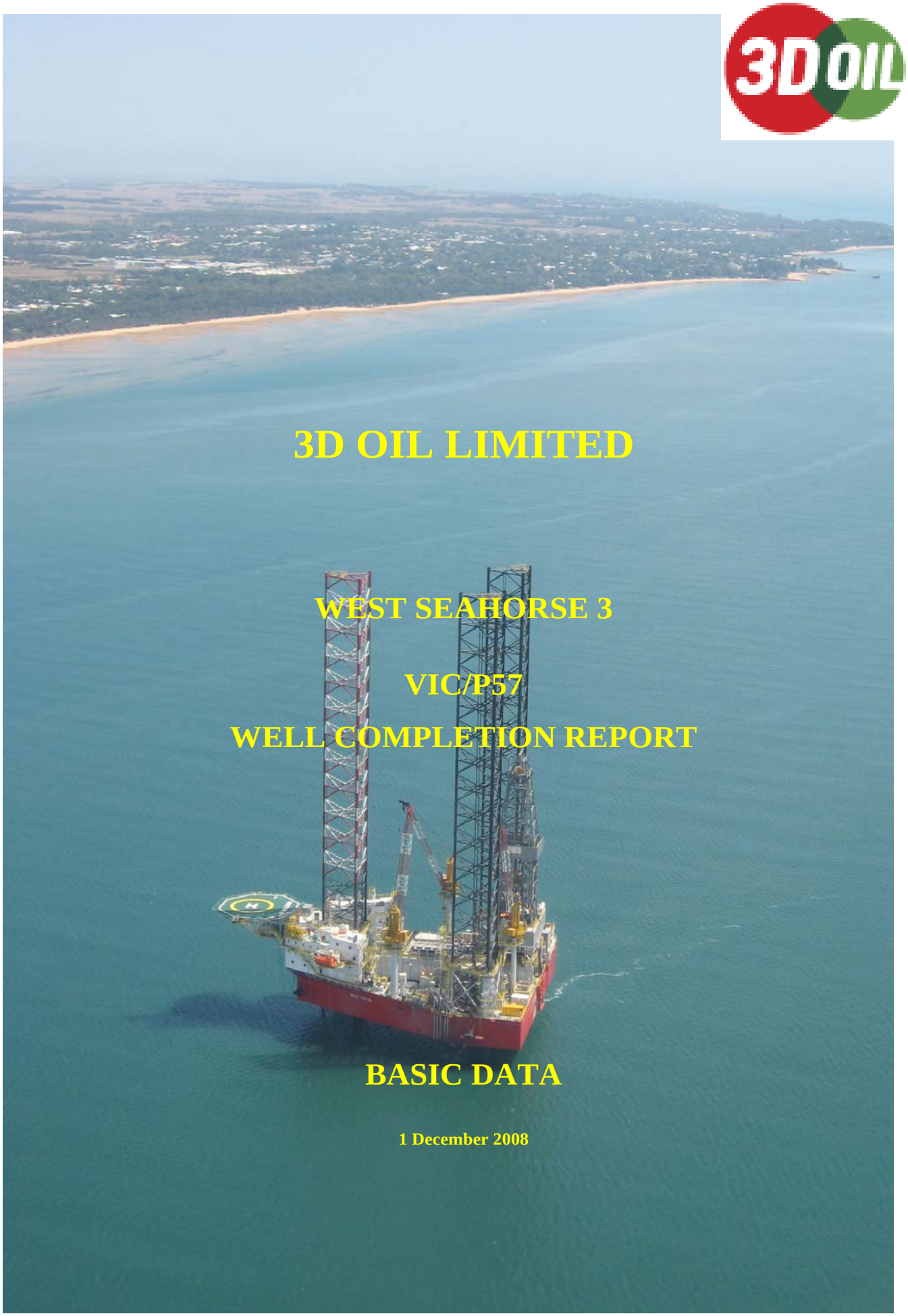


3D OIL LIMITED

WEST SEAHORSE 3

VIC/P57

WELL COMPLETION REPORT

BASIC DATA

1 December 2008

Table of Contents

Figures

Attachments

List of Enclosures

1. WELL SUMMARY & OVERVIEW

Well Summary

West Seahorse-3 was a deviated, appraisal/development well, located in Commonwealth waters within the Petroleum Permit Vic/P57, approximately 350 km east of Melbourne, 20km offshore and 5 km west of the producing Seahorse oil field (Figures 1, 2).

West Seahorse 3 was drilled from 23 April to 9 May 2008 using the Seadrill Jack-Up rig, *West Triton*. The objectives of the well were to appraise/develop the hydrocarbon-bearing target sandstones (N1, N2.6 and P1) of the Latrobe Group in the West Seahorse field, originally discovered by West Seahorse-1 (1981).

The well intersected the primary N1 sandstone at 1561 mRT (1400 mss) close to the prognosed depth and confirmed the presence of an oil column down to 1570 mRT (1409 mss) in high quality reservoir. Oil is also interpreted within an overlying interbedded interval of sandstones, coals and siltstones from 1552mRT to 1561mRT (1392 – 1400 mss). Deeper targets (N2.6 and P1) were intersected deep to prognosis and below the oil-water contacts. The West Seahorse-3 well was suspended as a future oil producer.

Australian Drilling Associates (ADA) managed the drilling operation and Baker Hughes INTEQ SLS provided sampling, formation evaluation and drill monitoring services. Schlumberger provided the LWD and Wireline services. Expro Group Australia Pty Ltd provided validation checks and analyses of MDT samples. ACS Laboratory Pty Ltd. undertook a petrological study of the sidewall core samples.

Note: All depths are measured depth below Rotary Table (mMDRT) referenced to Australian Height Datum (AHD) unless otherwise stated.

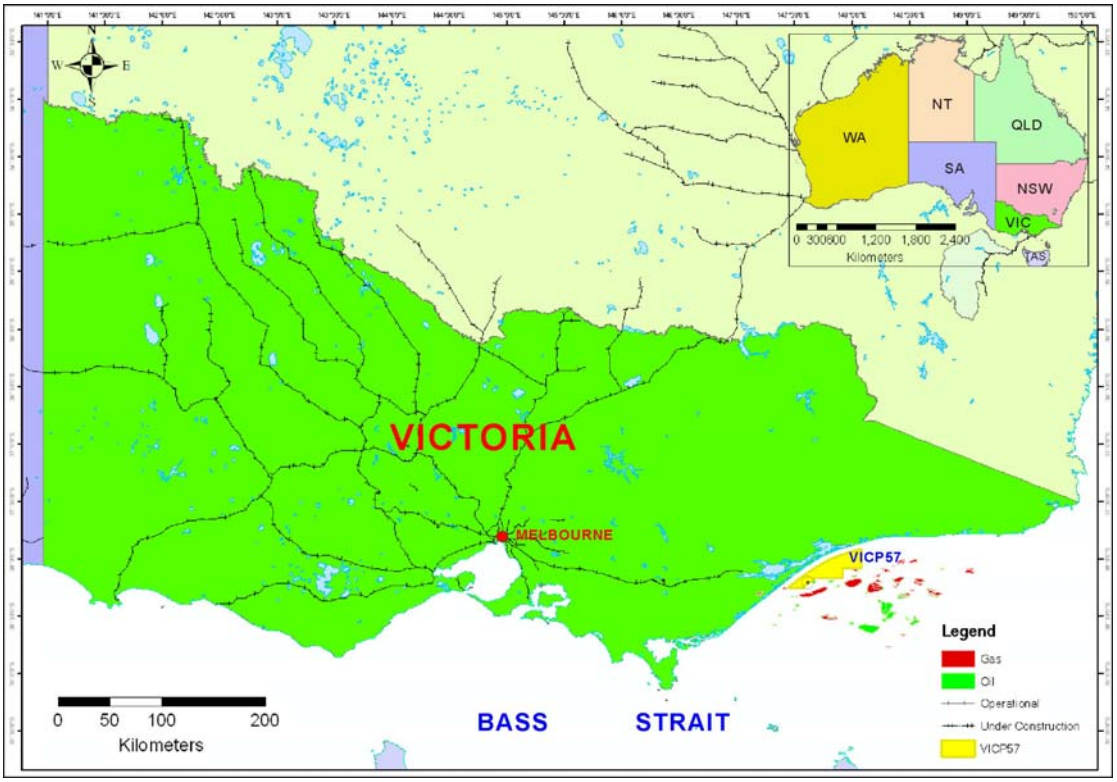


Figure 1. Location of VIC/P57.

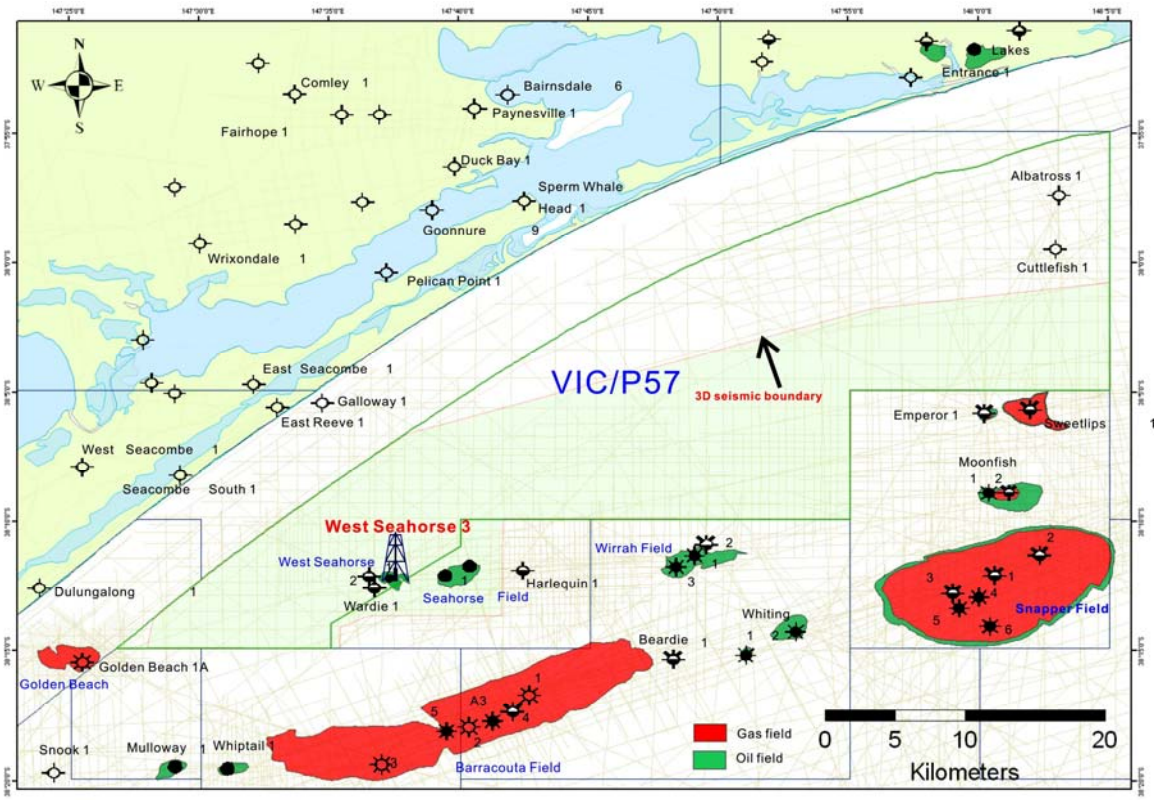


Figure 2. Location of West Seahorse 3.

Well data summary

Well Name	West Seahorse-3
Country	Australia
Designation	Appraisal / Development
Field Name	West Seahorse
License/Permit	VIC / P57
Rig Name/Type	*West Triton* / Jack Up MODU
Field Operator	3D Oil Ltd
Participants	3D Oil Ltd: 100%
Rig on Contract	22nd April, 2008, 10:30hrs
Rig Arrived Location	22nd April, 2008, 17:58hrs
Spud Date	24th April, 2008, 04:15hrs
Reached TD	4th May, 2008, 19:00hrs
Well Abandoned	9th May, 2008, 01:00hrs
Rig Off Location	9th May, 2008,16:30hrs
Rig Off Contract	22nd May, 2008, 17:00hrs
Total Days on Operations	17.25 days
Total Days AFE (excluding Completions and Testing Phase)	17.25 days
Total Depth	1646.4mTVDSS / 1684.1mTVDRT / 1810.0mMDRT
Well Type	Directional 'S' profile
Maximum Deviation Angle	28.28°
Water Depth	39.5m MSL
RT above MSL	37.7m
Well Slot	1
Zone	55 GDA94
Surface Latitude	38° 12' 24.9422" S
Surface Longitude	147° 37' 09.8650" E
Surface Easting	554 229.358 E
Surface Northing	5 771 044.135 N
Bottom Hole Location: Latitude	38° 12' 16.166" S
Bottom Hole Location: Longitude	147° 37' 31.276" E
Bottom Hole Location: Easting	554 751.90 E
Bottom Hole Location: Northing	5771 311.15 N
36in Hole / 30in x 20in Conductor	125.0mMDRT/122.0mMDRT
17.5in Hole / 13.375in Surface Casing	1123.0mMDRT/1117.0mMDRT
12.25in Hole	1810.0mMDRT/1684.1mTVDRT

Casing and cementing summary

Casing data

Type	Size (inches)	Weight(ppf)	Grade	Thread	Depth (mMDRT)
Conductor (30in x 20in tapered shoe joint)	30	309.7 (1" wall)	X-52	D60/MT	110.6
	20	169 (0.625" wall)	X-56	E.R.W	122
Surface Casing	13.375	68	N-80	BTC	1117

Cementing Data

String Cemented	Cement Type	Dry Cmt Vol (sks)	Cement Additives	Mix Water (gal/sk)	Slurry Vol (bbls)	Slurry Density (ppg)	Cement to /from(mMDRT)	Csg Test Pressure (psi)
30in X 20in	Class G	1660	1% CaCl NF-6 : as required	5.16	343	15.9	seafloor (77.5m) - 122m	NA
13.375in Lead	Class G	510	Econolite: 15gal/10bbl NF-6: as req	11.8	210	12.5	600m-1000m	500
13.375in Tail	Class G	290	CFR-3L: 3gal/10bbl NF-6: as req HR-6L: 2gal/10bbl	5.16	68	15.9	1000m-1117m	
Plug #1A	Class G	358	CFR-3L: 3.0gal/10bb SCR-100L: 1.0gal/10bbl NF-6: .25gal/10bbl	5.07	74	15.8	1633m-1770m	NA
Plug #1B	Class G	377	CFR-3L: 3.0gal/10bb SCR-100L: 1.0gal/10bbl	5.07	78	15.8	1490m-1633m	NA
Plug #2	Class G	315	CFR-3L: 3.0gal/10bb SCR-100L: 1.0gal/10bbl NF-6: .25gal/10bbl	5.07	65	15.8	1030m-1149m	1500
Plug #3	Class G	183	CFR-3L: 3.0gal/10bb SCR-100L: 1.0gal/10bbl NF-6: .25gal/10bbl	5.20	38	15.8	130m-207m	NA

2. WELL OPERATIONS

West Seahorse-3 was drilled to appraise/develop the hydrocarbon-bearing sandstones of the Latrobe Group in the West Seahorse field using the Seadrill Jack-Up rig, *West Triton* (Figure 3).

Figure 3. Aerial photo-view of the West Triton during the drilling of West Seahorse 3.

Rig mobilisation

The West Triton was handed over to 3D Oil on April 22nd 2008 at 10:30hrs, 1NM off Apache's Speke South (VIC/P42) location. The West Triton arrived at the West Seahorse-3 location at 17.58hrs, with the total distance of the voyage being approximately 18.6NM. Once in position the rig was jacked up to 38m above MSL with a rig heading of 137.21 deg. The short distance between wells allowed for some drill pipe to remain racked back in the derrick. The MV's Sirius Cove & Campbell Cove tugs used for the tow were released at 19.45 hrs.

Note: These tugs were originally employed to temporarily replace the Pacific Valkyrie AHTS when the vessel was returned to shore-base for repairs. In hindsight it actually was found an advantage to utilise tugs for the rig move, as opposed to one of the supply vessels, as it freed up a vessel for spud gear and allowed for greater accuracy while positioning the rig.

The final fix for West Seahorse 3 was:

Surface Latitude	38° 12' 24.9422" S
Surface Longitude	147° 37' 09.8650" E
Surface Easting	554 229.358 E
Surface Northing	5 771 044.135 N

Zone 55, GDA94

Drilling 36in conductor hole/setting 30in x 20in casing

This phase commenced with the preparation of the wellhead. 13.375in cement plugs were made up to the wellhead and 20in x 13.375in crossover installed to 20in pup joint below the wellhead. The 36in BHA was picked up and run, including 26in bit and 36in hole-opener, Anderdrift tool, float sub and 36in stabiliser. The ROV observed the tagging of seabed at 77.5m. At this point a deviation survey was taken at the seabed with the Anderdrift tool (0deg). West Seahorse-3 was spudded on April 24th 2008 at 04:15hrs. The 36in x 26in conductor hole was drilled riser-less using seawater and unweighted hi-vis sweeps from 77.5m to a section TD of 125m.

The 30in x 20in conductor casing was run without problems to 122m. The conductor included a Quick-Jay connector at 2m above seabed and a butt-weld sub at 9.4m below the seabed. The conductor was successfully cemented with 277.0bbls of 15.90ppg in single slurry, TOC @ mud line.

The butt-weld landing collar was tagged at 86.87m, this measurement was imperative for space out of landing string. Once the space out of the low pressure riser and diverter system was confirmed, the 30in conductor was cut at 19.2mRT (3.18m above CTU deck).

Note: Slower than expected rigging up of the Low Pressure riser was observed due to the rig having only one riser handling clamp.

Drilling 17.5in surface hole/setting 13.375in casing

The 17.5in mud motor assembly was made up with a Baker Hughes MXL-T1V roller cone rock bit and MWD directional tools and run in hole to tag the 20in shoe at 121m. The 20in shoe was drilled out to 125m and the well displaced to 15-20ppb flocculated gel mud. The 17.5in surface hole was directionally drilled in one run and without problems to a sectional TD of 1123m. The final TD of 17.5in hole was observed to be 2.5m to the right and 4.5m below the design line - 5.25m centre to centre. 450bbl of 1.15sg KCl polymer mud was spotted on bottom prior to POOH. The hole required back reaming through tight spots at 1082m, 1076m, 994m, 759m and 739m – 543m (up to 35k lbs over pull).

The 13.375in casing was RIH with a mud line hanger and wellhead to the setting depth of 1117m (the interval 1091m – 1117m required washing down). The mud line hanger was landed and the well circulated with 700bbls mud at 525gpm. The cement lines were pressure tested to 4000psi and a 60bbl seawater spacer pumped.

Cementing operations commenced but the SSR plug set did not work as designed; no

pressure increase was observed to indicate the release of the bottom plug. The casing was cemented with 180bbls of 12.5ppg Class G lead cement followed by 64bbls of 15.8ppg Class G tail slurry. The top plug was released and cement displaced with 12bbls of sea water and 525bbls (calculated volume + 50% shoe track) of 11.0ppg mud. The plug bump was not observed.

An attempt was made to breakout the wellhead running tool. The Dril-Quip Wellhead Running tool failed to release. In attempting to disengage the running tool, torque was applied down the landing string consequently backing out the 13.375in BTC connection at the bottom of the wellhead crossover. The wellhead was retrieved attached to the running tool. In addition, the landing string was found to have backed off below the wellhead. The landing string remaining down hole was successfully fished in two stages. The first two joints below the wellhead were recovered by screwing in with a water bushing. The remainder of the 13.375in casing was backed off from the mud line hanger and retrieved using a spear and bumper sub. After casing and the MLS running tool were recovered, the landing string was re-run along with the wellhead (the total non-productive time for this event being 1.46 days = $1,365,000USD).

The BOPs, overshot and diverter system were made up. The BOPs were tested to 250/5000psi. The 13.375in casing was also pressure tested at this stage to 750psi.

Drilling 12.25in hole

The 12.25in Power Drive rotary steerable BHA was made up with a Reed Hycalog RSX616M-A16 PDC bit and RIH to 285m. Resistance was encountered at this depth and the assembly had to be washed and reamed to 1103m due to the presence of a sheath of cement left inside the casing when the SSR system failed during casing cementation. A total of 7.5 hours (approximately 2 hours longer than normal) was taken to reach the top of the plug at 1103m.

The cement plugs were drilled from 1103 to 1104m whilst displacing the hole to 9.8ppg 6% KCl/Polymer/clayseal mud. Very slow progress was made while drilling out cement plugs and it was suspected that plugs were spinning on the float collar. The shoe track and float shoe were drilled out to 1117m. The rat-hole was cleaned out from 1117m to 1123m and 3m of new formation was then drilled. A FIT was performed to 13.65ppg EMW without leak off and drilling then continued from 1126m to 1392m. Directional drilling continued from 1392m to top Latrobe at 1507m at which point control drilling commenced to 1559m at 30m/hr for recording LWD logs. At this point a 6bbl gain and a 0.27% gas peak were observed simultaneously by the driller. The well was then shut in to investigate the gain; no indication of pressure on the drill pipe or casing side was observed. The well was opened and flow checked with no flow found. The well was then circulated bottoms up, with a maximum gas peak of 0.13%. Drilling recommenced from 1559m to the well TD of 1810m once again at a controlled drilling rate of 30m/hr. The hole was circulated clean and the drill string POOH, wiping tight spots at 1610m, 1582m, 1572m and 1533m. The BHA was then POOH from 1533m to 30m and racked back.

Logging 12.25in hole

The Schlumberger LWD and steerable tools were then laid out and the wire line logging tools rigged up for the following logs:

Log #1 PEX-HRLA-BHC
Log#2 MDT - GR (Pressure Sampling)
Log#3 MSCT - GR (Rotary Sidewall Cores)

The tools for Log #1 were picked up, Radio Active sources loaded and RIH. Logging tools were unable to pass 1775m. The tools were pulled back and a repeat section recorded over the interval 1690m-1540m. Another attempt to continue to RIH past 1775m was made but hung up once more with full tool string weight. This was repeated 4 times without success, logging back up from 1775m to casing shoe and continued logging GR to seabed. Log #1 tools were then POOH, the Radio Active sources removed and rigged down.

The MDT tools for Log #2 were then picked up and RIH to 1585m; depths were correlated and 27 pre-tests were conducted. Three pump-out stations were obtained from which 4 samples were taken at 1567m. Five further pre-test positions were then attempted and the logging tool then POOH taking 800 lb over-pulls at three places inside the casing and between the shoe and 980m.

The MSCT tools for Log #3 were then picked up, RIH and depths were correlated from 1720m – 1640m. The tools were RIH to 1694m and cores were attempted to be taken at 1694m and 1686m. Tool failure occurred at both of these depths due to mechanical failure and the tool was POOH for checking (2 hours NPT recorded). The coring extend mechanism was found to be blocked with sticky cuttings. The MSCT tools were cleaned out and RIH. 14 cores were cut, and 12 successfully recovered to surface.

Note: Static losses of approximately 2-3bbls/hr were incurred whilst wire line logging.

Well suspension and abandonment

This phase commenced with RIH of the mule shoe on drill pipe to tag fill at 1770m. The TDS was made up and then commenced washing down from 1770m to 1771m but was unable to work past this point. The side entry sub and TIW valve were rigged up on the drill pipe with the mule shoe at 1770m where 5bbl of drill water was pumped and lines were pressure tested to 1000psi without problems. 74bbl of 15.8ppg cement slurry was then mixed and pumped and cement was displaced with 102bbl of mud to spot balanced plug #1A from 1770m to 1630m. The side entry sub was then rigged down and string was POOH from 1770m to 1633m.

The TDS was made up and circulated bottoms up, dumping cement contaminated returns at the surface. The side entry sub and TIW valve were rigged up for the second stage of the bottom cement plug (plug#1B). 5 bbl of drill water was pumped and lines were pressure tested to 1000psi without problems. 78 bbl of 15.8ppg slurry was then mixed and pumped and the cement was displaced with 92 bbl of mud for balanced plug #1B from 1633m to 1500m. The side entry sub was then rigged down and the string POOH from 1500m to 1416m.

The well was then circulated bottoms up with no cement being observed in returns to surface. The string was POOH to 1237m. Concurrently the Quick Jay anti-rotation pin was pulled from the 30in Quick Jay connector located 2m above the mud line. The string was then RIH from 1237m to 1416m and the TDS made up while washing down and tagging the top of plug #1B at 1490m. The string was then POOH to 1249m and a 50 bbl pill of high vis mud spotted from 1249m to 1149m.

The side entry sub and TIW valve were then rigged up in preparation for plug #2. 5bbl of drill water was pumped and lines were pressure tested to 1000psi without problems. 65bbl of 15.8ppg of cement slurry was then mixed and pumped and the cement displaced with 60bbl of mud for balanced plug #2 from 1149m to 1030m. The side entry sub was then rigged down and the string POOH from 1030m to 942m. The well was then circulated bottoms up with no cement returns observed at surface and continued to POOH to 325m. The circulating head and surface lines were then rigged up and plug #2 was pressure tested to 1500psi.

The string was then POOH and a 50bbl pill of high vis mud spotted from 325m to 307m. The side entry sub and TIW valve were then rigged up in preparation for plug #3. 5bbl of drill water was pumped and lines were pressure tested to 1000psi without problems followed by pumping of 6bbl of drill water. 38bbl of 15.8ppg of cement slurry was then mixed and pumped followed by 2bbl of drill water for balanced plug #3 from 207m to 130m. The excess cement was then reverse-circulated and the hole displaced with seawater.

The string was then POOH from 130m to 30m. The BOP and wellhead were jetted with seawater. The diverter, overshot and overshot riser were then picked up and laid out followed by the nippling down of the bell nipple and lower riser joints which were also laid out. The BOPs were then nippled down and skidded back. The nominal bore protector was retrieved and the valves on the wellhead removed. The wellhead running tool was then picked up and made up to the wellhead. The wellhead was pulled and broken off at the 20in crossover and laid out. The 20in x 13.375in wellhead crossover was cut and laid out followed by the cutting and laying out of the 13.375in casing landing string and MLS running tool.

The 13.375in temporary abandonment cap was then picked up and RIH but was unable to pass through the connector of the 30in conductor at 29m. The cap was then POOH and 2.25cm were ground off of each centraliser blade in an attempt to pass through the hang up point. This failed however as the cap was re-run in hole and once again was unable to pass below 29m. The T/A cap was POOH once more, and a further 3mm ground off of each centraliser blade and re-RIH without problems. The cap was then engaged and set into the 13.375in MLS casing hanger; the abandonment cap running tool was POOH.

The 30in casing spear was then picked up, made up and RIH to latch onto the 30in conductor taking the weight of the 30in conductor casing while releasing the tension on the CTU and removing the icon clamp and CTU insert.

The Quick-Jay connection was then backed out at the seabed with 6k ft-lb and the 30in conductor was pulled to surface. The 30in bushing was then installed and an unsuccessful attempt made to remove the 30in spear; instead the first 30in joint was laid out with spear still in place – this was subsequently retrieved by cutting the conductor. A further four joints of 30in conductor, including the joint with Quick-Jay pin connection, were pulled and laid down. The 30in handling equipment was then rigged down

Rig demobilisation

The CTU was then nippled down and secured, the 30in trash cap made up onto the running tool and RIH to 71m. The ROV failed and the trash cap was POOH; the running tool racked back while the ROV problems were being rectified. The BOP slings were then rigged up, equipment cleared from CTU work platform and mousehole removed. The work platform was transferred to the main deck and the CTU moved to storage position and the choke line removed from the CTU deck.

At this point preparation began for skidding the rig into position (slot #2) for the next well. The slings were picked up for the lifting of the CTU deck extension from the boat. The service lines were then rigged down and the rig skidded out into position for lift off the boat.

The 30in trash cap was installed after the ROV had been repaired.

***** 16.30hrs, 9th May 2008: END OF WELL: WEST SEAHORSE - 3 *****

The total time spent on the well was 17.25 days, including mobilisation.

