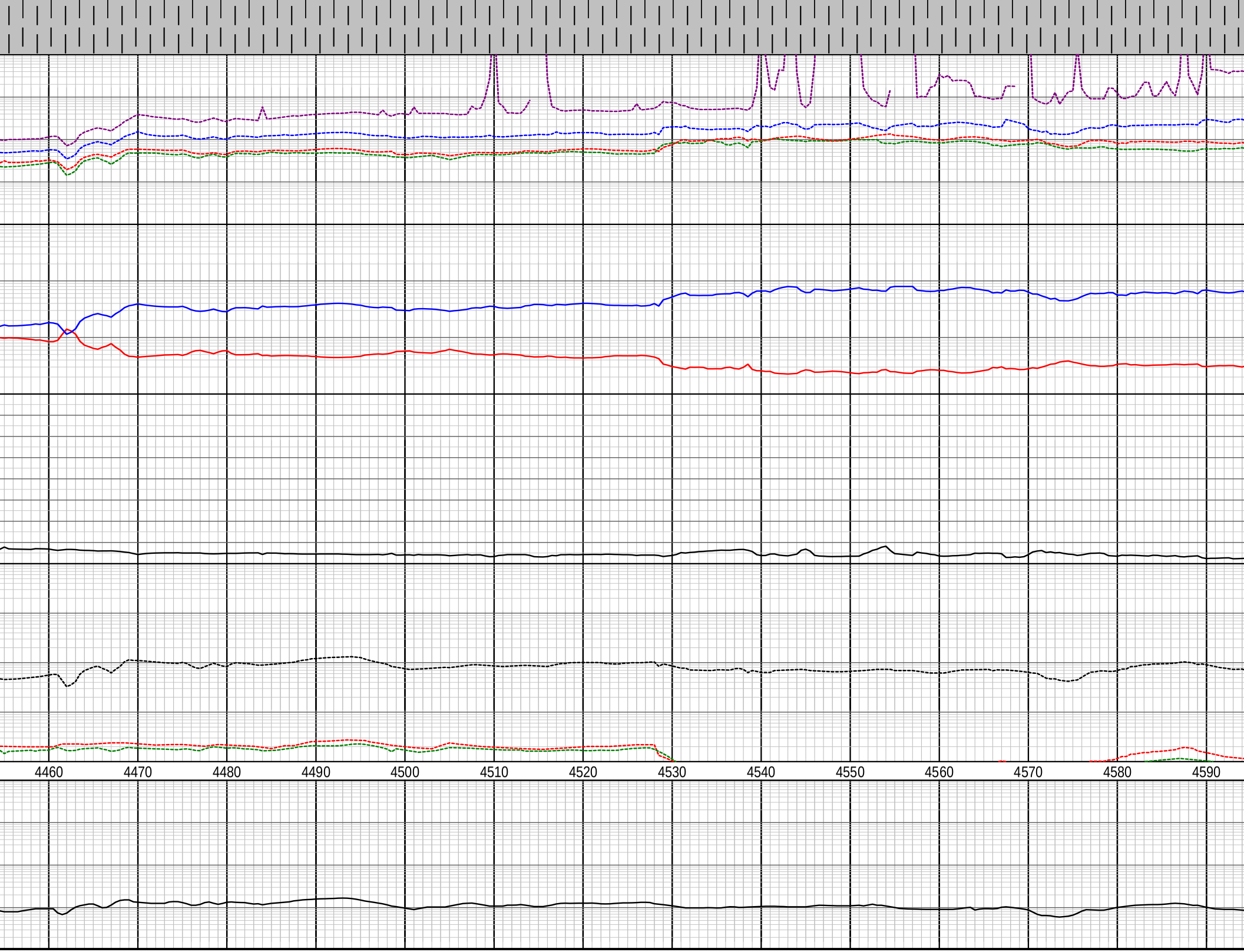
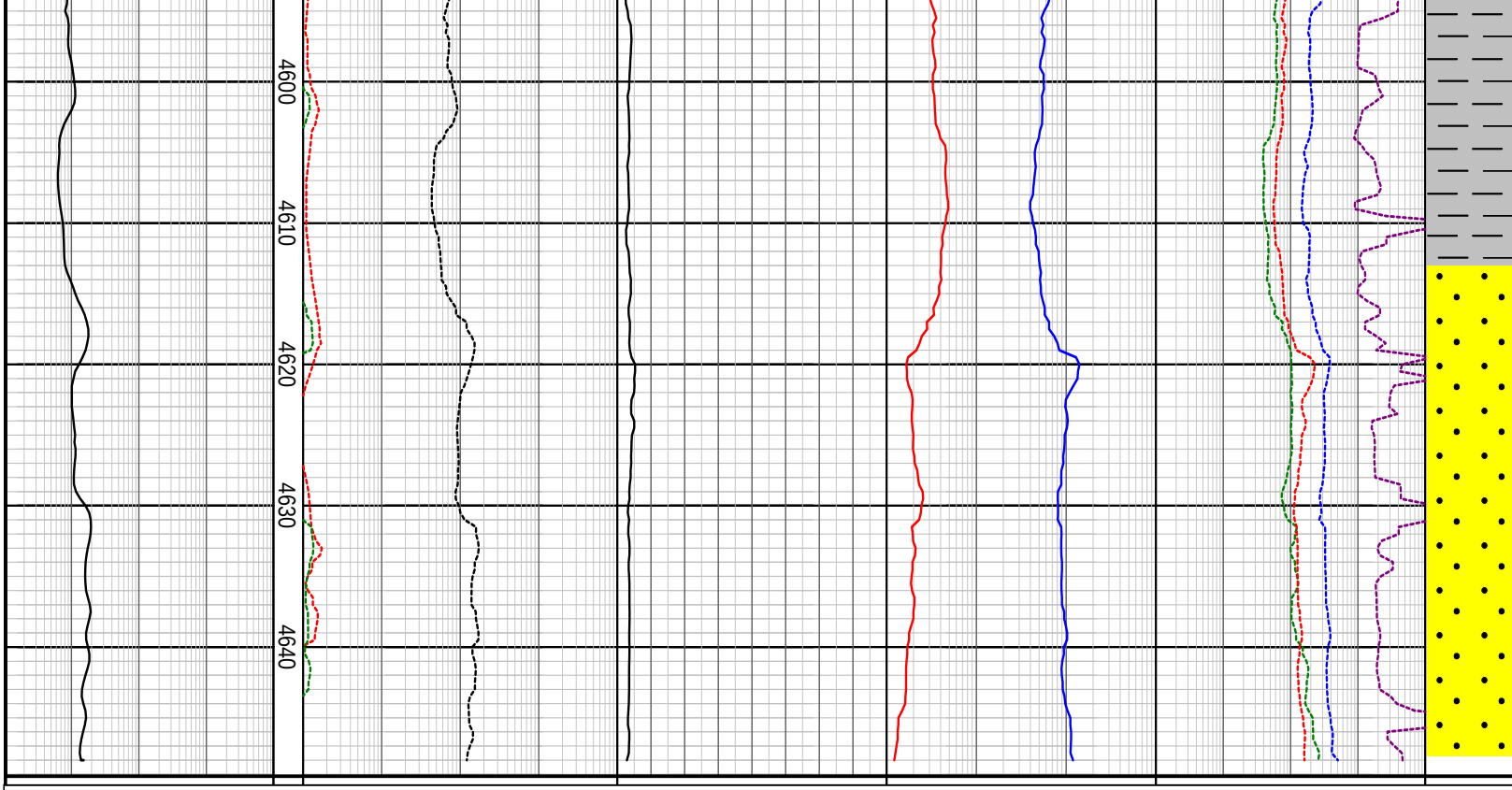
4050
4060
4070
4080
4090
4100
4110
4120
4130
4140
4150
4160
4170


4180
4190
4200
4210
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310


4320
4330
4340
4350
4360
4370
4380
4390
4400
4410
4420
4430
4440
4450


4460
4470
4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590



GAS RATIO PLOT

TOTAL GAS

Ditch Gas %

0.1 | 1 | 10 | 100

MD meters 1:500

CHROMATOGRAPH ANALYSIS

Methane ppm

Ethane ppm

Propane ppm

i-Butane ppm

i-Pentane ppm

n-Butane ppm

n-Pentane ppm

100 | 1000 | 10000 | 100000

OCQ

2 | 4 | 6 | 8 | 10

RATIOS

GWR

10 | 100 | 1000

LHR

10 | 100 | 1000

C1/(C2+C3+C4)

C1/C2

10 | 100 | 1000 | 10000

C1/C3

10 | 100 | 1000 | 10000

C1/C4

10 | 100 | 1000 | 10000

C1/C5

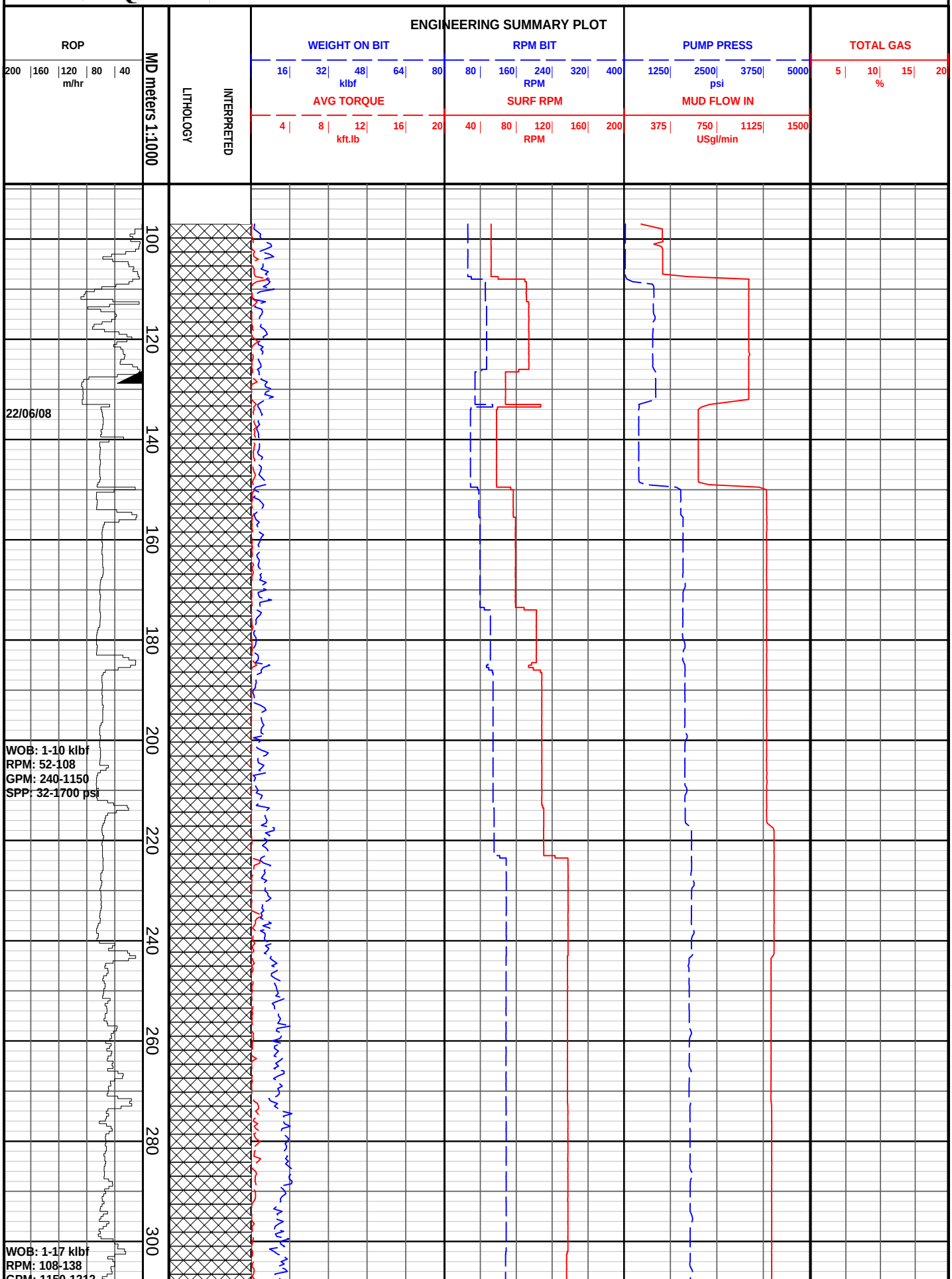
10 | 100 | 1000 | 10000

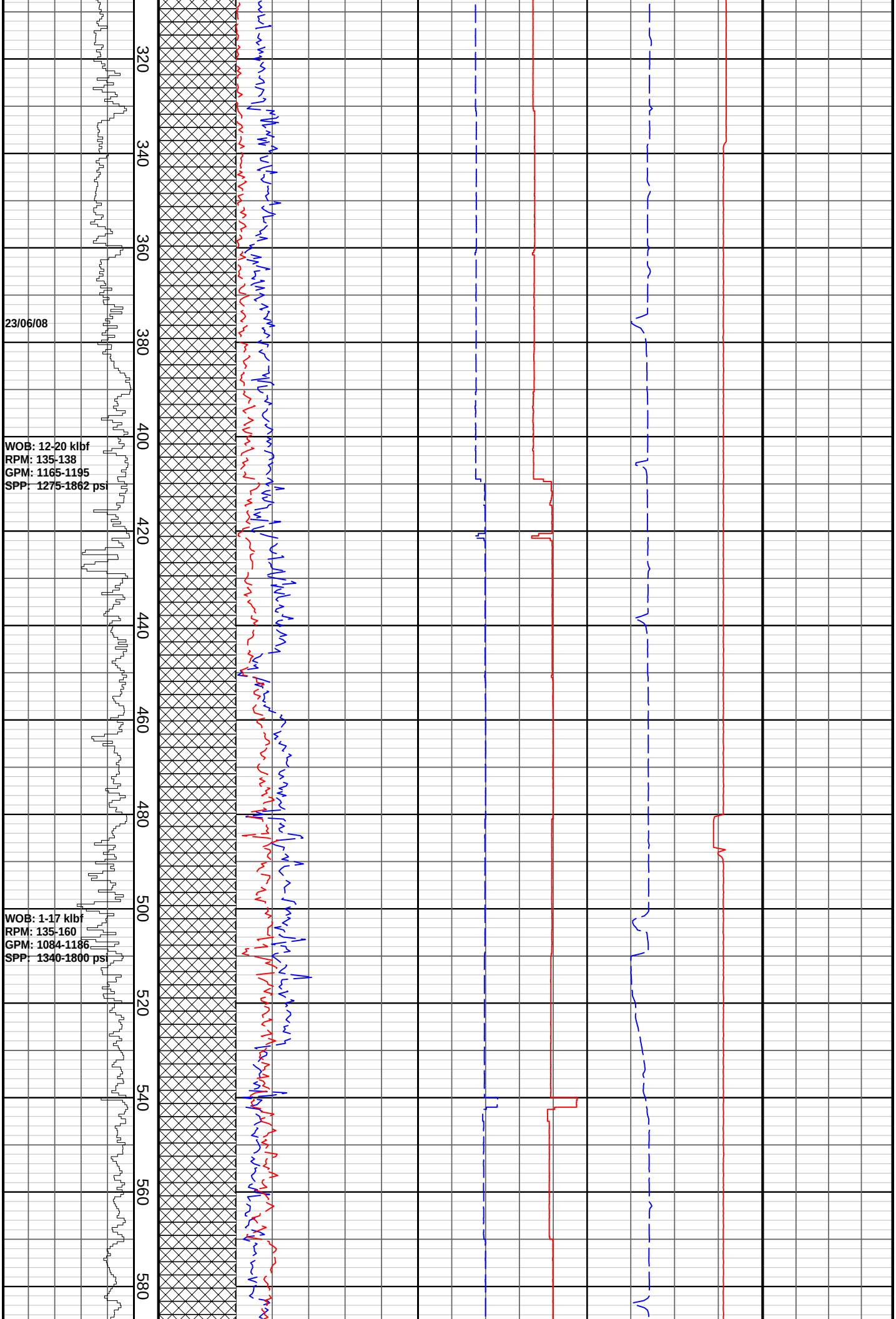
unitless

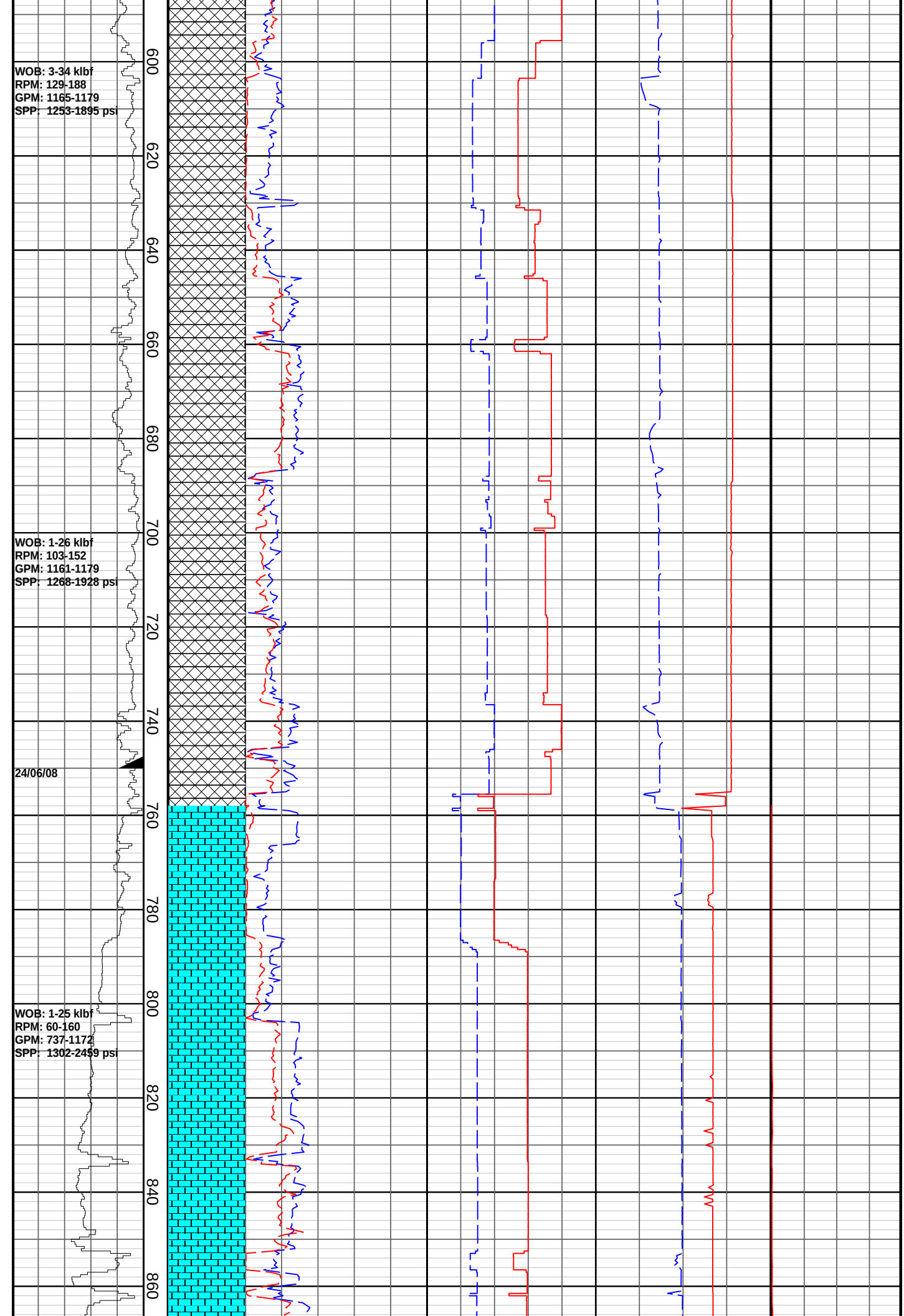
ENCLOSURE 3: DRILLING LOG

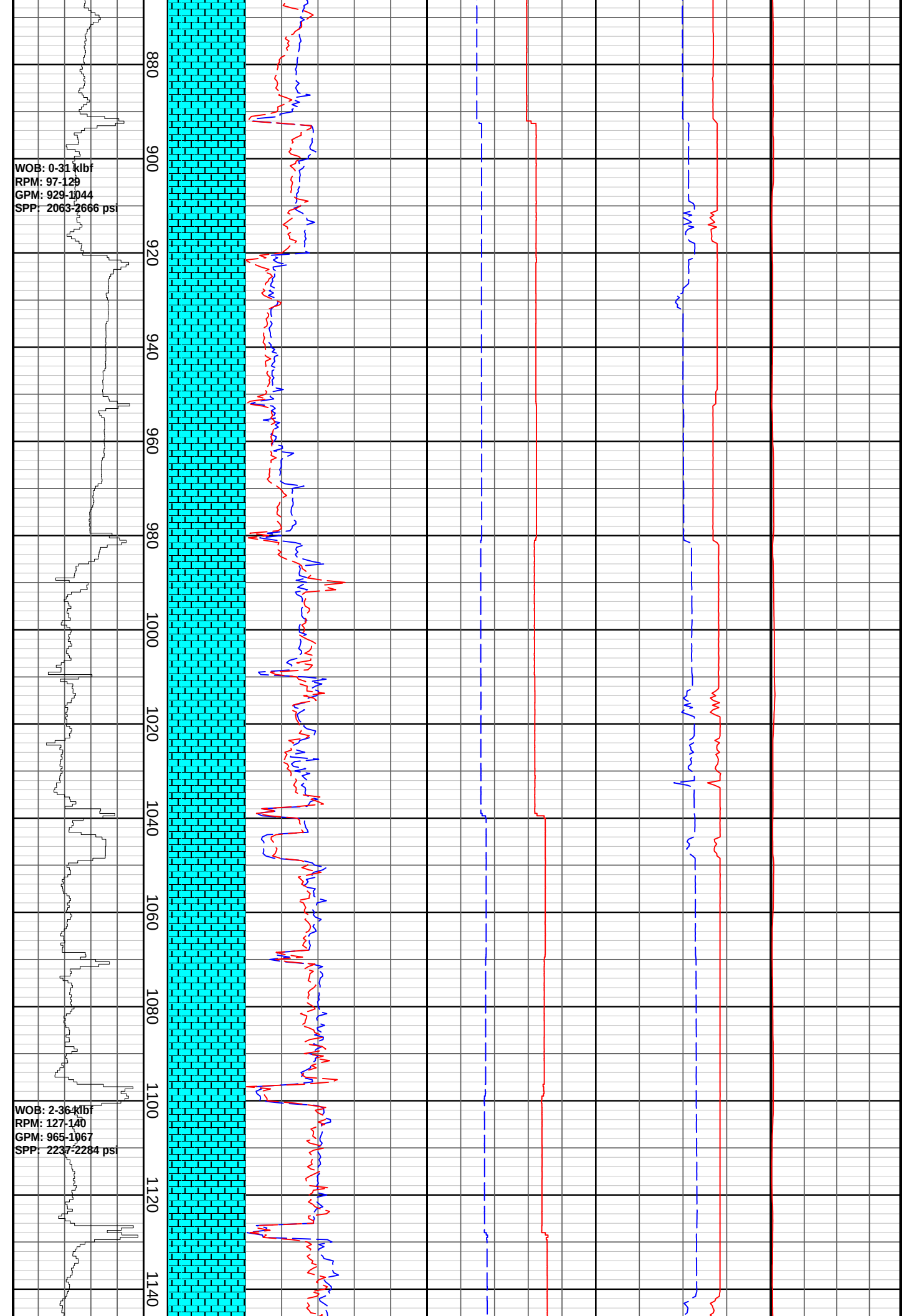
BAKER HUGHES
INTEQ

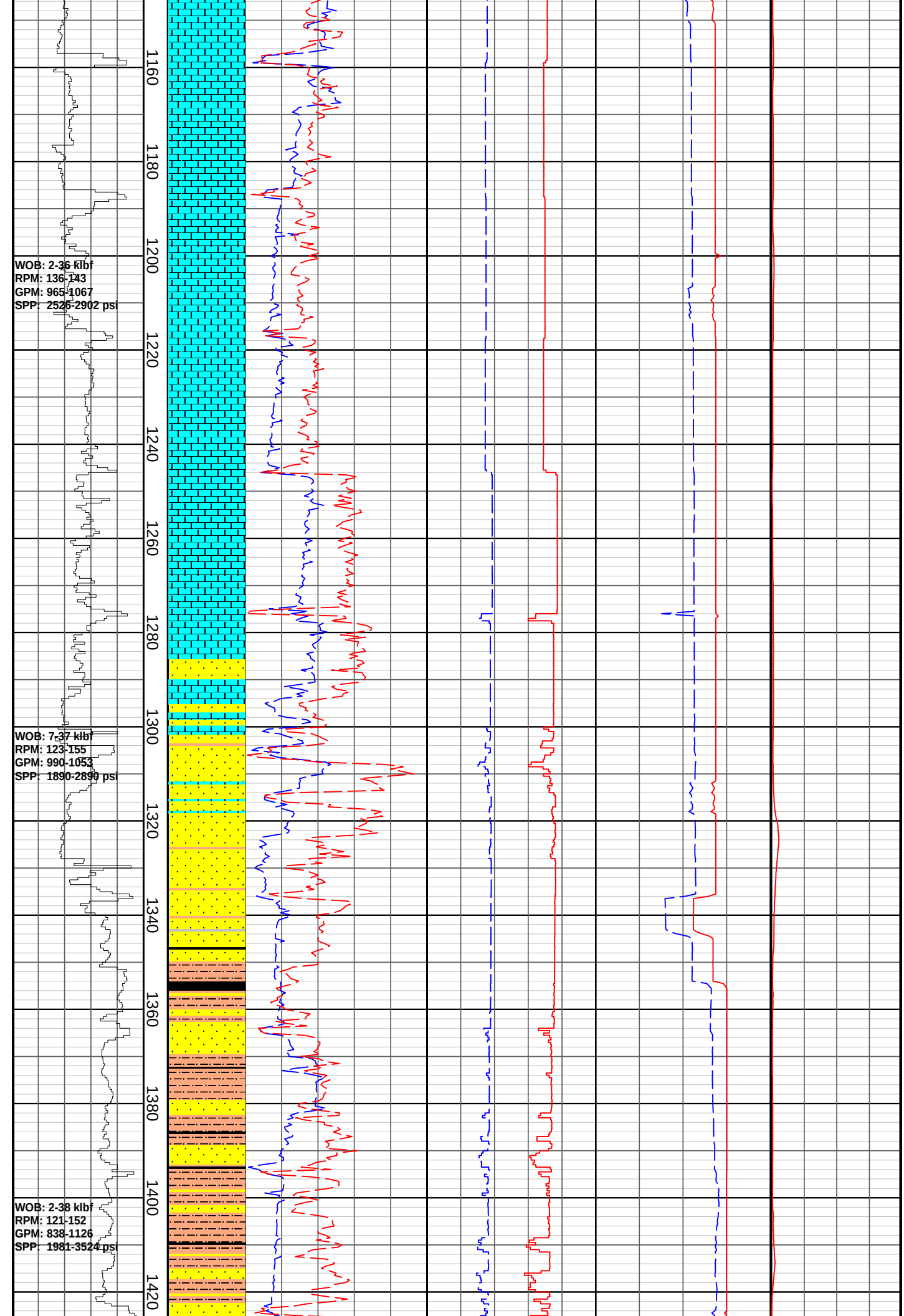
Company : Nexus Energy
Well : Longtom-4
Interval : 89.00 - 2609.62 meters
Created : 23/Jul/2008 4:36:36 AM

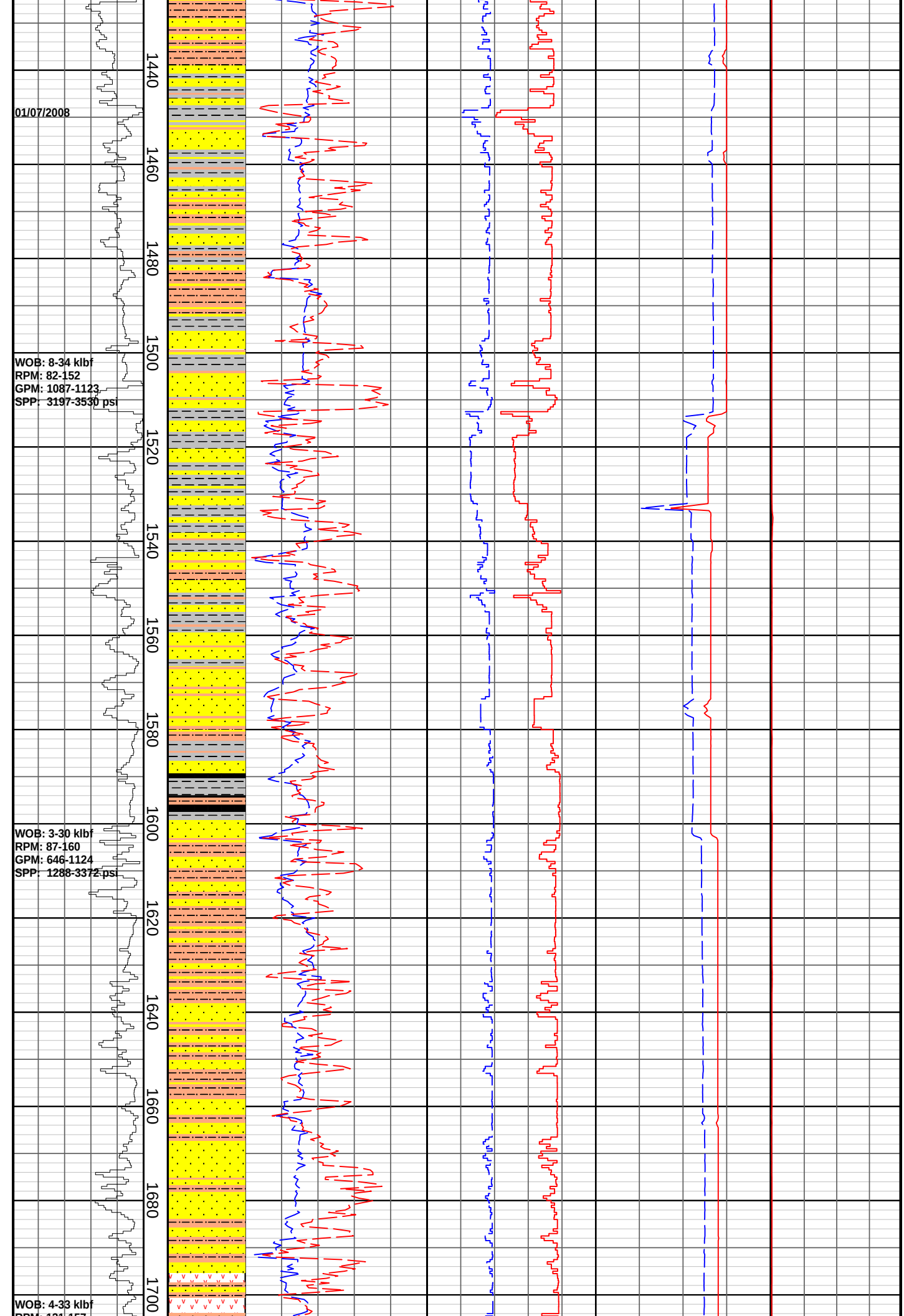


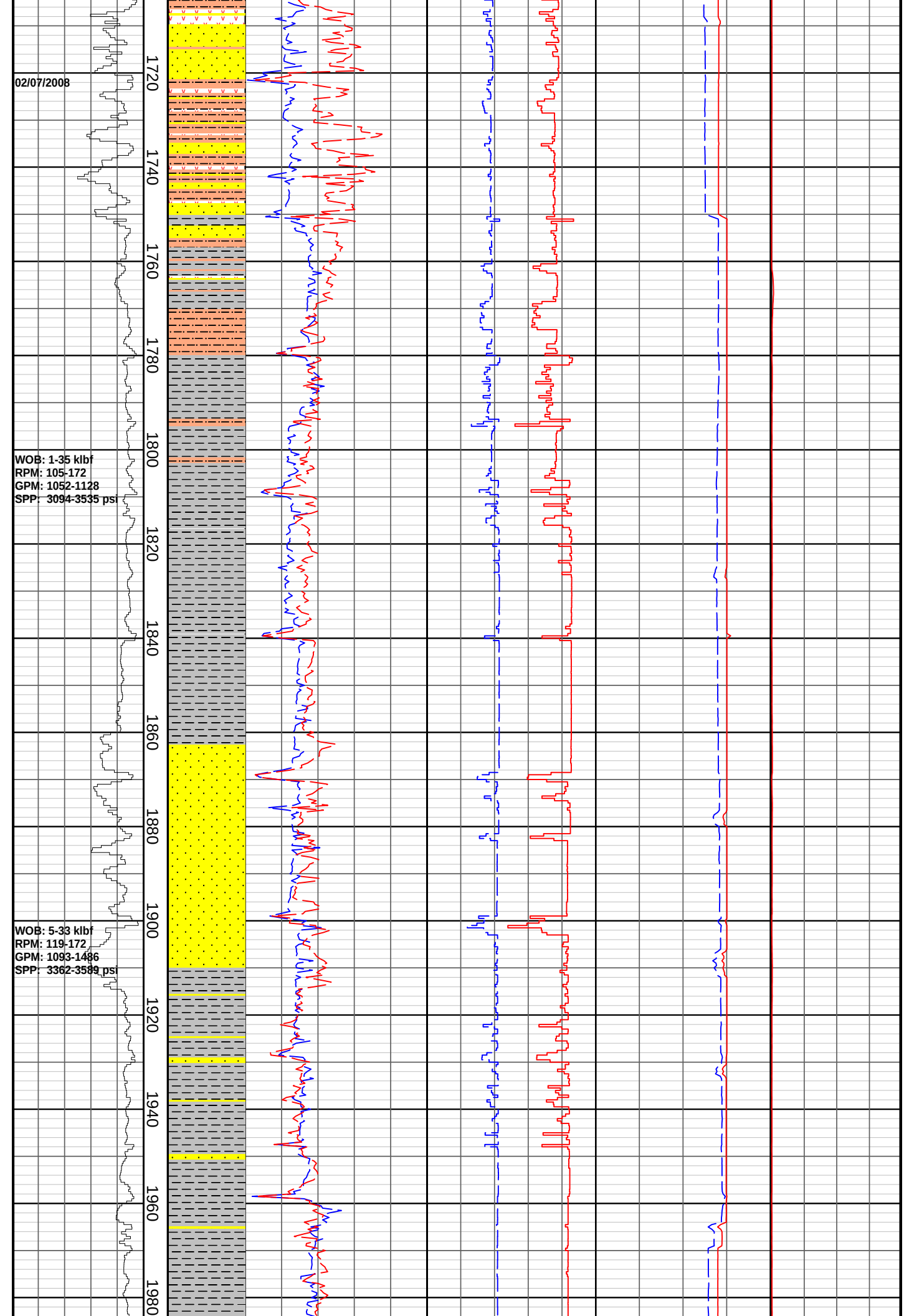

320
340
360
23/06/08
380
400
WOB: 12-20 klbf
RPM: 135-138
GPM: 1165-1195
SPP: 1275-1862 psi
420
440
460
480
500
WOB: 1-17 klbf
RPM: 135-160
GPM: 1084-1186
SPP: 1340-1800 psi
520
540
560
580

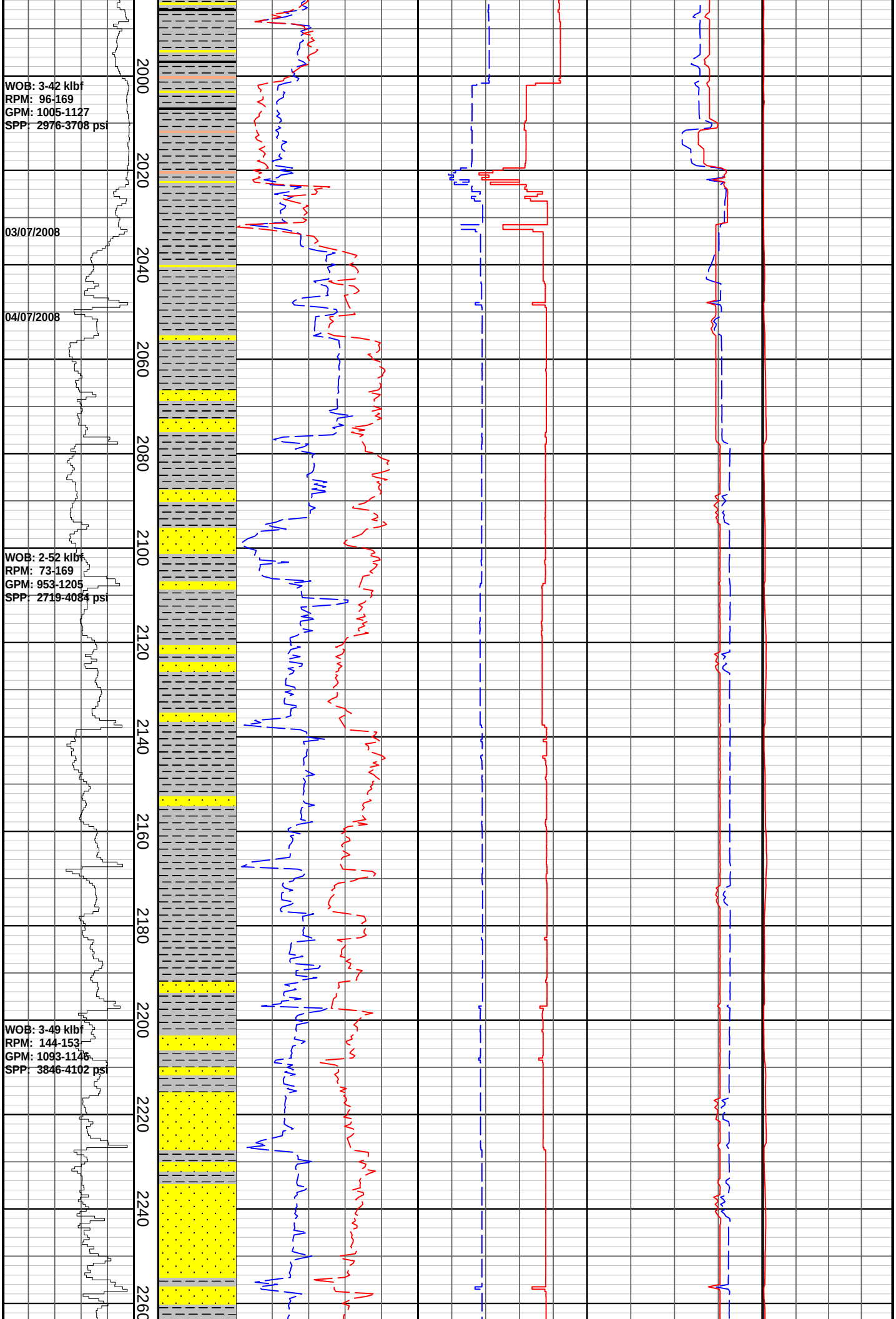

WOB: 3-34 klbf
RPM: 129-188
GPM: 1165-1179
SPP: 1253-1895 psi
WOB: 1-26 klbf
RPM: 103-152
GPM: 1161-1179
SPP: 1268-1928 psi
24/06/08
WOB: 1-25 klbf
RPM: 60-160
GPM: 737-1172
SPP: 1302-2459 psi
600
620
640
660
680
700
720
740
760
780
800
820
840
860

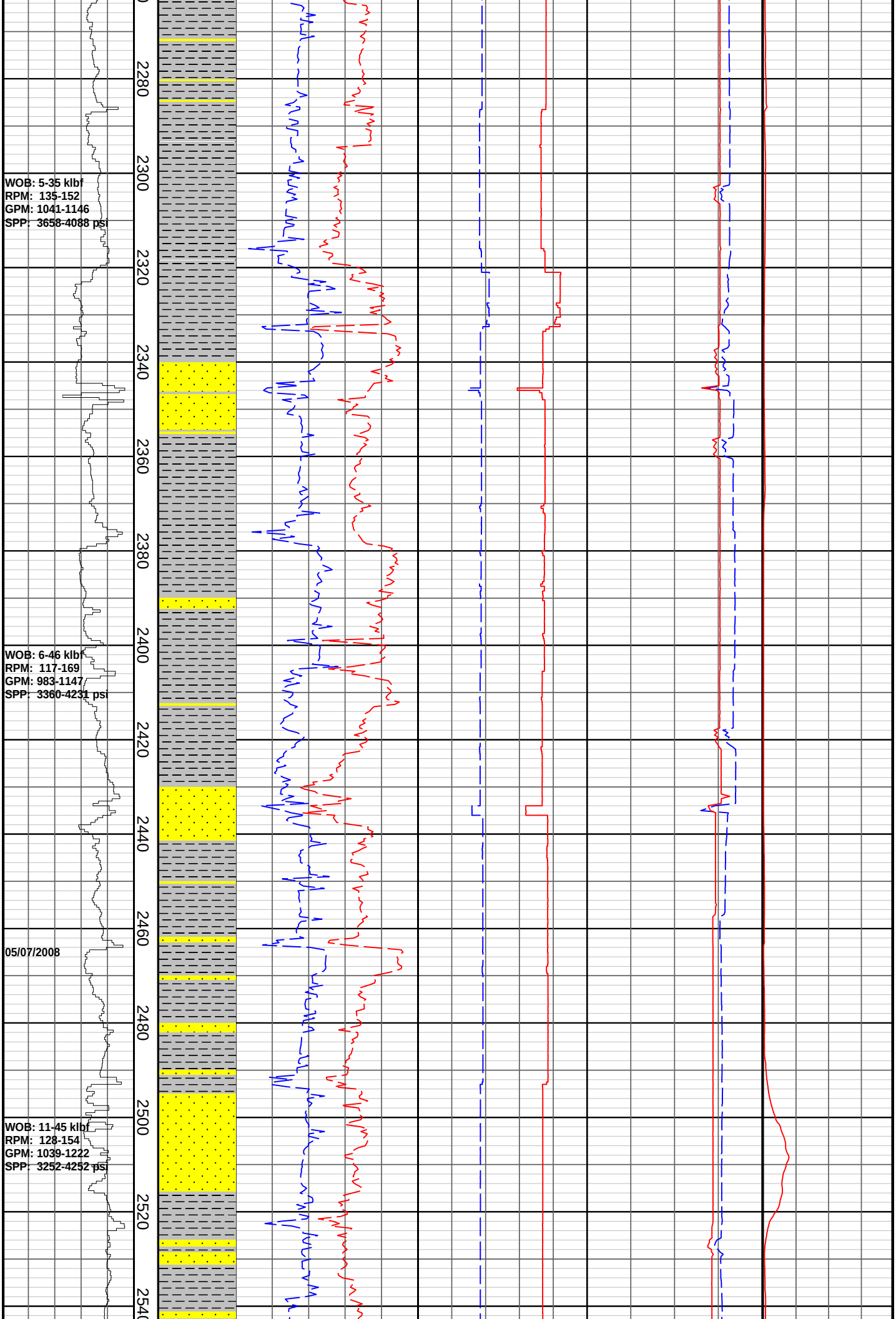

880
900
920
940
960
980
1000
1020
1040
1060
1080
1100
1120
1140
WOB: 0-31 klbf
RPM: 97-129
GPM: 929-1044
SPP: 2063-2666 psi
WOB: 2-36 klbf
RPM: 127-140
GPM: 965-1067
SPP: 2237-2284 psi

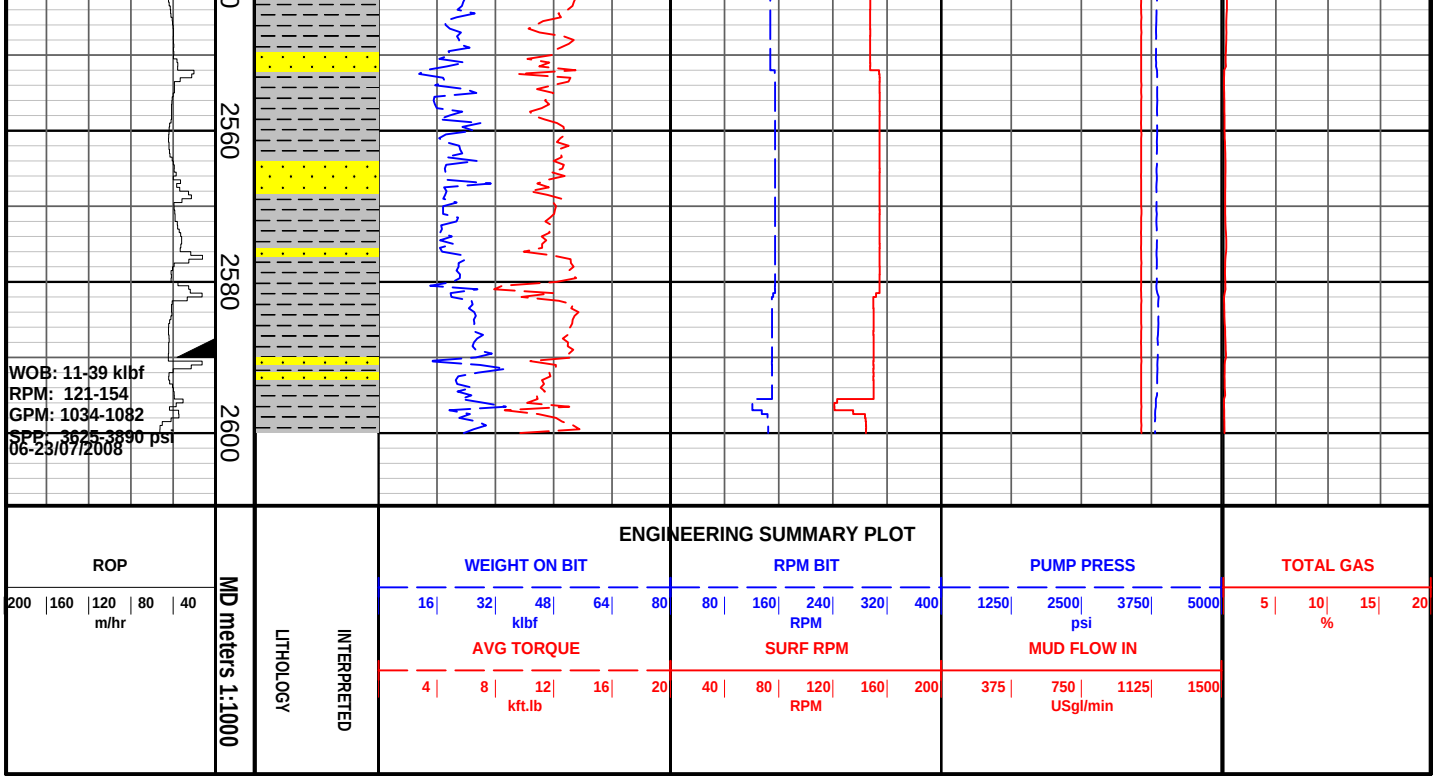

1160
1180
1200
1220
1240
1260
1280
1300
1320
1340
1360
1380
1400
1420
WOB: 2-36 klbf
RPM: 136-143
GPM: 965-1067
SPP: 2525-2902 psi
WOB: 7-37 klbf
RPM: 123-155
GPM: 990-1053
SPP: 1890-2890 psi
WOB: 2-38 klbf
RPM: 121-152
GPM: 838-1126
SPP: 1981-3524 psi