Mobilisation and drilling phases

Observations by Phase		Comments / Corrective Action Taken or Proposed
Mob & rig up	1. Slower than expected rigging up of the Low Pressure riser was observed due to the rig having only one riser handling clamp.	1. Back up clamp is being arranged.
Drill 36in conductor hole		
Set 30in conductor		1. More
Drill 17.5in hole		
Set 13.375in casing	1. SSR plug set did not work as designed; no pressure increase was observed to indicate the release of bottom plug; Upon retrieval of the wellhead running tool the upper fin of the cement wiper plug release dart was found lodged in the crossover above. 2. In attempting to disengage the wellhead running tool, torque was applied down the landing string consequently backing out at the 13.375in BTC connection at the bottom of the wellhead crossover resulting in fishing operations.	1. Following actions captured in cementing review- • Omit bottom plug from future jobs • Calliper ball/dart IDs and all running string ID's prior to job to ensure no shoulders present • Limit ball/dart landing rate to 1bpm • Preset on board computer sampling rate to 5 per second to enable capturing full data for future analysis 2. Wellhead running procedures to be modified as below- • Break connection between running tool and housing at rotary prior to running in hole • Clutch type running tool to be run with blocks unlocked • Modify drill pipe running adapter to include a 1in ball valve to allow any trapped pressure to be bled off
Drill 12.25in Hole		
Log 12.25in		
Suspend well		
Rig down & move out		

Health, safety & environmental summary

The West Seahorse-3 well was drilled with a satisfactory HSE performance having no lost-time or medical treatment incidents recorded and only one minor first aid incident. Two near-miss incidents occurred, the risks of which were minimised with the use of good planning and foresight, covering the hazards with the crew during Pre Tour meetings prior to commencing the jobs and heightening awareness of the correct procedures to follow.

The sound execution of this well is attributed to a combination of meticulous planning, the distribution of written procedures for each job highlighting possible HSE issues and covered in pre job safety meetings, teamed with the conscientious efforts of all management and crew.

The following is an overview of incidents, tests, and drills etc, which were evaluated and conducted during the time on West Seahorse-3:

Parameter	Units		Comment(s)
Man-hours	number	19332	
STOP Cards Generated	number	567	
Total MODU Proactive Safety Efforts	number	1006	Including Issued / Active Work Permits, JSA, Work Instructions, Pre Job safety Meetings, TOFS, Area Authority Audits & STOP
Audit			
Internal EP Compliance Audit	number	1	Done on MODU on 2nd – 5th May 08;
MODU Mini HSE Audits	number	3	By the Drilling HSE Advisors
Training			
ADA ERG Exercise	number	1	Emergency Response table top exercise Southern Stars for 3D Oil held on 2th May 08
Environmental Plan Training	number	1	Done for Pacific Battler on 30th May 08
MODU Emergency Drill	number	4	1) 2 Fire / Abandon / Muster (Weekly) Drills held on 27th Apr 08 and 4th May 08 2) 1 Medical Drill held on 3rd May 08 3) 1 Spill Drill held on 4th May 08
Reportable Incident			
Lost Time Injury (LTI)	number	0	
Alternate Duties Injury (ADI)	number	0	
Medical Treatment Injury (MTI)	number	0	
Non Reportable Incident			
First Aid Case	number	1	2/5/08 - Crew had laceration and bruise on nose when trying to catch a thrown lanyard.

Parameter	Units		Comment(s)
Near Miss	number	2	1) 1/5/08 - Dislodged shipping plugs due to trapped pressure in running tool; 2) 2/5/08 - Slipped out wire out of snake during changing out of wire on air hoist, on rig floor.
Recordable incidents			
Spills - occurrence	number	0	
Spills - quantity	Litre	0	
Wastes			
Hazardous wastes	m^3	1	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	57	
Marine User Interaction			
Cetacean sightings	number	0	
Errant vessel interaction	number	0	
Impacts from Fishing Operations (interaction)	number	0	
Water Based Mud (WBM)			
Volume water based drilling fluid dispose into the ocean (m^3)	m^3	734.8	
Volume of drill cuttings using WBM disposed to the seabed (m^3)	m^3	206.9	

Highlights

- No major HSE incident
- No spill or damage to environment
- Well completed within planned time and budget
- All geological drilling targets achieved
- Acquired almost all programmed LWD and wireline log data
- Deployed Powerdrive rotary steerable system successfully saving time and cost and improving wellbore quality. It is estimated half a day was saved by comparing the time taken to drill to a well drilled previously using a conventional mud motor.

Lowlights

- Fishing of 13.375in casing landing string resulting from inability to back-off wellhead running tool.
- Failure of SSR plug system leading to the presence of a cement sheath inside the 13.375in
  casing.
- Failure of the MSCT tool during log #3 caused 2 hours Non Productive Time (NPT).
- ROV failure caused 1 hour non productive time while running 13.375in TAC and 30in trash cap.
- There were delays delivering the Valkyrie vessel and so Apache sublet the Wrangler from Santos (ex Port Melbourne) to fill in the gap until the Valkyrie arrived. The Valkyrie failed after just one day after mobilisation from Singapore due to high vibration from pipework around the engines. Both the port and starboard engines gear box oil pump failed on the 28th of March and 10th April respectively causing further delays.

3. TIME ANALYSIS

Summary

The time from beginning to end of West Seahorse-3 well totalled 17.25 days, compared to the programmed total (normalised for the actual scope of work) of 17.25 days. The original AFE programmed total was 26.77days. The change from the original to the normalised AFE time breakdown is explained on the grounds of the following:

- Cancellation of the 9.625in casing phase (reduction of 1.92 days)
- Cancellation of well testing (reduction of 7.60 days)

Therefore the actual time on location equalled the normalised AFE planned time (i.e. ignoring the casing and testing phases).

Total Non-Productive Time (NPT) amounted to 2.06 days for West Seahorse-3

- 70.94% of all NPT occurred during the setting of the 13.375in casing. The Drill-Quip Wellhead Running tool failed to release and the wellhead was brought back to surface still attached to running tool. In attempting to disengage the running tool torque was applied down the landing string backing out at the 13.375in BTC connection at the bottom of the wellhead crossover, (costing 1.46 days). The landing string remaining down hole was successfully retrieved and re-run as per program.
- 17.15% of all NPT occurred during the drilling of the 12.25in hole. A 6bbl gain was observed by the driller at the same time as a 0.27% gas peak. Shut in well and checked flow – no flow (costing 0.042days)
- 3.89% of all NPT occurred whilst logging the 12.25in open hole. MSCT tool failure. (costing 0.08 days)
- 1.94% of all NPT was incurred during suspension, due to ROV problems. (costing 0.042days)
- Some time was lost in making up the wellhead assembly (to install an adjuster nut omitted initially) and nippling up of the diverter due to having only one riser handling clamp on the rig.

All of the non productive times incurred were offset by time savings elsewhere in the programme and overall the well was completed in time within the AFE. In total 11.93% of the time on well was incurred as non-productive time, which is in the order of the industry average.

Non-productive time analysis

Phase (in sequence)	NPT (days)	NPT by Cause								
		WOW	Hole Condition		Rig Equipment		Third Party		Down hole Equipment	
Mob & rig up	0.00									
Drill 36" conductor hole	0.00									
Set 30" conductor	.125								.125	3 hour was lost making up the wellhead assembly (to install an adjuster nut omitted initially)
Drill 17.5" hole	0.00									
Set 13.375" casing	1.46				0.04	Unable to break out TDS	0.17	Unable to break out wellhead running tool. Retrieved with wellhead still attached, backed out at the 13.375in BTC connection at the bottom of the wellhead crossover.	1.25	Fished out 13.375in landing string remaining down hole due to wellhead running tool malfunction Landing string re-run as per program.
Drill 12.25" hole	0.353		0.04	Well shut-in to investigate 6bbl gain at the same time as a 0.27% gas peak. Circulated bottoms up (Max gas 0.13%)					.313	It took longer than expected to wash and ream from 285m to 1103m MDRT.

Log 12.25" hole	0.08						0.08	Log#2: MSCT- mechanical tool failure when attempting to take cores. POOH hole, checked tool - coring mechanism blocked with sticky cuttings		
Suspend well	0.04						0.04	Troubleshoot ROV		
Rig down & move out	0.00									
TOTALS	2.058	0.00	0.04		0.04		0.29		1.688	
Percentage of NPT	100.0%	0.0%	1.94%		1.94%		14.09%		82.02%	
Percentage of Total Well Time	11.93%	0.0%	0.23%		0.23%		1.68%		9.79%	

Time reconciliation by well phase

OPERATION PHASE	Planned Time (days)	Actual Time (days)	Total NPT			Rig Repair			WOW			Delta
			days	% of Total Actual Time	% of Total NPT Time	days	% of Total Actual Time	% of Total Rig Repair Time	days	% of Total Actual Time	% of Total WOW Time	
Mob & rig up	2.50	1.46	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-1.04
Drill 36" conductor hole	0.67	0.50	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-0.17
Set 30" conductor	1.44	1.81	.125	0.00%	6.07%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	+0.37
Drill 17.5" hole	3.38	2.17	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-1.21
Set 13.375" casing	2.68	5.27	1.46	8.46%	70.94%	0.04	.23%	100.00%	0.00	0.00%	0.00%	+2.59
Drill 12.25" hole	2.57	1.60	0.353	0.23%	17.15%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-0.97
Log 12.25" hole	1.75	1.60	0.08	0.46%	3.89%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-0.15
Suspend well	2.13	2.71	0.04	0.23%	1.94%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	+0.58
Rig down & move out	0.13	0.13	0.00	0.00%	0.00%	0.00	0.00%	0.00%	0.00	0.00%	0.00%	-0.01
TOTALS	**17.25**	**17.25**	**2.058**	**11.93%**	**100.00%**	**0.04**	**.23%**	**100.00%**	**0.00**	**0.00%**	**0.00%**	**-0.00**

Time breakdown

Operation Phase	Time (days)					
	Planned	Actual	Programmed	Unprogrammed	NPT Programmed	NPT Unprogrammed
Mob & rig up	2.50	1.46	1.46	0.00	0.00	0.00
Drill 36" conductor hole	0.67	0.50	0.50	0.00	0.00	0.00
Set 30" conductor	1.44	1.81	1.81	0.00	0.125	0.00
Drill 17.5" hole	3.38	2.17	2.17	0.00	0.00	0.00
Set 13.375" casing	2.68	5.27	5.27	0.00	1.46	0.00
Drill 12.25" hole	2.57	1.60	1.60	0.00	0.353	0.00
Log 12.25" hole	1.75	1.60	1.60	0.00	0.08	0.00
Suspend well	2.13	2.71	2.71	0.00	0.04	0.00
Rig down & move out	0.13	0.13	0.13	0.00	0.00	0.00
TOTALS	**17.25**	**17.25**	**17.25**	**0**	**2.058**	**0**

Key observations and corrective actions - mobilisation and drilling phases

Observations by Phase		Comments / Corrective Action Taken or Proposed
Mob & rig up	2. Slower than expected rigging up of the Low Pressure riser was observed due to the rig having only one riser handling clamp.	2. Back up clamp is being arranged.
Drill 36in conductor hole		
Set 30in conductor		2. More
Drill 17.5in hole		
Set 13.375in casing	3. SSR plug set did not work as designed; no pressure increase was observed to indicate the release of bottom plug; Upon retrieval of the wellhead running tool the upper fin of the cement wiper plug release dart was found lodged in the crossover above. 4. In attempting to disengage the wellhead running tool, torque was applied down the landing string consequently backing out at the 13.375in BTC connection at the bottom of the wellhead crossover resulting in fishing operations.	3. Following actions captured in cementing review- • Omit bottom plug from future jobs • Calliper ball/dart IDs and all running string ID's prior to job to ensure no shoulders present • Limit ball/dart landing rate to 1bpm • Preset on board computer sampling rate to 5 per second to enable capturing full data for future analysis 4. Wellhead running procedures to be modified as below- • Break connection between running tool and housing at rotary prior to running in hole • Clutch type running tool to be run with blocks unlocked • Modify drill pipe running adapter to include a 1in ball valve to allow any trapped pressure to be bled off
Drill 12.25in hole		

Observations by Phase		Comments / Corrective Action Taken or Proposed
Log 12.25in hole		
Suspend well		
Rig down & move out		

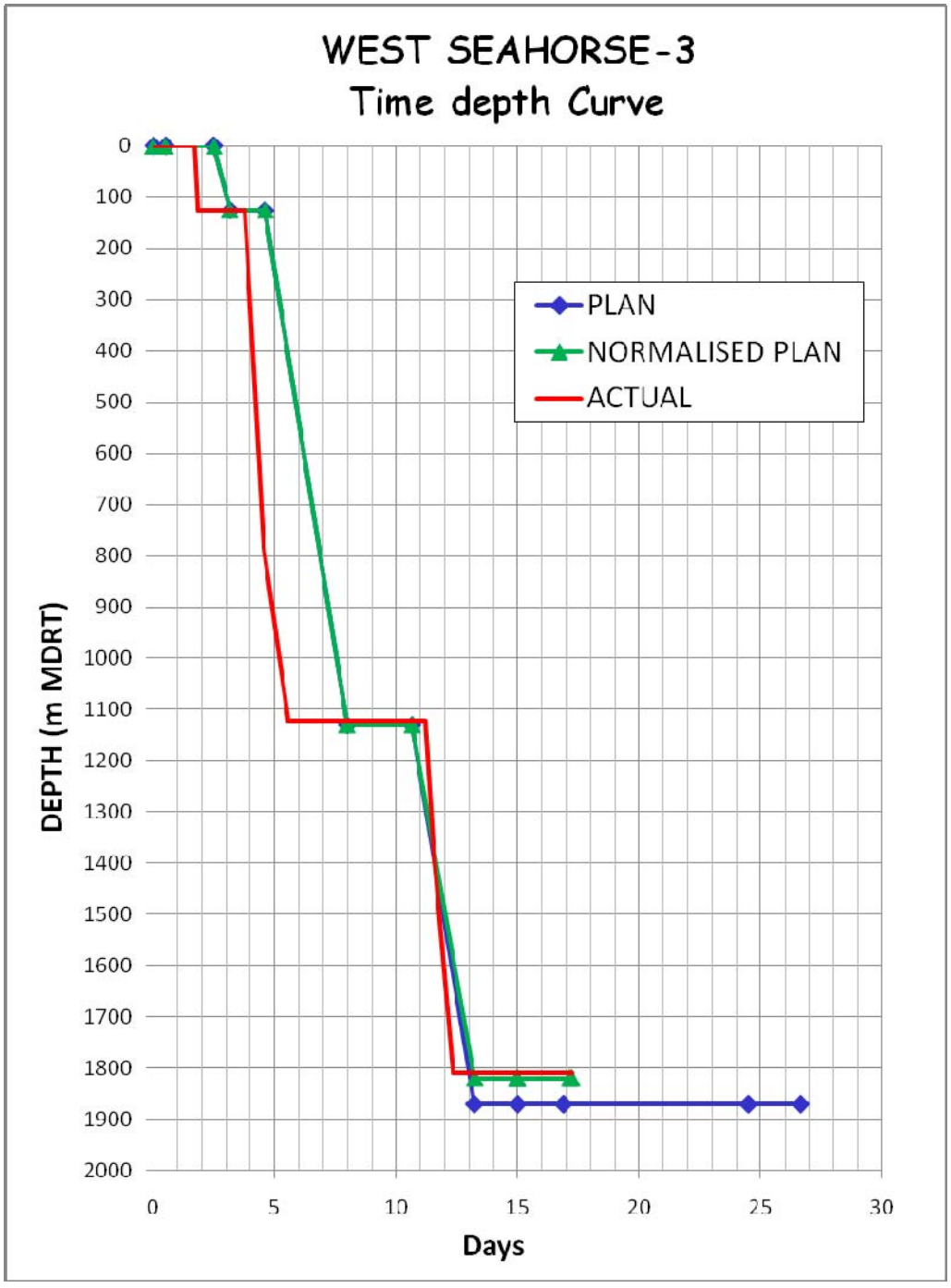


Figure 4. Time Depth Curve. Note: The normalized plan reflects the actual scope of work and excludes 9.625in casing and well testing operations.

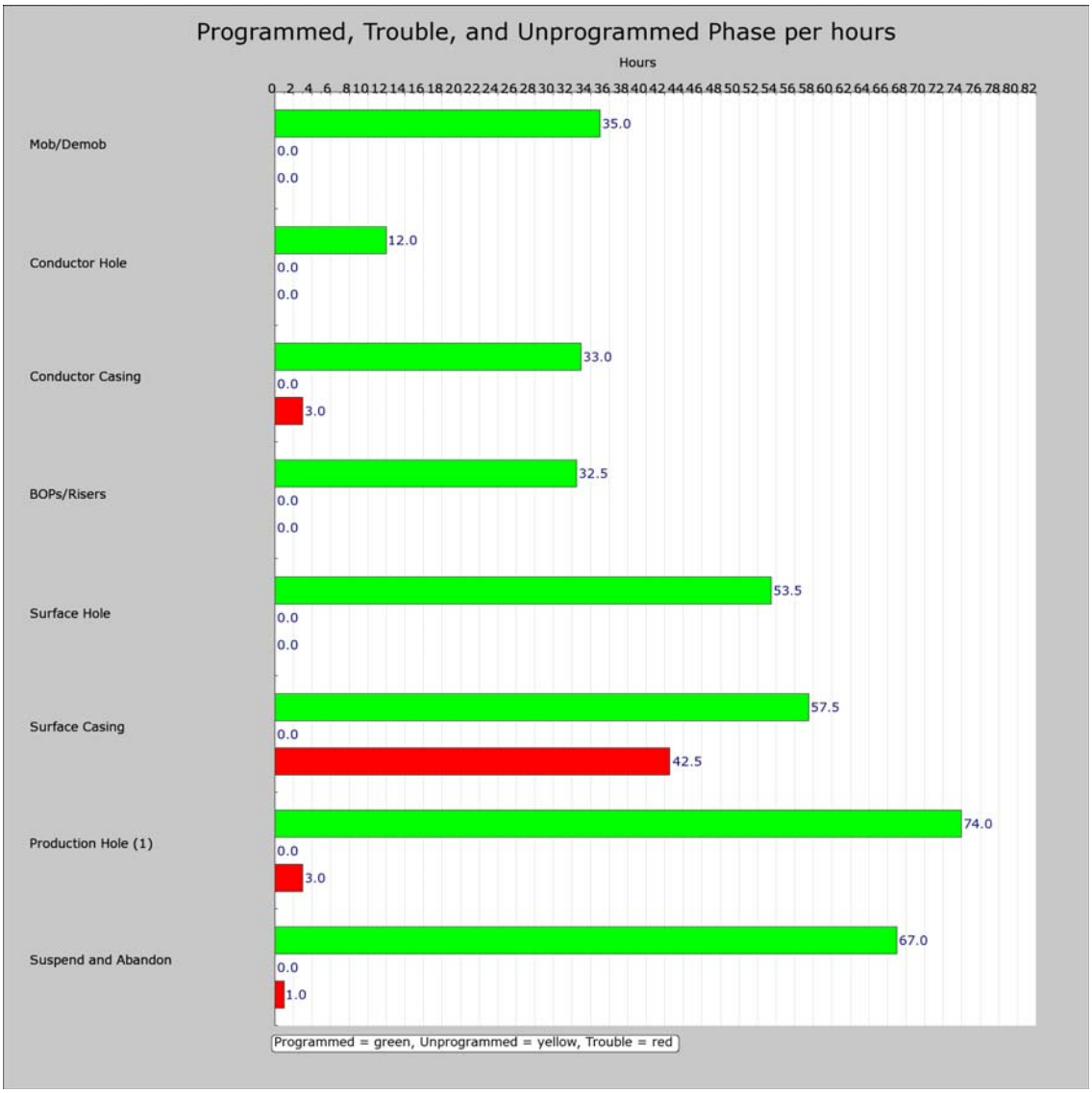


Figure 5. Programme, Trouble and Un-programmed by Phase.

Total Time on Operations : 414 hrs
Total Productive Time : 364.5 hrs
Total Lost Time : 49.5 hrs
Total Unprogrammed Time : 0 hrs

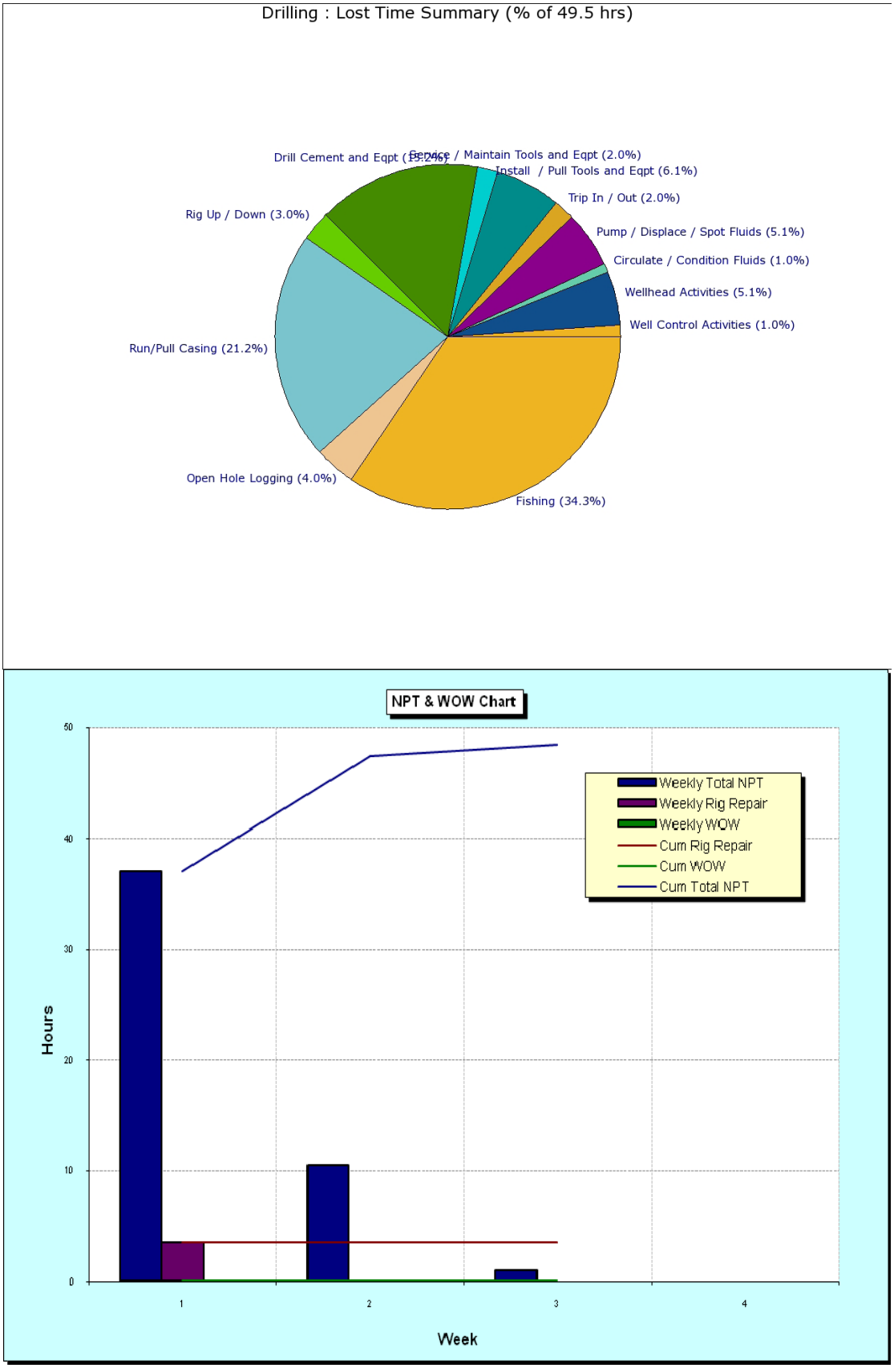


Figure 6. Lost time summary during drilling period.

4. DRILLING RECORDS AND ENGINEERING

Drilling summary report

West Seahorse-3 was designed as an 'S' profile deviated well. The surface location was selected approximately midway between the sub-surface locations of Wardie-1 and West Seahorse-3. The West Seahorse-3 well was spud in at 04:15 hrs on 24 April 2008, using a 660mm (26") Reed Rock Y1 1C bit with a 914mm (36") Hole Opener. The hole was drilled from the seabed at 77.5 m to 125.0 mMDRT. This section was drilled using seawater and hi-vis gel sweeps, with cuttings returns to the seabed. The 762 mm x 508 mm (30" x 20") conductor string was run and cemented with the 508 mm casing shoe set at 122.0 mMDRT.

After cementing the conductor, the BOPs and marine riser were run. The BOPs were pressure-tested and the diverter installed. The 445mm (171/2") hole section was drilled using one tricone rock bit. A Hughes MXL-T1V bit (NB2) was made up to a directional drilling BHA with motor and MWD tools. The hole was directionally drilled using PHG mud. The bit drilled out the 508 mm (20") casing shoe from 121.0 to 122.0 mMDRT and then the well was directionally drilled a further 998.0 meters to section TD at 1123.0 mMDRT. The well was kicked off at a depth of 172mMDRT and angle built to approximately 27.4° by 682mMDRT and this angle was maintained for the tangent section. The 340 mm casing was run and cemented with the shoe set at 1117.0 mMDRT.

The 311 mm (121/4") hole section was drilled with a new Reed RSX61 6-MA1 6 PDC bit. The bit was made up to a directional drilling BHA with Powerdrive and LWD tools. After tagging the cement high at 285.0 mMDRT, the bit washed and reamed down to the top of float collar at 1103.0 mMDRT. Then the cement plugs, float collar, shoe track, float shoe were drilled out before deepening the hole by three meters to 1126.0 mMDRT. The PHG mud in the well was displaced to KCl-Polymer water-based mud system initially weighted to 1.13 sg while drilling out the cement and float collar. Pulling back into the shoe, a Formation Integrity Test (FIT) was performed with 1.13 sg mud yielding an Equivalent Mud Weight (EMW) of 1.64 sg (no leak-off). This PDC bit drilled the entire section to well TD at 1810.0 mMDRT. The hole angle and azimuth was maintained until the second kick-off point at ~1 420 mMDRT where it was steered down to a second tangent angle of approximately 8.75° through the Latrobe target interval. Total depth was reached at 19:00 hrs on 04 May 2008 and the bit was pulled out for wireline logging.

After the wireline logging was successfully completed, the West Seahorse-3 well was suspended with four cement plugs that were set on 07 and 08 May 2008. Cement plug 1A was set from a hold-up depth of 1770m to 1630 mMDRT and was followed immediately by cement plug 1B from 1630m to 1500 mMDRT. After WOC, the top of plug 1 B was tagged by the drill string at 1490 MDRT with 8 klbs weight. Cement plug 2 was then set across the 340 mm casing shoe from 1147m to 1030 mMDRT. Plug 2 was pressure tested to 1500 psi after the cement had hardened. The final suspension cement plug was set from 270m to 130 mMDRT. A temporary abandonment cap (or "trash" cap) was then installed on top of the 762mm (30") Quick-Jay box connector, 2m above the seabed.

The CTU deck extension was installed on the MODU West Triton and the cantilever was then skidded forward approximately 2.5m to the Wardie-1 slot. The rig was released to the Wardie-1 well at 16:30 hrs on 09 May 2008.