1440
1460
1480
1500
1520
1540
1560
1580
1600
1620
1640
1660
1680
1700
01/07/2008
WOB: 8-34 klbf
RPM: 82-152
GPM: 1087-1123
SPP: 3197-3530 psi
WOB: 3-30 klbf
RPM: 87-160
GPM: 646-1124
SPP: 1288-3372 psi
WOB: 4-33 klbf


02/07/2008
WOB: 1-35 klbf
RPM: 105-172
GPM: 1052-1128
SPP: 3094-3535 psi
WOB: 5-33 klbf
RPM: 119-172
GPM: 1093-1486
SPP: 3362-3589 psi
1720
1740
1760
1780
1800
1820
1840
1860
1880
1900
1920
1940
1960
1980


WOB: 3-42 klbf
RPM: 96-169
GPM: 1005-1127
SPP: 2976-3708 psi
03/07/2008
04/07/2008
WOB: 2-52 klbf
RPM: 73-169
GPM: 953-1205
SPP: 2719-4084 psi
WOB: 3-49 klbf
RPM: 144-153
GPM: 1093-1146
SPP: 3846-4102 psi
2000
2020
2040
2060
2080
2100
2120
2140
2160
2180
2200
2220
2240
2260


2280
2300
2320
2340
2360
2380
2400
2420
2440
2460
2480
2500
2520
2540
WOB: 5-35 klbf
RPM: 135-152
GPM: 1041-1146
SPP: 3658-4088 psi
WOB: 6-46 klbf
RPM: 117-169
GPM: 983-1147
SPP: 3360-4231 psi
05/07/2008
WOB: 11-45 klbf
RPM: 128-154
GPM: 1039-1222
SPP: 3252-4252 psi



ENGINEERING SUMMARY PLOT

ROP
200 | 160 | 120 | 80 | 40
m/hr

MD meters 1:1000

LITHOLOGY

INTERPRETED

WEIGHT ON BIT
16 | 32 | 48 | 64 | 80
klbf

AVG TORQUE
4 | 8 | 12 | 16 | 20
kft.lb

RPM BIT
80 | 160 | 240 | 320 | 400
RPM

SURF RPM
40 | 80 | 120 | 160 | 200
RPM

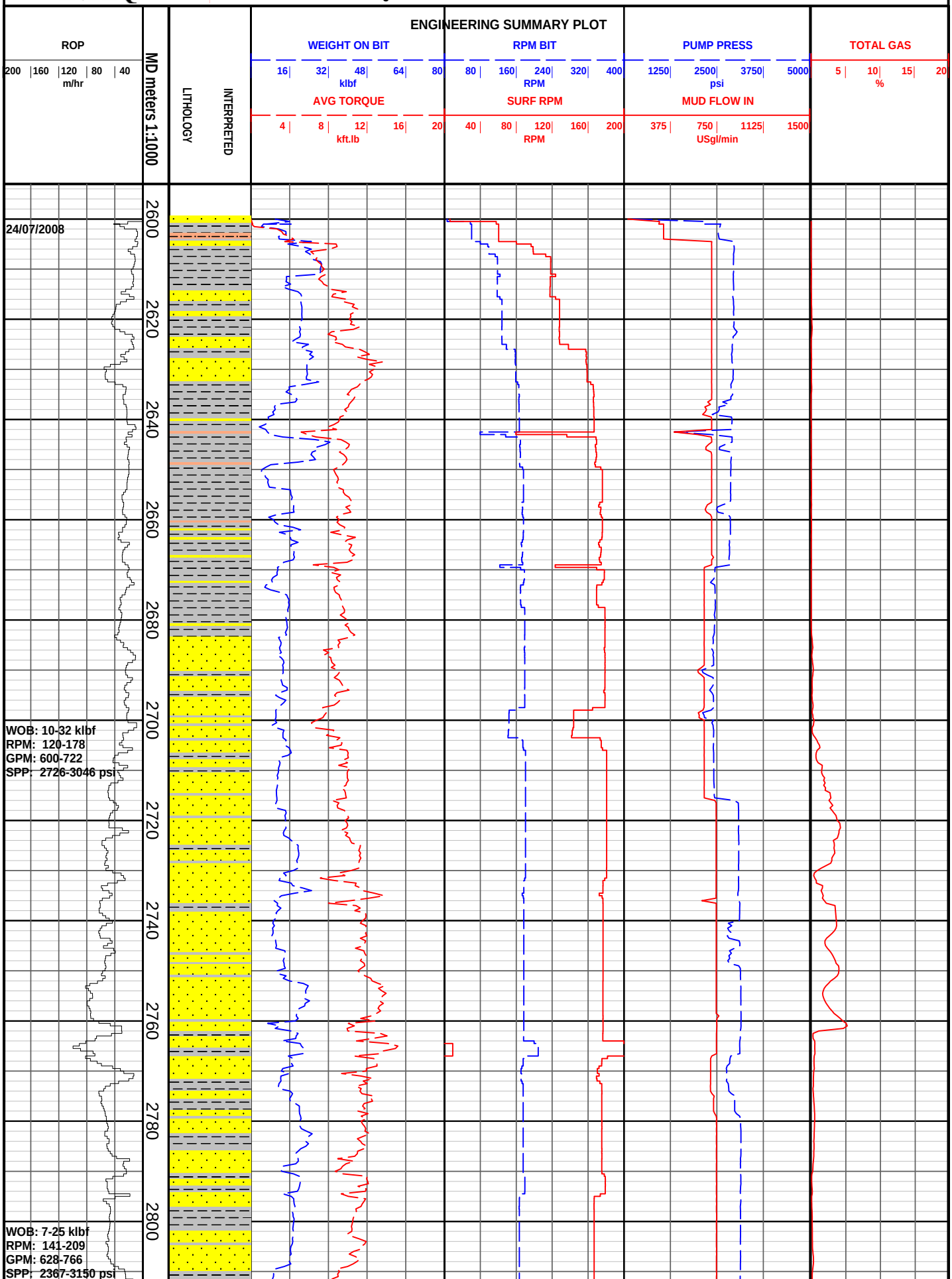
PUMP PRESS
1250 | 2500 | 3750 | 5000
psi

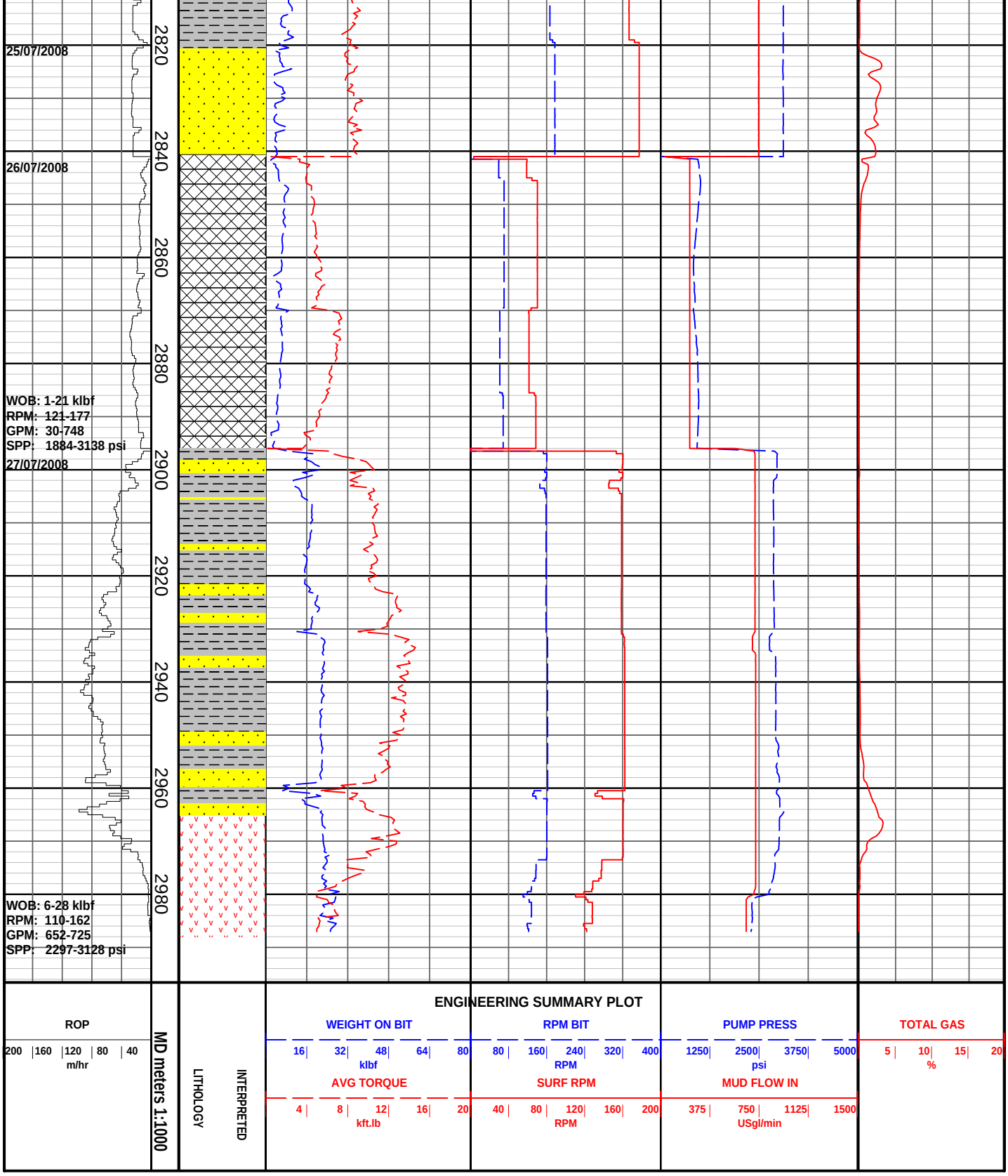
MUD FLOW IN
375 | 750 | 1125 | 1500
USgl/min

TOTAL GAS
5 | 10 | 15 | 20
%

BAKER HUGHES
INTEQ

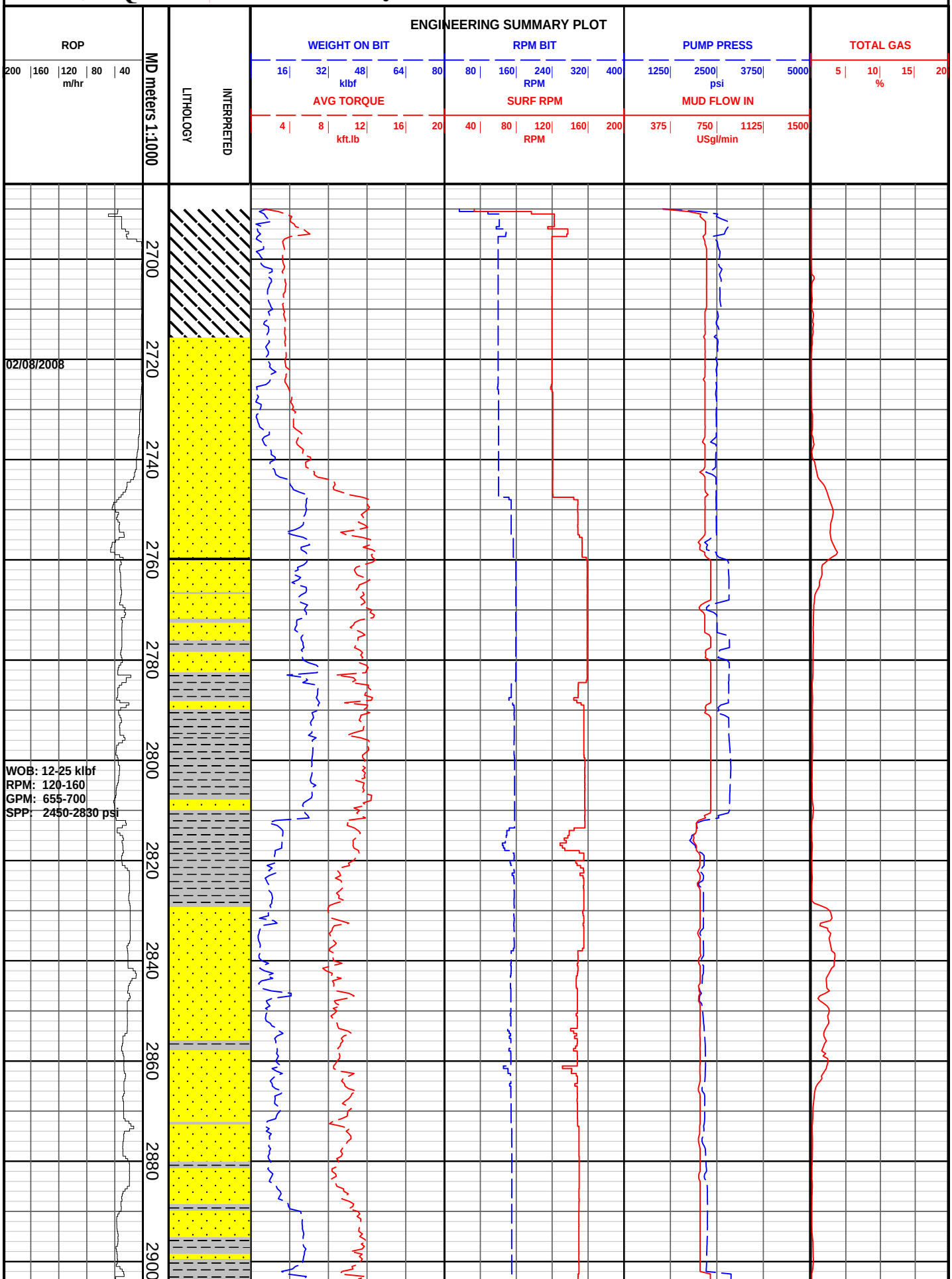
Company : Nexus Energy
Well : Longtom-4
Interval : 2593.00 - 2996.62 meters
Created : 01/Aug/2008 3:40:15 AM

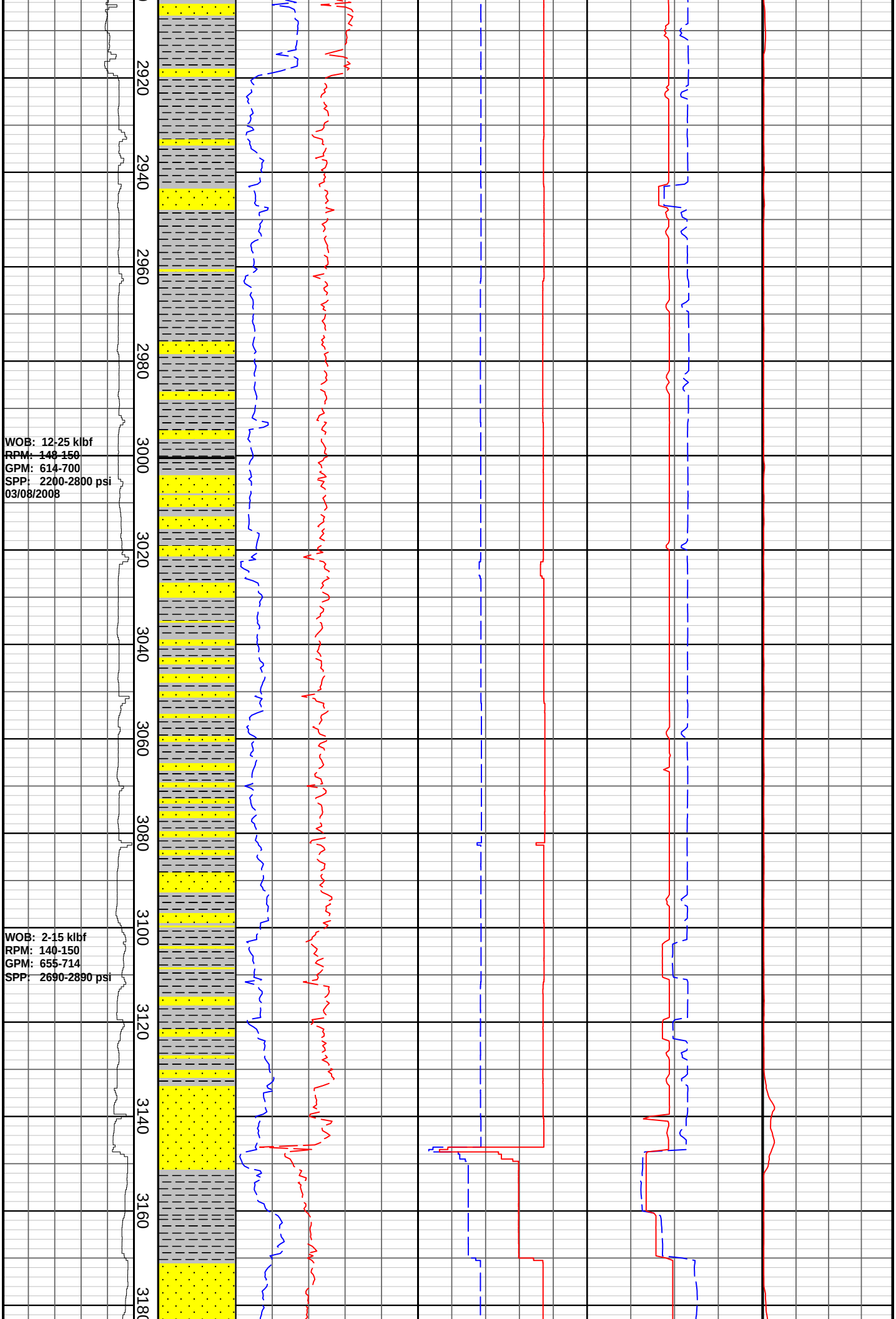


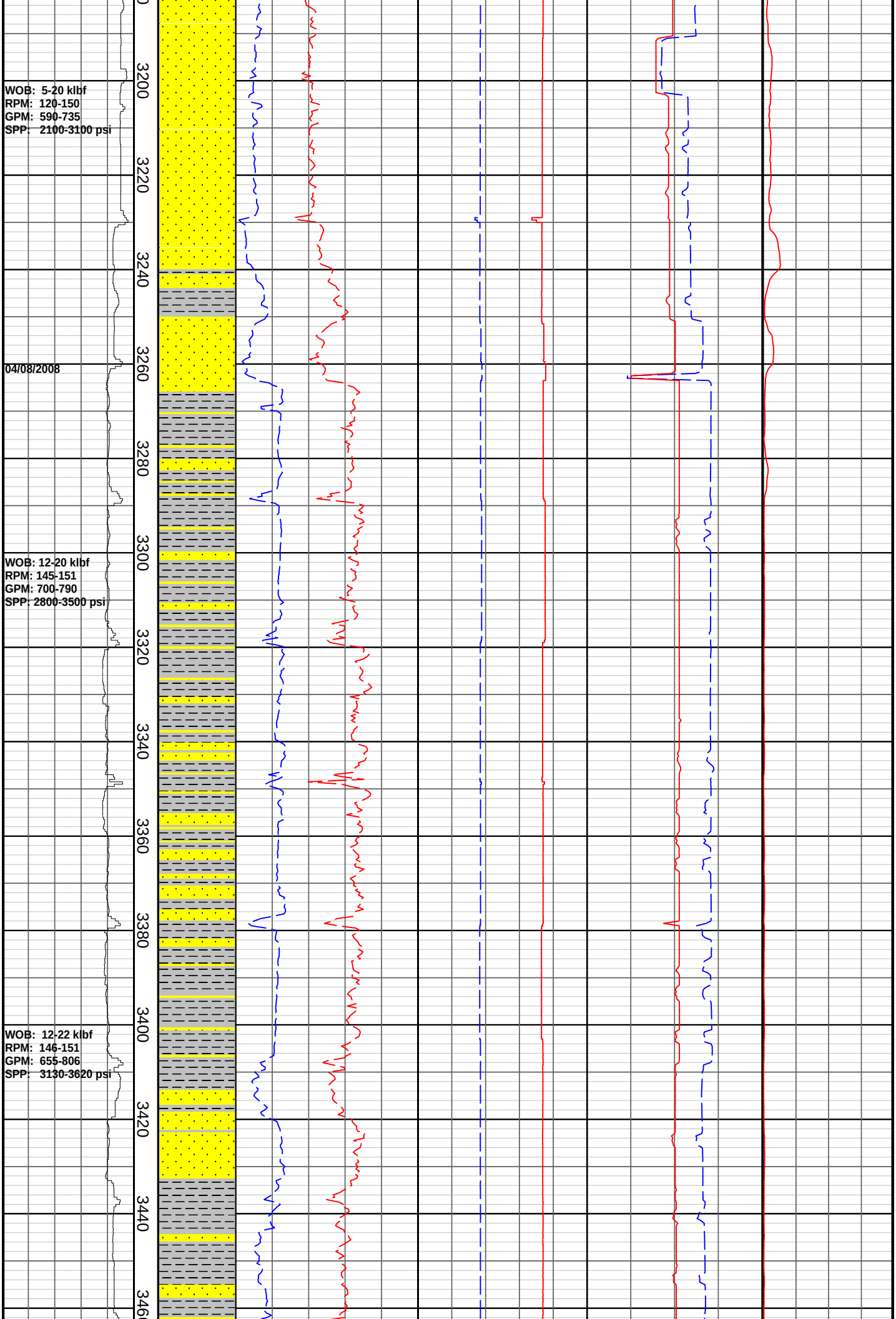

25/07/2008
26/07/2008
WOB: 1-21 klbf
RPM: 121-177
GPM: 30-748
SPP: 1884-3138 psi
27/07/2008
WOB: 6-28 klbf
RPM: 110-162
GPM: 652-725
SPP: 2297-3128 psi
2820
2840
2860
2880
2900
2920
2940
2960
2980
ENGINEERING SUMMARY PLOT
ROP
200 160 120 80 40
m/hr
MD meters 1:1000
LITHOLOGY
INTERPRETED
WEIGHT ON BIT
16 32 48 64 80
klbf
AVG TORQUE
4 8 12 16 20
kft.lb
RPM BIT
80 160 240 320 400
RPM
SURF RPM
40 80 120 160 200
RPM
PUMP PRESS
1250 2500 3750 5000
psi
MUD FLOW IN
375 750 1125 1500
USgl/min
TOTAL GAS
5 10 15 20
%

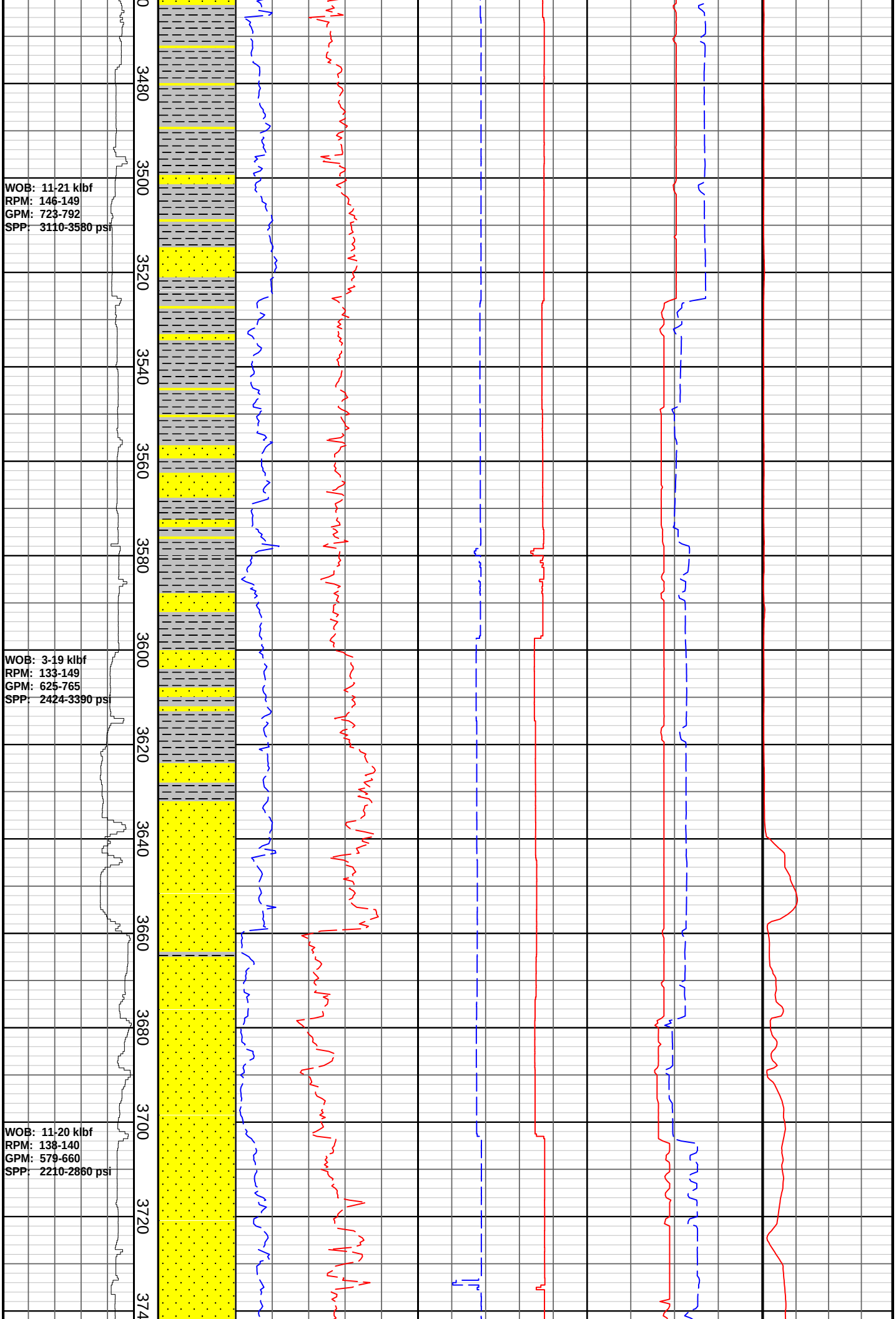
BAKER HUGHES
INTEQ

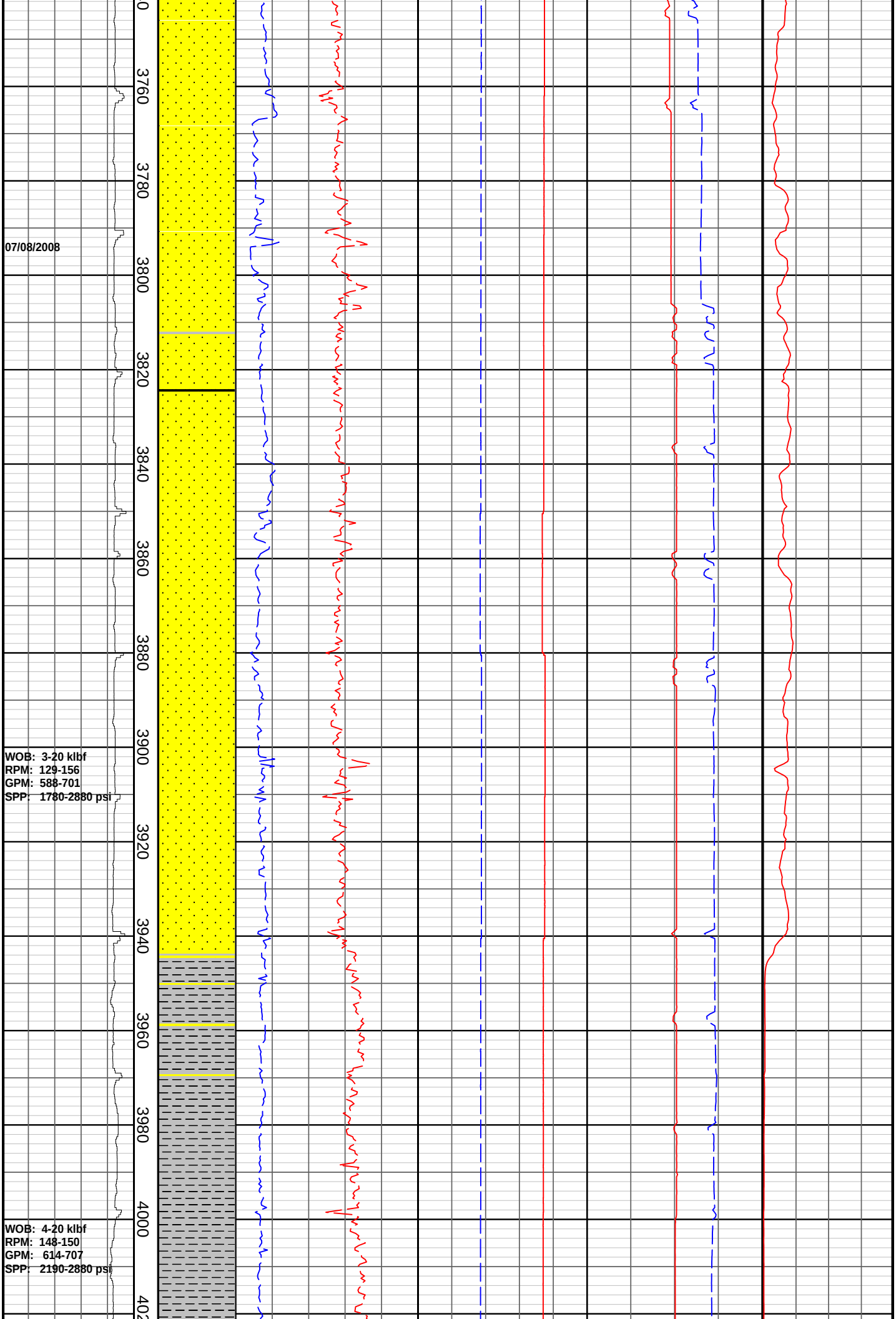
Company : Nexus Energy
Well : Longtom-4 H
Interval : 2685.00 - 4651.60 meters
Created : 14/Aug/2008 6:14:51 AM

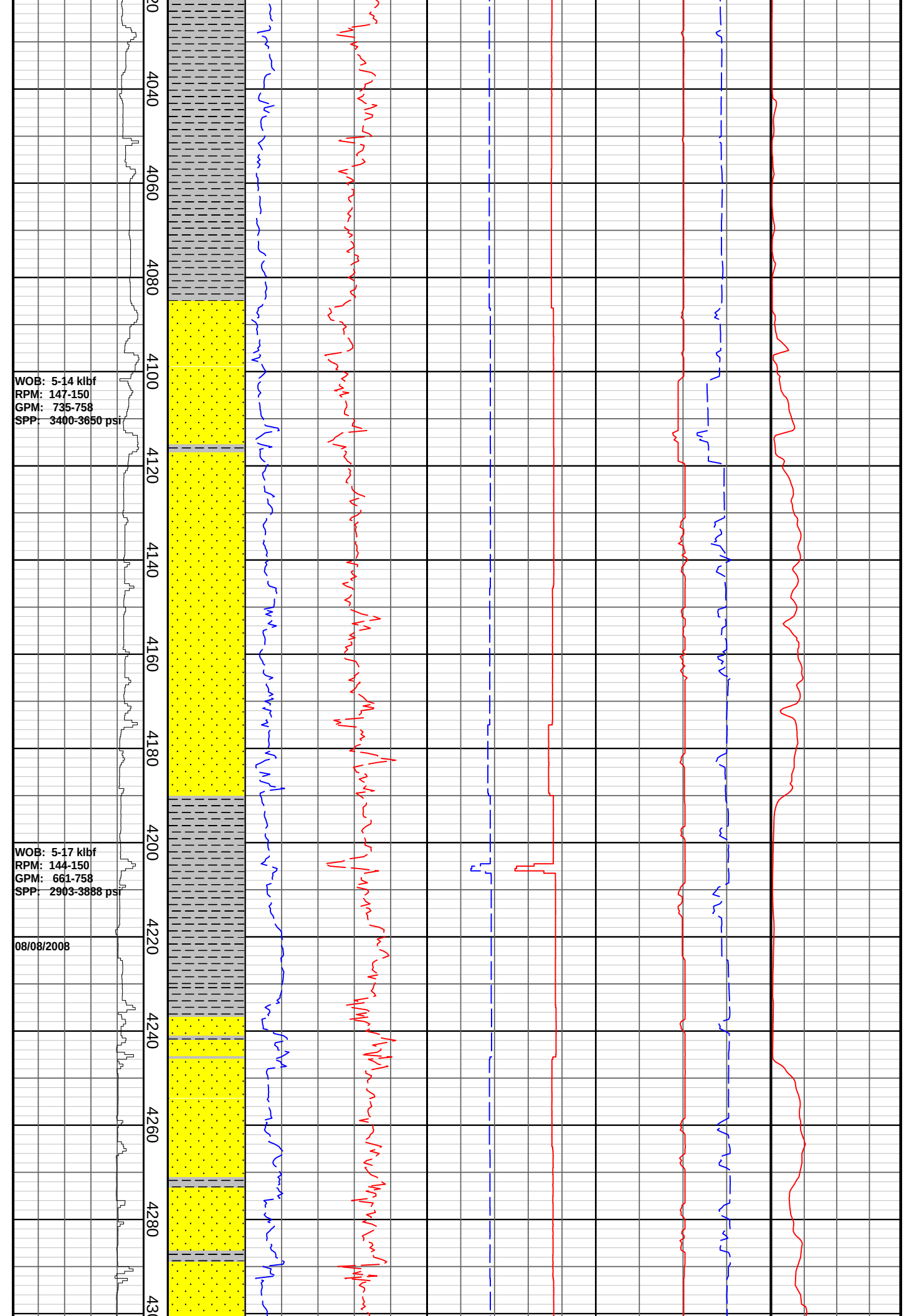


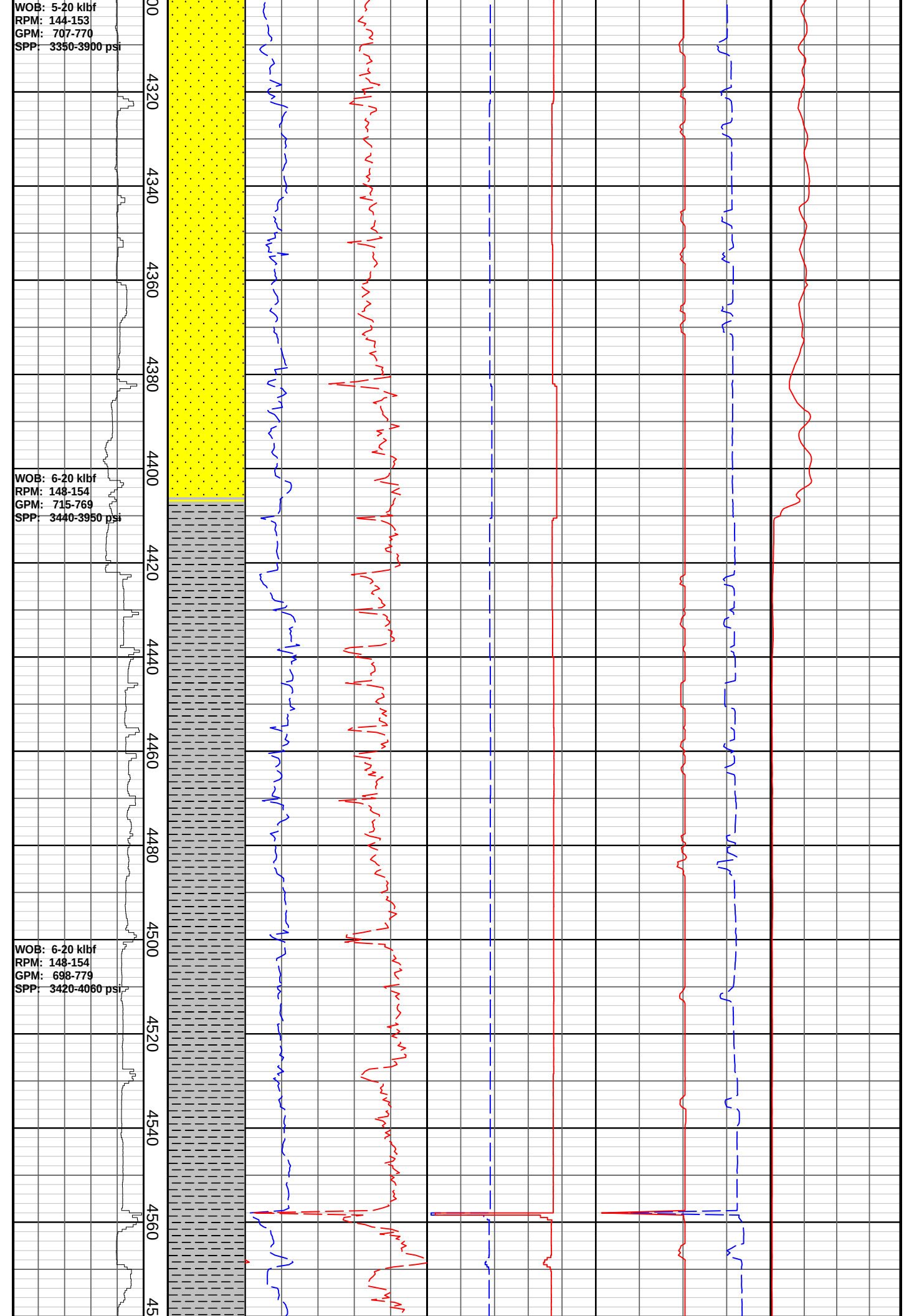

2920
2940
2960
2980
3000
3020
3040
3060
3080
3100
3120
3140
3160
3180
WOB: 12-25 klbf
RPM: 148-150
GPM: 614-700
SPP: 2200-2800 psi
03/08/2008
WOB: 2-15 klbf
RPM: 140-150
GPM: 655-714
SPP: 2690-2890 psi

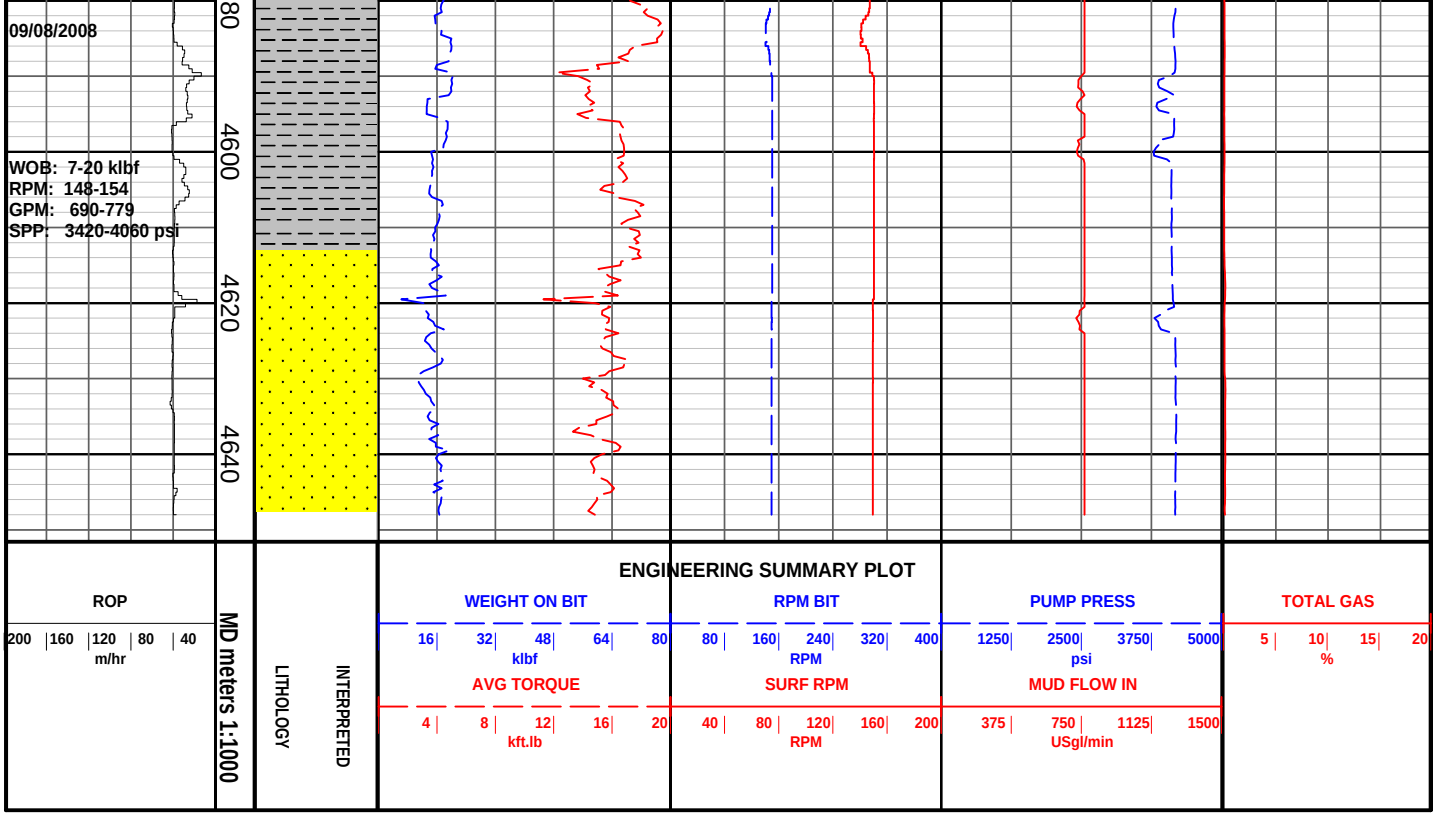

WOB: 5-20 klbf
RPM: 120-150
GPM: 590-735
SPP: 2100-3100 psi
04/08/2008
WOB: 12-20 klbf
RPM: 145-151
GPM: 700-790
SPP: 2800-3500 psi
WOB: 12-22 klbf
RPM: 146-151
GPM: 655-806
SPP: 3130-3620 psi
3200
3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420
3440


3480
3500
3520
3540
3560
3580
3600
3620
3640
3660
3680
3700
3720
WOB: 11-21 klbf
RPM: 146-149
GPM: 723-792
SPP: 3110-3580 psi
WOB: 3-19 klbf
RPM: 133-149
GPM: 625-765
SPP: 2424-3390 psi
WOB: 11-20 klbf
RPM: 138-140
GPM: 579-660
SPP: 2210-2860 psi


3760
3780
3800
3820
3840
3860
3880
3900
3920
3940
3960
3980
4000
07/08/2008
WOB: 3-20 klbf
RPM: 129-156
GPM: 588-701
SPP: 1780-2880 psi
WOB: 4-20 klbf
RPM: 148-150
GPM: 614-707
SPP: 2190-2880 psi


4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240
4260
4280
WOB: 5-14 klbf
RPM: 147-150
GPM: 735-758
SPP: 3400-3650 psi
WOB: 5-17 klbf
RPM: 144-150
GPM: 661-758
SPP: 2903-3888 psi
08/08/2008


WOB: 5-20 klbf
RPM: 144-153
GPM: 707-770
SPP: 3350-3900 psi
WOB: 6-20 klbf
RPM: 148-154
GPM: 715-769
SPP: 3440-3950 psi
WOB: 6-20 klbf
RPM: 148-154
GPM: 698-779
SPP: 3420-4060 psi
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500
4520
4540
4560