Final drilling, casing and cementing schematics

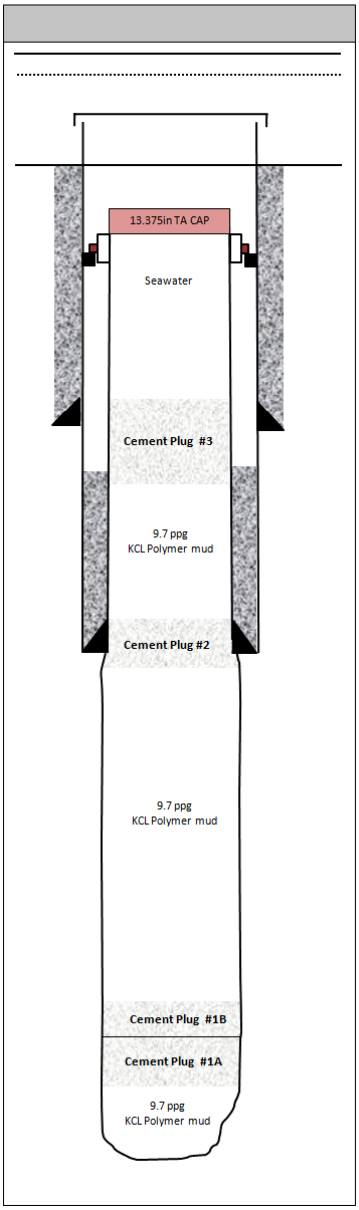
OPERATOR:	FIELD / WELL:	WELL SKETCH:
3D Oil Ltd	**WEST SEAHORSE-3**	**AS SUSPENDED**
DRILLING RIG: (RT 96.2' ABOVE ML) **WEST TRITON (JACK UP)**	COMPLETION RIG: (RT 96.2' ABOVE ML) **WEST TRITON** (JACK UP)	LEASE: **VIC P/57**
		API NUMBER:

DIRECTIONAL DATA				
KOP:	0.00	deg @	180m	MD
MAX DEV:	28.34	deg @	1333m	MD
DLEG SEV:	NA	deg @	NA	MD
DEV @ PERFS:	NA	deg @	NA	MD
RET to VERT:	NA	deg @	NA	MD

DRILLING / COMPLETION FLUID	
DRILLING FLUID:	9.70 ppg KCL Polymer mud
DRILLING FLUID:	
COMPLETION FLUID:	
COMPLETION FLUID:	
PACKER FLUID:	

TUBULAR DATA								
Tubulars	OD	ID	Weight	Grade	Thread	TVD	MD	TOC
CONDUCTOR	30.000	-	310.00	X52	HD60MT	122.0	122.0	ML
SURFACE	13.375	-	68.00	N-80	BTC	746.5	1,117.0	ML
PRODUCTION								
PRODUCTION								
PRODUCTION								
PROD TIEBACK								
PROD TIEBACK								
TUBING								
TUBING								
TUBING								
TUBING								

WELLHEAD DATA			
TYPE	FMC SST (5" x 2")		
WP	10,000		
TREE	CAP	FLANGE:	
		THREAD:	
TUBING HANGER:			
Upper Plug OD			
Lower Plug OD			
ELEVATIONS:		WTR DEPTH:	39.5
TRT-ASL:	39.9	OTHER:	
RT-ML:	77.5	RT-ML:	77.5



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD - BRT	DEPTH MD-BRT
SEA LEVEL			39.5	39.5
MUDLINE			77.5	77.5
MLS Support			86.9	86.9
30" CONDCUTOR SHOE			122.0	122.0
CEMENT PLUG #3 (70m) 130m TO 207m MD-BRT			130.0	130.0
CEMENT PLUG #2 (136m) 1030m TO 1149m MD-BRT			954.2	1,030.0
13.375" CASING SHOE			1,035.2	1,117.0
CEMENT PLUG #1B (143m) 1490m TO 1633m MD-BRT			1,388.8	1,500.0
CEMENT PLUG #1A (137m) 1633m TO 1770m MD-BRT			1,506.1	1,630.0
12.25" TD			1,684.1	1,810.0

COMMENTS:			
	PLUG BACK DEPTH:		
	TOTAL WELL DEPTH:	1,684.1	1,810.0
	PREPARED BY:	DATE:	
DRAWING NOT TO SCALE	M. Siegman	8/08/2008	Rev 0

Figure 7. Summary of drilling schmatics and engineering.

Drilling and engineering

914 mm (36") Hole Section

24 April 2008

Bit Run No. 1 Summary

Bit No.	NB1
Bit Size, mm	660 mm with 914 mm Hole Opener
Bit Type	Rock / Reed Y1 1 C
Serial Number	34406
Jets	3x22, 1x16
Depth In, mMDRT	77.5
Depth Out, mMDRT	125.0
Bit Grading	0-0-RR-0-0-I-0-TD

Drilling Parameters

WOB, mt	0.2 – 5.2
RPM Surf	64
Pump Pressure, kPa	1613 – 6543
Flow In, lpm	2244 – 4481
Torque, kNm	0.05 – 6.95

Mud

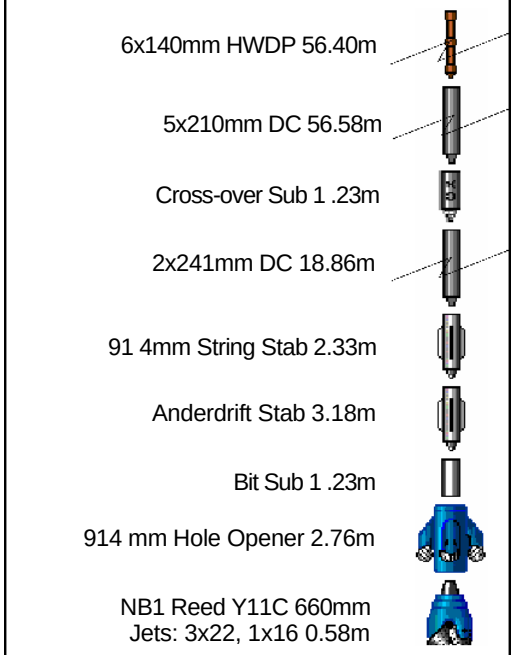
Seawater	1.06 sg

High viscosity gel sweeps

Lithology
Returns to seabed.

Drilling Summary
This spud assembly was made up, run in, tagging the seabed at 77.5 mMDRT. West Seahorse-3 was spudded at 0415hrs on 24 April 2008, drilling 914 mm hole from seabed to 125.0 mMDRT. At TD, a PHG mud pill was pumped around the hole before displacing the hole to PHG mud.

BHA No. 1 134.77m



445 mm (17.5”) Hole Section

25 – 28 April 2008

Bit Run No. 2 Summary

Bit No.	NB2
Bit Size	445 mm
Bit Type	Rock / Hughes MXL-T1 V
Serial Number	60654689
Jets	3x20
Depth In, mMDRT	125.0
Depth Out, mMDRT	1123.0
Bit Grading	2-2-WT-A-E-I-BT-TD

Drilling Parameters

WOB, mt	0.5 – 26.3
RPM Surf	0 – 100
Pump Pressure, kPa	8446 – 24386
Flow In, lpm	3081 – 4678
Torque, kNm	0 – 20.25

Mud

PHG	1.10 – 1.14 sg

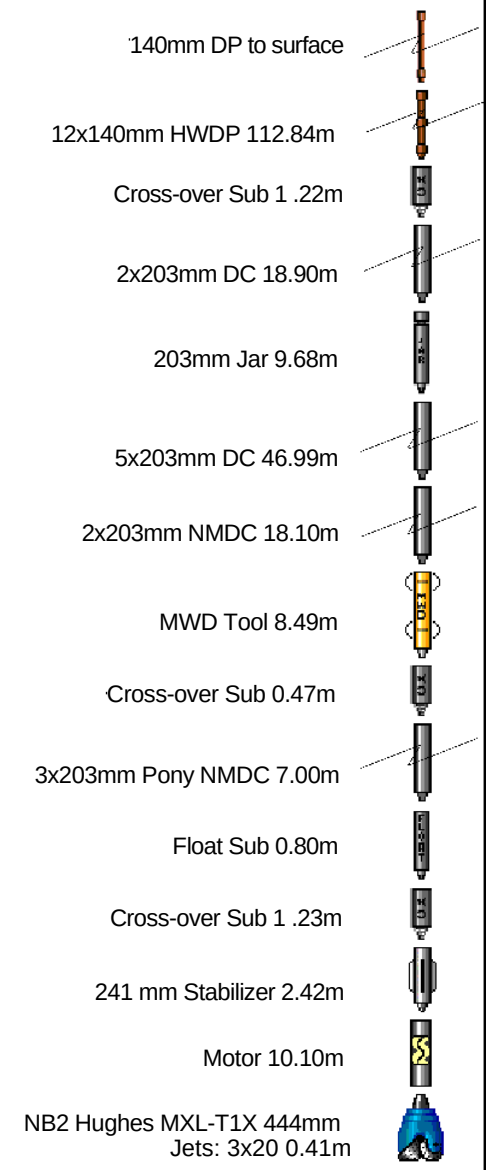
Lithology

Calcarenite, Calcilutite, Calcilutite, Sand, Marl & Claystone

Drilling Summary

A Hughes MXL-T1V bit was made up to a directional drilling BHA with MWD tools. After tagging the top of 508mm (20”) shoe, the bit drilled out 508 mm shoe and rat hole to 125.0 mMDRT. The 445 mm hole section was directionally drilled with 1.10 – 1.14 sg PHG mud to TD of section at 1123.0 mMDRT.

BHA No. 2 238.65m



311 mm (12.25") Hole Section

2 - 5 May 2008

Bit Run No. 3 Summary

Bit No.	NB3
Bit Size	311 mm
Bit Type	PDC / Reed RSX61 6 MA1 6
Serial Number	218662
Jets	3x15, 3x16
Depth In, MDRT	1123.0
Depth Out, mMDRT	1810.0
Bit Grading	2-1 -CT-A-X-I-WT-TD

Drilling Parameters

WOB mt	0.5 – 17.3
RPM Surf	56 – 171
Pump Pressure kPa	8590 – 13520
Flow In lpm	3520 – 3993
Torque kNm	1.92 – 20.27

Mud

KCl-Polymer	1.13 – 1.16 sg

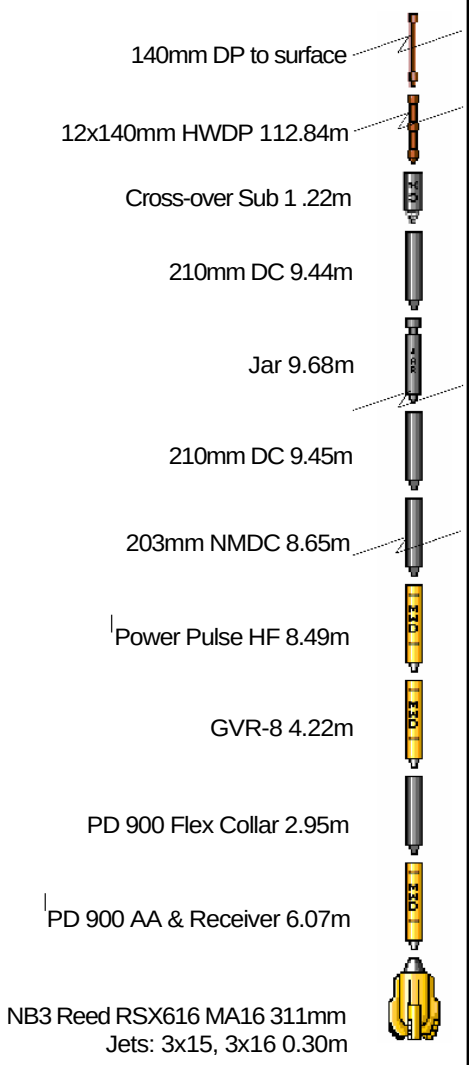
Lithology

Calcisiltite, Calcilutite, Calcareous Claystone, Siltstone, Coal, Sandstone

Drilling Summary

The bit was made up to a drilling BHA with MWD tools. After tagging the cement high at 285.0 mMDRT, the bit washed and reamed down to the top of float collar at 1103.0 mMDRT. Then the bit drilled out shoe track, float shoe and three meters of new formation to 1126.0 mMDRT. The hole was displaced to KCl-Polymer water-based mud system initially weighted to 1.13 sg when drilling out cement and float collar. Pulling back into the shoe, a Formation Integrity Test (FIT) was performed with 1.13 sg mud yielding an Equivalent Mud Weight (EMW) of 1.64 sg. This bit drilled to well TD at 1810.0 mMDRT.

BHA No.3 173.13m



Casing and cementing

762 x 508 mm (30” x 20”) Casing

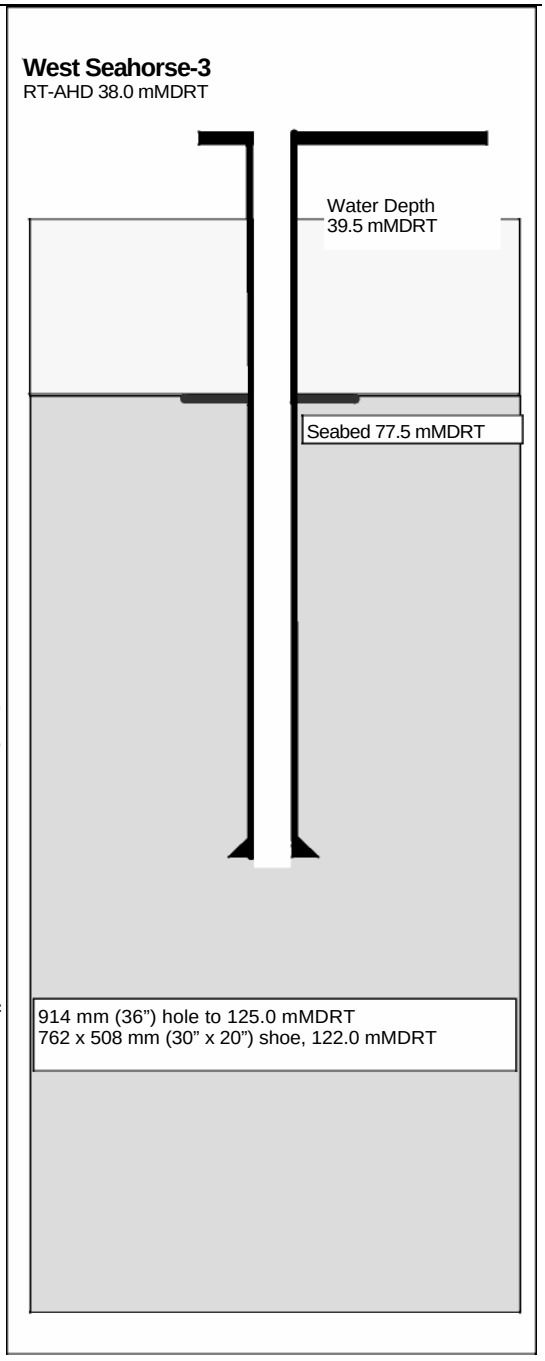
24 - 25 April 2008

Hole Size:	914 mm (36”)
Depth:	125.0 mMDRT
Casing Details	
OD	762 mm (30”)
Grade / Wt:	X52 461 kg/m
Joints:	6 x 762 mm joint
	1 x 508 mm shoe
Shoe:	122.0 mMDRT

Cement Details SLURRY:

Type:	Class G
Weight:	1.9 sg (15.8 ppg)

Slurry Volume: 54.5 m^3 (343 bbls)



Summary

The 762 x 508 mm casing string was run on 24 April 2008. The 508 mm conductor shoe was set at 122.0 mMDRT (casing tally) and cemented as per the cementing program. The cement lines were pressure tested to 1200 psi. A pre-flush comprising 4.76 m^3 (30 bbls) of seawater followed by a further 3.8 m^3 (20 bbls) of seawater with fluoroscein dye was pumped ahead. The cement job consisted of pumping of 54.5 m^3 (343 bbls) of 1 .9 sg (15.8 ppg) class “G” slurry. The cement was displaced with 1.27 m^3 (8 bbls) of seawater. After the casing was hung off in the mudline suspension hanger, the cement stinger and the 140 mm drill pipe were pulled to surface.

340 mm (1 3.375") Casing

28 - 29 April 2008

Hole Size: 445 mm (17.5")
Depth: 1123.0 mMDRT

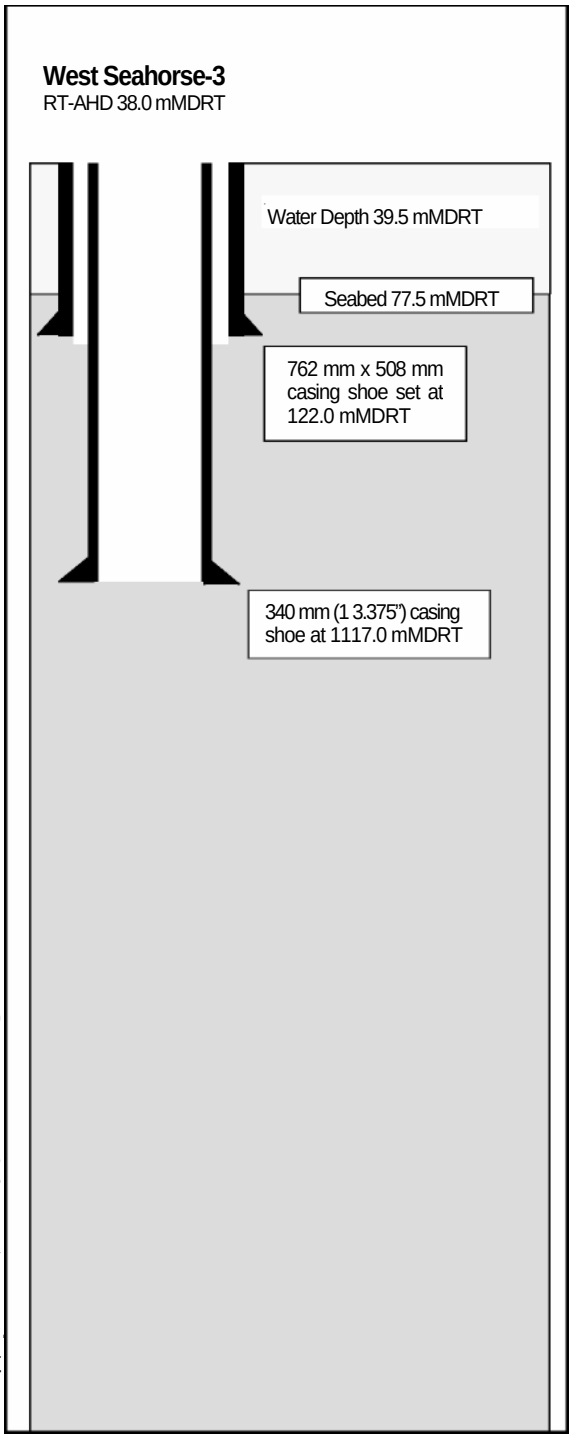
Casing Details

OD 340 mm (1 3.375")
Grade / Wt: N80: 101 kg/m
Joints: 1 Shoe joint
1 Float joint
93 x Casing joints
Shoe: 1117.0 m

Cement Details

LEAD SLURRY:
Type: Class G
Weight: 1.50 sg (12.5 ppg)
Slurry Volume: 28.6 m^3 (200 bbls)

TAIL SLURRY:
Type: Class G
Weight: 1.90 sg (15.8 ppg)
Slurry Volume: 11.5 m^3 (60 bbls)



Summary

The 340 mm casing was run in hole as per 3D Oil's casing program. Once landed, the casing was circulated at 525 gpm with 111 .3 m^3 (700 bbls) of mud. After pressure testing the cement lines to 4000 psi, a 9.5 m^3 (50 bbls) seawater spacer was pumped ahead before the lead and tail slurries were pumped down the casing. A problem was observed when shearing the wiper plug. The cement was displaced with the rig pumps, with 83.5 m^3 (542 bbls) of mud. The plug was not bumped and so the cement was over-displaced by 50% of the shoetrack volume (3 bbls of over-displacement) before the pumps were stopped. The floats held. The casing shoe was set at 1117.0 mMDRT.

Cement plugs

7 - 8 May 2008

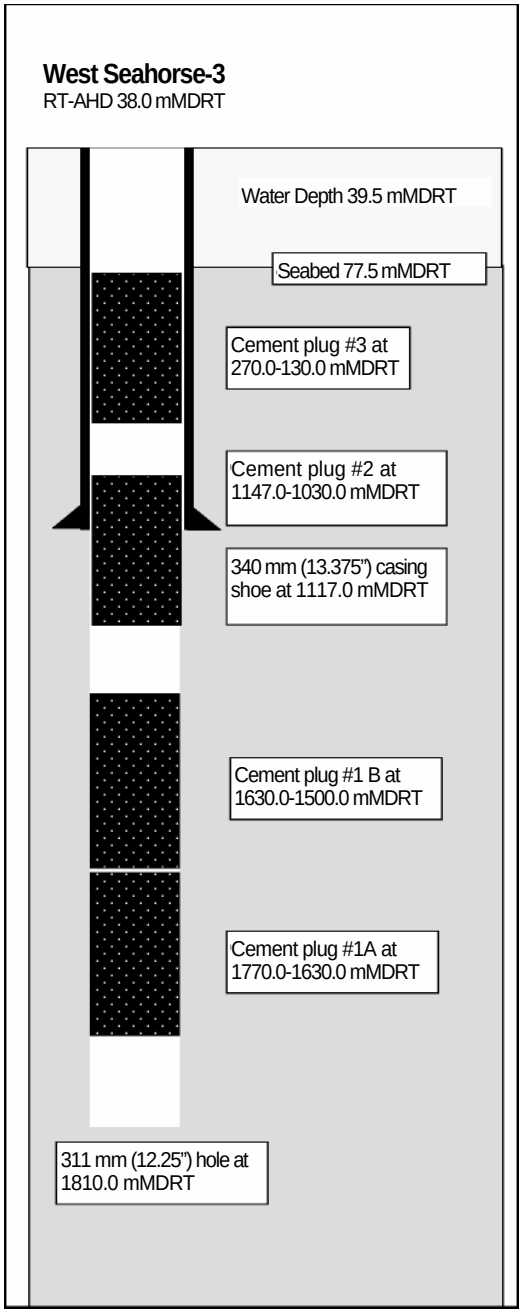
Hole Size: 311 mm (12.25")
Depth: 1810.0 mMDRT

Cement Plug Details CEMENT PLUG #1A:
Type: Class G
Weight: 1.89 sg (1 5.7 ppg)
Slurry Vol: 11.76 m^3 (74 bbls)

CEMENT PLUG #1 B:
Type: Class G
Weight: 1.89 sg (1 5.7 ppg)
Slurry Vol: 12.40 m^3 (78 bbls)

CEMENT PLUG #2:
Type: Class G
Weight: 1.89 sg (1 5.7 ppg)
Slurry Vol: 10.33 m^3 (65 bbls)

CEMENT PLUG #3:
Type: Class G
Weight: 1.90 sg (15.9 ppg)
Slurry Vol: 6.04 m^3 (38 bbls)



Summary

Four cement plugs were pumped to suspend the West Seahorse-3 well. A cement stinger consisting of a mule shoe on 140 mm drill pipe was run in hole and tagged up on fill at 1770 mMDRT. It was not possible to wash down past 1771 mMDRT, so cement plug #1A was set from 1770m to 1630 mMDRT, followed immediately by cement plug #1 B from 1630m to 1500 mMDRT. Plug 1B was subsequently tagged with the cementing string at 1490 mMDRT and weight tested to 8 klbs after cement had hardened. Cement plug #2 was set across the 340 mm casing shoe from 11 47m to 1030 mMDRT. This plug was later successfully pressure tested to 1500 psi. The final cement plug was set from 270m to 130.0 mMDRT. The cement lines were tested to 1000 psi prior to pumping all four cement plugs. The hole was circulated clean and contaminated mud dumped after plugs 1A, 1B and 2 while a reverse circulation of the 140 mm drill pipe volume was done after cement plug 3.

Bit run summary

OPERATOR: 3D Oil Ltd | WELL NAME: West Seahorse-3 | LOCATION: VIC/P-57 | CONTRACTOR: Seadrill | RIG: (MODU) West Triton

Mud Pump Data: Pumps 1, 2, and 3; 165 mm 6.5" Liners; 355 mm 14" Stroke; 97% Efficiency, 16.03 litre/stk (0.1394 bbl/stk)

BIT DULL CHARACTERISTICS | REASONS PULLED

BHA #	Bit No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	CRC HRS	WOB tonne	RPM Surf/Motor	TBR krev	SPP kPa	FLOW lpm	TQ kNm	GRADE I	O	D	L	B	G	O	R	MW SG	REMARKS
West Seahorse-3																											
914 mm (36") Hole Section 77.5 - 125.0 mMDRT																											
1	NB1	Reed	Y11C	1.3100	3x22, 1x16	34406	77.5	47.5	2.3	20.7	3.1	2.1	64/64	8.9	1613-6543	2244-4481	0.05-6.95	0	0	RR	0	0	I	0	TD	SW (1.06)	Spud
444 mm (17.5") Hole Section 125.0 - 1123.0 mMDRT																											
2	NB2	Hughes	MXL-T1V	0.9204	3x20	60654689	125	998	27.8	35.9	36.9	10.1	0-100/89-231	301.7	8446-24386	3081-4678	0-20.25	2	2	WT	A	E	I	BT	TD	1.10 - 1.14	13.375" Casing point
311 mm (12.25") Hole Section 1123.0 - 1810.0 mMDRT TD																											
3	NB3	Reed	RSX616:MA16	1.1068	3x15, 3x16	218662	1123	687	19	36.2	39.2	6.0	56-171/56-171	170.8	8590-13520	3520-3993	1.92-20.27	2	1	CT	A	X	I	WT	TD	1.13 - 1.16	TD

RT-AHD (m): 38.0 m
RT - Seabed: 77.5 mMDRT
Total Depth (m): 1810.0 mMDRT

Bit Hydraulics summary

Bit Hydraulics Summary

Operator	Well Name	Location	Drilling Contractor	Rig
3D Oil Ltd	West Seahorse-3	VIC/P-57	Seadrill	MODU 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 lpm	Jet Vel m/sec	Impact Force lbf / in²	Hydraulic Power hhp	Power/ Area hp/sq in	Bit Loss KPa	Bit Loss %	Pipe* Loss Kpa	ECD sg	Annular Velocities DP OH m/sec	DC OH m/sec	DP Max Dia m/sec
West Seahorse-3																				
914 mm (36") Hole Section 77.5 - 125.0 mMDRT																				
NB1	125	36"	3x22, 1x16	N	SW / PHG sweep	1.06	-	-	4467	37.4	0.4	619	0.05	717	11.5	5841	1.063	-	0.12	-
444 mm (17.5") Hole Section 125.0 - 1123.0 mMDRT																				
NB2	1123	17.5"	3x20	N, M, P	PHG	1.10	8	11.45	4353	122.2	9.1	2033	3.23	7894	37.7	13017	1.110	0.52	0.59	0.29
311 mm (12.25") Hole Section 1123.0 - 1810.0 mMDRT																				
NB3	1810	12.25"	3x15, 3x16	N, M, A	KCl-Polymer	1.16	11	12.45	3747	87.5	12.1	1092	3.07	4268	32.7	8922	1.185	0.89	0.89	0.12

* Note: Pipe Loss includes DP,HWDP, DC, MWD, Motor,Additional tools, surf equipment

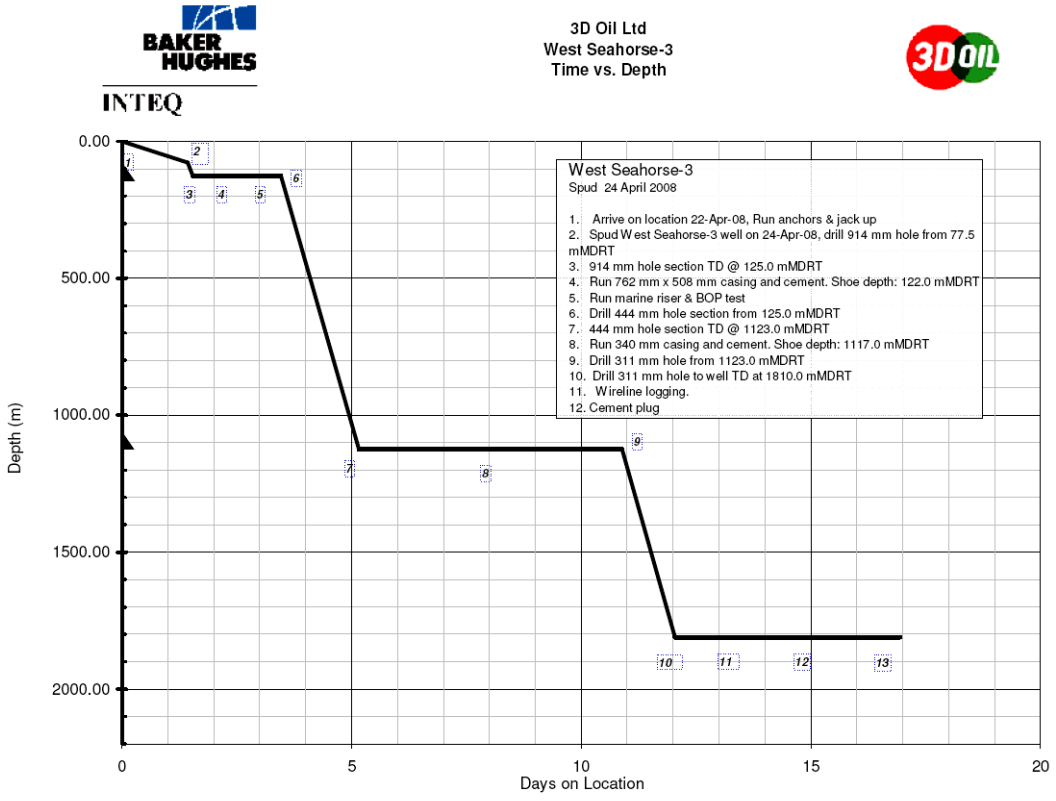


Figure 8. Summary of casing and cementing schematics by Time vs. Depth scale.