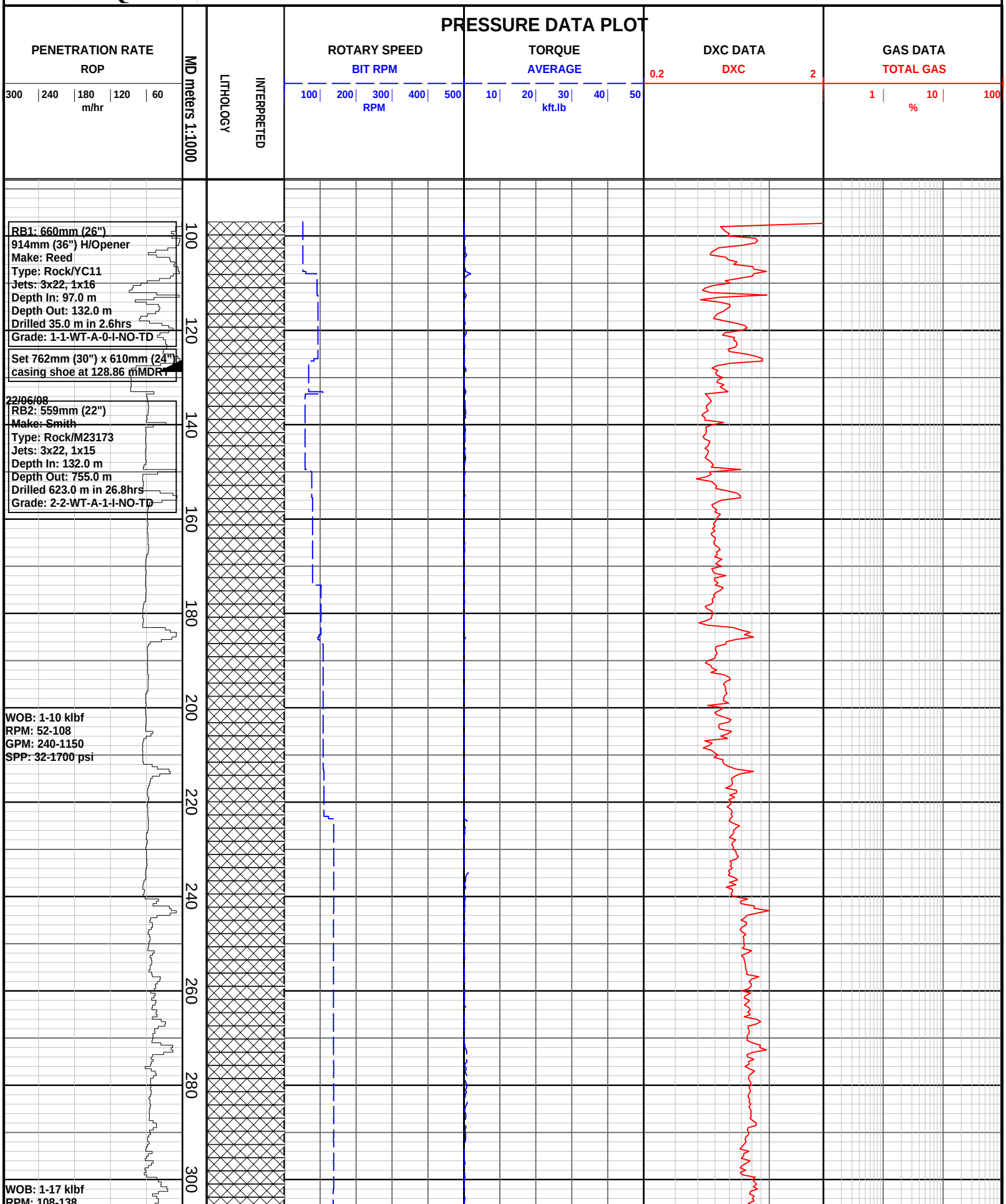

09/08/2008
WOB: 7-20 klbf
RPM: 148-154
GPM: 690-779
SPP: 3420-4060 psi
4580
4600
4620
4640
ENGINEERING SUMMARY PLOT
ROP
200 160 120 80 40
m/hr
MD meters 1:1000
LITHOLOGY
INTERPRETED
WEIGHT ON BIT
16 32 48 64 80
klbf
AVG TORQUE
4 8 12 16 20
kft.lb
RPM BIT
80 160 240 320 400
RPM
SURF RPM
40 80 120 160 200
RPM
PUMP PRESS
1250 2500 3750 5000
psi
MUD FLOW IN
375 750 1125 1500
USgl/min
TOTAL GAS
5 10 15 20
%

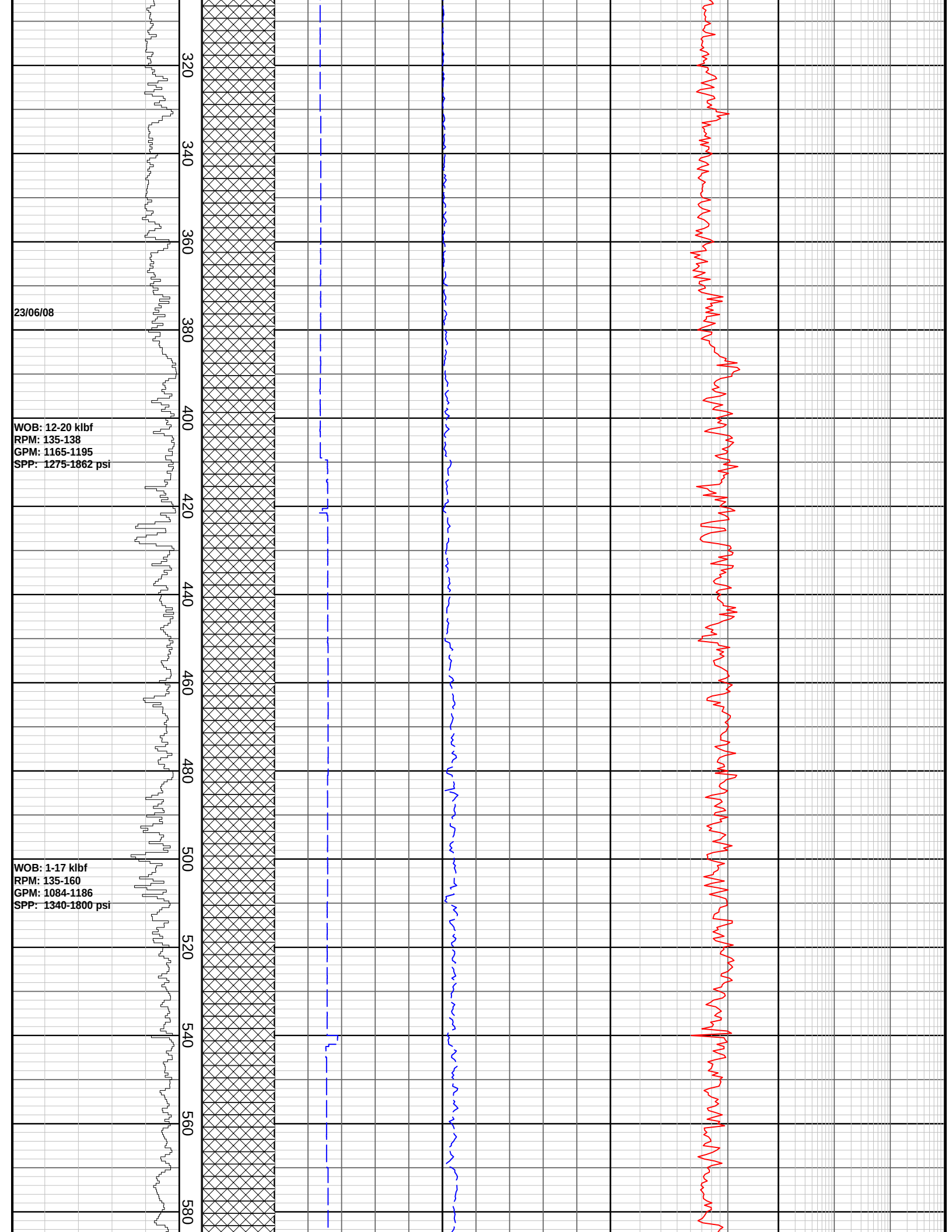
ENCLOSURE 4: PRESSURE LOG

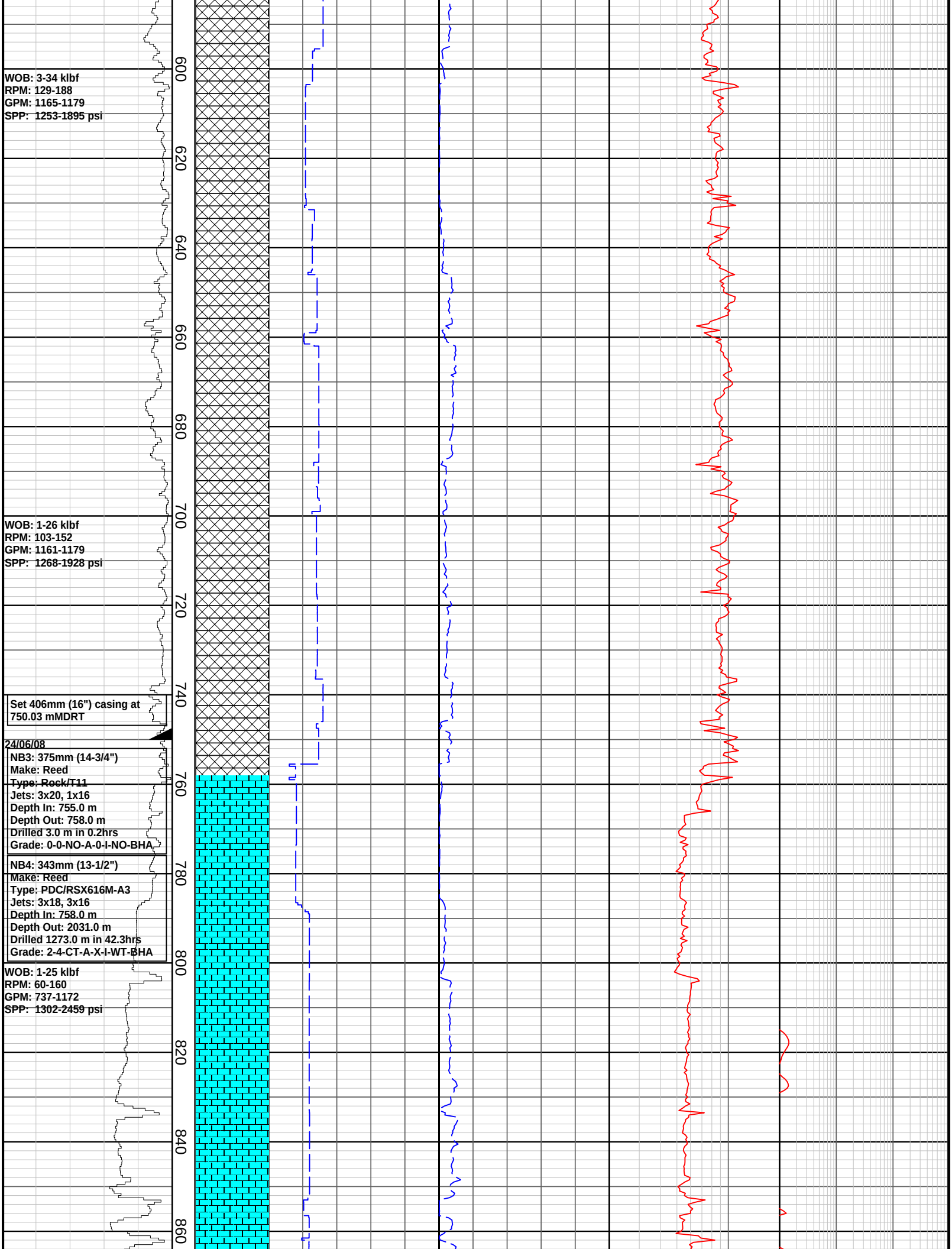
BAKER HUGHES
INTEQ

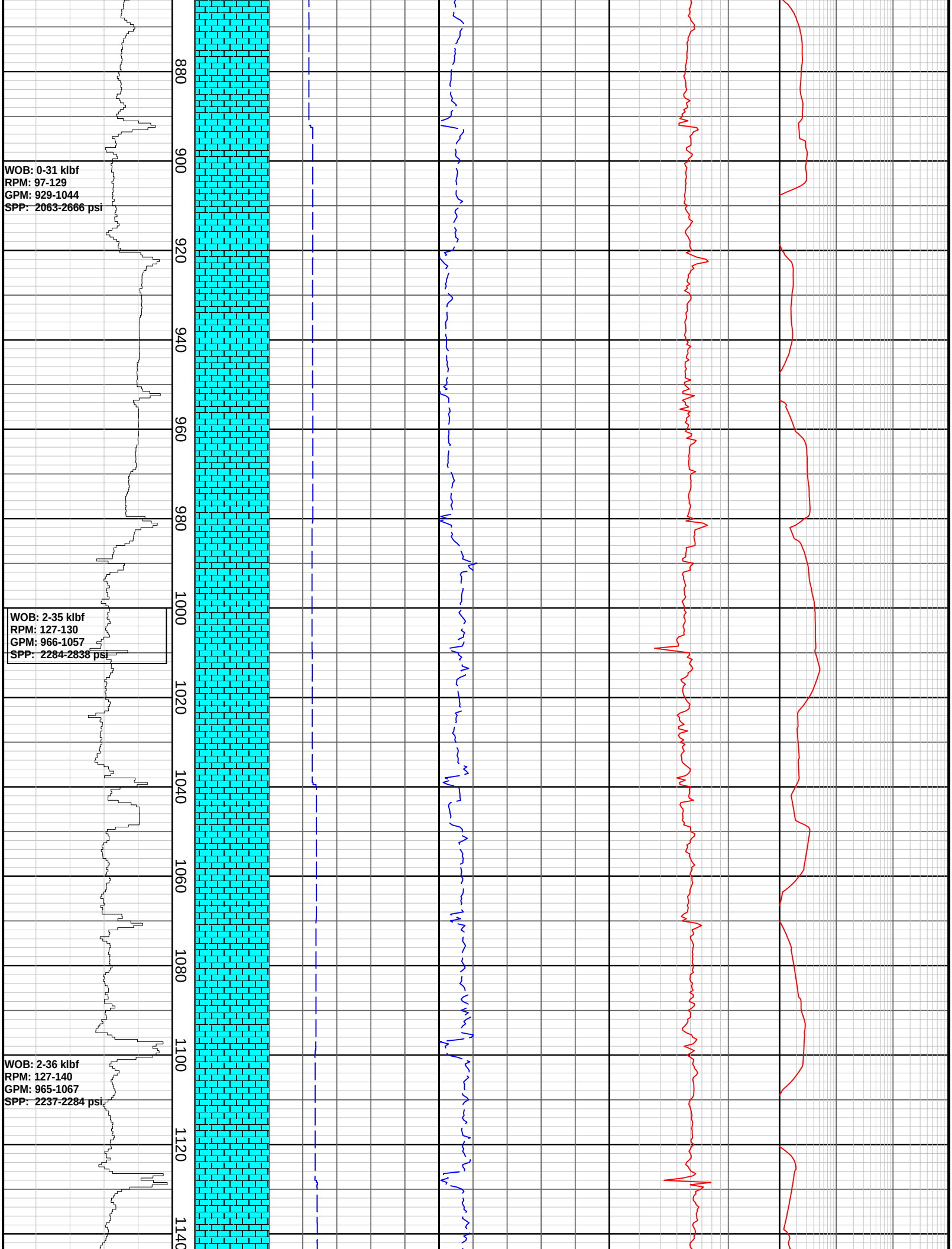
Company : Nexus Energy
Well : Longtom-4
Interval : 88.00 - 2611.79 meters
Created : 23/Jul/2008 4:36:36 AM

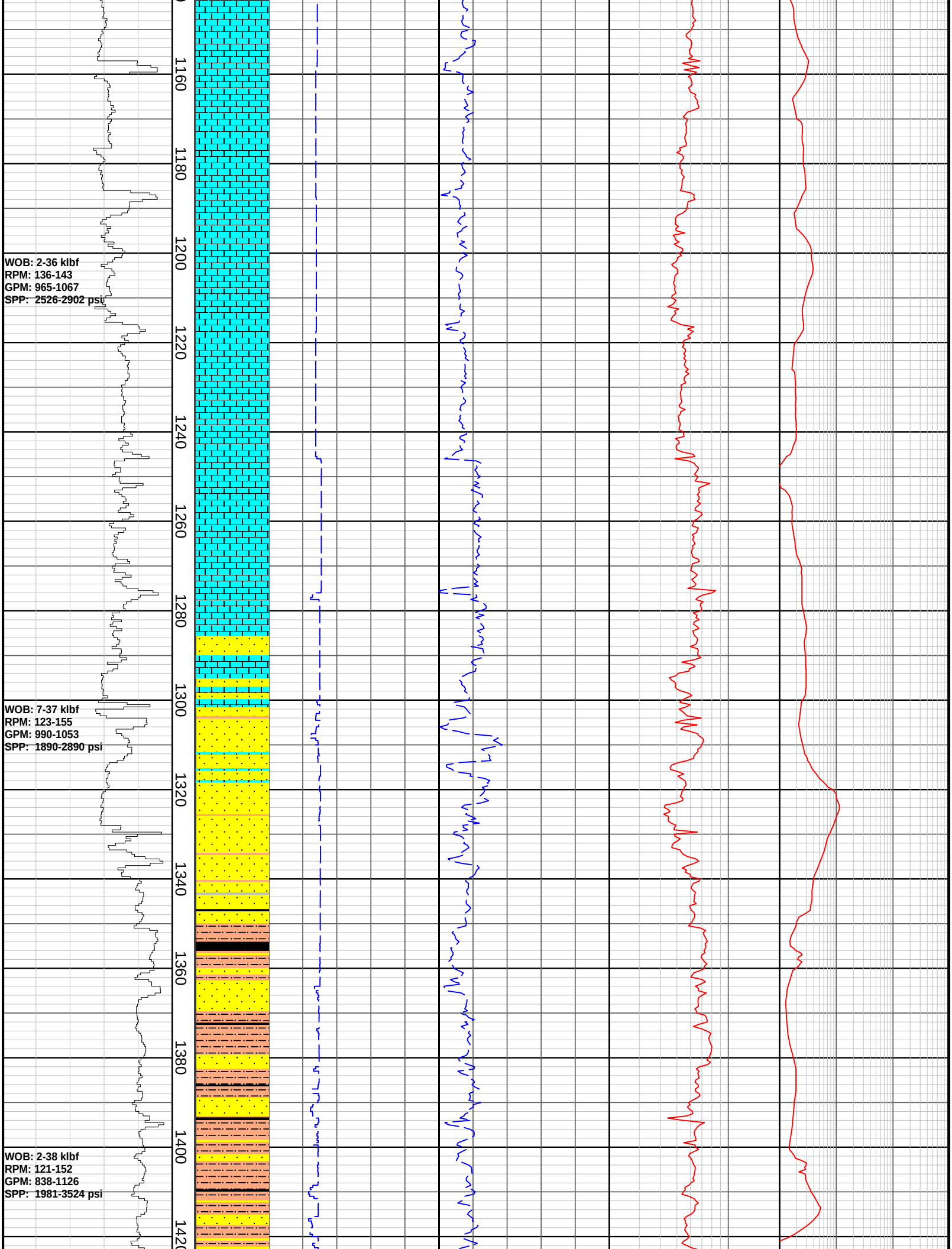
PRESSURE DATA PLOT

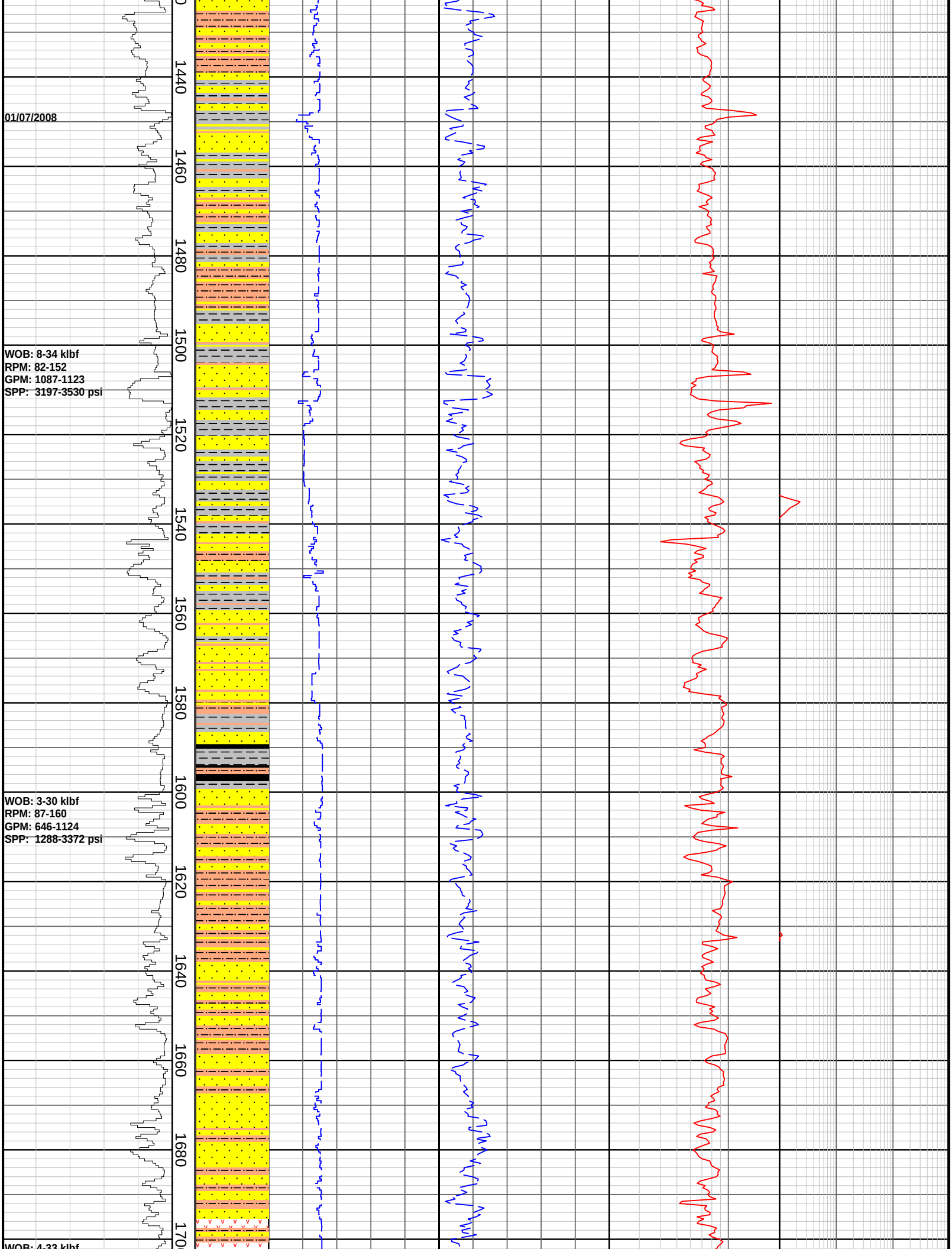


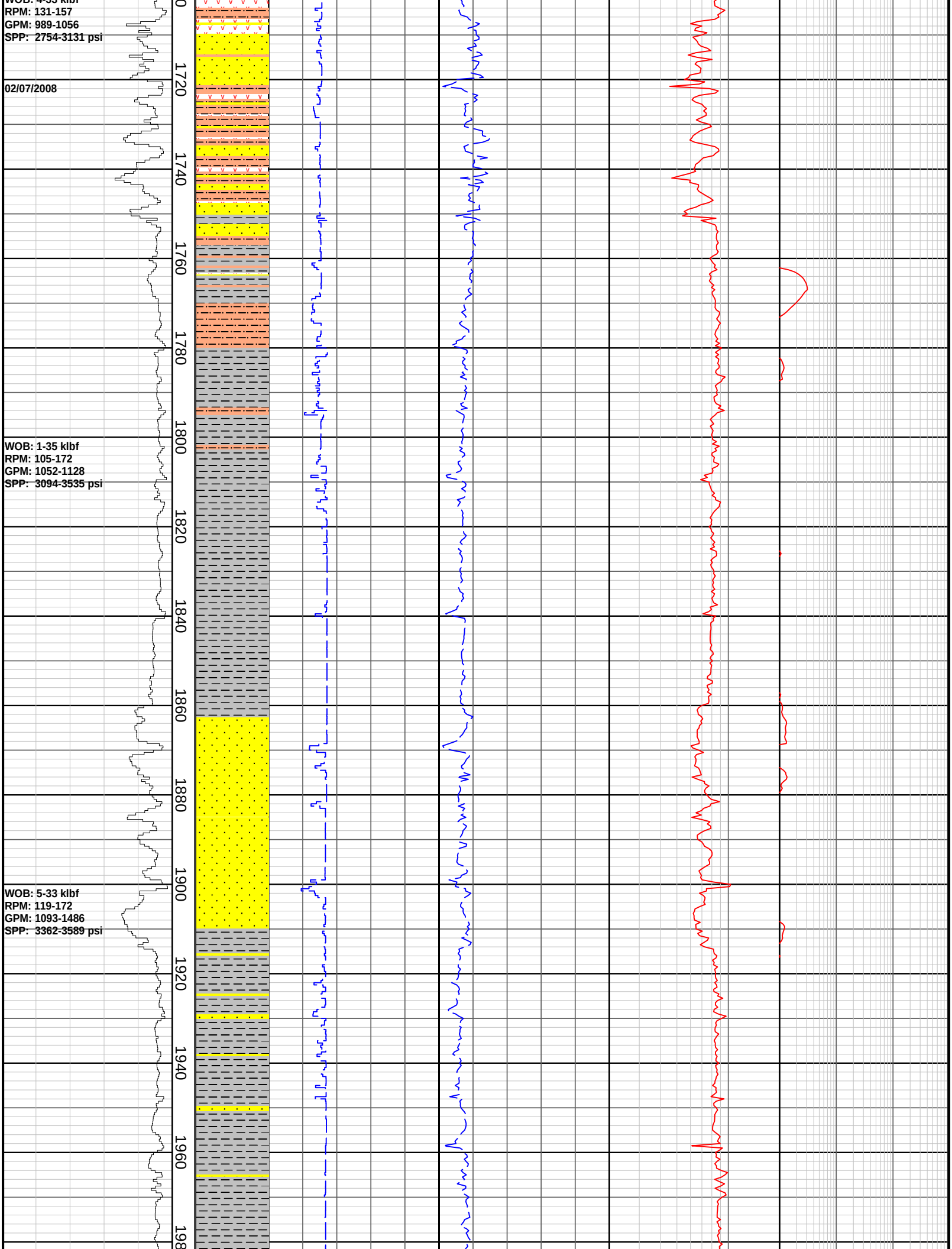

320
340
360
23/06/08
380
400
WOB: 12-20 klbf
RPM: 135-138
GPM: 1165-1195
SPP: 1275-1862 psi
420
440
460
480
500
WOB: 1-17 klbf
RPM: 135-160
GPM: 1084-1186
SPP: 1340-1800 psi
520
540
560
580

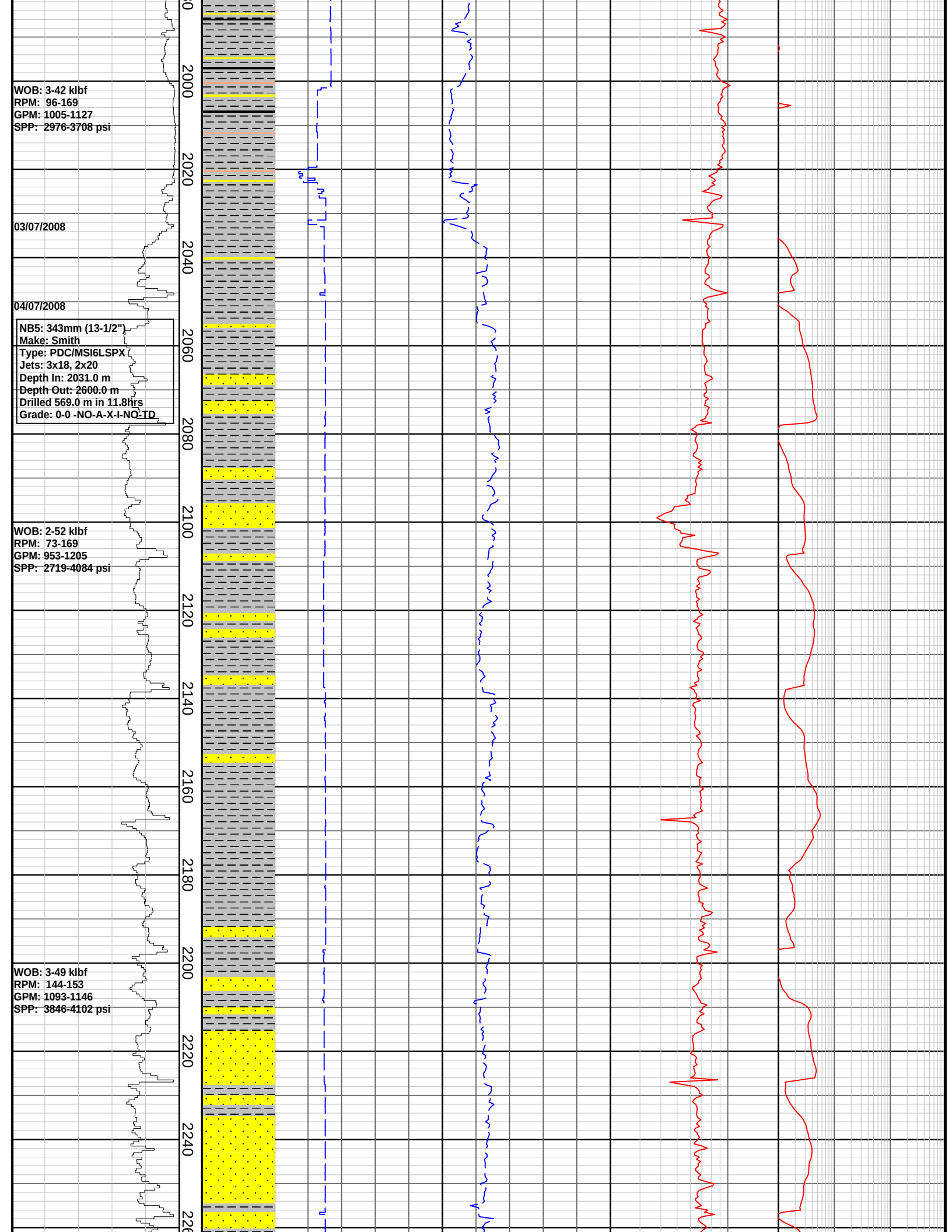

600
620
640
660
680
700
720
740
760
780
800
820
840
860
WOB: 3-34 klbf
RPM: 129-188
GPM: 1165-1179
SPP: 1253-1895 psi
WOB: 1-26 klbf
RPM: 103-152
GPM: 1161-1179
SPP: 1268-1928 psi
Set 406mm (16") casing at 750.03 mMDRT
24/06/08
NB3: 375mm (14-3/4")
Make: Reed
Type: Rock/T11
Jets: 3x20, 1x16
Depth In: 755.0 m
Depth Out: 758.0 m
Drilled 3.0 m in 0.2hrs
Grade: 0-0-NO-A-0-I-NO-BHA
NB4: 343mm (13-1/2")
Make: Reed
Type: PDC/RSX616M-A3
Jets: 3x18, 3x16
Depth In: 758.0 m
Depth Out: 2031.0 m
Drilled 1273.0 m in 42.3hrs
Grade: 2-4-CT-A-X-I-WT-BHA
WOB: 1-25 klbf
RPM: 60-160
GPM: 737-1172
SPP: 1302-2459 psi

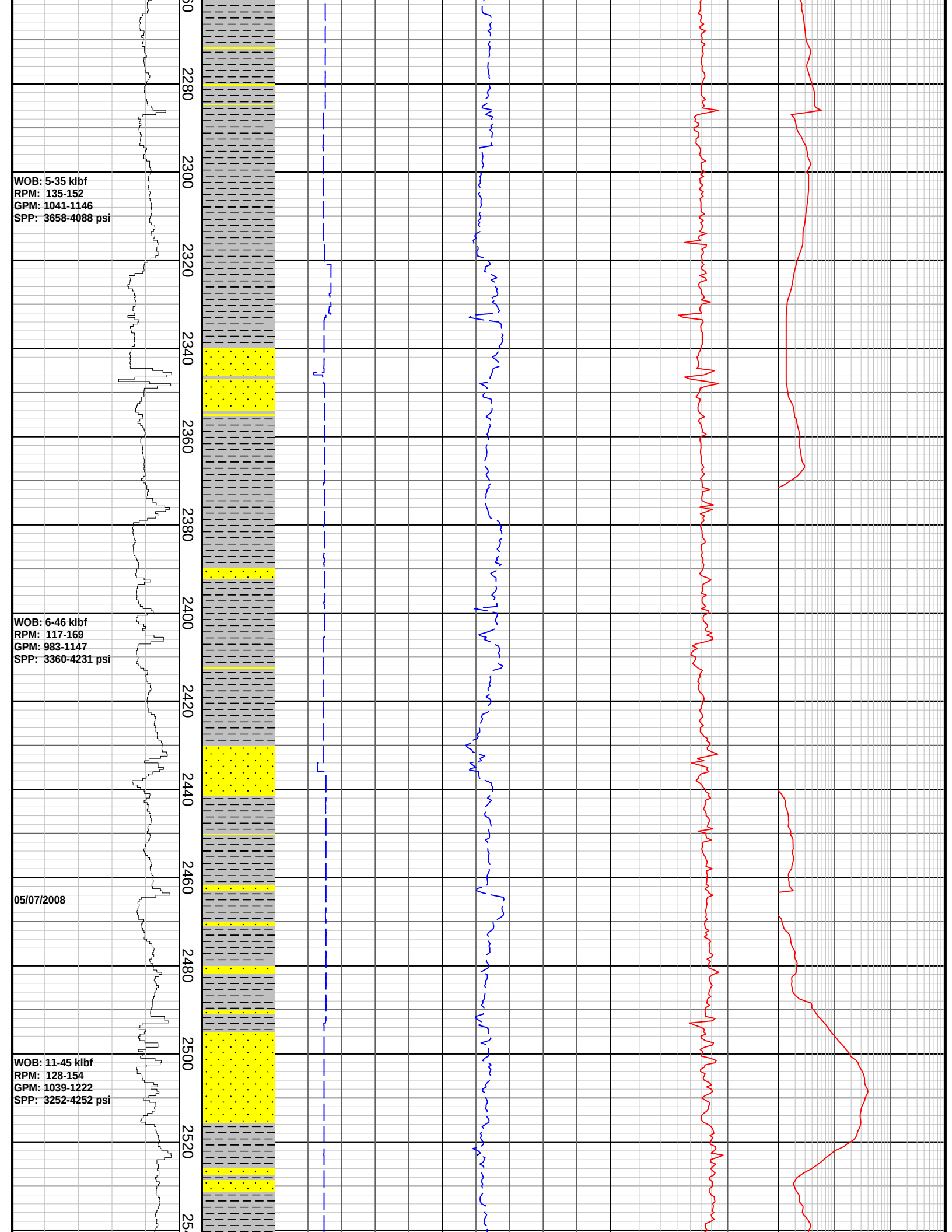

880
900
920
940
960
980
1000
1020
1040
1060
1080
1100
1120
1140
WOB: 0-31 klbf
RPM: 97-129
GPM: 929-1044
SPP: 2063-2666 psi
WOB: 2-35 klbf
RPM: 127-130
GPM: 966-1057
SPP: 2284-2838 psi
WOB: 2-36 klbf
RPM: 127-140
GPM: 965-1067
SPP: 2237-2284 psi

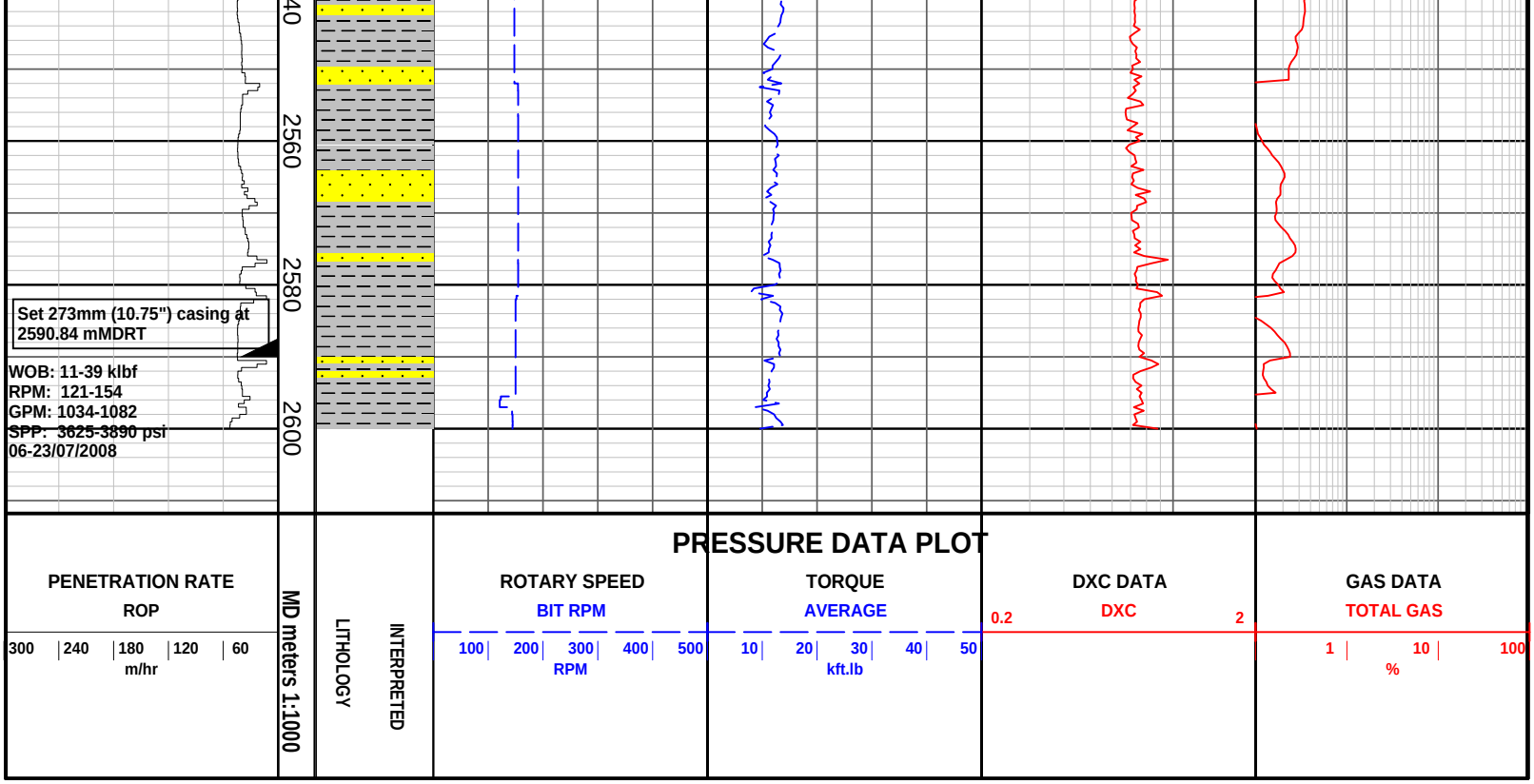

1160
1180
1200
1220
1240
1260
1280
1300
1320
1340
1360
1380
1400
1420
WOB: 2-36 klbf
RPM: 136-143
GPM: 965-1067
SPP: 2526-2902 psi
WOB: 7-37 klbf
RPM: 123-155
GPM: 990-1053
SPP: 1890-2890 psi
WOB: 2-38 klbf
RPM: 121-152
GPM: 838-1126
SPP: 1981-3524 psi


01/07/2008
1440
1460
1480
1500
1520
1540
1560
1580
1600
1620
1640
1660
1680
WOB: 8-34 klbf
RPM: 82-152
GPM: 1087-1123
SPP: 3197-3530 psi
WOB: 3-30 klbf
RPM: 87-160
GPM: 646-1124
SPP: 1288-3372 psi


WOB: 4-33 klbf
RPM: 131-157
GPM: 989-1056
SPP: 2754-3131 psi
02/07/2008
1720
1740
1760
1780
1800
WOB: 1-35 klbf
RPM: 105-172
GPM: 1052-1128
SPP: 3094-3535 psi
1820
1840
1860
1880
1900
WOB: 5-33 klbf
RPM: 119-172
GPM: 1093-1486
SPP: 3362-3589 psi
1920
1940
1960


2000
2020
2040
2060
2080
2100
2120
2140
2160
2180
2200
2220
2240
WOB: 3-42 klbf
RPM: 96-169
GPM: 1005-1127
SPP: 2976-3708 psi
03/07/2008
04/07/2008
NB5: 343mm (13-1/2")
Make: Smith
Type: PDC/MSI6LSPX
Jets: 3x18, 2x20
Depth In: 2031.0 m
Depth Out: 2600.0 m
Drilled 569.0 m in 11.8hrs
Grade: 0-0 -NO-A-X-I-NO-TD
WOB: 2-52 klbf
RPM: 73-169
GPM: 953-1205
SPP: 2719-4084 psi
WOB: 3-49 klbf
RPM: 144-153
GPM: 1093-1146
SPP: 3846-4102 psi


2280
2300
2320
2340
2360
2380
2400
2420
2440
2460
2480
2500
2520
WOB: 5-35 klbf
RPM: 135-152
GPM: 1041-1146
SPP: 3658-4088 psi
WOB: 6-46 klbf
RPM: 117-169
GPM: 983-1147
SPP: 3360-4231 psi
05/07/2008
WOB: 11-45 klbf
RPM: 128-154
GPM: 1039-1222
SPP: 3252-4252 psi



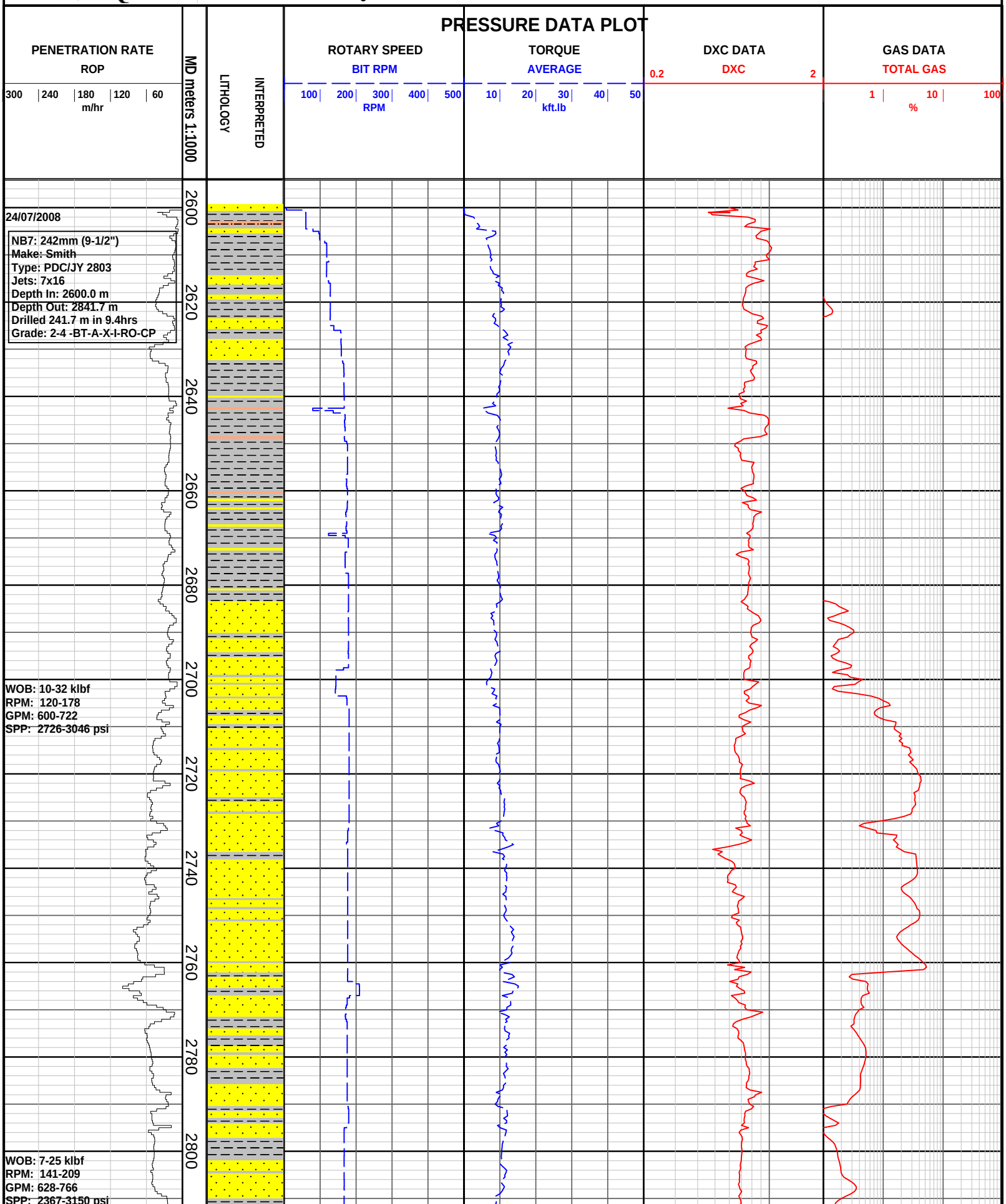
PRESSURE DATA PLOT

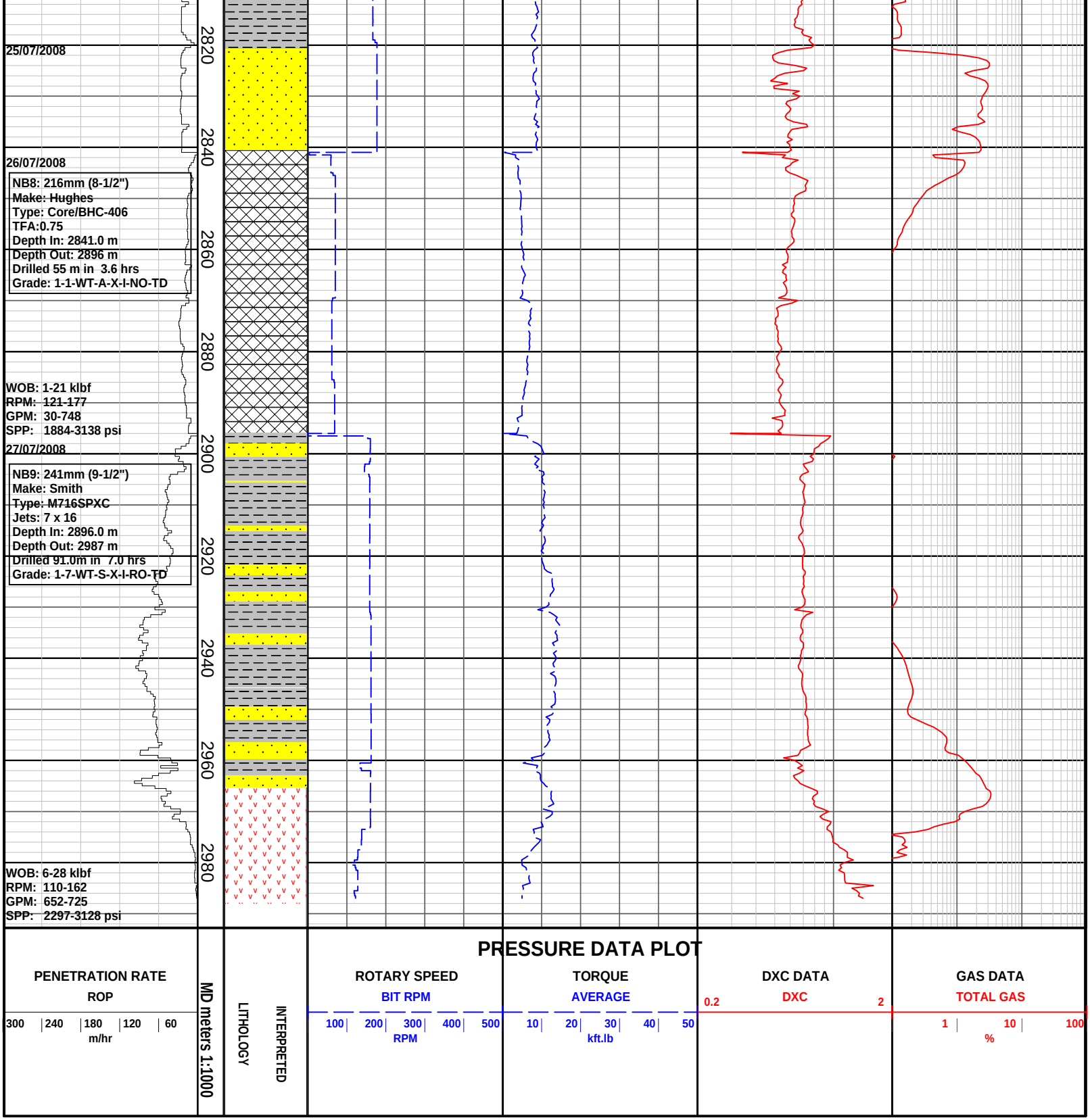
PENETRATION RATE	MD meters 1:1000	LITHOLOGY	INTERPRETED	ROTARY SPEED	TORQUE	DXC DATA	GAS DATA
ROP				BIT RPM	AVERAGE	DXC	TOTAL GAS
300 | 240 | 180 | 120 | 60 m/hr				100 | 200 | 300 | 400 | 500 RPM	10 | 20 | 30 | 40 | 50 kft.lb	0.2 | 2	1 | 10 | 100 %