Directional drilling summary

Performance drilling report
BHA 1 / Bit 2

17 1/2" (445 mm) Steerable Motor Assembly 125m – 1123m MD

BHA

17 1/2" Hughes MXL-T1V Tooth Bit (3 x 20 jets)
9 5/8 PowerPak Motor (5:6 lobe, 4.0 stage, 17 1/4 sleeve and 1.5º bend)
17" String Stab
Crossover Sub Float Sub
3 x 8" Pony NMDC
Crossover Sub
PowerPulse MWD (800-1200 gpm)
2 x 8" NMDC
8 1/4" Spiral Drill Collars (5 joints)
Hydraulic Jar
8 1/4" Spiral Drill Collar (2 joints)
Crossover Sub
5 1/2" HW Drill Pipe (12 joints)
5 1/2" Drill Pipe to Surface

Drilling Summary

Drilled cement and float equipment, cleaned out rat hole. Rotary drilled to kick off point at 1 72m. The kick off section was directionally drilled, mainly sliding (and rotating when required), building at 3º/30m to 27.4º.

At 386m, in the kick off section, a full stand was back reamed and reamed down once between 386m to 350m to smoothen and reduce a higher than expected dogleg severity. The dogleg severity was reduced from 5.3º/30m to 4.2º/30m and this process took about 1 hour of rig time which involved racking back a stand which was already made to drill ahead.

The tangent section was rotary drilled with minor slides (7-10m every 2-3 stands) to counter the general dropping tendency of 0.3º to 0.6º/30m and there was also a slight right hand walk.

From 0º - 8º the motor was able to build at 2.5 º/30m. From 8º - 27º the motor was able to build at 3.8 º/30m.

Reactive torque was about 30º with 25 klbs WOB

No hole problems were encountered or reported and all directional requirements were met. Trip out of the hole was uneventful. Hole was cased and cemented.

Drilling performance:

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Total Drilled	998	28.81	34.64
Total Drilled in rotary	668	20.88	31.99
Total Drilled in slide mode	330	7.93	41.61
Bit Graded	2 – 2 – WT – A – E – In – BT - TD		

Section Breakdown

Section	Rotary m (%)	Slide m (%)
Start of run to KOP (125-170m)	45 (100%)	-
KOP to EOC (170-465m)	48 (16%)	247 (84%)
EOC to section TD (465-1 123m)	575 (87%)	83 (13%)

BHA 2 / Bit 3

12 1/4" (311 mm) Rotary Steerable Assembly 1123m – 1810 m MD (687m)

BHA

2 1/4" Reed Hycalog RSX616 MA 16 PDC Bit (3 x 15 & 3 x 16 jets)
PowerDrive 900 X5 (without flow restrictor)
PowerDrive 900 Receiver (with ported float) and Flex Collar
8 1/4" GVR
PowerPulse MWD (600-1200 gpm)
1 x 8" NMDC
8 1/4" Spiral Drill Collar
Hydraulic Jar
8 1/4" Spiral Drill Collar
Crossover Sub
5 1/2" HW Drill Pipe (12 joints)
5 1/2" Drill Pipe to Surface

Drilling Summary

The cement was tagged early at 285m and drilled out, drilling the float equipment was difficult and time consuming. Three meters of new formation was drill out and a formation integrity test was performed.

Once out of the shoe the PowerDrive assembly had a slight dropping tendency in neutral steering mode. The rate of penetration was held to about 30 m/hr until the BHA was clear of the shoe and rat hole and then the drilling parameters were increased. A 50% steering ratio was required to hold the assembly in the tangent section. A rate of penetration of about 60 m/hr was achieved for most of the tangent section and the start of the drop section.

At the start of the drop section the tool was initially placed in a 25% drop with a right bias to counteract a left turn tendency. The drop rate was much lower than expected so steering ratio was increased to eventually 100% low side. Drop rates of only low 2 º/30m was achieved in the Lakes Entrance formation. Once into the Latrobe Group formation drops rates increased to low 4 º/30m and the required drop angle could be achieved. The rate of penetration was held back to 30 m/hr for logging purposes and this may have helped to improve the drop rate.

Once the drop was achieved the PowerDrive was placed in Inclination Hold mode for the remainder of the tangent section to TD at 1810m MDRT. Both geological targets were successfully penetrated within the allowed tollerance.

A moderate stick-slip was observed for most of the run but it did not affect the steering ability. Stick-slip was considerably lower in the Latrobe Group formation.

The bit was graded as 3-1-CT-A-X-I-WT-TD.

Drilling performance:

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	687	19.62	35.0

Deviated well, 'S'-type profile. Details see attachment 7

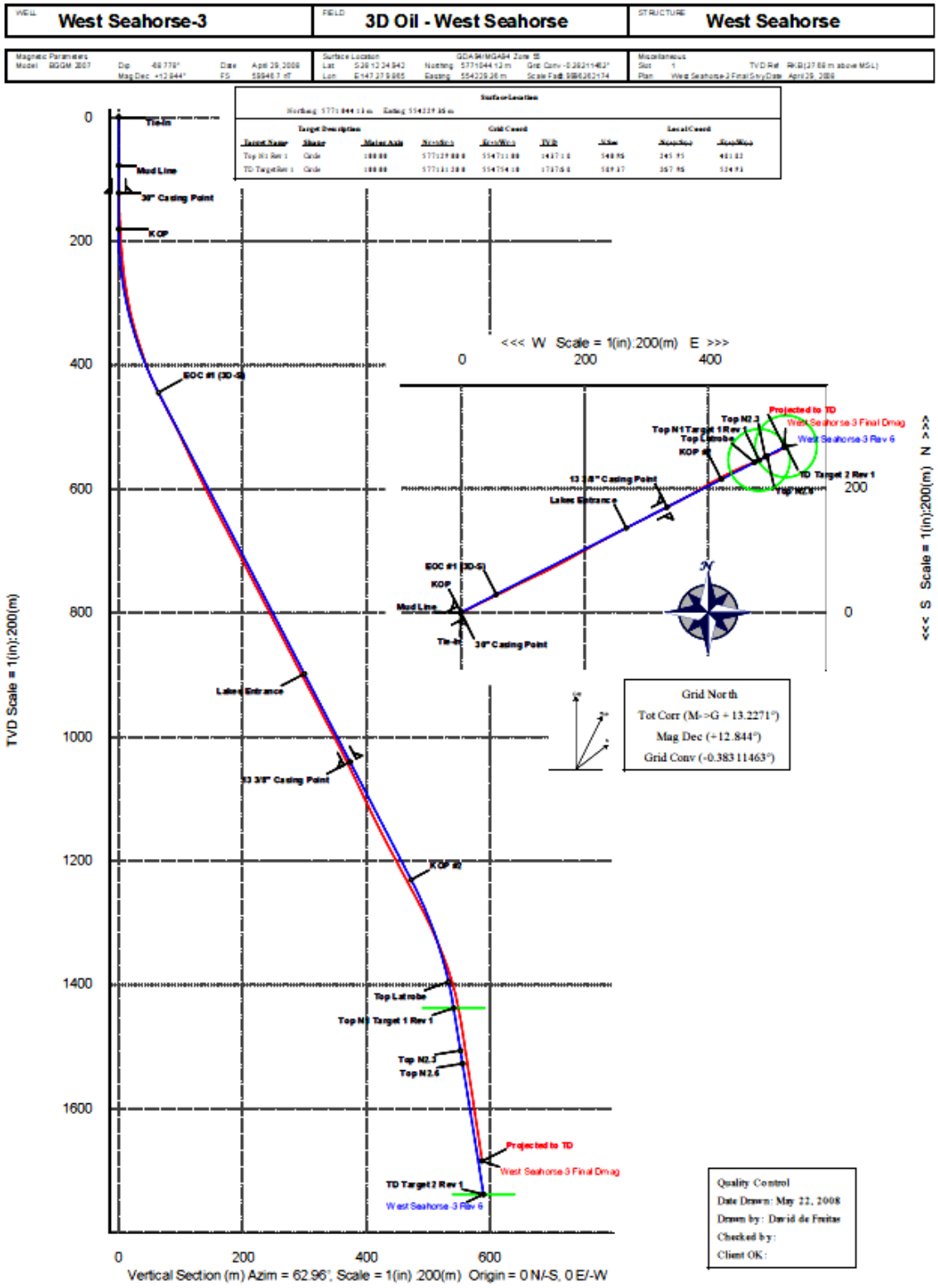


Figure 9. Sketch showing 'S'-type directional drilling profile.

Directional Dmag Geodetic Survey

Report Date:	May 21, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	3D Oil Ltd	**Vertical Section Azimuth:**	62.960°
Field:	3D Oil - West Seahorse	**Vertical Section Origin:**	N 0.000 m, E 0.000 m
Structure / Slot:	West Seahorse / 1	**TVD Reference Datum:**	RKB
Well:	West Seahorse-3	**TVD Reference Elevation:**	37.7 m relative to MSL
Borehole:	West Seahorse-3	**Sea Bed / Ground Level Elevation:**	-39.500 m relative to MSL
UWI/API#:		**Magnetic Declination:**	12.844°
Survey Name / Date:	West Seahorse-3 Final Dmag / April 29, 2008	**Total Field Strength:**	59946.745 nT
Tort / AHD / DDI / ERD ratio:	73.430° / 587.54 m / 5.182 / 0.349	**Magnetic Dip:**	-68.778°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	April 29, 2008
Location Lat/Long:	S 38 12 24.942, E 147 37 9.865	**Magnetic Declination Model:**	BGGM 2007
Location Grid N/E Y/X:	N 5771044.135 m, E 554229.358 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.38311463°	**Total Corr Mag North -> Grid North:**	+13.227°
Grid Scale Factor:	0.99963622	**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	5771044.14	554229.36	S 38 12 24.942	E 147 37 9.865
Mud Line	77.50	0.00	0.00	77.50	0.00	0.00	0.00	0.00	5771044.14	554229.36	S 38 12 24.942	E 147 37 9.865
	182.42	2.71	71.37	182.38	2.45	0.79	2.35	0.77	5771044.93	554231.71	S 38 12 24.916	E 147 37 9.961
	210.69	4.37	68.61	210.60	4.19	1.40	3.99	1.77	5771045.53	554233.34	S 38 12 24.896	E 147 37 10.028
	240.36	6.29	65.93	240.16	6.94	2.47	6.53	1.96	5771046.61	554235.88	S 38 12 24.861	E 147 37 10.132
	269.55	8.46	63.88	269.08	10.66	4.07	9.91	2.25	5771048.20	554239.27	S 38 12 24.808	E 147 37 10.271
	299.18	10.91	63.41	298.29	15.66	6.29	14.38	2.48	5771050.42	554243.73	S 38 12 24.735	E 147 37 10.454
	328.89	13.72	61.49	327.31	22.00	9.23	19.99	2.87	5771053.36	554249.34	S 38 12 24.639	E 147 37 10.684
	358.27	17.82	63.61	355.58	29.98	12.89	27.08	4.23	5771057.02	554256.43	S 38 12 24.518	E 147 37 10.974
	388.46	17.83	64.35	384.32	39.22	16.94	35.38	0.23	5771061.07	554264.73	S 38 12 24.385	E 147 37 11.315
	417.21	21.75	64.50	411.37	48.95	21.14	44.16	4.09	5771065.27	554273.51	S 38 12 24.247	E 147 37 11.674
	446.30	26.47	63.34	437.91	60.83	26.36	54.83	4.89	5771070.50	554284.17	S 38 12 24.075	E 147 37 12.111
	476.28	27.58	63.58	464.62	74.45	32.46	67.01	1.12	5771076.59	554296.35	S 38 12 23.875	E 147 37 12.610
	505.67	26.63	62.50	490.76	87.84	38.53	78.95	1.09	5771082.65	554308.28	S 38 12 23.675	E 147 37 13.099
	534.94	25.97	64.51	517.02	100.80	44.32	90.55	1.14	5771088.44	554319.88	S 38 12 23.485	E 147 37 13.575
	564.20	25.07	64.48	543.43	113.41	49.75	101.93	0.92	5771093.86	554331.25	S 38 12 23.307	E 147 37 14.041
	622.88	26.33	65.24	596.30	138.84	60.55	124.97	0.67	5771104.67	554354.28	S 38 12 22.951	E 147 37 14.985
	653.06	26.86	63.15	623.29	152.34	66.44	137.13	1.07	5771110.55	554366.44	S 38 12 22.758	E 147 37 15.483
	682.20	27.68	61.89	649.19	165.69	72.60	148.97	1.03	5771116.71	554378.28	S 38 12 22.555	E 147 37 15.968
	711.65	27.35	62.23	675.31	179.30	78.97	160.99	0.37	5771123.08	554390.29	S 38 12 22.346	E 147 37 16.460
	740.89	27.59	61.54	701.25	192.78	85.33	172.89	0.41	5771129.43	554402.18	S 38 12 22.137	E 147 37 16.947
	771.14	27.55	61.08	728.07	206.78	92.05	185.17	0.21	5771136.15	554414.46	S 38 12 21.917	E 147 37 17.450
	800.56	27.43	60.89	754.17	220.35	98.64	197.05	0.15	5771142.74	554426.33	S 38 12 21.700	E 147 37 17.937
	829.48	27.85	61.35	779.78	233.76	105.12	208.79	0.49	5771149.21	554438.08	S 38 12 21.488	E 147 37 18.418
	858.79	27.32	61.21	805.76	247.32	111.64	220.70	0.55	5771155.73	554449.97	S 38 12 21.274	E 147 37 18.905
	888.16	27.56	61.54	831.83	260.85	118.12	232.58	0.29	5771162.21	554461.85	S 38 12 21.061	E 147 37 19.392
	917.34	27.23	62.29	857.74	274.28	124.44	244.42	0.49	5771168.53	554473.69	S 38 12 20.853	E 147 37 19.877
	947.31	27.18	62.67	884.39	287.98	130.77	256.57	0.18	5771174.86	554485.84	S 38 12 20.645	E 147 37 20.374
	975.78	28.05	62.94	909.62	301.16	136.81	268.31	0.93	5771180.89	554497.57	S 38 12 20.447	E 147 37 20.855
	1005.05	27.38	63.78	935.53	314.79	142.91	280.48	0.79	5771186.99	554509.73	S 38 12 20.246	E 147 37 21.354
	1034.76	27.21	62.92	961.93	328.41	149.02	292.65	0.43	5771193.10	554521.91	S 38 12 20.046	E 147 37 21.852
	1064.70	27.86	61.70	988.48	342.25	155.45	304.91	0.86	5771199.53	554534.16	S 38 12 19.834	E 147 37 22.354
	1094.42	27.04	62.76	1014.85	355.95	161.84	317.03	0.96	5771205.91	554546.27	S 38 12 19.625	E 147 37 22.851
	1143.32	25.87	63.39	1058.63	377.73	171.70	336.45	0.74	5771215.76	554565.69	S 38 12 19.300	E 147 37 23.646
	1155.24	25.60	63.14	1069.37	382.91	174.03	341.07	0.73	5771218.10	554570.31	S 38 12 19.224	E 147 37 23.836
	1184.95	25.36	62.55	1096.19	395.69	179.87	352.45	0.35	5771223.93	554581.68	S 38 12 19.032	E 147 37 24.301
	1214.47	26.04	61.37	1122.79	408.49	185.88	363.74	0.86	5771229.95	554592.97	S 38 12 18.835	E 147 37 24.764
	1244.37	26.98	60.10	1149.55	421.82	192.41	375.38	1.10	5771236.48	554604.61	S 38 12 18.620	E 147 37 25.241
	1273.71	27.90	59.30	1175.59	435.32	199.23	387.06	1.01	5771243.30	554616.27	S 38 12 18.397	E 147 37 25.719
	1303.22	28.28	59.93	1201.62	449.19	206.26	399.04	0.49	5771250.32	554628.26	S 38 12 18.166	E 147 37 26.209
	1333.07	28.34	61.42	1227.90	463.34	213.19	411.38	0.71	5771257.25	554640.59	S 38 12 17.938	E 147 37 26.715
	1362.30	28.22	62.76	1253.64	477.18	219.68	423.62	0.66	5771263.73	554652.83	S 38 12 17.726	E 147 37 27.216
	1392.46	27.26	63.75	1280.33	491.22	225.99	436.16	1.06	5771270.05	554665.36	S 38 12 17.518	E 147 37 27.729
	1421.70	25.28	65.76	1306.55	504.15	231.52	447.86	2.23	5771275.57	554677.05	S 38 12 17.336	E 147 37 28.209
	1451.62	22.71	67.51	1333.89	516.29	236.35	459.02	2.67	5771280.40	554688.21	S 38 12 17.177	E 147 37 28.666
	1481.39	20.37	68.53	1361.58	527.18	240.45	469.15	2.39	5771284.50	554698.34	S 38 12 17.042	E 147 37 29.081
	1511.23	17.28	67.57	1389.82	536.77	244.04	478.06	3.12	5771288.09	554707.27	S 38 12 16.923	E 147 37 29.447
	1540.61	13.06	64.38	1418.36	544.49	247.16	485.16	4.36	5771291.21	554714.34	S 38 12 16.821	E 147 37 29.737
	1570.48	10.61	59.84	1447.40	550.57	249.99	490.55	2.65	5771294.03	554719.73	S 38 12 16.728	E 147 37 29.958
	1600.19	8.73	58.08	1476.68	555.55	252.55	494.83	1.92	5771296.60	554724.00	S 38 12 16.644	E 147 37 30.133
	1629.88	8.74	67.66	1506.03	560.04	254.60	498.83	1.47	5771298.64	554728.00	S 38 12 16.576	E 147 37 30.297
	1658.96	8.56	72.15	1534.78	564.36	256.10	502.93	0.72	5771300.15	554732.10	S 38 12 16.527	E 147 37 30.465
	1688.35	8.90	69.06	1563.83	568.80	257.59	507.13	0.59	5771301.63	554736.31	S 38 12 16.478	E 147 37 30.638
	1717.96	8.56	61.83	1593.10	573.28	259.45	511.22	1.16	5771303.49	554740.39	S 38 12 16.417	E 147 37 30.805
	1747.50	8.58	55.23	1622.31	577.66	261.74	514.97	1.00	5771305.78	554744.14	S 38 12 16.341	E 147 37 30.958
	1777.39	8.69	54.55	1651.86	582.11	264.32	518.64	0.15	5771308.36	554747.81	S 38 12 16.257	E 147 37 31.109
	1789.31	8.74	56.02	1663.64	583.90	265.35	520.12	0.57	5771309.39	554749.29	S 38 12 16.223	E 147 37 31.169
Projected to TD	1810.00	8.74	56.02	1684.09	587.02	267.11	522.73	0.00	5771311.15	554751.90	S 38 12 16.166	E 147 37 31.276

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	77.18	Act-Stns	SLB_ZERO-Depth Only	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.18	77.50	Act-Stns	SLB_ZERO	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.50	1094.42	Act-Stns	SLB_MWD+DMAG	West Seahorse-3 -> West Seahorse-3 Final Dmag
1094.42	1789.31	Act-Stns	SLB_MWD-STD	West Seahorse-3 -> West Seahorse-3 Final Dmag
1789.31	1810.00	Act-Stns	SLB_BLIND+TREND	West Seahorse-3 -> West Seahorse-3 Final Dmag

5. GEOLOGICAL REPORT

Summary of formation sampling & drill monitoring

Geological formation sampling for West Seahorse-3 commenced from the 445 mm hole section at 125.0 mMDRT to the well's Total Depth at 1810.0 mMDRT. Cuttings, side wall cores and PVT samples were collected and analyzed. Baker Hughes INTEQ SLS provided formation evaluation, drill monitoring services for West Seahorse-3 between 22 April 2008 and 09 May 2008 from the spud depth at 77.5 mMDRT to total depth at 1810.0 mMDRT. Data was processed and stored using **Advantage version 2.10U2** software.

All gas monitoring equipment was calibrated before drilling and checked regularly. Ditch cuttings were continuously collected through the drilling and calcimetry analysis on cuttings samples was performed at the request of the Wellsite Geologists. Rotary Sidewall Cores and pressure samples were made with the Schlumberger MDT/MSCT coring tool. Four oil samples were collected from a depth of 1567mMDRT (1406.1m TDVSS).

Monitoring, logging and testings services

All gas monitoring equipment was calibrated before drilling each hole section and checked regularly. Calcimetry analysis on cuttings samples was performed at the request of the Wellsite Geologists.

Directional surveys

An Anderdrift inclination-only tool was run in the 914mm (36") section to ensure verticality prior to spudding the well. LWD surveys were then run towards the total depth. The resulting final definitive survey data report is included Attachment 7.

Mudlogging

Baker Hughes INTEQ provided mudlogging services for the drilling of West Seahorse 3 from spud to total depth at 1810.0mMD RT using a crew of two data engineers (Yeong Chen Wong, John Mancarella) and two mudloggers (Avadhut Gholap, Darshan Pingle). A fully pressurised and computerised Logging Unit was maintained throughout the drilling and wireline log evaluation phases. A fully computerised data acquisition service operated to total depth at 1810.0mMD RT).

The full mudlogging service included the continuous evaluation of pore pressure and drilling parameters as an aid to optimising drilling costs and ensuring that drilling continued with maximum safety to personnel, the well and equipment. The information obtained while drilling was visually displayed and stored both as hard copy printouts and on hard disc. Details of the services, together with printouts and plots of the results of these services, are contained in the Baker Hughes INTEQ Final Well Report (Enclosures 1-3). The Formation Evaluation Log (mudlog) displays the rate of penetration (ROP), total gas, chromatographic analyses and wellsite interpreted lithologies.

ROP and Gas readings

444 mm Section (125.0 – 1123.0 mMDRT)

Interval (m)	ROP range (m/hr)	ROP average (m/hr)	Total Gas range (%)	Total Gas average (%)
77.5 – 125	5.82 - 100	47.10		
125 – 960	7.1 – 163.6	62.4	0.0002 – 0.0019	0.0011
960 – 1123	7.0 – 69.3	10.2	0.0001 – 0.0076	0.0027

311 mm Section (1123.0 – 1810.0 mMDRT)

Interval (m)	ROP range (m/hr)	ROP average (m/hr)	Total Gas range (%)	Total Gas average (%)
1123 – 1510	12.3 – 91.9	50.2	0.0018 – 0.0150	0.0051
1510 – 1580	10.1– 33.4	26.9	0.0083 – 0.3001	0.0726
1580 – 1810	5.4 – 67.3	26.4	0.0083 – 0.1064	0.0237

Minimum – Maximum Chromatograph Readings

444 mm Section (125.0 – 1123.0 mMDRT)

Interval (m)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
125 – 960	0 – 8	0 – 4	0	0	0	0	0
960 – 1123	2 – 52	0 – 6	0 – 3	0 – 1	0	0	0

311 mm Section (1123.0 – 1810.0 mMDRT)

Interval (m)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
1123 – 1510	7 – 129	0 – 7	0 – 2	0	0	0	0
1510 – 1580	64 – 1193	2 – 80	1 – 95	0 – 48	0 – 52	0 – 35	0 – 30
1580 – 1810	9 – 976	0 – 40	0 – 28	0 – 12	0 – 14	0 – 12	0 – 10

Formation Evaluation Log, Drilling Log, Pressure Log and Gas Ratio Log are included herein as Enclosures 1-3 respectively

Shows

The following shows were noted in cuttings from the Latrobe Group:
(1554 - 1578m) Trace bright pale yellow fluorescence. Moderately fast streaming bright blue white cut. Moderately thick residual ring, becoming thin & spotty with depth.

(1596 – 1602m) Trace bright pale yellow fluorescence.

(1638 – 1644m) Trace bright pale yellow fluorescence.

(1656 – 1668) Trace bright pale yellow fluorescence. Very slow streaming bright bluish white cut. Thin residual ring.

(1674 – 1710m) Trace bright pale yellow fluorescence. Very slow streaming bright blue white cut. Thin patchy weak residual ring.

Gas Peak Table

Depth (mMDRT)	TG (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
1565.0	.3	1005	80	95	55	50	35	30
1578.5	.14	555	20	20	0	0	0	0
1590.5	.15	450	20	15	0	0	0	0
1623.0	.07	400	40	15	0	0	0	0
1651.0	.04	150	30	10	0	0	0	0
1671.0	.02	45	10	10	0	0	0	0
1749.0	.005	25	0	0	0	0	0	0

Normalised gas calculation

A "normalised" total gas curve has been plotted on the Gas Ratio Log (see Enclosure 1) for comparison with the regular total gas measurement. The normalised total gas is corrected for flow rate, drilling speed and hole size in an attempt to provide a consistent measure of "actual" mud gas per unit volume that can be compared across the various drilling intervals. The equation for normalised total gas is given below:

Normalised Gas = Total gas x (Total Flow / (ROP x Bit Size^2))

Sampling summary and record of distribution

Ditch cuttings were continuously collected through the drilling and Rotary Sidewall Cores were taken with the Schlumberger MSCT coring tool. Four segregated samples were also collected from a depth of 1567mMDRT (1406.1m TDVSS) using the Schlumberger MDT tool. No conventional and percussion sidewall cores were taken in West Seahorse 3.

Ditch cuttings

Cuttings samples were collected at the intervals tabulated below as advised by the Well site Geologists. Sampling Intervals:

125	– 140 m	15 m interval
140	– 1120 m	20 m interval
1120	– 1470 m	10 m interval
1470	– 1806 m	3 m interval
1806	– 1810 m	4 m interval

Samples (washed and unwashed) were missed from the following depths due to high ROP:

1473m, 1479m, 1485m, 1488m, 1494m, 1503m, 1509m, 151 5m, 1521m, 1527m, 1533m, 1539m, 1548m, 1551m, 1557m, 1563m, 1566m, 1575m, 1581m, 1587m, 1593m, 1605m, 1611m, 1617m, 1623m, 1629m, 1635m, 1641m, 1647m, 1653m, 1659m, 1665m, 1671m, 1677m, 1683m, 1689m, 1695m, 1701m, 1707m, 171 3m, 1719m, 1725m, 1731m, 1737m, 1743m, 1749m, 1755m, 1761m, 1767m, 1770m, 1776m, 1782m, 1788m, 1794m, 1800m, 1806m

Six sets of washed and air dried sample splits each of 100g or 200g were collected at 10m, 5m or 3m intervals depending upon the stratigraphic section and rate of penetration (ROP) and retained in plastic bags. One set was dispatched to GeoScience Australia (GA), Core and Cuttings Repository, Symonston, ACT, another set was dispatched to the Victorian DPI Core Library South Road, Werribee, Vic 3030. 3D Oil Limited holds four sets of the cuttings.

Sample Destination

Set A (250g Unwashed Cuttings in Hubco bags) to be forwarded to:
3D Oil Limited Kensington Road Self Storage
180 Kensington Road
West Melbourne, Vic, 3003

Set B (250g Washed & Dried Drill Cuttings in polythene bags) to be forwarded to:
3D Oil Limited Kensington Road Self Storage
180 Kensington Road
West Melbourne, Vic, 3003

Set C (Samplex Tray) to be forwarded to:
3D Oil Limited Kensington Road Self Storage
180 Kensington Road
West Melbourne, Vic, 3003

Set D (250g Washed & Dried Drill Cuttings in polythene bags) to be forwarded to:
Victorian Dept of Primary Industries
DPI Core Sample Library
18 South Road
(250 m south of Sneydes Road)
WERRIBEE 3030 (Melway Reference: 206 E8)

Set E (250g Washed & Dried Drill Cuttings in polythene bags) to be forwarded to:
Geoscience Australia Manager,
Geoscience Australia Data Repositories
Geoscience Australia
Cnr Jerrabomberra Avenue and Hindmarsh Drive,
Symonstonymonston, ACT, 2609

Set F (Mud Sample & Mud Filtrate) to be forwarded to:
3D Oil Limited Kensington Road Self Storage
180 Kensington Road
WEST MELBOURNE, ViC, 3003

SAMPLE TYPE	Well	No. of Sets	INTERVAL			PACKING DETAILS
			Large Box No.	Small Box No.	Interval (m)	
DRILL CUTTINGS 250g: Washed & Air Dried (polythene bags) Set **B,D & E**	West Seahorse-3	**3**	**1**	1	125 – 340	Packed in 2 boxes marked as Set B,D & E.
				2	340 – 580	
				3	580 – 820	
				4	820 – 1040	
				5	1040 – 1190	
				6	1190 – 1300	
				7	1300 – 1410	
				8	1410 – 1500	
			2	9	1500 – 1560	
				10	1560 – 1608	
				11	1608 – 1671	
				12	1671 – 1731	
				13	1731 – 1785	
				14	1785 - 1810	
UNWASHED SAMPLES (Hubco): Set **A**	West Seahorse-3	**1**	**1**	1	125 – 240	Max. 8 small boxes per large box. Large boxes marked as Set A
				2	240 – 340	
				3	340 – 460	
				4	460 – 580	
				5	580 – 700	
				6	700 – 820	
				7	820 – 920	
				8	920 – 1020	
			2	9	1020 – 1130	
				10	1130 - 1180	
				11	1180 – 1240	
				12	1240 - 1290	
				13	1290 – 1340	
				14	1340 – 1390	
				15	1390 – 1440	
				16	1440 –1482	
			3	17	1482 – 1512	
				18	1512 – 1542	
				19	1542 – 1572	
				20	1572 – 1599	
				21	1599 – 1626	
				22	1626 – 1656	
				23	1656 – 1686	
				24	1686 – 1716	
			4	25	1716 – 1746	
				26	1746 – 1779	
				27	1779 – 1810 (	
SAMPLEX TRAYS: Set **C**	West Seahorse-3	**1**	**1**	-	125 – 1810	Packed in one wooden box marked as Set C

MUD SAMPLES & MUD FILTRATE: Set **F**	West Seahorse-3	**1**	**1**	2 (1 L) 1 (50ml)	1810	Packed in one box marked as Set F

Formation Loggings

The lithologies encountered at West Seahorse-3 are described below. For a graphical display of the lithology, see Enclosure 3: Formation Evaluation Log. Note that the lithological descriptions on the Formation Evaluation Log were provided by the 3D Oil Wellsite Geologists, with input from the BHI mudloggers.

Description of Cuttings

914 mm Section (77.5 – 125.0 mMDRT) Returns to seabed. No samples.

445 mm Section (125.0 – 1123.0 mMDRT)
125.0 to 960.0 mMDRT.

Interbedded SANDSTONE and CALCARENITE

SANDSTONE (10- 80%): Light olive grey to olive grey, abundant translucent to transparent grains, friable, abundant very fine to fine, sub-angular to sub-rounded in part, sub-angular quartz and fine shell fragments, minor black lithics, common orange, yellow, rose, minor fine muscovite and biotite flakes, siliceous cement, no to good visible porosity.

CALCARENITE (Trace-90%): Yellowish grey to light olive grey to white in part, moderately hard to hard to recrystallised, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasional orange, minor black lithics, minor microforaminifera with glauconite replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement in part, and recrystallised grain to grain contacts, poor visible porosity.

960.0 to 1123.0 mMDRT.

Interbedded CALCI LUTITE, CALCARENITE, CLAYSTONE and SANDSTONE:

CALCILUTITE (10-80%): White to olive grey, soft, fine to medium, sub-angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.

CALCARENITE (10-60%): White to olive grey, moderately hard to recrystallized, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasional orange, minor micoforaminifera with glauconite replaced cement, trace black lithics, trace fine skeletal fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain to grain contacts, poor visible porosity.

CLAYSTONE (Trace-5%): Medium grey, soft, amorphous to firm in part, homogenous, flakey in part, occasional locally with glauconite infilled cement, highly calcareous.

SANDSTONE (0-5%): Translucent to white, very hard recrystallized, fine to medium in part, sub-angular quartz, slightly to moderately calcareous, fine white inferred calcite cement in part, poor visible porosity.

311 mm Section (1123.0 – 1810.0 mMDRT)
1123.0 to 1510.0 mMDRT.

Interbedded CALCI LUTITE, CALCARENITE, CALCISILTITE, CALCAREOUS CLAYSTONE AND CLAYSTONE

CALCILUTITE (0-100%): Greenish grey to olive grey in part, soft, trace loose fine skeletal fragments, trace very fine black biotite flecks, trace very loose coarse translucent angular calcite, trace argillaceous claystone, traces of carbonaceous material as streaks and specks, traces shell fragments, traces of micromicas, grading to Calcisiltite in part, grading locally silty.

CALCARENITE (Trace%): White to olive grey in part, moderately hard to hard, very fine to fine and occasionally medium, sub-angular, translucent calcite, trace black lithics, moderately to well cemented in part, inferred calcite cement, fair visible porosity.

CALCISILTITE (0-40%): Light olive grey to olive grey in part, soft to hard in part, common to very fine, dominantly silt sized, transparent to translucent, sub-angular quartz, trace black biotite flecks, trace silt sized mica specks, trace locally with argillaceous matrix.

CALCAREOUS CLAYSTONE (Trace-100%): Medium grey, medium dark grey, olive grey in part, soft to firm, sub- blocky, 20% calcareous clay, trace carbonaceous material, traces very fine pyrite, rare foraminifera.

CLAYSTONE (10-100%): Medium dark grey, dark greenish grey, medium grey in part, medium light grey, brownish grey, soft to firm, sub-blocky, 10% calcareous clay, 10% to 30% glauconite grains, traces micromicas, traces biotite flakes, traces foraminifera, trace very fine grained pyrite aggregates, rare coral fragments, grading to Siltstone in brownish grey fraction.

1510.0 to 1580.0 mMDRT.

Interbedded CLAYSTONE, SILTSTONE, COAL and SANDSTONE

CLAYSTONE (10-100%): Medium dark grey, dark greenish grey, medium grey in part, medium light grey, brownish grey, soft to firm, sub-blocky, 10% calcareous clay, 10% to 30% glauconite grains, traces micromicas, traces biotite flakes, traces foraminifera, trace very fine grained pyrite aggregates, rare coral fragments, grading to Siltstone in brownish grey fraction.

SANDSTONE (10-80%): Trace aggregate, pale yellow to yellowish grey, friable, very fine to fine, sub-angular to sub-rounded quartz, inferred silica cement, good visible porosity; **loose quartz grains**, clear and opaque, light grey, polished, fine to medium to coarse to very coarse grained , sub-angular to sub-rounded to rounded, poorly sorted, traces grey matrix on grain surfaces, poor visual and inferred porosity.

COAL (Trace-5%): Black, dark brownish black, blocky, predominantly bright, traces

very fine grained disseminated pyrite.

SILTSTONE (10-90%): Brownish grey, very soft to soft to moderately hard, sub-blocky, trace to 30% glauconite, trace to 10% calcareous clay, 5% very fine grained pyrite aggregates and trace locally with abundant cryptocrystalline pyrite.

1580.0 to 1810.0 mMDRT.
Interbedded SANDSTONE, SILTSTONE and COAL.

SANDSTONE (0-100%): Trace aggregate, pale yellow to yellowish grey, friable, very fine to fine, sub-angular to sub-rounded quartz, inferred silica cement, good visible porosity; loose quartz grains, clear and opaque, translucent to transparent, light grey, polished, fine to medium to coarse to very coarse grained, sub-angular to sub-rounded to rounded, poorly sorted, traces grey matrix on grain surfaces, poor visual and inferred porosity. From 1722 to 1810**:** light grey, dark yellowish brown, predominantly opaque, in part clear, predominantly loose quartz, in part hard when recrystallised, coarse to granular, predominantly very coarse to granular, angular (shattered) to sub-rounded, moderately sorted, trace very fine grained pyrite as aggregates and cement, 5% siliceous cement, white clay matrix adhering to grains s

COAL (0-80%): Black, greenish black, brittle to moderately hard, platey, earthy to bright, in part with conchoidal fracture.

SILTSTONE (0-95%): Olive grey to dark olive grey, soft to firm in part, blocky to sub-blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks, trace locally with cryptocrystalline pyrite, trace locally with well rounded fine glauconite, trace loose medium pyrite nodules.

Detailed description sees Attachment 10.

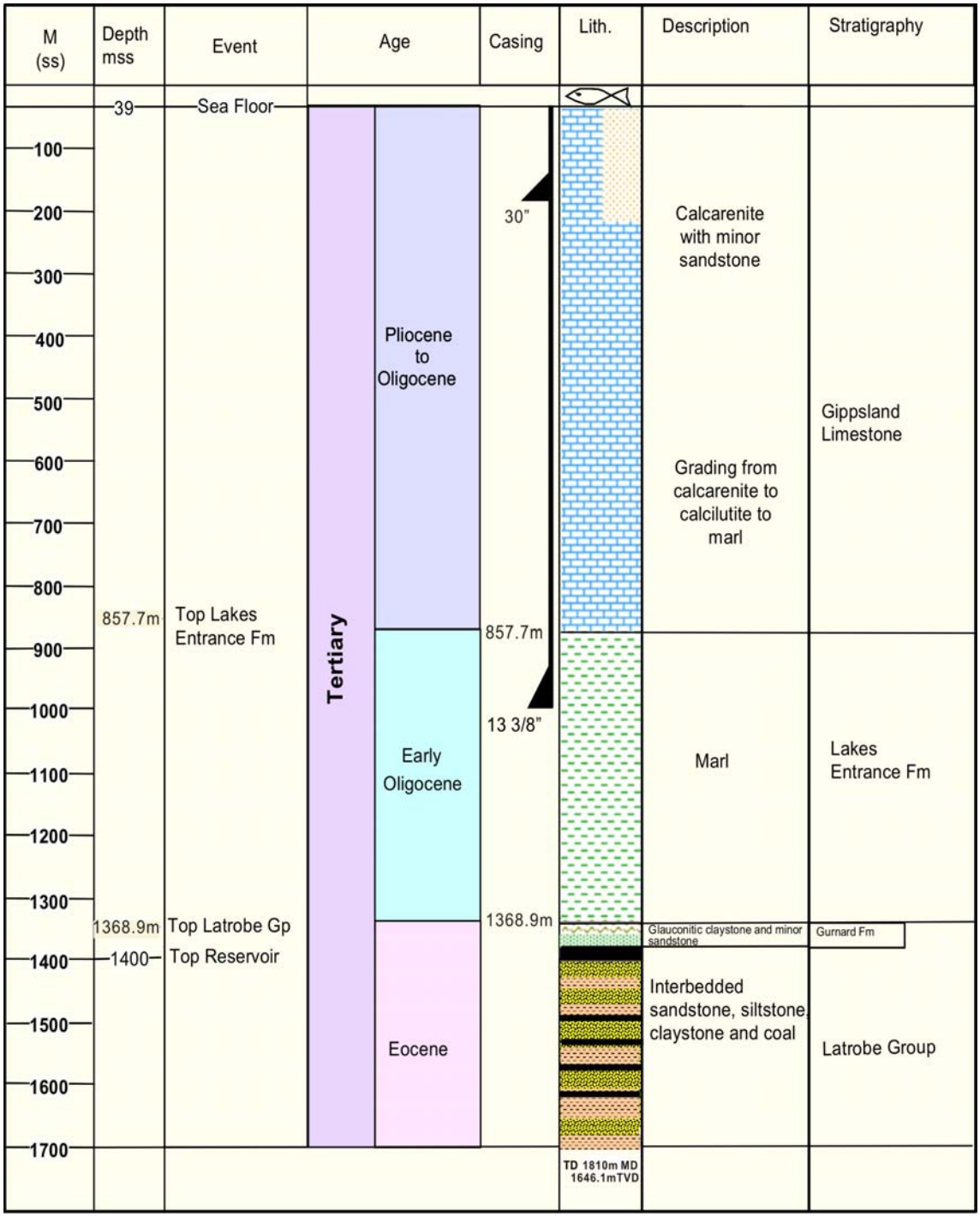


Figure 10. Stratigraphic column and casing of the West Seahorse 3 well.

Calcimetry measurements

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
120	0.0	0.0	0.0	840	71.1	3.8	74.8
140	21.9	16.7	38.6	860	62.9	4.4	67.3
160	48.5	16.5	64.9	880	66.3	4.5	70.8
180	60.8	16.4	77.2	900	67.0	3.4	70.4
200	82.2	0.2	82.4	920	68.4	6.8	75.2
220	58.8	0.3	59.1	940	75.9	7.1	83.0
240	55.0	6.0	61.0	960	45.5	8.2	53.7
260	64.3	6.2	70.4	980	69.7	4.4	74.2
280	56.0	0.5	56.5	1000	70.1	10.0	80.1
300	57.4	0.5	58.0	1020	62.7	11.6	74.4
320	75.8	0.8	76.6	1040	53.1	10.0	63.2
340	71.7	7.3	79.0	1060	55.3	9.7	65.0
360	64.3	5.9	70.3	1080	59.1	11.5	70.6
380	84.9	12.8	97.7	1100	53.0	6.3	59.3
400	86.7	5.7	92.3	1120	53.0	8.4	61.4
420	78.8	9.8	88.7	1130	47.2	9.5	56.7
440	88.5	4.4	93.0	1140	46.5	12.3	58.8
460	85.2	5.8	91.0	1150	49.2	8.8	58.0
480	82.5	5.5	88.0	1160	46.5	12.3	58.8
500	87.3	7.7	94.9	1170	49.2	8.8	58.0
520	88.9	3.9	92.8	1180	49.2	8.8	58.0
540	92.3	0.6	93.0	1190	47.8	9.0	56.9
560	88.9	6.8	95.7	1200	32.5	12.3	44.8
580	88.9	6.9	95.8	1210	25.9	2.1	28.0
600	85.1	6.5	91.6	1220	19.8	3.3	23.0
620	75.3	5.5	80.7	1230	27.8	0.5	28.3
640	76.9	6.2	83.0	1240	23.4	6.6	30.1
660	82.5	7.5	90.0	1250	30.8	4.0	34.7
680	81.0	8.2	89.2	1260	30.3	7.6	37.9
700	81.3	9.6	90.9	1270	17.2	1.6	18.8
720	82.6	13.6	96.2	1280	23.2	8.2	31.4
740	64.1	9.9	74.0	1290	30.3	5.6	36.0
760	63.2	5.5	68.7	1300	32.2	1.3	33.5
780	67.3	6.2	73.5	1310	28.3	3.7	32.0
800	69.0	4.8	73.8	1320	23.1	4.5	27.6
820	68.4	5.8	74.2	1330	19.5	4.1	23.7

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate
1350	21.9	3.8	25.7	1584	2.9	0.7	3.6
1360	16.5	3.4	19.9	1587			0.0
1370	21.9	3.3	25.2	1590	2.1	1.0	3.0
1380	9.9	3.9	13.8	1593			0.0
1390	13.1	3.1	16.2	1596	0.7	0.5	1.2
1400	14.0	0.7	14.7	1599	0.7	0.5	1.2
1410	8.3	8.5	16.9	1602	0.7	0.5	1.2
1420	10.5	7.3	17.8	1605			0.0
1430	7.3	8.7	16.0	1608	0.7	0.5	1.2
1440	19.6	7.1	26.7	1611			0.0
1450	22.4	10.8	33.2	1614	0.7	0.6	1.3
1460	13.4	7.4	20.8	1617			0.0
1470	13.3	2.7	15.9	1620	0.7	0.6	1.3
1473			0.0	1623			0.0
1476	14.8	8.0	22.8	1626	0.7	0.6	1.3
1479			0.0	1629			0.0
1482	8.7	5.5	14.3	1632	0.7	0.6	1.3
1485			0.0	1635			0.0
1488			0.0	1638	0.7	0.6	1.3
1491	7.5	9.6	17.0	1641			0.0
1494	16.5	3.4	19.9	1644	0.7	0.1	0.8
1497			0.0	1647			0.0
1500	16.5	1.6	18.0	1650	0.7	0.1	0.8
1503			0.0	1653			0.0
1506	6.8	3.7	10.5	1656	0.7	0.1	0.8
1509			0.0	1659			0.0
1512	6.0	5.5	11.6	1662	0.7	0.1	0.8
1515			0.0	1665			0.0
1518	11.9	6.4	18.3	1668	0.7	0.1	0.8
1521			0.0	1671			0.0
1524	5.5	0.6	6.2	1674	0.7	0.1	0.8
1527			0.0	1677			0.0
1530	5.5	0.6	6.2	1680	0.7	0.1	0.8
1533			0.0	1683			0.0
1536	5.5	0.6	6.2	1686	0.7	0.1	0.8
1539			0.0	1689			0.0
1542	2.3	0.2	2.5	1692	0.7	0.1	0.8
1545	2.3	0.2	2.5	1695			0.0
1548			0.0	1698	0.7	0.1	0.8
1551	2.3	0.2	2.5	1701			0.0
1554	2.3	0.2	2.5	1704	0.7	0.1	0.8
1557			0.0	1707			0.0
1560	2.3	0.2	2.5	1710	0.7	0.1	0.8
1563			0.0	1713			0.0
1566			0.0	1716	0.7	0.1	0.8
1569	2.9	0.7	3.6	1719			0.0
1572	2.9	0.7	3.6	1722	0.7	0.1	0.8
1575			0.0	1725			0.0
1578	2.9	0.7	3.6	1728	0.7	0.1	0.8
1581			0.0	1731			0.0

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
1734	0.7	0.1	0.8				
1737			0.0				
1740	0.7	0.1	0.8				
1743			0.0				
1746	0.7	0.1	0.8				
1749			0.0				
1752	0.3	0.1	0.4				
1755			0.0				
1758	0.3	0.1	0.4				
1761			0.0				
1764	0.3	0.1	0.4				
1767			0.0				
1770			0.0				
1773	0.3	0.1	0.4				
1776			0.0				
1779	0.3	0.1	0.4				
1782			0.0				
1785	0.3	0.1	0.4				
1788			0.0				
1791	0.3	0.1	0.4				
1794			0.0				
1797	0.3	0.1	0.4				
1800			0.0				
1803	0.3	0.1	0.4				
1806			0.0				
1810	0.3	0.1	0.4				

Conventional Cores

No conventional cores were cut in West Seahorse 3.

Rotary sidewall cores (MSCT)

One mechanical sidewall coring run was made with the Schlumberger MSCT coring tool as planned. The purpose of the sampling was to acquire cores for reservoir evaluation in the primary reservoir and for petrographic evaluation. A total of 12 cores were recovered from the 14 attempted. A summary of MSCT depths and recoveries is included below:

Mechanical Sidewall Core Depths (MSCT)

Sample No.	Depth (mRT)	Time Taken (including time to move to next station) Start	Finish	Brief Lithology Description	Initial comments following coring	Actually Recovered? Y / N	Length (mm)	Condition of core
1	1561.5	12:43	12:47	No sample		N	-	Not recovered
2	1562.0	12:47	12:52	No sample		N	-	Not recovered
3	1564.0	12:52	12:58	**SILTSTONE** grading to a very fine **SANDSTONE**, trace dull yellow fluorescence		Y	50	Good
4	1566.5	12:58	13:05	**SILTSTONE** grading to a very fine **SANDSTONE**, trace dull yellow fluorescence		Y	50	Good
5	1568.0	13:05	13:12	**SANDSTONE:** very fine to fine 5% dull yellow fluorescence		Y	45	Good
6	1568.9	13:12	13:23	**CLAYSTONE:** trace dull yellow fluorescence		Y	55	Good
7	1570.0	13:23	13:30	Silty **CLAYSTONE:** nil fluorescence		Y	52	Good
8	1571.0	13:30	13:35	**SILTSTONE:** nil fluorescence	**Temporarily ceased coring to run a correlation depth log**	Y	70	Good
9	1634.0	13:44	13:50	**COAL:** black-brown , nil fluorescence		Y	2 x 15	Broken sample, 2 x 15 mm pieces and 2 x <10 mm fragments
10	1661.0	13:50	14:02	**SANDSTONE:** medium grained, nil fluorescence		Y	45	Good
11	1668.5	14:02	14:16	**SANDSTONE**, fine grained, argillaceous, nil fluorescence.	**Call made to Ops Geo to confirm the next depth at 1665 m was correct**	Y	50	Good
12	1665.0	14:16	14:27	**SANDSTONE**: coarse		Y	40	Fair
13	1686.0	14:27	14:39	**CLAYSTONE**, nil fluorescence		Y	50	Good
14	1694.0	14:39	14:53	**SANDSTONE:** fine grained, argillaceous, nil fluorescence		Y	48	Fair

The MSCT photographs are included herein as Attachment 12.

Petrology

Six MSCT samples were sent to ACS Laboratoryies Pty Ltd for petrological study. Their results, including descriptions and photographs of the thin sections are presented in the West Seahorse 3 Well Completion Report - Interpretative Data, issued separately.

Samples submitted for Petrology

MSCT No.	*Depth (mMD RT)*
Sample 3	*1564.0*
Sample 5	*1568.0*
Sample 7	*1570.0*
Sample 10	*1661.0*
Sample 11	*1668.5*
Sample 13	*1686.0*

MDT sampling (Pressure Sampling)

A total of four segregated samples were successfully recovered from a depth of 1567mMDRT (1406.1m TDVSS) using the Schlumberger MDT tool. Single-phase transfers were performed on three samples and the fourth sample was flashed for offshore analysis.

Reports on the Validity Checks and Analyses of MDT Samples are attached as Attachment 13 and the analyses performed by Petrotech PVT laboratory will be attached to Volume 1 (interpreted data).

MDT samples data

A. Sample Identification						
Run/seat number	Run 2 / Seat 31					
Sample depth	1567 mMDRT (1406.1m TVDSS)					
Pretest volume	10 cc					
Chamber size	450 cc	450 cc	450 cc	450 cc		
Chamber serial number	#3452	#3453	#3353	#3358		
Probe type	Xtra large	Xtra large	Xtra large	Xtra large		
Choke size	N/A					
B. Sampling History						
Date	6-May-08					
Initial hydrostatic	2439.19 psia					
Tool Set	01:23 hrs					
Pretest start	01:26 hrs					
Initial formation pressure (pre	1968.07 psia					
Pretest end	1:28					
Pretest duration	*1'40"*					
Pumpout start	1:28					
Pumpout end	2:30					
Pumpout duration	*1:02*					
Pumpout volume	51.971 litres					
OFA indication	Green					
Interpreted fluid at OFA	Oil					
Maximum resisitivity at probe	ohm-m					
Chamber open	2:11	2:14	2:20	2:24		
Minimum sampling pressure	1912.7psia	1913.5psia	1924.3psia	1919.6psia		
Final formation pressure	N/A	N/A	N/A	1968.3psia		
Chamber sealing pressure						
Seal chamber	2:12	2:16	2:22	2:26		
Chamber fill time	*1'40"*	*1'40"*	*1'40"*	*2'*		
Tool retract	N/A	N/A	N/A	2:31		
Final hydrostatic				2431.28 psia		
Total time				*2hrs08'*		
C. Sample Downhole Temperature And Resistivity						
At sample depth (AMS)	66 degC					
Rm@sample depth (AMS)	0.057ohm-m					
D. Sample Recovery At Surface						
Surface opening pressure	1624 psig	Not opened	1088 psig	1595 psig		
Volume gas	cuft					
Volume oil/condensate	0.38 litres	-	0.375 litres	0.39 litres	(Total volume of all Fluids combined)	
Volume water/filtrate	litres					
E. Sample Properties Measured On-Site						
Gas via ch	C1	Mole %				
	C2	Mole %				
	C3	Mole %				
	C4	Mole %				
	C5	Mole %				
	C6+	Mole %				
	CO2	Mole %				
	H2S	Mole %				
Oil/Conde	API @ degC	degrees				
	Colour					
	Fluorescence					
	GOR or CGR	cuft/bbl or mmscf/bbl				
	Pour point	degC				
Water/Filt	Rmud @ degC	ohm-m@degC				
	K+ ion calculated f	ppm				
	Chlorides titrated	ppm				
	Tritium	DPM				
	pH					
	Type					
F. Mud Filtrate Properties						
Rmud @ degC	0.113ohm-m@22.6degC					
K+ ion calculated from KCl%	40,000 mg/l					
Chlorides titrated	36,000 mg/l					
pH	9					
Tritium	N/A DPM					
G. General Calibration						
Reported mud weight	9.67 ppg					
Calculated hydrostatic	*2382.4psia*					
H. Remarks and Comments						
General	*Sample Specific*	*Sample Specific*	*Sample Specific*	*Sample Specific*	*Sample Specific*	*Sample Specific*
Segregated samples x 4	240ppm H2S		280ppm H2S	280ppm H2S		
3 samples transferred, 1 left in MPSR. H2S measured by Draeger Tube during transf						

MDT pressure and sample data

West Seahorse-3 - MDT PRESSURE POINT & SAMPLING PROGRAMME

		sampling points			SAMPLE POINT									
					LFA FLUID CONFIRMATION									
		pressure test point												
						CQG	CQG		CQG					
Pressure Point #	Actual Depth mMDRT	Actual Depth mTVDRT	Actual Depth mTVDSS	Depth ftTVDSS	Time Pad Set	Initial Hydrostatic Pressure psia	Final Hydrostatic Pressure psia	Drawdown Volume cc	Final Buildup Pressure psia	FTA ?spherical method Mobility md/cp	Buildup Time Secs	Temp. deg C	Remarks
1a	1553.5	1430.9	1392.9	4569.88	16:50			#REF!					Low perm
2	1562.5	1439.7	1401.7	4598.79	16:59			0.0					lost seal
3	1562.9	1439.8	1401.8	4599.08	17:04			0.0					lost seal
4	1564.0	1441.2	1403.2	4603.61	17:15	2427.44	2427.05	20.0	1966.06	184.3	170	59.6	Good Test
5	1566.0	1443.2	1405.2	4610.07	17:27	2430.87	2430.51	20.0	1967.90	94.7	160	59.8	Good test
6	1567.0	1444.1	1406.1	4613.29	17:40	2432.20	2432.10	20.2	1968.88	702.0	170	59.8	Good test
7	1568.5	1445.6	1407.6	4618.11	17:55	2434.43	2434.25	20.0	1970.11	692.0	200	60.0	Good test
8	1570.0	1447.1	1409.1	4622.97	18:05	2436.90	2436.78	20.1	1971.71	7.5	300	59.9	Good test, but mobility calc is incorrect
9	1573.5	1450.5	1412.5	4634.25	18:25	2442.71	2442.57	19.9	1976.50	366.4	310	60.1	Good test
10	1577.0	1454.0	1416.0	4645.54	18:40	2449.01	2448.82	20.2	1981.66	654.4	370	60.6	Good test
11	1575.0	1452.0	1414.0	4639.07	18:53	2445.45	2445.41	40.0	1978.87	336.1	920	60.5	Good test, but noisy until 3rd drawdown
12	1588.0	1464.8	1426.8	4681.10	19:15	2467.00	2466.90	20.0	1993.96	1.2	970	61.1	Test under SLB town control... asked for recalc on
13	1600.5	1477.1	1439.1	4721.59	20:00	2487.90	2487.00	20.1	2009.23	1416.0	390	62.1	Good test
14	1603.0	1479.6	1441.6	4729.66	20:15	2491.84	2491.96	20.1	2012.56	259.9	1010	61.8	Lost seal on first attempt, retract, reset, good test.
15	1605.0	1481.6	1443.6	4736.19	20:41	2495.43	2495.38	20.2	2015.40	111.5	370	61.9	Good test
16	1619.0	1495.4	1457.4	4781.59	20:56	2519.13	2519.01	20.2	2041.27	13.9	380	62.3	Good test
17	1636.0	1512.2	1474.2	4836.71	21:09	2547.83	2547.79	10.9			1440	63.2	low perm, 3 drawdowns.
18	1638.0	1514.2	1476.2	4843.21	21:43	2551.27	2551.28	20.2	2068.95	1249.6	200	63.2	Good test
19	1639.0	1515.2	1477.2	4846.46	22:00	2552.82	2552.86	20.1	2070.20	1009.0	230	63.4	Good test
20	1640.0	1516.2	1478.2	4849.70	22:10	2554.23	2554.30	20.2	2071.35	453.5	200	63.5	Good test
21	1643.0	1519.2	1481.2	4859.42	22:20	2559.48	2559.51	20.2	2075.71	1998.6	220	63.6	Good test
22	1661.0	1537.0	1499.0	4917.81	22:45	2589.13	2589.15	20.3	2102.98	2280.6	180	64.0	Good test
23	1664.0	1539.9	1501.9	4927.56	22:55	2594.34	2594.38	20.5	2107.26	3786.4	310	64.4	Good test
24	1667.0	1542.9	1504.9	4937.27	23:08	2599.31	2599.37	20.4	2111.23	2552.1	270	64.8	Good test
25	1685.0	1560.7	1522.7	4995.70	23:30	2629.70	2629.72	20.2	2136.36	120.2	310	65.5	Good test
26	1686.0	1561.7	1523.7	4998.95	23:43	2631.53	2631.56	20.4	2137.60	400.8	250	66.1	Good test
27	1700.0	1575.5	1537.5	5044.26	23:55	2655.40	2655.43	20.1	2157.10	1625.5	210	66.5	Good test
1	1638.0	1514.2	1476.2	4843.21	0:12	2550.91		10.1			8'20"	66.4	Drawdown of 1000 psi....2425 cc. Pump out terminated.
2	1638.5	1514.6	1476.6	4844.49	0:40	2551.31	2551.4	10.3			20'40"	66.4	Pump out 20.17 litres.
3	1567.0	1444.1	1406.1	4613.29	1:23	2431.19	2431.28	10.0	1968.07	573.0	1hr2'	65.0	4 x 450 cc samples collected. Pump out volume 51.971 litres
28	1562.0	1439.0	1401.0	4596.46	2:39	2423.14	2423.29	10.0					lost seal, retract & reset, supercharged
29	1561.5	1438.5	1400.5	4594.82	2:55	2422.68	2422.65	10.1					lost seal
30	1561.0	1438.1	1400.1	4593.50	3:05	2421.53	2421.62	5.3					low permeability
31	1560.5	1437.6	1399.6	4591.86	3:20	2421.10	2421.17	1.0					low permeability
32	1556.5	1433.7	1395.7	4579.07	3:36	2414.29	2414.32	15.1					supercharged

Percussion sidewall cores

No percussion sidewall cores were acquired in West Seahorse 3.