BAKER HUGHES
INTEQ

Company : Nexus Energy
Well : Longtom-4
Interval : 2594.00 - 2992.79 meters
Created : 01/Aug/2008 3:40:15 AM

PRESSURE DATA PLOT

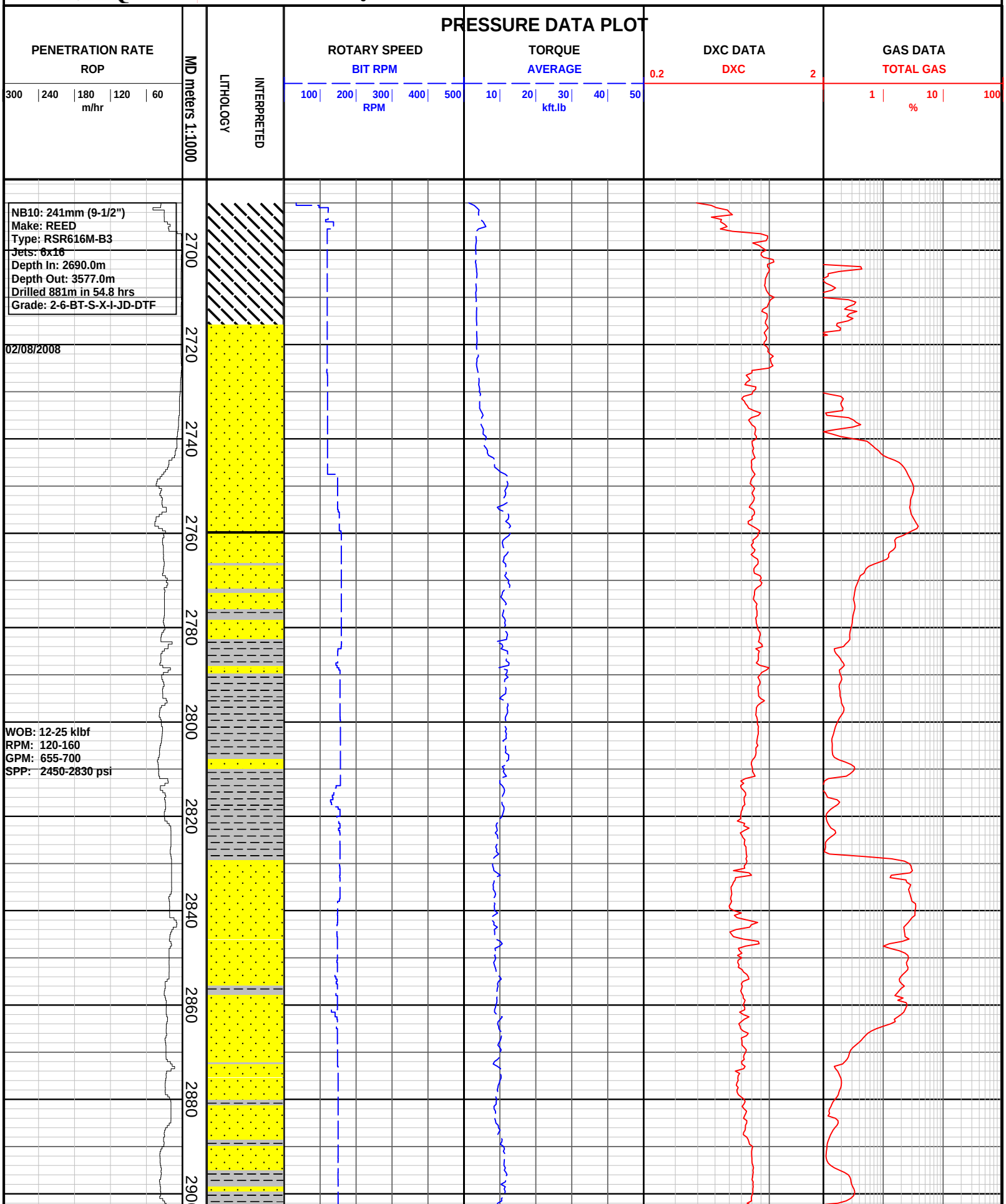


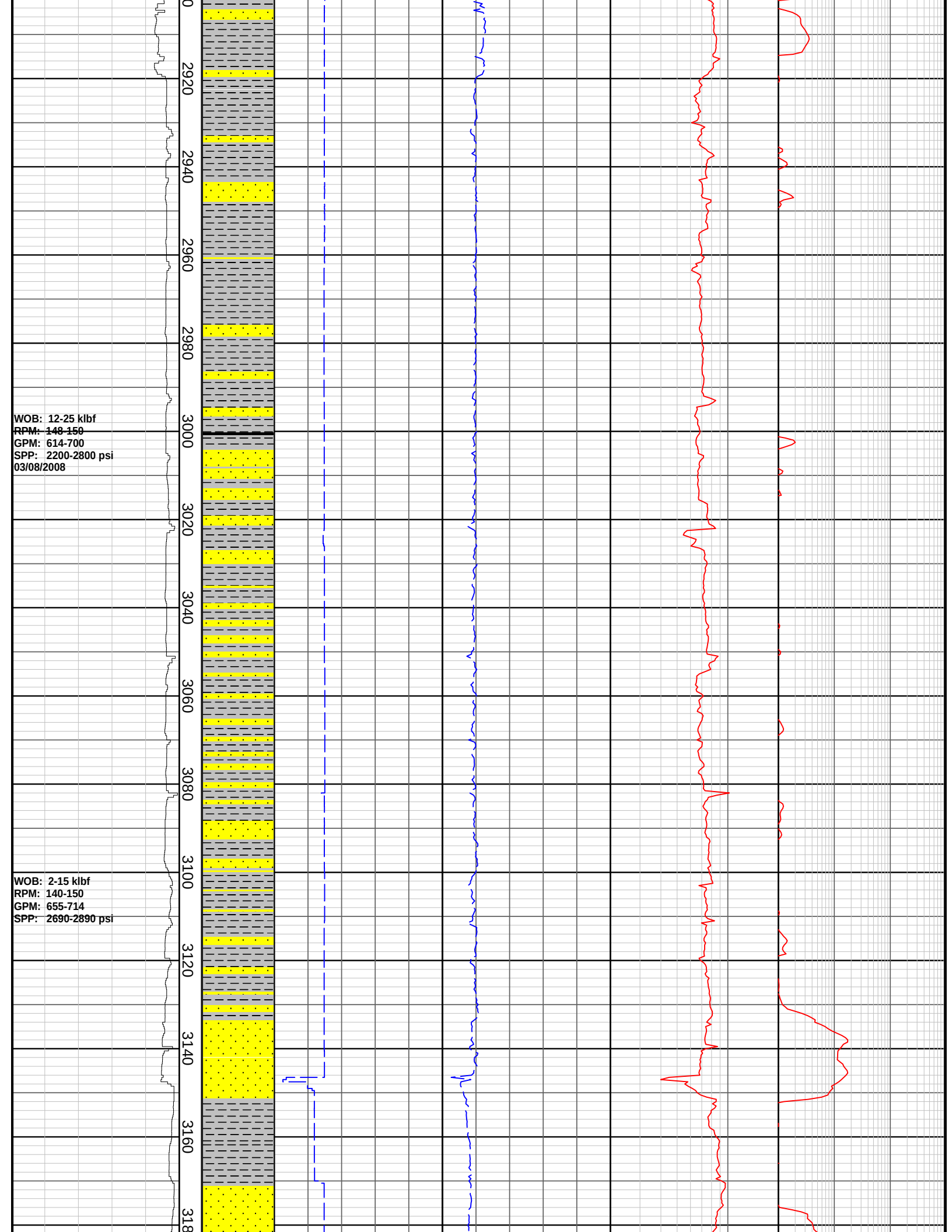

25/07/2008
26/07/2008
NB8: 216mm (8-1/2")
Make: Hughes
Type: Core/BHC-406
TFA:0.75
Depth In: 2841.0 m
Depth Out: 2896 m
Drilled 55 m in 3.6 hrs
Grade: 1-1-WT-A-X-I-NO-TD
WOB: 1-21 klbf
RPM: 121-177
GPM: 30-748
SPP: 1884-3138 psi
27/07/2008
NB9: 241mm (9-1/2")
Make: Smith
Type: M716SPXC
Jets: 7 x 16
Depth In: 2896.0 m
Depth Out: 2987 m
Drilled 91.0m in 7.0 hrs
Grade: 1-7-WT-S-X-I-RO-TD
WOB: 6-28 klbf
RPM: 110-162
GPM: 652-725
SPP: 2297-3128 psi
2820
2840
2860
2880
2900
2920
2940
2960
2980
PRESSURE DATA PLOT
PENETRATION RATE
ROP
300 240 180 120 60
m/hr
MD meters 1:1000
LITHOLOGY
INTERPRETED
ROTARY SPEED
BIT RPM
100 200 300 400 500
RPM
TORQUE
AVERAGE
10 20 30 40 50
kft.lb
DXC DATA
0.2
DXC
2
GAS DATA
TOTAL GAS
1 10 100
%

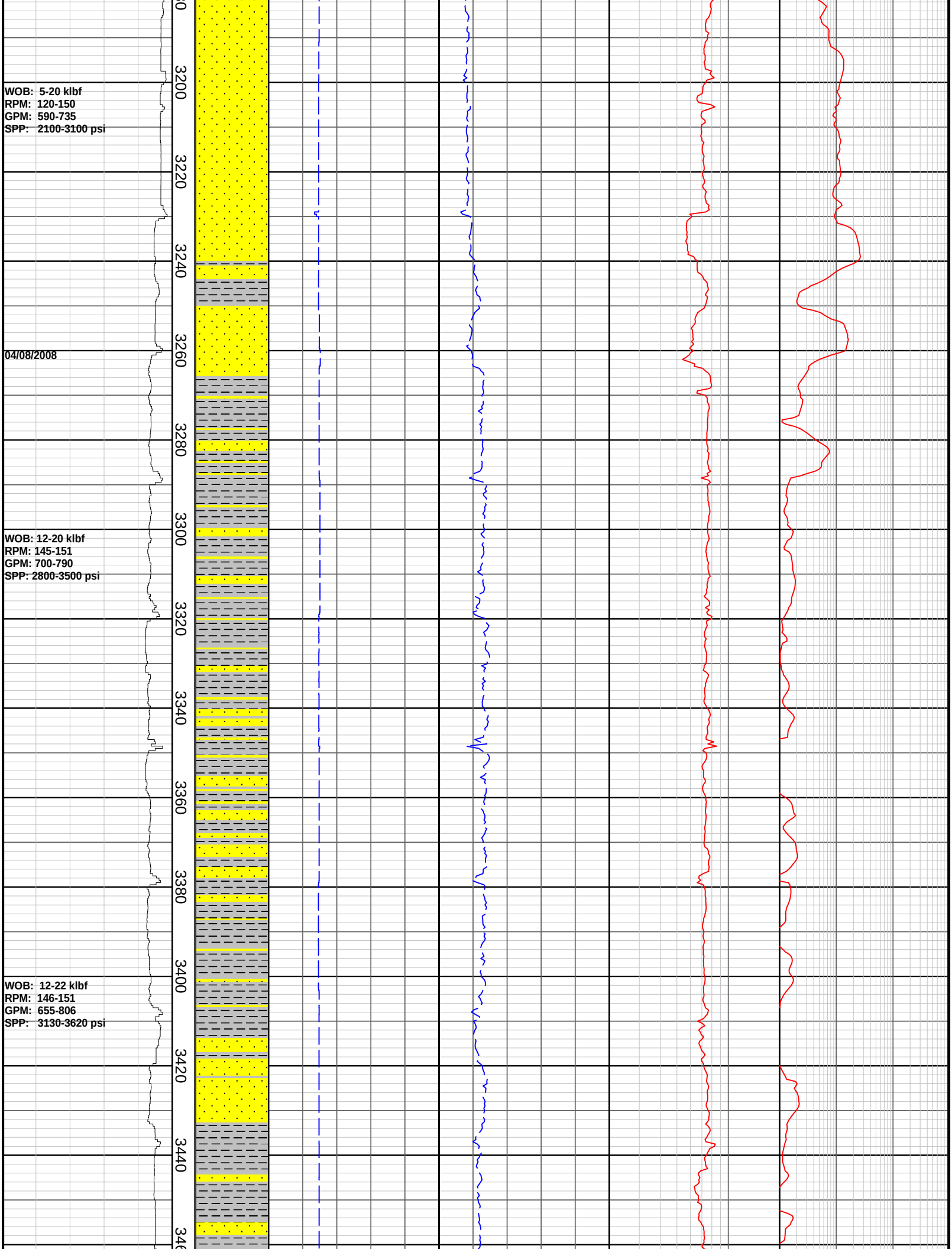
BAKER HUGHES
INTEQ

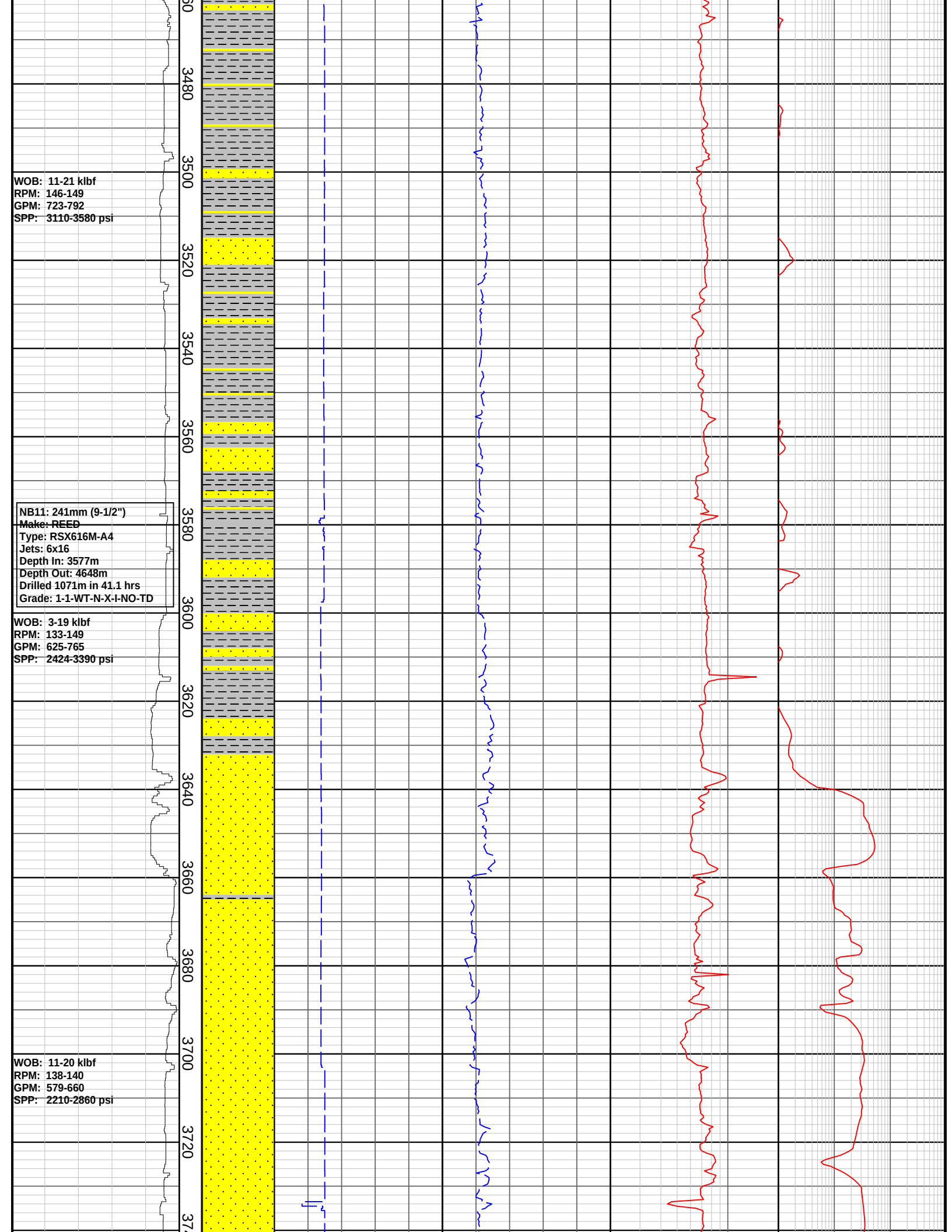
Company : Nexus Energy
Well : Longtom-4 H
Interval : 2685.00 - 4654.44 meters
Created : 14/Aug/2008 6:14:51 AM