Biostratigraphy

No palynology samples were collected.

Drill stem testing

No drill stem tests were run in West Seahorse 3.

Logging while drilling (LWD)

MWD/LWD services were provided by Schlumberger and full details of their operation are recorded in their End of Well Report included herein as Enclosure 4. LWD operations are briefly tabled below.

LWD Run summary 1, 122-1123mMDRT.

To be filled in at the end of each run by the LWD Engineer and verified by the Well Site Geologist

General Data							
Well Name	West Seahorse-3	MWD Run#	1	Date	25-Apr-2008	to	28-Apr-2008
Service Company	Schlumberger D&M	BHA#	2	Drilled Interval	125m MDRT	to	1123m MDRT
UWI				Wiped Interval	N/A	to	
Engineers	Jun Ikeda, San Thida Aung						

Hole Data									
Hole Size	17.5 in	Inc Start	0.83°	Inc End	27.05°	Azi Start	65.83°	Azi End	63.32°

Mud Data							
Mud type	WBM (PHG)	Mud Weight sg	1.13	PV / YP	5 /15	Cl mg/l	16,000
% HG Solids	3.1	K+ mg/l	-	Rmf	-	Rm	-

Drilling Data							
Metres Drilled	998	Avg ROP m/hr	60	Avg WOB klb	22	Avg Torque kftlb	4.83
RPM	166	Flow Rate GPM	1060	SPP psi	2596	BHCT	-

Bit Data							
Make	Baker Hughes	Type	Mill Tooth	Depth In	125m	Depth Out	1123m
Number Jets	3	Sizes	20/32"			Condition Out	2-2-WT-A-E-In-BT-TD

BHA Data

BHA Item	Bit	Mud Motor	String Stab	Cross Over	Float Sub	NM Pony Collars	Cross Over	MWD	NM Drill Collars	Drill Collars	Jar	Drill Collars	Cross Over	HWDP
OD (in)	17.5	17.25	17	9.5	8	8	8.5	8.25	8	8.25	8.19	8.25	8.25	7.25
ID (in)	N/A	N/A	2.81	3	2.88	2.88	2.81	N/A	2.88	2.88	3	2.88	2.81	3.25
Length (m)	0.41	10.10	2.42	1.23	0.80	7.0	0.47	8.49	18.1	46.99	9.68	18.9	1.22	112.84
Total (m)	0.41	10.51	12.93	14.16	14.96	21.96	22.43	30.92	49.02	96.01	105.69	124.59	125.81	238.65

MWD / LWD Tool Data				
Tool Type	TeleSCOPE			
Sub Type	MWD			
Tool OD / ID (in)	OD=8.25, ID=N/A			
Mem Sample Rate (sec)	N/A			
Bit to Sensor Offset (m)	26.56			
First Reading (m)	154.20			
Flow Rate Range for Pulser Configuration			600-1200 GPM	

Data Acquisition				
	Pressure	Gamma	Resistivity	
Interval Logged (m)	N/A	N/A	N/A	
Meters Logged, %				
Meters Bad Data / Interval, %				
Meters No Data / % Interval (m)				

Density Calibration	(Calibration filename format = ADN, Size, S/N, Date mmddyy, Time hhmm)
Pre Run Calibration file	N/A
Post Run Calibration file	N/A
Comments	

MWD/LWD Time Analysis					
Date & Time In	25/04/08 22:30 hrs	Drilling time	31.0 hrs	% Total	63.27
Date & Time Out	28/04/08 08:30 hrs	Wiping Time	N/A	% Total	0
Time In Hole (hrs)	58.0	Tripping Time	16.5 hrs	% Total	33.67
Pumping time (hrs)	37.3	Down Time	N/A	% Total	0
		Circ Time	1.5 hrs	% Total	3.06

Remarks: D&I run only. Objective was to kick the well off and stop in the tangent section to set protective casing above the target interval. No MWD GR or LWD tools run in the string. The run was successful. At the end of the run the actual well path was 2.50m to the right and 4.5m below the proposed line. Centre to centre was 5.25m at 1094.42 mMDRT (1014 mTVDRT).

LWD Run summary 2, 1123-1810mMDRT.

To be filled in at the end of each run by the LWD Engineer and verified by the Well Site Geologist

General Data							
Well Name	West SeaHorse-3	MWD Run#	2	Date	2-May-2008	to	5-May-2008
Service Company	Schlumberger D&M	BHA#	3	Drilled Interval	1123	to	1810
UWI				Wiped Interval	N/A	to	
Engineers	Jun Ikeda, San thida Aung						

Hole Data									
Hole Size	12.25 in	Inc Start	25.87°	Inc End	8.74°	Azi Start	63.39°	Azi End	56.02°

Mud Data							
Mud type	KCl Polymer WBM	Mud Weight ppg	9.4-9.6+	PV / YP	10 / 25	Cl mg/l	36,000
% HG Solids	2.2	K+ mg/l	40,000	Rmf	0.1086 ohmm @ 22℃	Rm	0.1203 ohmm @ 22℃

Drilling Data							
Metres Drilled	687	Avg ROP m/hr	3.3-107.4 (36.1)	Avg WOB klb	1.8-38.2 (13.2)	Avg Torque kftlb	1.4-14.9 (8.0)
RPM	56-171 (149)	Flow Rate GPM	930-1055 (1012)	SPP psi	1246-1910 (1728)	Maximum BHCT	58℃

Bit Data							
Make	Reed Hycalog	Type	PDC	Depth In	1123	Depth Out	1810
Number Jets	6	Sizes	15,15,15,16,16,16			Condition Out	3-1-CT-A-X-I-WT-TD

BHA Data												
BHA Item	Bit	Power Drive	PD Receiver	Flex Collar	Resistivity Tool	MWD	NM Drill Collar	Drill Collar	Jar	Drill Collar	Cross Over	HWDP
OD (in)	12.25	9.25	9.50	8.25	8.25	8.25	8.00	8.00	8.00	8.00	8.00	5.50
ID (in)	3.00	3.00	6.00	5.00	3.90	N/A	2.81	2.81	3.00	2.81	2.81	3.25
Length (m)	0.30	4.20	1.87	2.95	4.22	8.49	8.65	9.45	9.68	9.44	1.22	112.84
Total (m)	0.30	4.50	6.37	9.32	13.54	22.03	30.68	40.13	49.81	59.25	60.47	173.31

MWD / LWD Tool Data						
Tool Type	RAB 8	RAB 8	RAB 8	RAB 8	RAB 8	TeleSCOPE
Sub Type	Gamma	Resistivity	Resistivity	Resistivity	Resistivity	MWD
Tool OD / ID (in)	OD=12.13, ID=3.90					OD=8.25, ID=N/A
Mem Sample Rate (sec)	5 sec	5 sec	5 sec	5 sec	5 sec	N/A
Bit to Sensor Offset (m)	Gamma=10.49	Shallow=11.26	Medium=11.13	Deep=10.96	Ring=10.75	Survey=17.67
First Reading (m)	1117	1117	1117	1117	1117	1143.3
Flow Rate Range for Pulser Configuration				600-1200 GPM		

Data Acquisition				
	Pressure	Gamma	Resistivity	
Interval Logged (m)	N/A	1117 – 1799.5	1117 – 1799.3 (Ring)	
Meters Logged / % Interval		682.5 / 98.5%	682.3 / 98.5%	
Meters Bad Data / % Interval		0	0	
Meters No Data / % Interval (m)		10.5 / 1.5%	10.7 / 1.5%	

Density Calibration	(Calibration filename format = ADN, Size, S/N, Date mmddyy, Time hhmm)
Pre Run Calibration file	N/A
Post Run Calibration file	N/A
Comments	Density tool not run

LWD Time Analysis					
Date & Time In	2 May 2008, 17:30hrs	Drilling time	26.5	% Total	42.7
Date & Time Out	5 May 2008, 06:00hrs	Wiping Time	0	% Total	0
Time In Hole (hrs)	60.5	Tripping Time	14.0	% Total	22.7
Pumping time (hrs)	41.48	Down Time / Other	0 / 18.0	% Total	0 / 29.0
		Circ Time	3.5	% Total	5.6

Remarks: The objective of this run was to continue the tangent section and drop angle through the target horizons to TD. At TD the actual well path was 6.2m left and 6.8m high to the planned trajectory. The quality of both real time and memory logs was good (ROP was controlled at 30m/hr maximum through the target to ensure good RT data was available). RT log quality was sufficient for well correlation and first indications of possible pay zones. No intervals of bad or missing data were present.

Wireline operations and summary

Wireline log services were provided by Schlumberger and the table below summarizes operation parameters. Full details of the operation are included in Enclosure 5.

Date	5/May/08						West Seahorse-3							
Log Run Number (Suite / Run):	1	/	1											
Surface Temperature	28°C													
Depth Driller:	1810	metres												
Depth Logger:	1775	metres					Logging tools tagged up early - could not reach TD							
Bottom Log Interval:	1775	metres												
Top Log Interval:	110	metres												
Casing Driller:	1117	metres					Size:	13⅜"	Weight:		68 lbs/ft	ID:	12.415"	
Casing Logger:	1117	metres												
Bit Size	12.25"													
Type of Fluid in Hole	KCl/PHPA													
Density	9.7	ppg					x	Barite		Hematite		x	Other (Salt)	
Viscosity	44						Titrated Chlorides		36,000	Nitrates				
pH	9						Titrated Calcium		280	Potassium		40000 ppm		
Fluid Loss	8.3	HTHP					Barite		2.2	%	Oil / Water Ratio			
Source of Sample	Flowline						Use a circulated mud sample for each analysis.							
Rm	0.1127	@	22.6	°C										
Rmf	0.1014	@	22.2	°C			0.0976	@ 23.9°C (75°F)						
Rmc	0.166	@	23	°C										

Log	Track	Scale Range		Comments (units, line codes, etc.)
GR	1	0	150	
SP				n/a
Caliper	1	10	20	Appropriate 10" range
Bit Size	1	6	16	Appropriate 10" range
Resistivity	2	0.2	200	
Density	3	1.65	2.65	
Correction	3	-0.9	0.1	
Pe	3	0	20	
Neutron	3	60	0	
Sonic	3	240	40	
Tension	Depth	10,000	0	

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: Directional Drilling Report

Attachment 8: Activity Summary Reports

Attachment 9: Well Cost Summary

Attachment 10: Description of cuttings

Attachment 11: Daily geological reports

Attachment 12: MSCT photography

Attachment 13: Validity checks and analyses of MDT samples

Attachment 14: Organic Geochemistry Report

LIST OF ENCLOSURES

Enclosure 1: Gas Log Plot

Enclosure 2: Drilling Data Plot

Enclosure 3: Mud Log Plot

Enclosure 4: LWD Log Plot

Enclosure 5: Wireline Log Plot

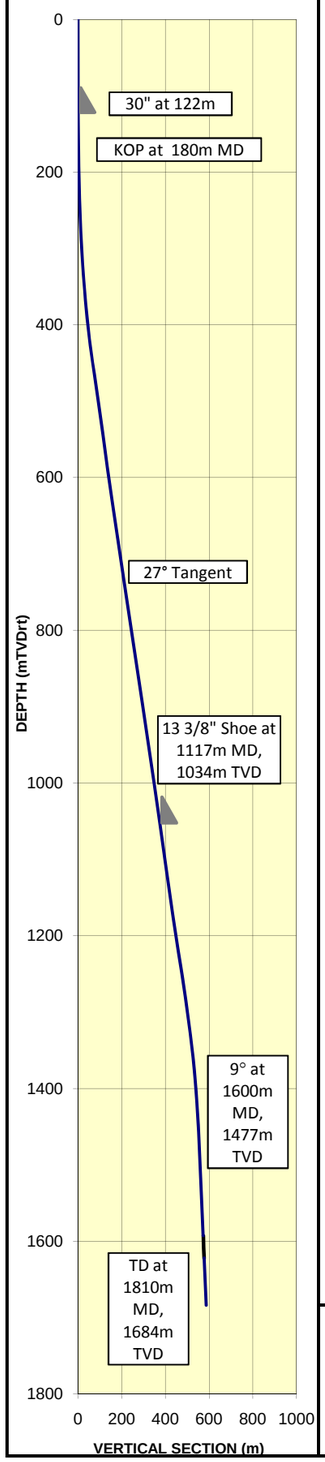
Attachment 1

Well Montage

West Seahorse-3 Post Well Summary

PROJECT:	Bass Strait Consortium	SURFACE LOCATION:	Latitude 38° 12' 24.9422" S	DATUM:	Rotary Table	LICENSE:	VIC P57
WELL:	West Seahorse-3		Longitude 147° 37' 09.865" E	ELEVATION ABOVE MSL (m):	37.7	BASIN:	Gippsland
CLASSIFICATION:	Appraisal Well	UTM:	GDA94 Zone 55	WATER DEPTH (m):	39.5	STATE:	Victoria
RIG:	West Triton		5771044m N; 554229m E	WELL SLOT:	1	OPERATOR:	3D Oil Ltd.

PREPARED BY:	Manelle Moussa	Australian Drilling Associates Pty Ltd	ADA
APPROVED BY:	Rajiv Tikkoo		
LAST UPDATED:	16/06/2008		



DIRECTIONAL PROFILE	FORMATION DEPTH	mTVDss	mTVDrt	mMDrt	CASING SHOES	Hole Size / Casing Depth (mMDrt)	CASING SIZE	CASING WEIGHT (ppf)	CASING GRADE	CASING CONNECTION	PORE PRESSURE GRADIENT (ppg)	FRACTURE GRADIENT (ppg)	BHST 0.04°C/m, 10°C at mudline (74m TVDrt)	MUD PROGRAM	CEMENTING PROGRAM: Additives	Density	TOC	Excess	SURVEY PLAN	BITS AND BOTTOM HOLE ASSEMBLIES	FORMATION EVALUATION
	Seabed	39.5	77.2	77.2		36"					Normal 8.4ppg			Seawater & High Viscosity Bentonite Sweeps MW = 8.70ppg Funnel Viscosity >100 sec 6rpm >40 pH = 9-10 Gel 10sec >15lb/100sqft Gel 10min >40lb/100sqft	Single Slurry				Anderdrift	Bit & Hole Opener 26" Reed Y11C Bit + 36" HO Float Sub Anderdrfit Pulser Stabilizer 2 x 9.5" Collar 9.5" Crossover 5x 8 1/4" Collar 8 1/4" Crossover 5 x 5.5" HWDP	NA
						122m									Class G + 1% Calcium Chloride + NF-6 Seawater	15.9ppg	mudline 74m MDrt	200%			
															Cement PLUG #3						
							30"	1" wall	X52	D60/MT		12ppg @ 200m	20°C		Class G,+ CFR-3L + NF-6, + HR-6L Drill water	15.8ppg	130-207m				
	Gippsland Limestone					17.5"					Normal 8.4ppg			Seawater - Bentonite MW =15-20ppg (hihger than programmed 9-9.5ppg) Funnel Viscosity 30-50 sec pH = 8.0-9.5	Lead Slurry				MWD-DIR every 30m	17.5" Motor BHA 17.5" Hughes MXL-T1V Bit Motor Schlumberger A962M7848GT Stabilizer Crossover Float Sub 8" Pony NMDC (3 joints) Crossover PowerPulse HF MWD 8" NMDC (2 joints) 3 x 8 1/4" Collar (5 joints) Drilling Jar 8" 2 x 8" Collar (2 joints) Crossover 5 1/2" HWDP (12 joints)	Cuttings Sampling: Every 20m
															Class G + Econolite + NF-6 Seawater	12.5ppg	600m mMDRT	10%			
															Tail Slurry						
															Class G + CFR-3L + NF-6 + HR-6L Freshwater	15.8ppg	1000 mMDrt	10%			
															Cement PLUG #2						
															Class G + CFR-3L + NF-6 + HR-6L Drill water	15.9ppg	1030-1149m				
	Lakes Entrance	858.0	895.7	960		1117m	13.375"	68	N80	BTC		15ppg at 1000mTVDrt	55°C								
						12.25"					Normal 8.4ppg			KCl / PHPA / CLAYSEAL MW = 9.5-10ppg 6rpm = 13-16 API Flitrate <6 HTHP Filtrate <12 KCl = 6-8% by weight Excess PHPA >1ppb LGS <10% by vol ClaySeal = 2% by vol pH = 8.8-9.5 Residual Sulphite > 100mg/L Ca<400mg/l				MWD DIR-GR-RES	12 1/4" RSS/LWD BHA 12 .25" Reed RSX 616 PDC Bit PD 900 AA 12 1/4" Power Drive Unit PD 900 Receiver w/float PD 900 Flex Collar GVR-8 (Model RAB-8) PowerPulse HF 8" NMDC 8 1/4" Collar (1 joint) Hydraulic Jar HDL-100 8" Collar (1 joint) Crossover 7 1/4" HWDP (12 joints)	Wireline Logging 1. PEX-HRLA-BHC 2. MDT (Pressure & Sampling) 3. MSCT (Rotary Sidewall Cores) Cuttings Sampling: Every 10m above Latrobe Every 5m thereafter
															Cement PLUG #1B						
															Class G + CFR-3L + NF-6 + HR-6L Drill water	15.8ppg	1490-1633m				
	Latrobe Group	1369.2	1406.9	1529											Cement PLUG #1A						
															Class G + CFR-3L + NF-6 + HR-6L Drill water	15.8ppg	1633-1770m				
						1810m	Open Hole					17ppg at 1700mTVDrt	80° at TD								

PRIMARY TARGET:	5771286 N, 554690 E	WELL PATH:	Deviated	OIL GRAVITY:	48 API	SEISMIC LINE:	INLINE 1532
TARGET TOP:	1400m TVDss	MAX ANGLE:	27°	H_2S:	280ppm (separated reservoir gas)		
SECONDARY TARGET:	5771308 N, 554732 E			CO_2:	Trace amounts		
TD:	1684m TVD SS						

KICK TOLERANCE	OFFSET WELLS:
12.25": 136.9bbl*	West Seahorse-1
*Based on MW of 10.0ppg, and pore pressure of 8.4ppg	West Seahorse-2
	Seahorse-1, 2
	Harlequin-1

Attachment 2

Bit and BHA Record

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time: 04.15 | Release Time: 16.30

Bit Record

Well: West Seahorse-3

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 (sg)	I	O1	D	L	B	G	O2	R
24 Apr 2008	24 Apr 2008	111	1	26.00	34406	REED	Y11C	1 x 16 3 x 22	1.31	77.5	125.0	47.5	3	15.83	1300	1200	6.00	65	1.02	0	0	RR					TD
25 Apr 2008	28 Apr 2008	115	2	17.50	6064689	HUGHES	MXL-T1V	3 x 20	0.92	125.0	1123.0	998	41	24.34	3100	1150	35.00	100	1.08	2	2	WT	A	E	I	BT	TD
02 May 2008		M422	3	12.25	218662	REED	RSX 616M-A16	3 x 16 3 x 15	1.107	1123.0	1810.0	687	26.5	25.92	1900	1000	10.00	150	1.11	2	1	CT	A	X	I	WT	TD

Wellname : West Seahorse-3	Drilling Co. : Seadrill	Rig : West Triton

DFE above MSL : 38.0m	Lat : 38 Deg 12 Min 25.077 Sec	Spud Date : 24 Apr 2008	Release Date : 09 May 2008
Water Depth : 39.5m	Long : 147 Deg 37 Min 9.810 Sec	Spud Time: 04.15	Release Time: 16.30

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time: 04.15 | Release Time: 16.30

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	24 Apr 2008	125.0			42.00	42.00	42.00				26"bit, 36" H/O, Bit sub, Anderdrift, 36" Stab,2 x 9" DC's, x-over, 5 x 81/4" DC's, x-over, 5 x HWDP.
2	25 Apr 2008	238.7	82500.00		175.00	202.00	154.00	10000	8000	5000	17 1/2" bit, Mud Motor, 17" Stab, X/O, Float Sub, 3 x 8" Pony NMDC's, X/O, Powerpulse, 2 x 8" NMDC's, 5 x 8" DC's, 8" Drl Jars, 2 x 8" DC's, X/O, 12 x HWDP
3	02 May 2008	173.3	41.00		202.00	260.00	161.00	13000	9000	6000	12 1/4" Bit, PD900, PD Receiver, PD Flex Collar, GVR-8, Power Pulse, NMDC, DC, Jar, DC, x/o, 12 x HWDP.

PERFORMANCE UPDATE

17 ½” MXL-T1V

Dependable Performance

FastMax™

WELL LOCATION: **GIPPSLAND BASIN – AUSTRALIA**

FORMATION:
Tertiary Pliocene (Gippsland Limestone)
SB - 850m. (UCS <= 5kpsi)
Early Oligocene (Lakes Entrance - Mudstone/Marl)
850m – 1345mTVD. (UCS <=11kpsi)

BHA:
17 1/2" bit, Mud Motor (1.5° Bend), 17" Stab, X/O, Float Sub, 3 x 8" Pony NMDC's, X/O, Powerpulse, 2 x 8" NMDC's,
5 x 8“ DC's, 8" Drl Jars, 2 x 8" DC's, X/O, 12 x HWDP

MUD: WBM: 9.0 – 9.5 ppg

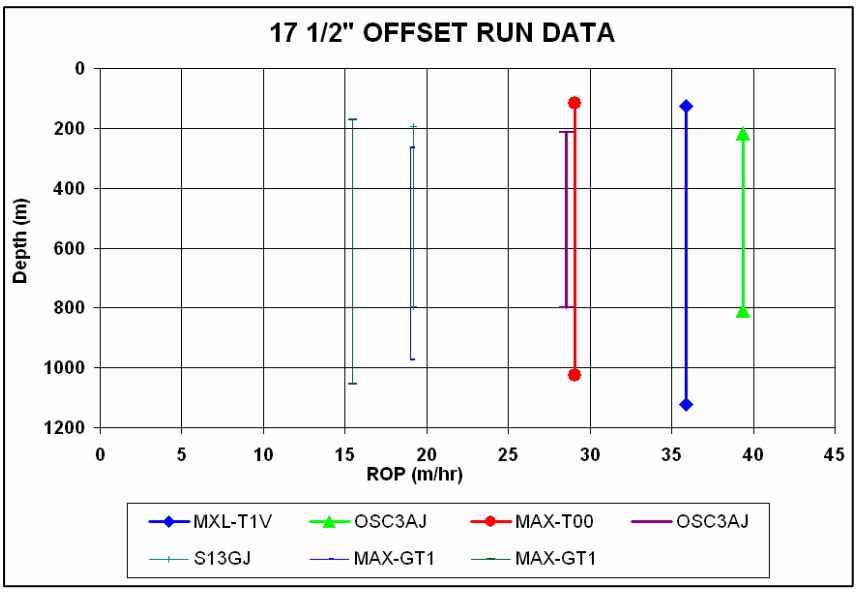
HYDRAULICS: 1150 GPM. Nozzles (3 x 20/32”).

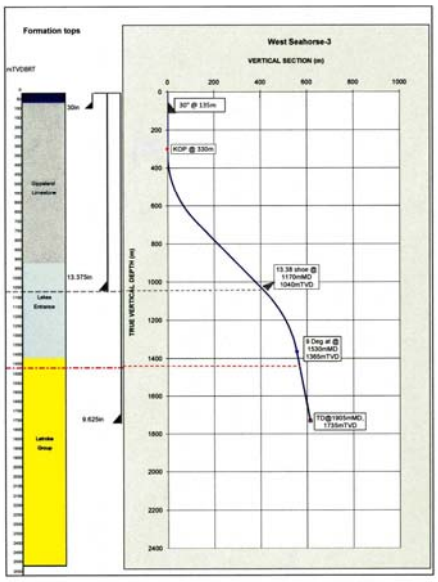
OBJECTIVES:
Vertical Hole from 125mRT.
KOP 180mRT. Build to 27° and Hold to 1135mRT

PERFORMANCE:
KOP#1 @ 172m.
768mRT Incl = 27.5°. Az = 61°.
In: 125m Out: 1123m (TD) Dist: 998m
Hrs: 27.8
ROP = 35.9m/hr.

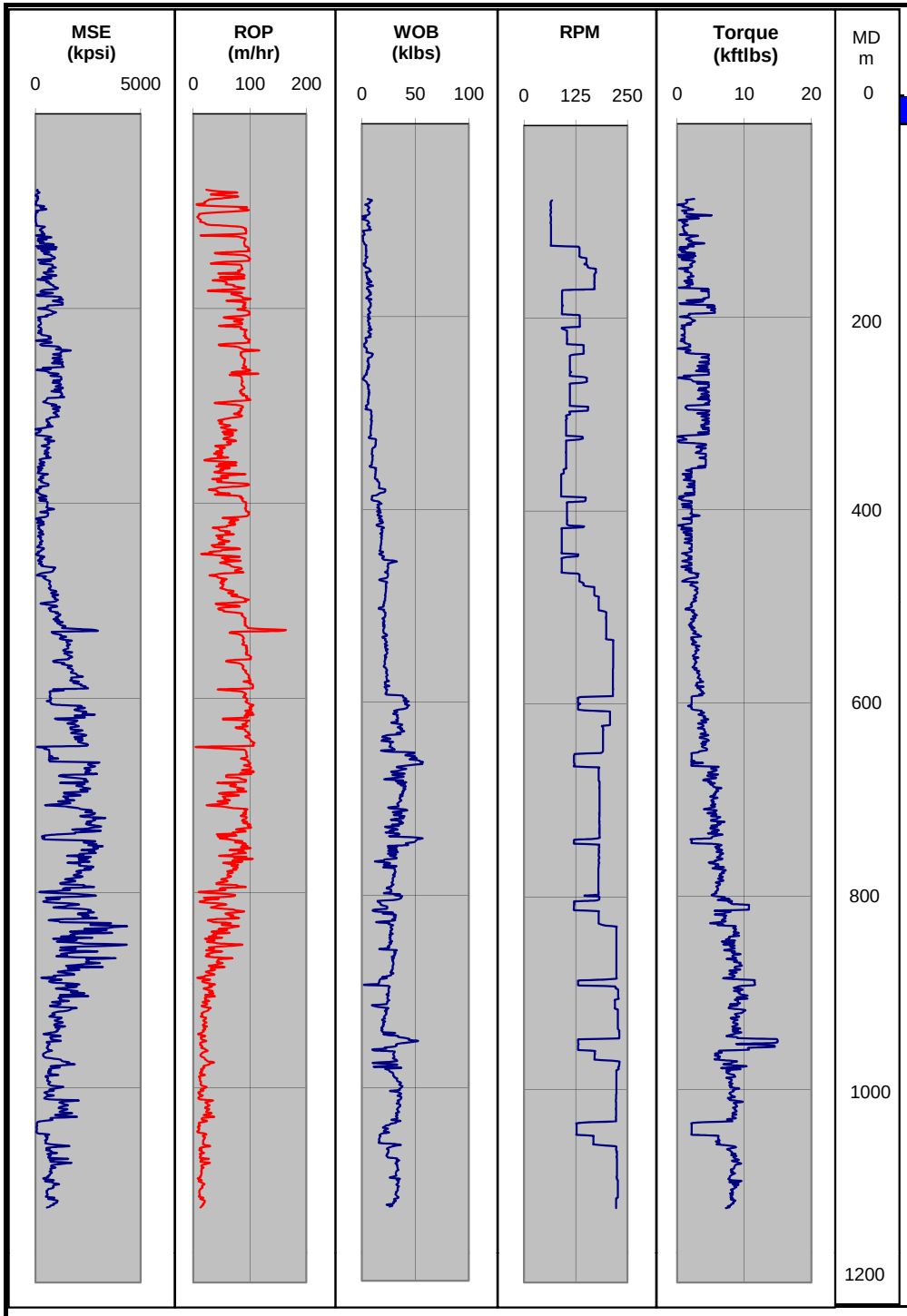
17 ½” MXL-T1V

(H2085402)





Well Name	Manufacturer	Bit Size	Bit Type	IADC Code	Depth In	Depth Out	Depth Drilled	Drilling Hours	ROP (m/hr)	WOB	RPM	I	O	DC	L	B	G	O	RP
WEST SEAHORSE 2	HCC	17.5	MXL-T1V	117	125	1123	998	27.8	35.9	35	100	2	2	WT	A	E	IN	BT	TD
SUNFISH 2	HCC	17.5	OSC3AJ	111	218	809	591	15	39.4	10	150	1	1	WT	A	E	IN	NO	TD
LONGTOM 1	HCC	17.5	MAX-T00	415	116	1025	909	31.25	29.1	10	175	0	0	NO	A	E	IN	NO	TD
SNAPPER 4	HCC	17.5	OSC3AJ	111	215	800	585	20.5	28.5	20	150	2	2	WT	A	E	IN	NO	TD
SWEETLIPS 1	ReedHycalog	17.5	S13GJ	135	195	795	600	31.25	19.2	15	125	1	3	WT	H	E	IN	NO	TD
FORTESCUE A16A	HCC	17.5	MAX-GT1	115	264	972	708	37.3	19.0	35	180	1	1	WT	A	E	IN	NO	PR
FORTESCUE A-22	HCC	17.5	MAX-GT1	115	173	1055	882	57	15.5	15	180	1	1	NO	G	E	1/16"	NO	TD



Bit Run Report

BAKER HUGHES Hughes Christensen

Photos

17 1/2" MXL-T1V

New Bit

Top View

Side View

Well Data

Well Name	WEST SEAHORSE 3
Field	Gippsland Basin
Operator	3D OIL
Contractor	SeaDrill
Rig Name	WEST TRITON
DD Co.	Schlumberger
Date In	26-Apr-08
Date Out	28-Apr-08

Bit Data

Size / Run #	17.5"	Nozzles	3x20
Type	MXL-T1V	TFA (in^2)	0.921
Serial No.	6064689	Cutter size	-

Mud

Type	PHB	
M.W.	1.13	Sg
P.V.	5	cp
Y.P.	15	lb/100ft²

Hydraulics

SPP (psi)	3100
Flow (gpm)	1150
Bit Pressure	-
H.S.I	3.77

Bit Performance

In	Out	Mtr	Hours	ROP	WOB	RPM	V/D
125	1123	998	27.8	35.9	35	160	D
IADC Hours			41	24.3	M/Hr IADC ROP		
TVD (In/Out)		125	1123	Inc (In/Out)		0°	27°
Vert. Sec				Azm (In/Out)			

Rig Dull Grading

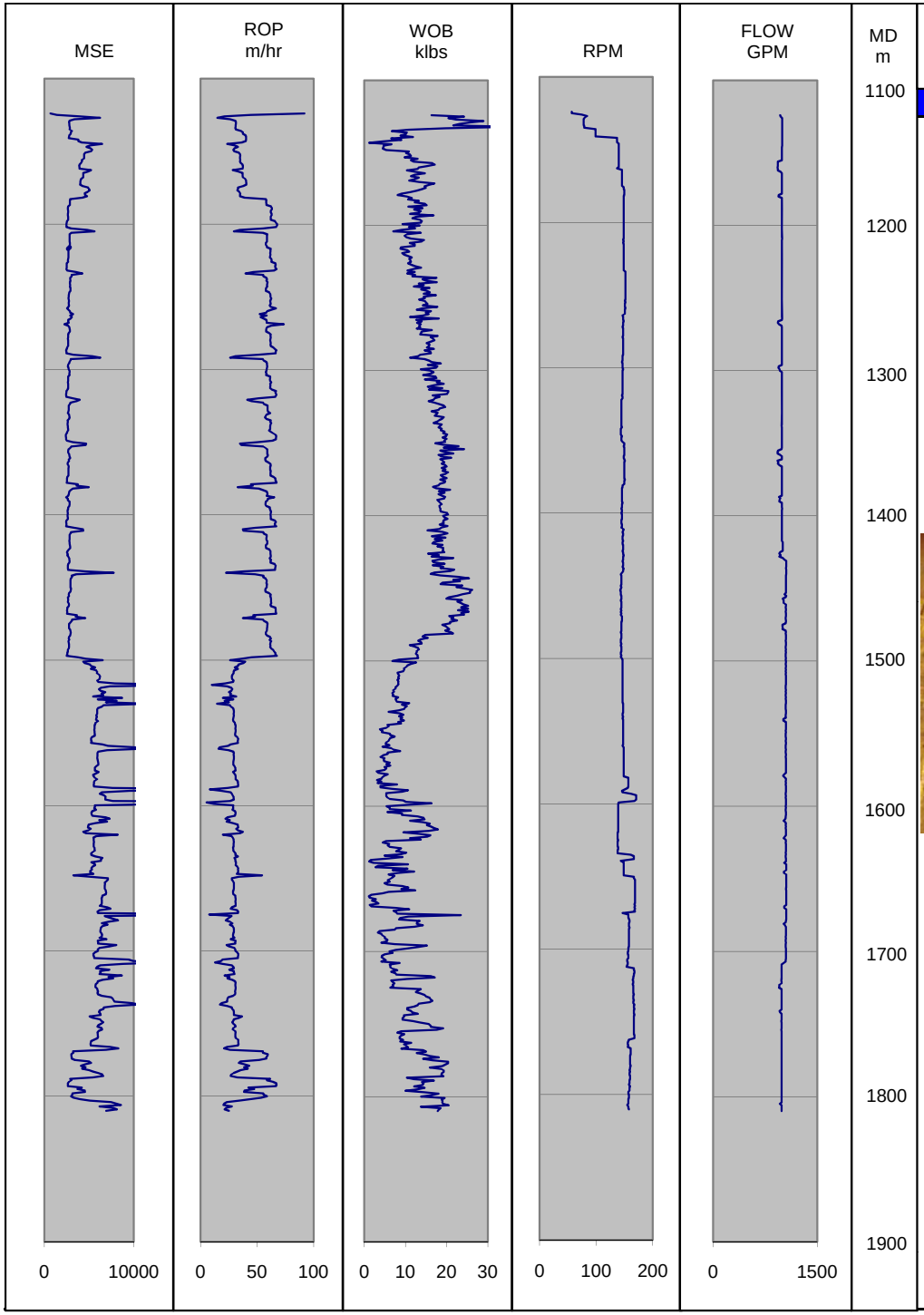
2	2	WT	A	E	I	BT	TD

Hughes Christensen Dull Grading

NOT GRADED

Comments

The 17.5" MXL-T1V is the new FASTMAX Rollercone product line, and was run on Mud Motor to drill the upper section through the Gippsland Limestone and kick off at for directional into the Lakes Entrance Formation.Inclination build and hold to +/- 27º. The bit drilled this section in 1 run. MSE shows very efficient drilling to about 800mMD through the Gippsland Limestone. MSE increases in the transition into the Lakes Entrance formation with Torque increasing. The dull grading indicates that higher WOB and rpm may have improved performance through Lakes Entrance Formation.



Bit Run Report

REED Hycalog™
A Grant Prideco Company

Photos

12.25" RSX616M-A16

New Bit

Top View

Cutting Structure View

Well Data

Well Name	West Seahorse 3
Field	Bass Strait
Operator	3D Oil
Contractor	ADA
Rig Name	West Triton
DD Co.	Schlumberger D&M
Date In	2-May-08
Date Out	4-May-08

Bit Data

Size / Run #	12.25	Nozzles	3x16, 3x15
Type	RSX616M-A16	TFA (in^2)	1.107
Serial No.	218662	Cutter size	16mm

Mud

Type	WBM Brine
M.W.	1.1
P.V.	
Y.P.	

Hydraulics

SPP (psi)	1900
Flow (gpm)	1000
Bit Pressure	
H.S.I	1.38

Bit Performance

In	Out	Mtr	Hours	ROP	WOB	RPM	V/D
1123	1810	687	26.5	25.92	10	150	D

IADC Hours	-	-	M/Hr IADC ROP
TVD (In/Out)	-	-	Inc (In/Out) - -
Vert. Sec	-		Azm (In/Out) - -

Rig Dull Grading

2	1	CT	A	X	I	WT	TD

REEDHycalog Dull Grading

NOT GRADED

Comments

Attachment 3

Mud Report

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time: 04.15 | Release Time: 16.30

Mud Recap

Well: West Seahorse-3

WBM

R#	Date - Time	Type	Depth m	Tmp C°	MW sg	VIS sec/qt	PV cp	YP lb/100ft²	Gel10s (lb/100ft²) / 10m (lb/100ft²)	F.L. API cc/30min	F.L. hthp cc/30min	Sols %	Sand	MBT	PH	Cl mg/l	Hard mg/l	KCl %	Daily Cost US$
3	24 Apr 2008 - 23:59	PHB	125.0	19	1.02	110	13	56	17 / 41	13.0		5		40	9				14061
4	25 Apr 2008 - 20:00	PHB	125.0	20	1.03	40	4	14	9 / 13	30.0		3		20	8	10000	700		4929
5	26 Apr 2008 - 23:59	PHB	768.0	38	1.10	48	8	24	10 / 12			5		14	8.5	18000	1600		2492
6	27 Apr 2008 - 20:00	PHB	1123.0	38	1.13	36	5	15	12 / 14			5	0.5	14	8	16000	1600		2076
7	28 Apr 2008 - 20:00	PHB	1123.0	23	1.13	40	5	15	12 / 14			5	0.4	14	8	16000	1600		
8	29 Apr 2008 - 20:00	PHB	1123.0	22	1.13	40	5	15	12 / 14			5	0.4	14	8	16000	1600		22323
9	30 Apr 2008 - 20:00	PHB	1123.0	22	1.13	40	5	15	12 / 14			5	0.4	14	8	16000	1600		22323
10	01 May 2008 - 20:00	PHB	1123.0	22	1.13	40	5	15	12 / 14			5	0.3	14	8	16000	1600		10457
11	02 May 2008 - 20:00	PHB	1123.0	22	1.13	40	5	15	12 / 14			5	0.3	14	8	16000	1600		3838
12	03 May 2008 - 23:59	KCl/Polymer	1400.0	37	1.13	48	11	26	10 / 14	5.8	8.3	3	0.1	2.5	8.5	41000	600	8	4450
13	04 May 2008 - 22:00	KCl/Polymer	1810.0	39	1.16	44	10	25	10 / 14	5.8	8.3	5	0.8	4	9	36000	280	8	19091
14	05 May 2008 - 20:00	KCl/Polymer	1810.0	26	1.16	45	10	25	10 / 14	5.8	8.3	5	0.8	4	9	36000	280	8	
15	06 May 2008 - 20:00	KCl/Polymer	1810.0	26	1.16	45	10	25	10 / 14	5.8	8.3	5	0.8	4	9	36000	280	8	
16	07 May 2008 - 23:59	KCl/Polymer	1810.0	23	1.16	46	10	25	10 / 14	5.8		5	.25	5	11	36000	960	8	
17	08 May 2008 - 23:59	KCl/Polymer	1810.0	26	1.16	46	10	25	10 / 14	5.8		5		5	11	36000	960	8	
18	09 May 2008 - 23:59	KCl/Polymer	1810.0	26	1.16	46	10	25	10 / 14	5.8		5		5	11	36000	960	8	

HALLIBURTON

Fluid Systems

BAROID FLUID SERVICES RECAP

3D OIL AUSTRALIA PTY LTD
WEST TRITON
BASS STRAIT, VICTORIA

West Seahorse-3

Prepared by: Eugene Edwards
Tim Waldhuter

Date: April/May, 2008

Table of Contents

1. WELL SUMMARY

1.1 Well Data

Well Name	:	West Seahorse 3
Operator	:	3D Oil Australia Pty Ltd
Well Type	:	Vertical/Exploration
Bottom Hole Temperature	:	58º C
Maximum Inclination	:	28.5º
Location	:	VIC P57, Gippsland Basin, Victoria
Contractor/Rig	:	West Triton
Start Date (Rig)	:	22/04/2008
Baroid On Location	:	22/04/2008
Drill Out Date	:	23/04/2008
RT to Mudline	:	77.5 m
Total Depth	:	1810m
Date TD Reached	:	04/05/2008
Total Days Actual Drilling	:	5
Date Released	:	05/09/2008
Total Days on Well	:	17
Drilling Cuttings Volume	:	236m^3

Formation Tops

Formation	MDRT (m)	TVDRT (m)	Length (m MD)
Gippsland	125	125	835
Lakes Entrance	1250	1050	1125
Gurnard Formation	1457	1357	207
Top N1	1600	1400	143
Top N2.3	1668	1468	68
Top N2.6	1689	1489	30
Top P1	1720	1520	31
Total Depth	1810	1610	1810

1.3 Casing Program

30	Conductor	@	122 m MDRT
13 $^{3}/_{8}$	Intermediate Casing	@	1117 m MDRT

1.4 Personnel

Drilling Supervisors	:	Bill Openshaw	Rocco Moussow
Baroid Field Service Reps.	:	Eugene Edwards	Tim Waldhuter
		Brian Auckram	Gerald Lange

2. COST SUMMARY

2.1 Drilling Fluid Costs

	Drilling Fluid	Hole Size	MD From	MD To	Cost USD$
1&2	Seawater and Hi-Vis Sweeps Pad Mud / Displacement Mud	36” x 17.5”	77.5m (36”) 125m (17.5”)	125m (36”) 1123 m (17.5”)	23,102.77
3.	KCL/POLYMER	12 $^{1}/_{4}$”	1123 m	1810 m	85,474.79

Mud Materials Used For Drilling	**USD $**	**108,577.57**
Mud Materials Used For Cementing	**USD $**	**511.34**
Mud Materials Used For Completion	**USD $**	**0**
Other Materials Used (Cleaning Pits & Rig Cleaning)	**USD $**	**0**
Products Lost / Damaged	**USD $**	**13.10**
Solids Control / Waste Management Cost	**USD $**	**0**
Total Materials	**Total USD $**	**109,102.01**

2.2 Engineering Costs

Service Representatives	From (date)	To (date)	Days
Eugene Edwards	24/04/08	07/05/08	14
Tim Waldhuter	22/04/08	05/05/08	14
Brian Auckram	06/05/08	09/05/08	4
Gerald Lange	08/05/08	09/05/08	2
Total Days:			34
Service Cost	**@ USD $ 1250**	**USD $**	**42,500.00**
Total Cost of Materials & Engineering:		**USD $**	**151,602.01**

3. PERFORMANCE SUMMARY

3.1 Comments

The Jack-up West Triton was moved from the Spekes -1 location to West Seahorse -3 location on the 22nd April. This exploration well was drilled to assess the Latrobe formations.

3.2 Performance Indicators

Interval 1. (77.5m–1123 m) – 36"x 17.5" Interval	Program	Actual	Achieved (+/- 10 %)
• Drilled, m	1129	1123	Yes
• Volume Built, bbl	5614	5917	Yes
• Consumption Rate, bbl/m	4.31	5.2	Yes
• Mud Cost / bbl, US$	6.32	3.98	No
• Mud Cost / m, US$	31.42	20.98	No
• Interval Mud Cost, US$ **	35,478	23,558.83	No

Interval 2. (1123m – 1,810m) – 12.25 " Interval	Program	Actual	Achieved (+/- 10 %)
• Drilled, m	743	693	Yes
• Volume Built, bbl	2704	2283	No
• Dilution Rate, bbl/m	1.75	1.28	No
• Consumption Rate, bbl/m	3.64	3.29	Yes
• Mud Cost / bbl, US$	46.31	36.13	No
• Mud Cost / m, US$	168.54	119.02	No
• Interval Mud Cost, US$ **	125,222.76	82,481.56	No

3.3 Explanation of Non-Conformance

Interval 1: 36" and 17.5"
The volume of mud built was greater then programmed. However, this was due to greater water additions and not chemical additions. Enabling a $11,919.17 reduction, from the programmed cost.
Drilling the 17.5" section, the mud viscosity increased, while drilling the Lakes Entrance formation and sea water was used to control the increasing viscosity. The quantity of Bentonite used was 39 MT, compared to 45 MT in the program.
KCL / Polymer mud salvaged from the previous well was used as a displacement fluid, this fluid was 1.15 SG and allowed a reduction in the amount of Barite consumed from the programmed 24 MT programmed, to 4 MT actually used.

While drilling the 17 ½" section to 1123m, the cost was less than programmed. This was due to the fact that by running the non-inhibitive PHB mud system, we tended to "make" mud from the clay in the formation. This meant that less Gel had to be added to maintain viscosity and the majority of the dilution was carried out with seawater to maintain the mud weight and viscosity, both of which increased continually due to the lack of inhibition provided by the mud.

Interval 2: 12.5"
- This interval was characterized by a tendency to build mud viscosity from the native clays. This tendency did result in a cost savings due to less BARAZAN D+, the primary viscosifier being required. During the logging run logs bridged off at 1775 meters, coal and sand stringers along with swelling clays at this depth contributed. Indicating that an increased concentration of KCl during the final 100 meters may be in order. Spotting a high viscosity KCl laden pill over the bottom 200 meters may also be an alternative.

- **4. INTERVAL - 1**

4.1 SUMMARY

36" Hole From 77m To 125 m In 1 Day

Drilling Fluid Seawater and Viscous Sweeps, Pad mud
Formations Gippsland.

The 36" interval was drilled riser-less, using seawater and unweighted hi-vis spud mud sweeps from 77.5 m to 125 m. The spud mud used for sweeps was built from pre-hydrated bentonite at 40 ppb, cut back with seawater once hydrated and flocculated by the addition of lime prior to pumping. Initially the 36" hole sweeps were pumped from the undiluted 40ppb PHB, to ensure the correct viscosity, due to the less than adequate hydration time. The viscosity of the sweeps was further augmented by the addition of Barazan-D Plus. 75 bbl sweeps were pumped prior to connections to clean the hole.

After drilling to 125m, a 200bbl, 40ppb PHB sweep was pumped to ensure hole cleaning and the open hole was displaced with 200bbls, of 1.15sg inhibited KCL mud from the previous well. A wiper trip was made to 83m to ensure slick hole prior to running the 30" conductor. No fill was observed when running back to bottom for the wiper trip.

The 30" conductor was run to bottom without incident and cemented as per program.

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, sg	ALAP	ALAP	1.02	1.02	Yes
6 rpm, lb/100 ft²	>40		41	41	Yes
YP, lbs/100ft^2	>50		56	56	Yes
Viscosity, sec/qt	>100		110	110	Yes
pH	9	10	9	9	Yes
Plastic Viscosity, cp	ALAP		13	13	Yes

Maintenance

- 25 tons of Bentonite was used for the preparation of high viscosity sweeps for drilling the 30" conductor section. This was due to the amount of time for pre-hydrating the gel being inadequate for proper hydration. Extra Bentonite was used to increase the viscosity to within specifications.
- The Bentonite that was cut back to 20ppb with seawater was also diluted too much, due to a seawater valve being left open, into one of the pits. Barazan-D Plus was then used to further augment the viscosity before it was suitable for use.
- The remaining bentonite used was first prehydrated in drill water at a concentration of 35-40 ppb. This was then cut back to 20-30 ppb using seawater. Lime was added prior to use to enhance viscosity. Caustic soda was used to obtain required alkalinity.
- Guar Gum was not available on location to be used as an alternative to the pre-hydrated Bentonite. This is also a cheaper product than BARAZAN D+, that can be used to increase chloride contaminated PHB.
- Pit #7 was used for seawater for drilling. The hi-vis sweeps were contained in pits 4, 5, 6 and 8. All 1.15 sg weighted displacement mud, kept from the previous well was kept in pits 1 and 2.
- A total of 1900 bbls of spud mud was prepared for top hole at 30-40 ppb.

INTERVAL - 2

4.2 SUMMARY

17.5" Hole From 125 m To 1123 m In 3 Days

Drilling Fluid Flocculated Seawater/Bentonite
Formations Gippsland Limestone/Lakes Entrance

The 17.5" section was drilled using flocculated seawater/pre-hydrated bentonite fluid. The shakers were dressed with 89mesh main screens and 20 mesh scalping screens. Pre-hydrated Bentonite at 30-40ppb was prepared and pre-hydrated. The PHB was then transferred to pit #5 and cut back with seawater to approximately 15-20ppb, depending on viscosity requirements. The active system was treated by additions of Caustic Soda to maintain the pH to within specified parameters when diluting with seawater.

The mud weight and viscosity increased continually and required constant dumping and dilution to attempt to maintain within programmed specifications. The shaker screens were upgraded to a minimum of 145mesh to aid in solids control. Solids and hence mud weight also increased due to shaker screens becoming damaged while drilling, with the mud weight increasing above that programmed, which required a more aggressive dump and dilution regime to bring the weight back to programmed specifications.

Due to the non-inhibitive properties of the PHB/seawater mud, while drilling we were "making" mud from the clay in the formation drilled. This allowed for dilution with clean seawater to maintain the viscosity with specifications and dilution of solids to control the mud weight. Dumping and dilution was required continuously, through to the section TD of 1123m, to maintain the mud properties.

Approximately 450bbl of 1.15sg KCl polymer inhibited mud, retained from the previous well was spotted on bottom prior to pulling out of the hole to run casing.

.

Properties	**Programmed**		**Actual**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, sg		<1.14	1.08	1.2	No
Viscosity, sec/qt	30	50	35	48	Yes
pH	8	9.5	8	8.5	Yes

Explanation of Non-Conformance

- Controlling the mud weight was a continual problem throughout this section. This was mainly due to the non-inhibitive properties of the drilling fluid and also due to damaged shaker screens allowing solids ingress. Continuous dumping and dilution was required to control both the mud weight and viscosity. The finest possible shaker screens were run to try and improve the solids control performance with little benefit.

Maintenance

- The fluid for this interval consisted of prehydrated gel built at 35 ppb and blended with seawater once hydrated at approximately 50:50, depending on the funnel viscosity at the time of mixing dilution volume. Due to continual increase in viscosity from the formation drilled seawater was also used for dilution and Caustic Soda was added to maintain the pH to within the specified range.

INTERVAL - 3

4.3 SUMMARY

12.25 " Hole From 1117m To 1810m In 2 Days

Drilling Fluid KCL/Polymer/CLAYSEAL +
Formations Lakes Entrance/Latrobe Formations

Properties	**Programmed**		**Actual (Typical Drilling)**		
	Min	**Max**	**Min**	**Max**	**Conformance**
Mud Weight, sg		1.2	1.12	1.16	Yes
PV, cp	ALAP		5	11	Yes
YP, lbs/100 ft^2	20	30	15	26	Yes
6 rpm, lbs/100 ft^2	12	16	9	12	Yes
pH	8.8	9.5	8.5	9.5	Partial
KCL, wt%	6	8	7.5	8	Yes
API WL, mL/30 min		6	5.8	5.8	Yes
LGS, % vol		10		2.9	Yes

Explanation of Non-Conformance

- The initial 6 rpm was deliberately less than programmed. Due to the low concentration of polymers added, to the initial mud built to ensure a smooth displacement. Additional PHPA and BARAZAN D+ were added to bring the mud into specification, once it was sheared.

Maintenance

- The initial 6rpm readings were below the programmed 12 -16. The new was built between 0.8 and 1ppb, to enable circulation over the shakers while un-sheared. The 6rpm was raised by gradual additions, of in total. 0.5ppb BARAZAN D+ and 0.75 ppb EZ-Mud, to 12 lbs/100 ft^2. The shaker screens run at displacement were 89 and 145 mesh.
- KCL depletion was only 0.5% from the initial 8% mixed.
- Calculated hole wash out was 2.7% and no large cuttings, coal or shale were observed at the shakers/ gumbo box. The largest coal fragment observed was 1'-2", indicating the use of Barablok and the mud weight was successful in controlling / balancing coal stringers encountered.
- The inhibition provided by 8% KCL and 2% CLAYSEAL + was sufficient to prevent any obvious signs of caving, with very few splintered cuttings observed over 1" long. The PHPA successfully encapsulated the cuttings observed at the shakers. With no clay cuttings sticking to each other or the shaker screens and with minimal water penetration, when the cuttings were broken open. There were a few larger coal cuttings retrieved from the shakers, while circulating, during the cement / suspension program. Ranging in size from 1" to 6" long.

Solids Control Equipment

- The 4 VSM 300 shakers were dressed with 89 and 145 mesh screens, for the initial displacement of un-sheared KCL /Polymer mud. Circulating rates were +/- 1000 gpm and the screens were fined up to 255's when possible.
- The scalper screens initially installed on the shakers were 20 mesh. During the drilling of the interval, with the addition of premix for volume and PHPA / Barazan D additions to the active, the mud was covering 80-90% of the four shakers scalper screens. Two shakers were redressed with 10 mesh scalper screens.
- The centrifuges were test run, but not required, as the mud weight held at 9.6 – 9.8ppg.

4.4 Plug and Abandon

Plug and Abandon.
The well was plugged back with cement plugs and capped. No 9 5/8" casing was set.

5.0 EVALUATION

Comments

Problems, Causes, Remedial Action Taken or Recommended

Solids Control and Mud Mixing Equipment

1) Problem Shaker and scalper screens blocking up or found with holes.
   Cause Not being regularly washed down or changed out.
   Action Regular supervision at shakers required.

Solids Control and Mud Mixing Equipment

2) Problem Desilter blocked up with cuttings
   Cause Design of all sand traps allows cuttings build up in suction lines. Suction and dump lines are the same.
   Action Prior to running any pumps/ centrifuge /degasser, the selected suction line must be cleared by dumping at least 5 bbls.

5.1 RECOMMENDATIONS FOR IMPROVEMENT

Hole Conditions

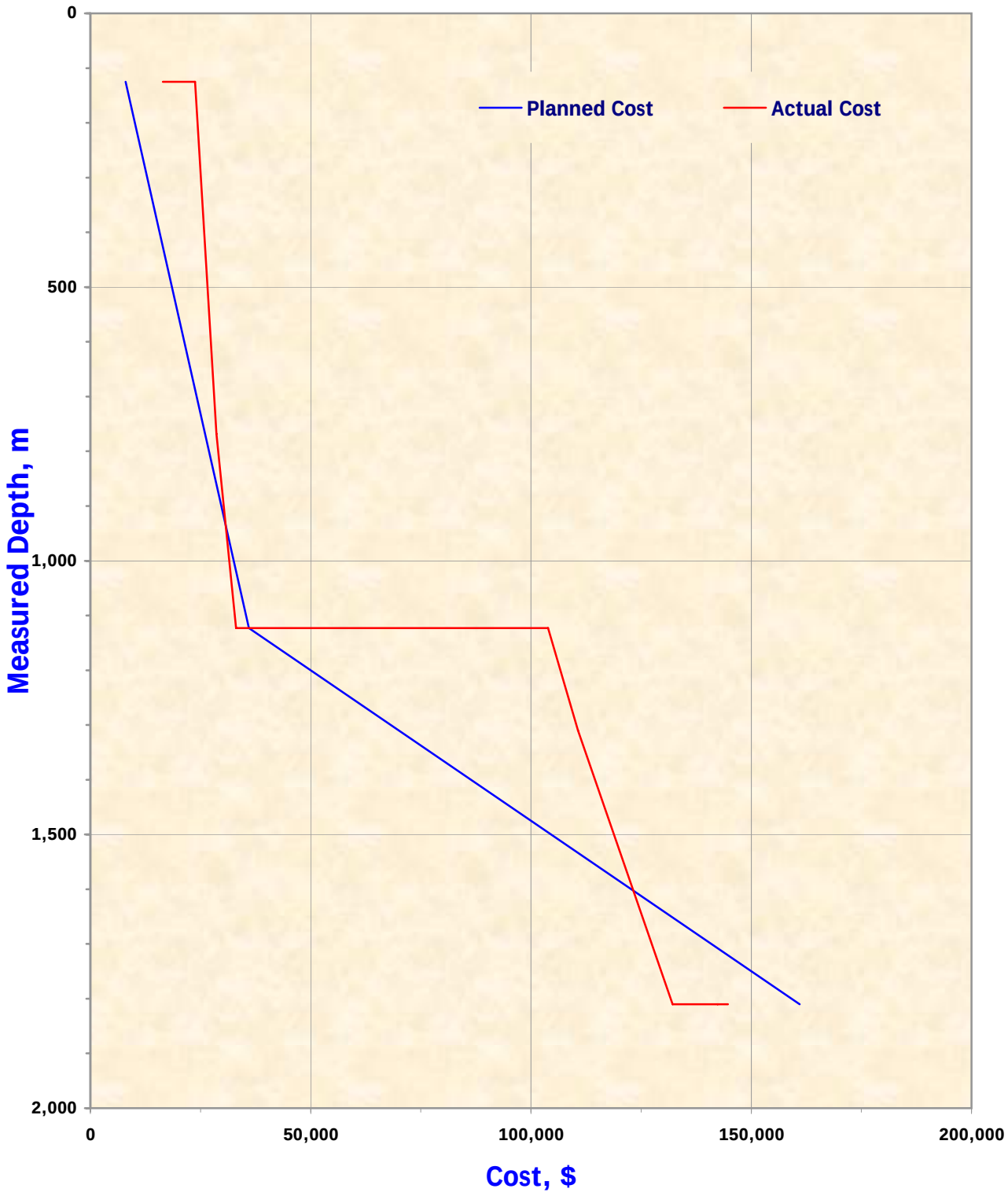
Drilling Fluid

- The initial mud made, did not include the 10ppb calcium carbonate, which was required to be added prior to drilling the Latrobe. There was a slight increase in mud weight once the calcium carbonate was added. This could be added straight away when the mud is initially built at 5ppb and slowly increased to 10ppb prior to drilling the Latrobe formation.
- At final TD, spotting a high viscosity KCl laden pill over the bottom 200 meters may help logs get to bottom by inhibiting any swelling clays and by helping to suspend coal cavings. Logs in this instance bridged at 1775 meters. The formation at this depth was variously described as coal and sand stringers with swelling clays interspaced.