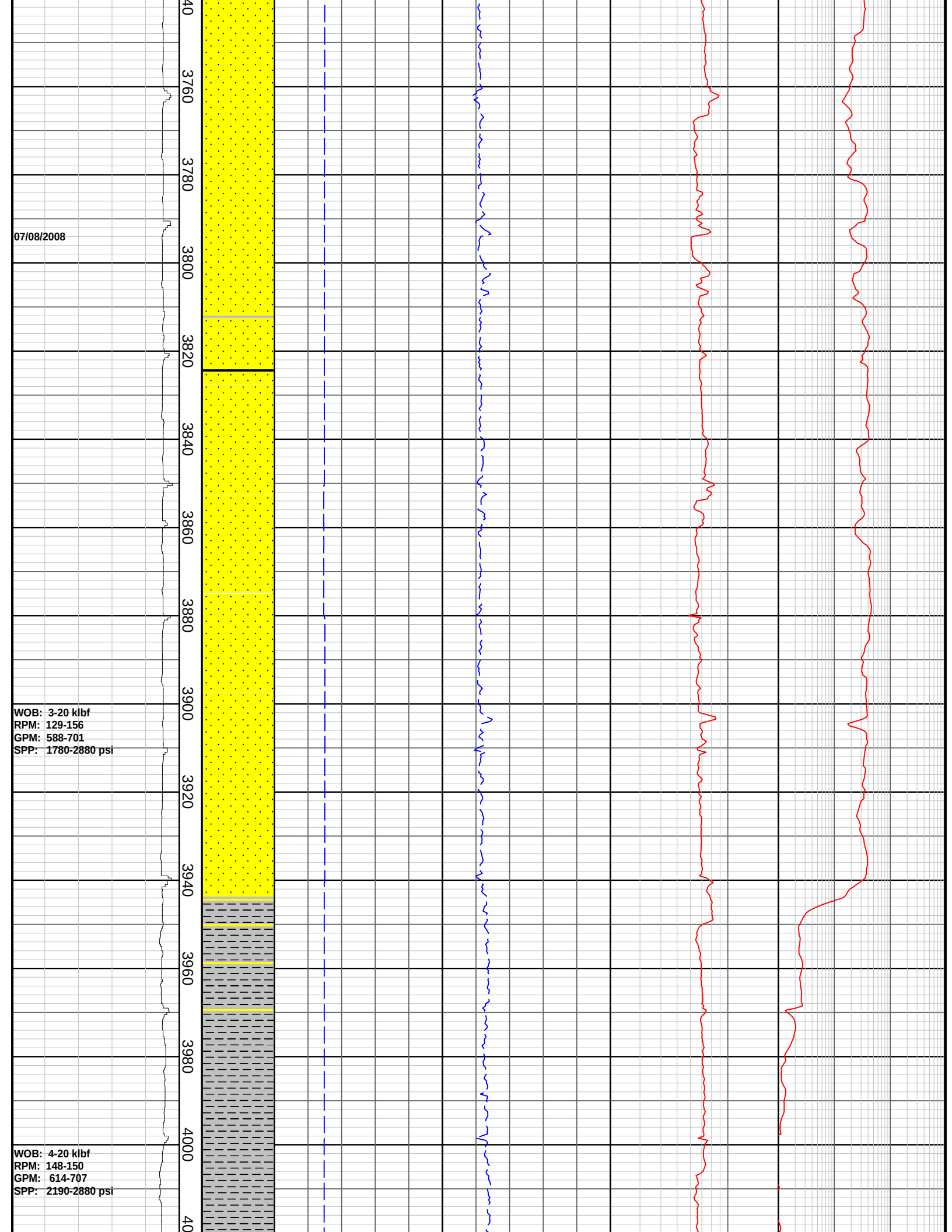
PRESSURE DATA PLOT

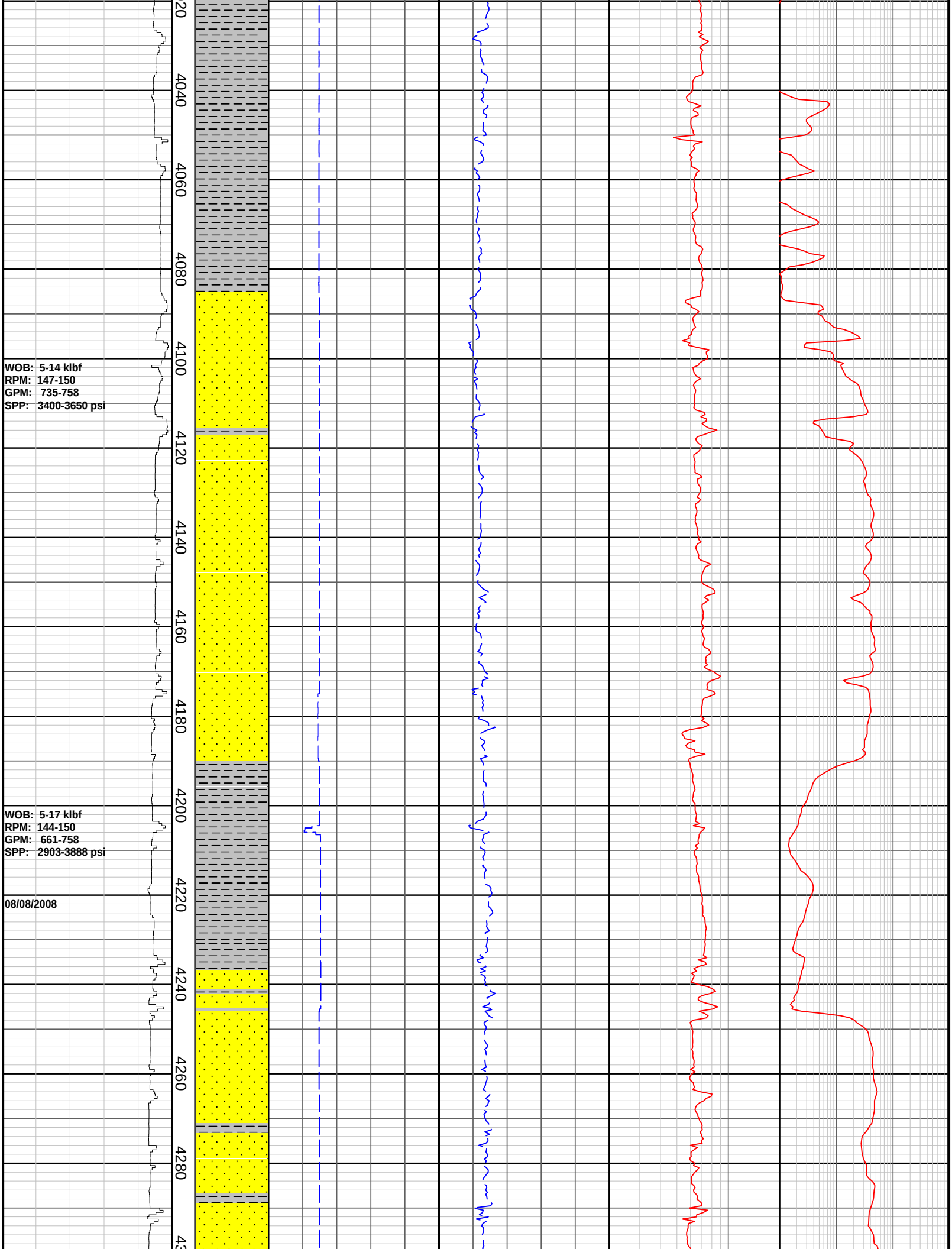


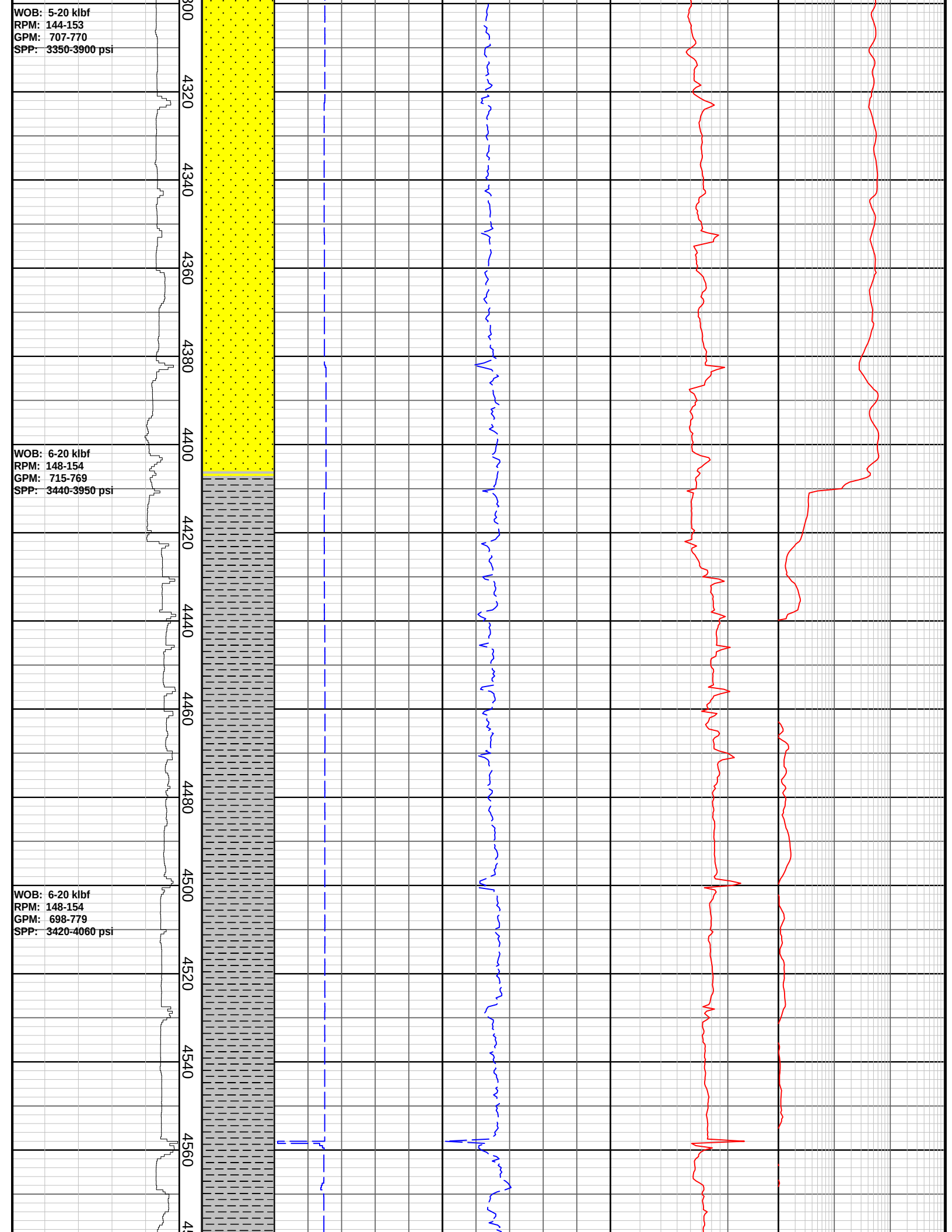

2920
2940
2960
2980
3000
3020
3040
3060
3080
3100
3120
3140
3160
WOB: 12-25 klbf
RPM: 148-150
GPM: 614-700
SPP: 2200-2800 psi
03/08/2008
WOB: 2-15 klbf
RPM: 140-150
GPM: 655-714
SPP: 2690-2890 psi

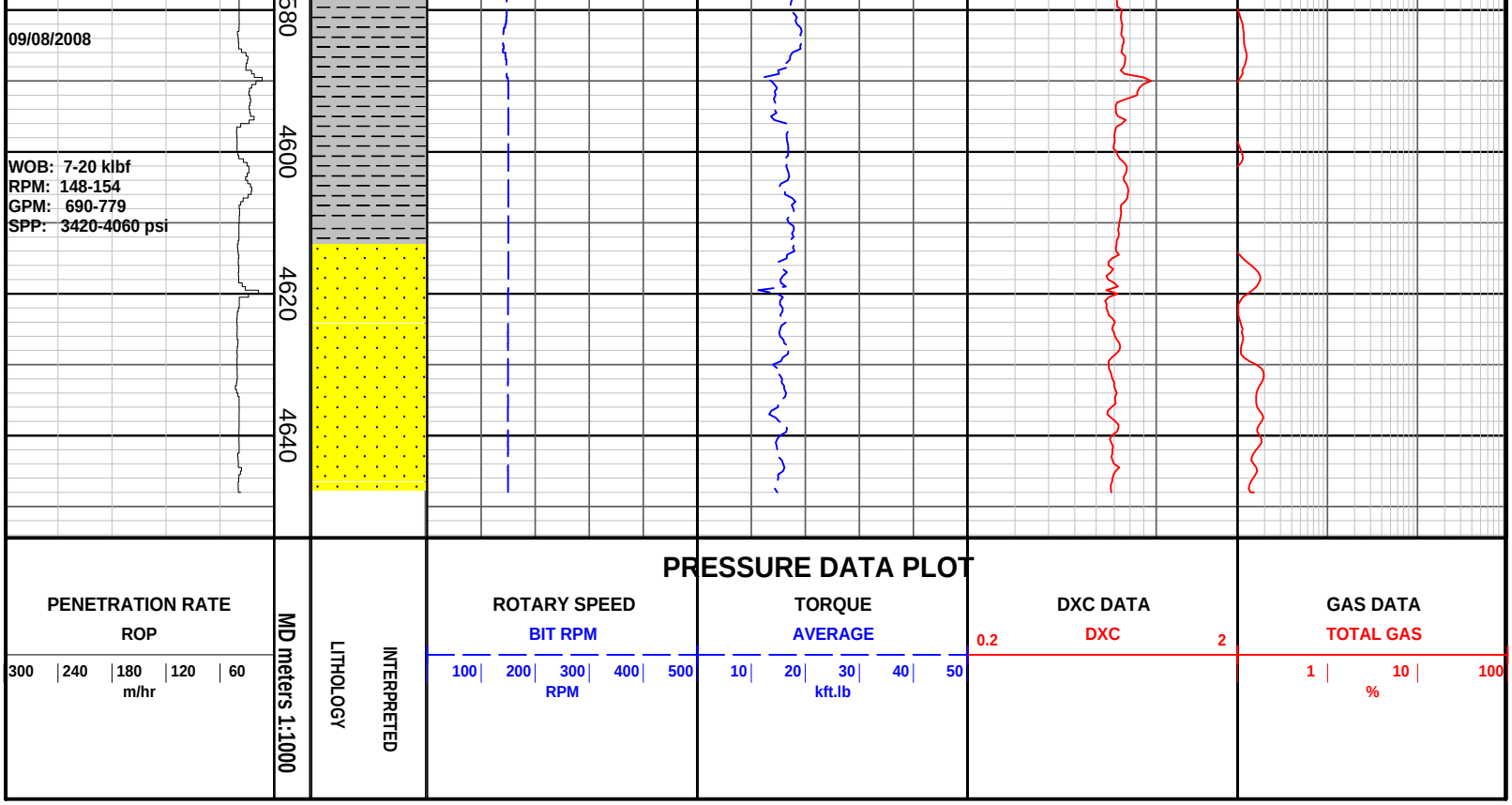

WOB: 5-20 klbf
RPM: 120-150
GPM: 590-735
SPP: 2100-3100 psi
04/08/2008
WOB: 12-20 klbf
RPM: 145-151
GPM: 700-790
SPP: 2800-3500 psi
WOB: 12-22 klbf
RPM: 146-151
GPM: 655-806
SPP: 3130-3620 psi
3200
3220
3240
3260
3280
3300
3320
3340
3360
3380
3400
3420
3440


3460
3480
3500
3520
3540
3560
3580
3600
3620
3640
3660
3680
3700
3720
WOB: 11-21 klbf
RPM: 146-149
GPM: 723-792
SPP: 3110-3580 psi
NB11: 241mm (9-1/2")
Make: REED
Type: RSX616M-A4
Jets: 6x16
Depth In: 3577m
Depth Out: 4648m
Drilled 1071m in 41.1 hrs
Grade: 1-1-WT-N-X-I-NO-TD
WOB: 3-19 klbf
RPM: 133-149
GPM: 625-765
SPP: 2424-3390 psi
WOB: 11-20 klbf
RPM: 138-140
GPM: 579-660
SPP: 2210-2860 psi


3740
3760
3780
3800
3820
3840
3860
3880
3900
3920
3940
3960
3980
4000
4020
07/08/2008
WOB: 3-20 klbf
RPM: 129-156
GPM: 588-701
SPP: 1780-2880 psi
WOB: 4-20 klbf
RPM: 148-150
GPM: 614-707
SPP: 2190-2880 psi


4020
4040
4060
4080
4100
4120
4140
4160
4180
4200
4220
4240
4260
4280
WOB: 5-14 klbf
RPM: 147-150
GPM: 735-758
SPP: 3400-3650 psi
WOB: 5-17 klbf
RPM: 144-150
GPM: 661-758
SPP: 2903-3888 psi
08/08/2008


WOB: 5-20 klbf
RPM: 144-153
GPM: 707-770
SPP: 3350-3900 psi
WOB: 6-20 klbf
RPM: 148-154
GPM: 715-769
SPP: 3440-3950 psi
WOB: 6-20 klbf
RPM: 148-154
GPM: 698-779
SPP: 3420-4060 psi
4300
4320
4340
4360
4380
4400
4420
4440
4460
4480
4500
4520
4540
4560



PRESSURE DATA PLOT

PENETRATION RATE
ROP
300 | 240 | 180 | 120 | 60
m/hr

MD meters 1:1000

LITHOLOGY INTERPRETED

ROTARY SPEED
BIT RPM
100 | 200 | 300 | 400 | 500
RPM

TORQUE
AVERAGE
10 | 20 | 30 | 40 | 50
kft.lb

DXC DATA
0.2 DXC 2

GAS DATA
TOTAL GAS
1 | 10 | 100
%

ENCLOSURE 5: BASIC PALYNOLOGICAL RANGE CHART

Well Name : Longtom-4

Operator : Nexus Energy — Spudded : 21 June 2008
Well Code : LONGTOM-4 — Completed : 18 September 2008
Lat/Long : 38° 6' 17.71"S 148°19' 5.94"E
Interval : 1270m - 3000m — BASIC Range Chart - Absolute abundance
Scale : 1:5000 — SWC sample Interval 1285.5 to 2970mMD
Chart date: 02 March 2009 — Microscope Analysis by Alan D. Partridge

Longtom-4

Biostrata Pty Ltd
AUSTRALIA

Attachment to Biostrata Report 2009/04B

Depth

Samples Measured Depths

Categories SP — Absolute abundance (25mm=150 counts)
- Angiosperms TOTAL
- Gymnosperms TOTAL
- Spores TOTAL

Spores — Absolute abundance (20mm=100 counts)
- Cyathidites spp. (small species)
- Appendicisporites distocarinatus
- Baculatisporites spp.
- Cicatricosisporites & Ruffordiaspora spp.
- Crybelosporites brenneri
- Crybelosporites striatus
- Herkosporites proxistriatus
- Laevigatosporites ovatus
- Osmundacidites wellmanii
- Triplete spores undiff.
- Cyathidites rafaeli
- Cyathidites spp. (large species)
- Gleicheniidites circinidites
- Herkosporites elliottii
- Retitriletes spp.
- Stereisporites antiquasporites
- Triporoletes reticulatus
- Dictyophyllidites spp.
- Neoraistrickia truncatus
- Verrucosisporites morulae/rockhillis sp. nov.
- Foveogleicheniidites confossus
- Perotriletes jubatus
- Camarozonosporites heskermensis
- Cyatheacidites tectifera
- Foveosporites sp. cf F. canalis
- Marattisporites scabratus
- Rugulatisporites mallatus
- Ceratosporites equalis
- Coptospora pileolus sp. nov.
- Acanthotriletes varispinosus
- Perotriletes majus
- Laevigatosporites musa sp. nov.
- Densoisporites velatus
- Triloboporites trioreticulosus
- Densoisporites muratus sp. nov.
- Cicatricosisporites sp. cf. C. hughesii
- Foraminisporis asymmetricus
- Evansisporis senonica
- Foraminisporis wonthaggiensis
- Rugulatisporites sp. nov.
- Aequitriradites spinulosus
- Balmeisporites holodictyus
- Peromonolites spp.
- Tuberculatosporites sp. A
- Cyathidites splendens
- Laevigatosporites major
- Verrucosisporites kopukuensis
- Ariadnaesporites sp. (miospores)
- Camarozonosporites bullatus
- Camarozonosporites amplus
- Latrobosporites amplus
- Triporoletes horridus sp. nov.
- Triquitrites marshallensis
- Triquitrites maastrichtiensis

Gymnosperm Pollen — Absolute abundance (20mm=100 counts)
- Araucariacites australis
- Dilwynites granulatus
- Dilwynites pusillus sp. nov.
- Microcachryidites antarcticus
- Podocarpidites spp.
- Corollina torosa
- Cupressacites sp.
- Trichotomosulcites subgranulatus
- Hoegisporis trinalis sp. nov.
- Vitreisporites signatus
- Phyllocladidites echinatus sp. nov.
- Phyllocladidites mawsonii
- Phyllocladidites spp.
- Dilwynites tuberculatus
- Lygistepollenites florinii
- Microalatidites palaeogenicus
- Phyllocladidites verrucosus

Angiosperm Pollen — Absolute abundance (20mm=100 counts)
- Liliacidites spp.
- Tricolp(or)ites spp. (multiple species)
- Senectotetrades fistulosus
- Tricolporites variverrucatus sp. nov.
- Australopollis obscurus
- Nothofagidites asperus
- Proteacidites spp.
- Nothofagidites senectus
- Nothofagidites sulcatus
- Proteacidites cf.nei sp. nov.
- Tricolpites confessus
- Tricolpites lilliei
- Batten ipollis sectilis
- Forcipites longus
- Juxtacolpus pieratus gen. et sp. nov.
- Periporopollenites polyoratus
- Proteacidites (Cranwellipollis) pallsadus
- Proteacidites reticuloconcavus sp. nov.
- Tricolpites sabulosus
- Tricolpites vaiparaensis
- Dicotetradites clavatus
- Ericipites spp.
- Gambierina rudata

Categories MPs — *1
- Amosopollis cruciformis (in SP count)
- Circulisporites parvus (in SP Count)
- MP MARINE (in SP count) TOTAL
- MP NON-MARINE (in SP count) TOTAL

Microplankton Species — Absolute abundance (25mm=100 counts)
- Circulisporites parvus
- Sigmopollis hispidus
- Amosopollis cruciformis
- Luxadinium spp.
- Leiosphaeridia spp.
- Tetrachacysta keenei
- Rimosicysta robustus sp. nov.
- Rimosicysta spp.
- Michystridium spp. (non-marine)
- Microplankton undiff. (marine)
- Sigmopollis carbonis
- Rimosicysta kipperii
- Botryococcus braunii
- Deflandrea obliquipes

Other Palynomorphs — Absolute abundance (30mm=100 counts)
- Indeterminate palynomorphs
- Fungal spores & hyphae
- Spheroid reticulate indet.
- Insect setae
- Reworked palynomorphs
- Fungal fruiting bodies
- Scolecodont elements
- Caved palynomorphs
- Brennae setae
- Tasmanites
- Asaidnaesporites sp. (threads)

RW — *2
- Microbaculispora spp.
- Aratrisporites spp.

Samples Measured Depths

TD 2987

Well Name : Longtom-4

Operator : Nexus Energy
Well Code : LONGTOM-4
Lat/Long : 38° 6' 17.71"S 148°19' 5.94"E
Interval : 1270m - 3000m
Scale : 1:5000
Chart date: 02 March 2009

Spudded : 21 June 2008
Completed : 18 September 2008
BASIC Range Chart - Count Data
SWC sample Interval 1285.5 to 2970mMD
Microscope Analysis by Alan D. Partridge

Longtom-4

Biostrata Pty Ltd
AUSTRALIA

Attachment to Biostrata Report 2009/04B

Depth

Samples Measured Depths

S-P *1
Angiosperms TOTAL
Gymnosperms TOTAL
Spores TOTAL

Spores — Absolute abundance
Cyathidites spp. (small species)
Appendicisporites distocarinatus
Baculatisporites spp.
Cicatricosisporites & Rufforidaspora spp.
Crybelosporites brennerii
Crybelosporites striatus
Herkosporites proxistriatus
Laevigatosporites ovatus
Osmundacidites wellmanii
Trilete spores undiff.
Cyathidites rafaeli
Cyathidites spp. (large species)
Gleicheniidites circinidites
Herkosporites elliottii
Rettrietes spp.
Stereisporites antiquasporites
Triporoletes reticulatus
Dictyophyllidites spp.
Neoraistrickia truncatus
Verrucosisporites admirabilis sp. nov.
Foveogleicheniidites confossus
Perotriites jubatus
Camarozonosporites heskermensis
Cyatheacidites tectifera
Foveosporites sp. cf F. canalis
Marattisporites scabratus
Rugulatisporites mallatus
Ceratosporites equalis
Coptospora pileolus sp. nov.
Aequitriradites spinulosus
Perotriites majus
Laevigatosporites musa sp. nov.
Densoisporites velatus
Triloboisporites trioreticulosus
Densoisporites muratus sp. nov.
Cicatricosisporites sp. cf. C. hughesii
Foraminisporis asymmetricus
Evansisporа senonica
Foraminisporis wonthaggiensis
Rugulatisporites spp.
Aequitriradites asina sp. nov.
Balmeisporites holodictyus
Peromonolites spp.
Tuberculatosporites sp. A
Cyathidites splendens
Laevigatosporites major
Verrucosisporites kopukuensis
Ariadnaesporites sp. (miospores)
Camarozonosporites bullatus
Camarozonosporites horrendus sp. nov.
Latrobosporites amplus
Tripunctisporis maastrichtiensis

Gymnosperm Pollen — Absolute abundance
Araucariacites australis
Dilwynites granulatus
Dilwynites pusillus sp. nov.
Microcachryidites antarcticus
Podocarpidites spp.
Corollina torosa
Cupressacites sp.
Trichotomosulcites subgranulatus
Hoegisporis trinalis sp. nov.
Vitreisporites signatus
Phyllocladidites eunuchus sp. nov.
Dilwynites echinatus sp. nov.
Phyllocladidites mawsonii
Dilwynites tuberculatus
Lygistepollenites florinii
Microalatidites palaeogenicus
Phyllocladidites verrucosus

Angiosperm Pollen — Absolute abundance
Liliacidites spp.
Tricolp(or)ites spp. (multiple species)
Senectotetradites fistulosus
Tricolporites variverrucatus sp. nov.
Australopollis obscurus
Nothofagidites endurus
Proteacidites spp.
Dicotetradites clavatus
Ericipites spp.
Gambierina rudata
Nothofagidites senectus
Peninsulapollis gillii
Proteacidites clinei sp. nov.
Tricolpites confessus
Tricolporites illiei
Battenipollis sectilis
Forcipites longus
Juxtacolpus pieratus gen. et sp. nov.
Periporopollenites polyoratus
Proteacidites (Cranwellipollis) palisadus
Proteacidites reticuloconcavus sp. nov.
Tetracolporites verrucosus
Tricolpites waiparaensis

MPs *1
Amosopollis cruciformis (in SP count)
Circulisporites parvus (in SP Count)
MP MARINE (in SP count) TOTAL
MP NON-MARINE (in SP count) TOTAL

Microplankton Species — Absolute abundance
Circulisporites parvus
Sigmopollis hispidus
Amosopollis cruciformis
Luxadinium spp.
Leiosphaeridia spp.
Tetrachacysta keenei
Rimosicysta robustus sp. nov.
Rimosicysta spp.
Micrhystridium spp. (non-marine)
Microplankton undiff. (marine)
Sigmopollis carbonis
Rimosicysta kipperii
Botryococcus braunii
Deflandrea obliquipes

Other Palynomorphs — Absolute abundance
Indeterminate palynomorphs
Fungal spores & hyphae
Spheroid reticulate indet.
Insect setae
Reworked palynomorphs
Fungal fruiting bodies
Scolecodont elements
Caved palynomorphs
Biremae setae
Tasal claws
Ariadnaesporites sp. (threads)

RW *2
Microbaculispora spp.
Aratrisporites spp.

TD 2987