Solids Control and Mud Mixing Equipment

- Rig crew unfamiliarity seemed to be the cause of some equipment issues. Being a new rig with new crews, this will be overcome in time, as rig crews become more familiar with the equipment and rig procedures. This was evident in shaker hands not recognizing damaged shaker screens.
- Some design faults exist that will require changing. i.e. desilter discharge line, deck hopper.

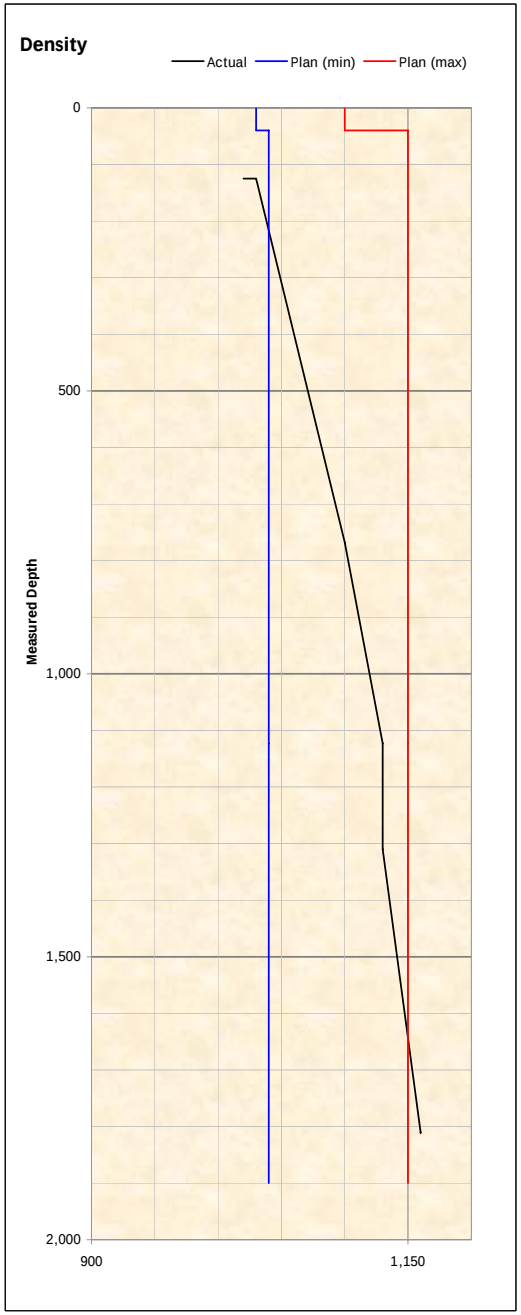
GRAPHS

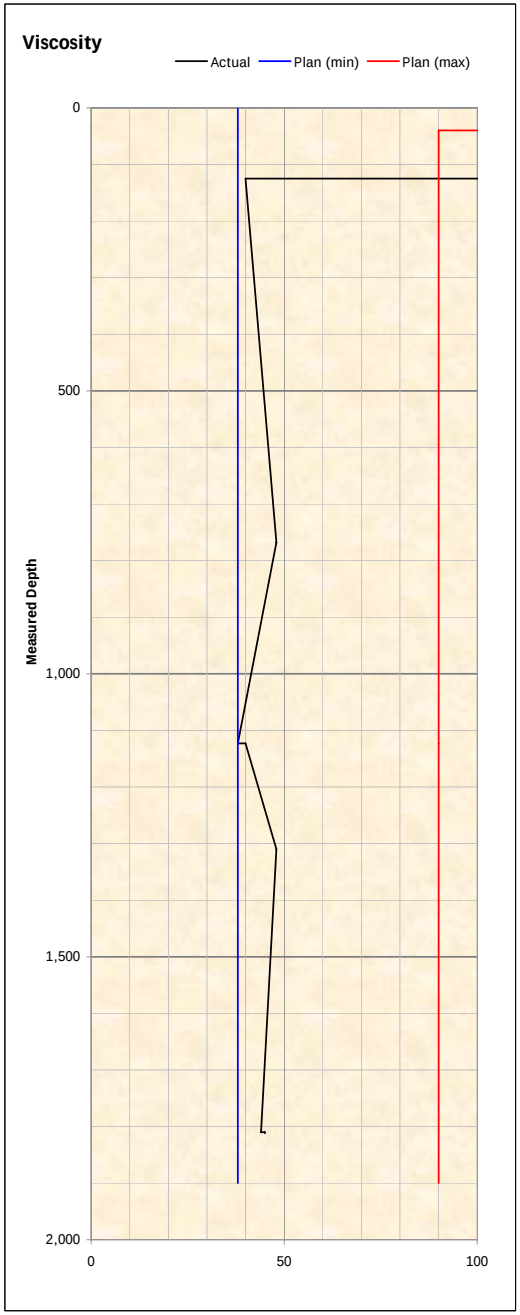

Cost vs Depth
Planned Cost
Actual Cost
Measured Depth, m
0
500
1,000
1,500
2,000
0
50,000
100,000
150,000
200,000
Cost, $

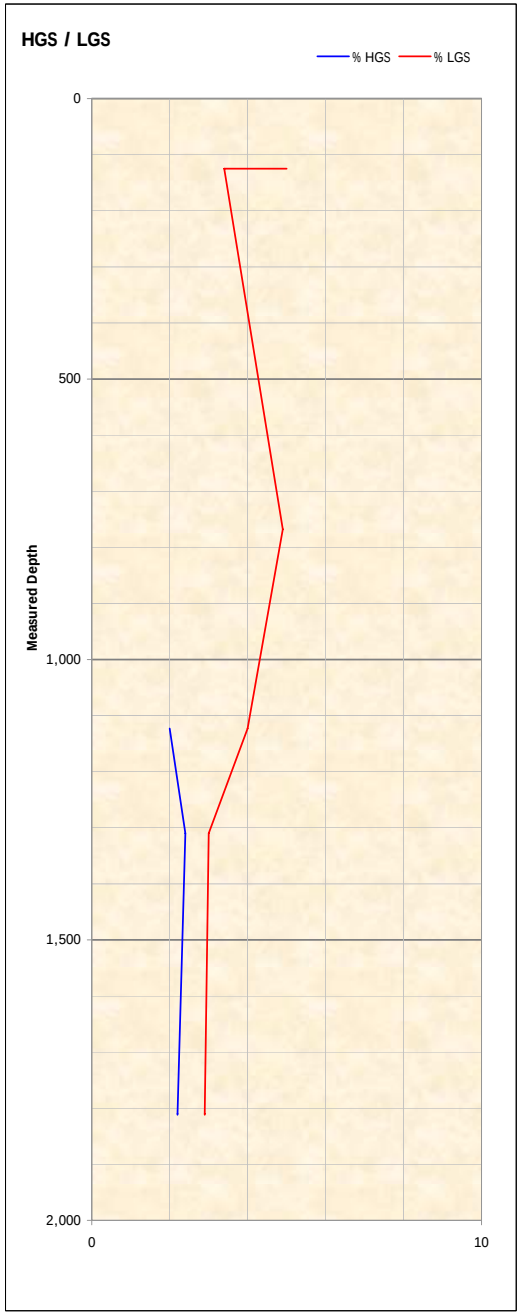
3D Oil

West Seahorse 3

38o 12’ 25.08”S Lat X 147o 37’ 09.18”E Long







HALLIBURTON
Fluid Systems

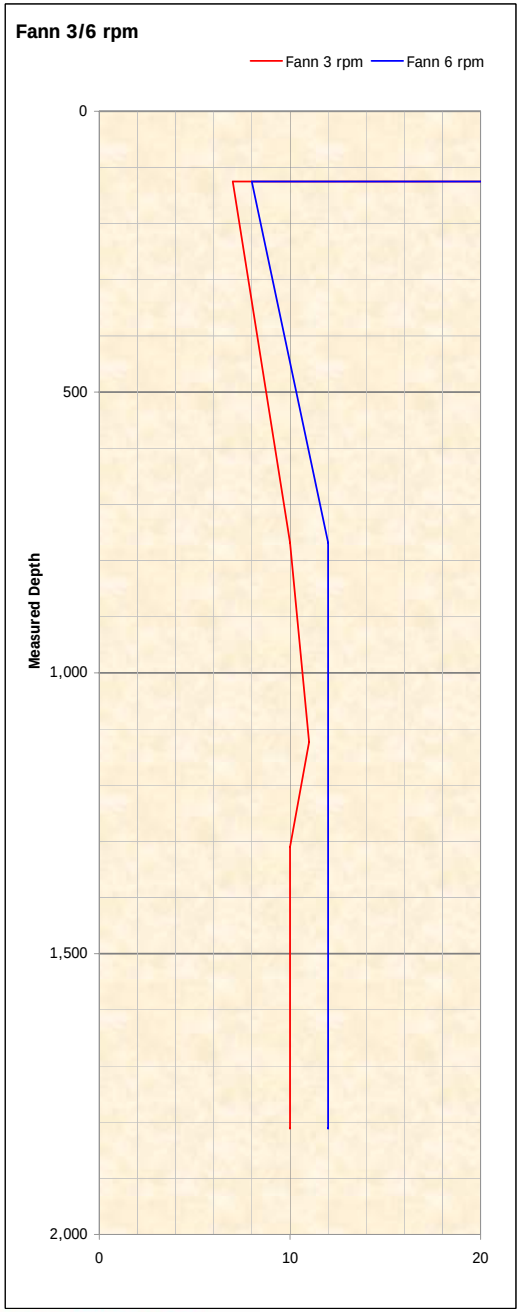
Physical Properties

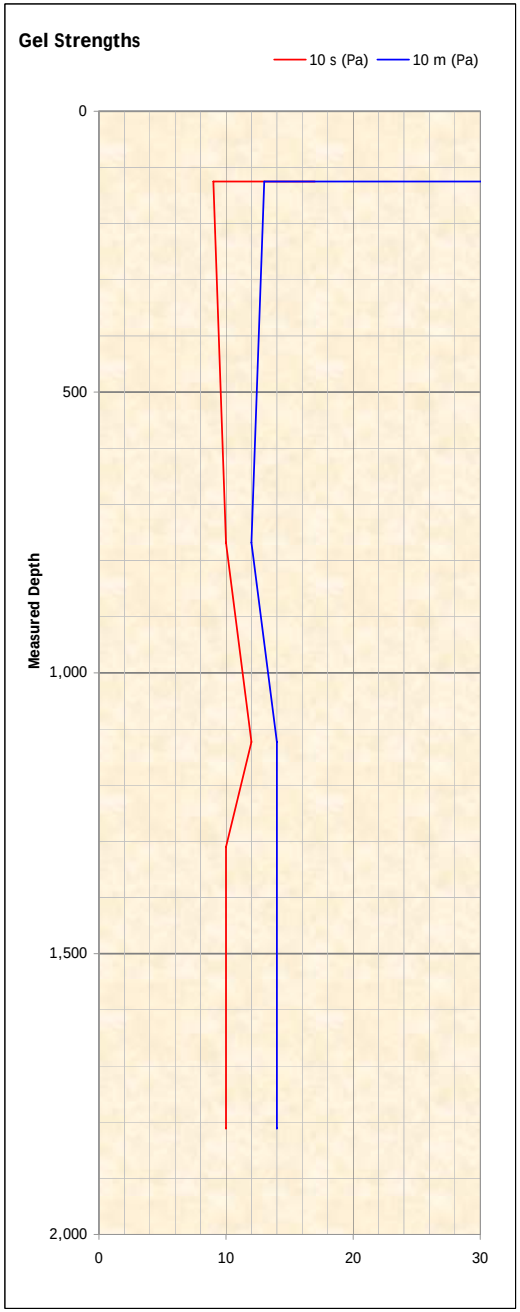
Baroid Fluid Services

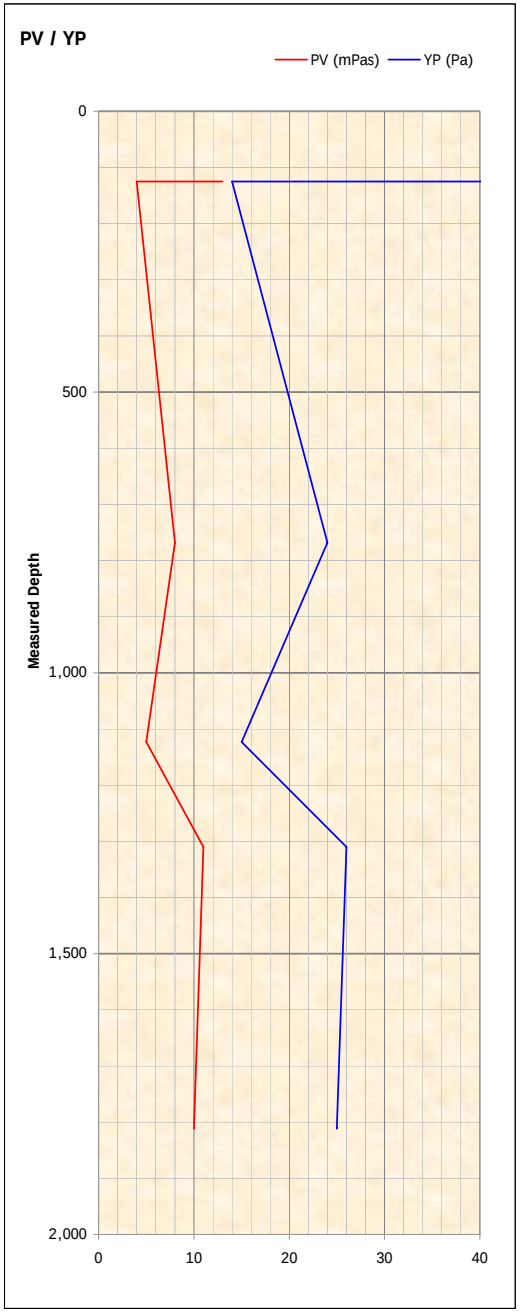
3D Oil

West Seahorse 3

38o 12’ 25.08”S Lat X 147o 37’ 09.18”E Long







HALLIBURTON
Fluid Systems

Physical Properties

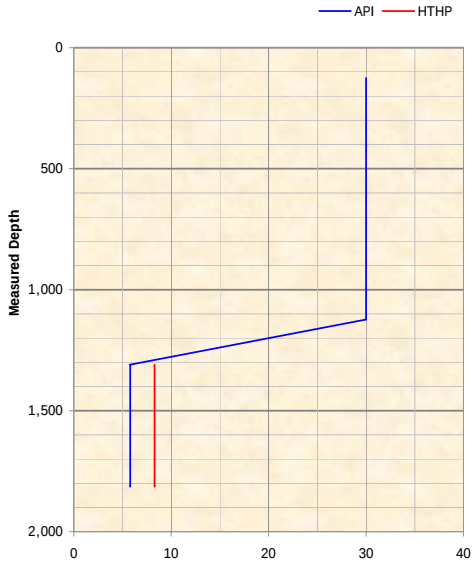
Baroid Fluid Services

3D Oil

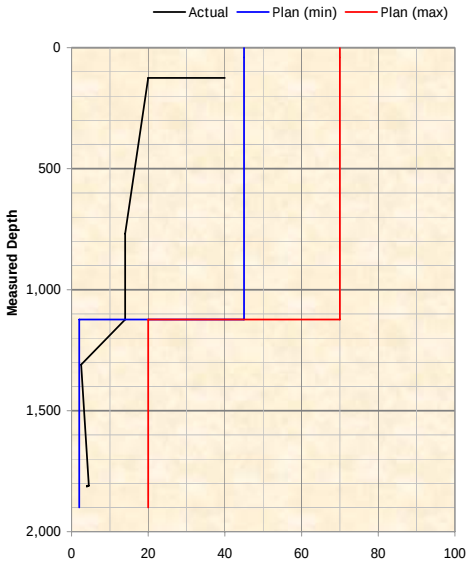
West Seahorse 3

38o 12’ 25.08”S Lat X 147o 37’ 09.18”E Long

Filtrate Loss



MBT



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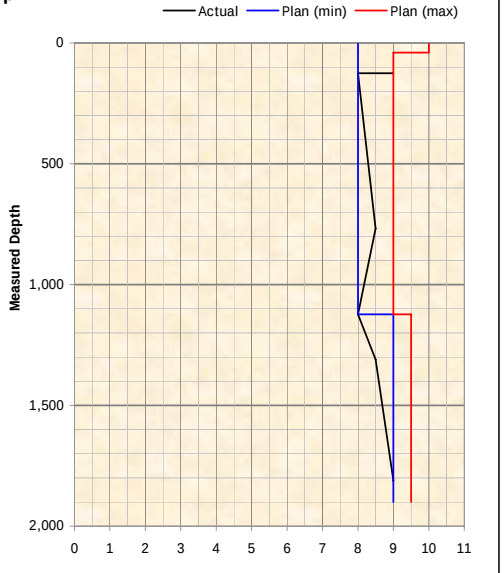
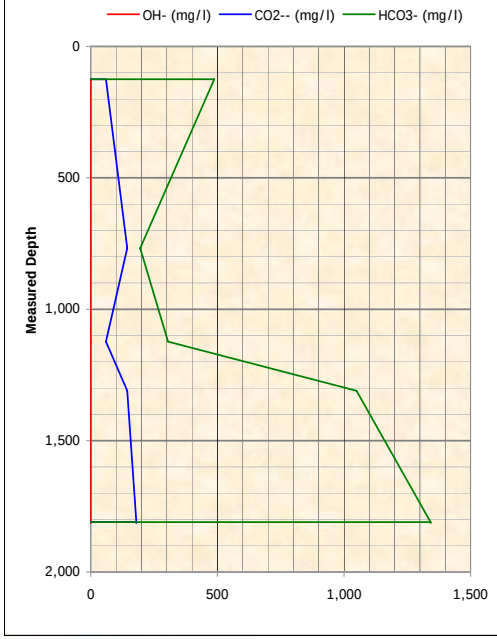
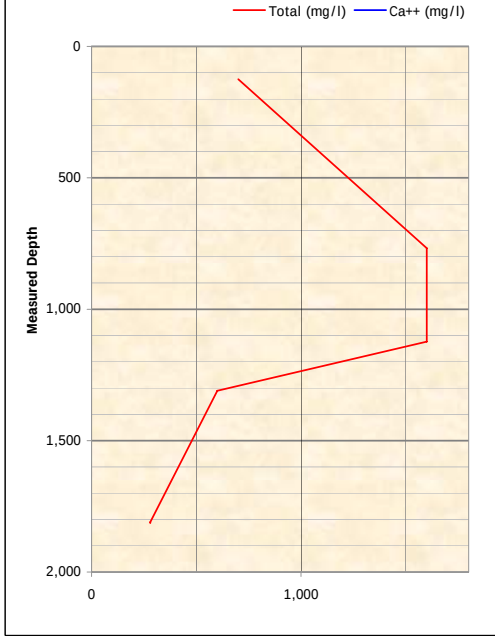


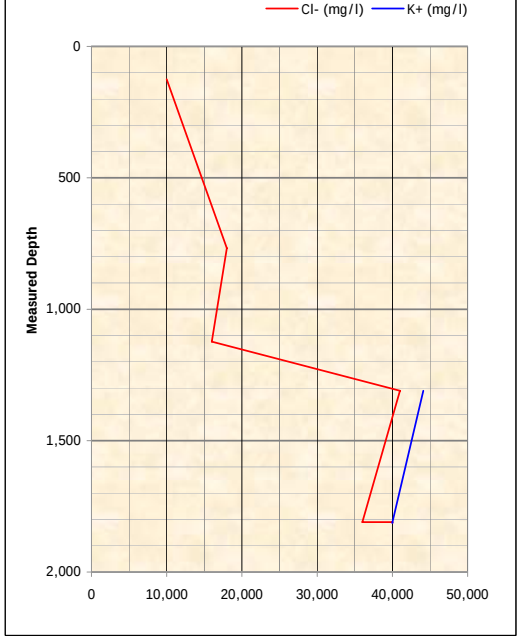
Alkalinity



Hardness



Chlorides/Potassium



HALLIBURTON
Fluid Systems

WBM Properties

Baroid Fluid Services

POSTWELL AUDIT

Baroid Fluid Services

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Well Summary Report

Well Data

Spud Date		04/24/2008	Fluids/Products: Drilling Cost	$	108,577.57
TD Date		05/04/2008	Fluids/Products: Completion Cost	$	0.00
Project			Solids Control/Waste Management Cost	$	0.00
Days on Well		15	Fluids/Products: Cementing Cost	$	511.34
From Date		04/24/2008	Prod Lost/Damaged Cost	$	13.10
To Date		05/08/2008	Engineer Services Cost	$	0.00
Drilling Days		5	Equipment Cost	$	0.00
Rotating / Drilling Hours		72.0/72.0	Transport/Packaging	$	0.00
Average ROP	m/hr	14.5	Other Cost	$	0.00
Maximum Density	SG	1.16	Total Well Cost	$	109,102.01
Total Measured Depth	m	1,810	Planned Cost	$	0.00
True Vertical Depth	m	1,810	Fluid Cost Per Fluid Volume	$/bbl	12.25
Distance Drilled	m	1,042	Fluid Cost Per Length Drilled	$/m	104.20
Maximum Deviation	deg	42.00	Fluid Cost/Vol of Hole Drilled	$/bbl	147.32
Max. Horz. Displacement	m	595	Total Additions/Hole Drilled	bbl/bbl	12.031
Bottom Hole Temp			Total Additions/Length Drilled	bbl/m	8.510

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	04/24/2008 23:59	0	0	122	122	30.000	29.000	36.000	122	122
13.375 N-80 68.0	05/01/2008 23:59	22	22	1,117	1,034	13.375	12.415	17.500	1,123	1,040

Fluid Program

Int #	Fluid Type	Interval Days	BHT Deg C	Max. Dens SG	Whole fluid + Mix products	Other material charges	Other charges	Total Interval Cost $		
								Plan	Actual	Variance
1	Prehydrated Bentonite	2		1.03	18,534.39	456.06			18,990.45	
2	Old KCl/Polymer Prehydrated Bentonite	3		1.15	4,568.38				4,568.38	
3	Old KCl/Polymer Prehydrated Bentonite KCl/Polymer/Clayseal	10		1.16	85,474.79	68.38			85,543.17	
Total Well Cost $					**108,577.57**	**524.44**			**109,102.01**	**109,102.01**

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	Apache

Total Cost Breakdown

Fluids/Products: Cementing Cost				
calcium chloride flake 77%	25 kg bag	37.00		511.34
		SubTotal	**$**	**511.34**
Fluid/Product: Lost Damage				
lime	20 kg bag	2.00		13.10
		SubTotal	**$**	**13.10**
Fluids/Products: Drilling Cost				
BARABLOK	50 lb bag	180.00		5,470.20
Baracide	25 kg can	7.00		611.59
BARACOR 100	25 kg sack	4.00		110.00
BARA-DEFOAM W300	5 gal can	1.00		616.88
BARAZAN D PLUS	25 kg bag	79.00		12,026.96
barite	1000 kg bulk	33.640		15,974.96
bentonite	1000 kg bulk	39.460		19,527.96
caustic soda	25 kg pail	38.00		1,679.22
Circal 60/16	25 kg sack	110.00		1,114.30
Circal Y	25 kg sack	54.00		691.20
CLAYSEAL PLUS	216 kg drum	26.00		24,872.64
DEXTRID LTE	25 kg sack	76.00		3,082.56
EZ-MUD	25 kg pail	56.00		4,806.48
lime	20 kg bag	5.00		32.75
Omyacarb 5	25 kg bulk	6.000		56.34
PAC-L	25 kg bag	43.00		3,520.41
potassium chloride	1000 kg bag	31.00		13,685.26
soda ash	25 kg bag	33.00		437.25
sodium bicarbonate	25 kg bag	12.00		150.60
sodium sulfite	25 kg bag	4.00		110.00
		SubTotal	**$**	**108,577.57**
		Total Well Cost:	**$**	**109,102.01**

Well	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Net Well Cost Breakdown

Cost Breakdown I $	Interval 01	Interval 02	Interval 03	Total
Fluid/Product: Drilling	18,534.39	4,568.38	85,474.79	108,577.57
Fluid/Product: Comp/Filtration				
Solids Control/Waste Management Cost				
Fluids/Products: Cementing Cost	456.06		55.28	511.34
Engineering Services				
Fluid/Product: Lost Damage			13.10	13.10
Other Cost				
Equipment Cost				
Transport/Packaging Cost				
Total Cost	18,990.45	4,568.38	85,543.17	109,102.01

Cost Breakdown II $	Interval 01	Interval 02	Interval 03	Total
Total Products Cost	18,990.45	4,568.38	85,543.17	109,102.01
Total Fluids Cost				
Total Charges Cost				
Allocated To / From Other Interval				
Total Cost	18,990.45	4,568.38	85,543.17	109,102.01
Planned Cost				
Variance				

Volume Breakdown bbl	Interval 01	Interval 02	Interval 03	Total
Total Base Fluids Addition				
Total Chemical Addition	89.5	12.1	201.1	302.7
Total Barite Addition		6.0	44.4	50.4
Total Water Addition	3,033.0	1,872.0	2,042.7	6,947.7
Total Fluid Built	3,122.5	1,890.1	2,288.2	7,300.8
Total Fluid Received	919.0		647.3	1,566.3
Total Influx Addition				
Not Used In Interval	-919.0	-293.0		
Total Fluid Volume	3,122.5	4,930.2	6,451.2	8,867.1

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Summary

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

Interval Start Date		04/24/2008	Planned Cost	$	0.00
Interval End Date		04/25/2008	Total Interval Cost	$	18,990.45
Interval TD Date		04/24/2008	Program Variance	$	18,990.45
Drilling Days		1.00	Other material charges	$	456.06
Rotating/Hours		3.00 / 3.00	Total Fluids Cost	$	18,534.39
Interval Top MD/TVD	m	125.0 / 125.0	Total Charges Cost	$	0.00
Interval End MD/TVD	m	125.0 / 125.0	Total Cementing Cost	$	456.06
Footage	m	0.0	Fluid Cost Per Vol Unit	$/bbl	5.94
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	30.000	Fluid Built	bbl	3,122.5
Casing Shoe MD	m	122.0	Total Additions/Vol Drilled	bbl/bbl	0.00
Casing Length	m	122.0	Total Additions/Hole Drilled	bbl/m	0.00
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	0.00
Max Fluid Density	SG	1.030	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
Viscosifier/Suspension Agent				
BARAZAN D PLUS	AQUAGEL Mud	25 kg bag	6.000	913.44
bentonite	AQUAGEL Mud	1000 kg bulk	34.960	17,301.00
			Total	**$ 18,214.44**
Alkalinity Control				
caustic soda	AQUAGEL Mud	25 kg pail	5.000	220.95
lime	AQUAGEL Mud	20 kg bag	5.000	32.75
soda ash	AQUAGEL Mud	25 kg bag	5.000	66.25
			Total	**$ 319.95**
Weighting Material				
calcium chloride flake 77%	No Fluid	25 kg bag	33.000	456.06
			Total	**$ 456.06**

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Summary

Interval # 2	**Max Bit Size: 17.500 in**	**Hole Size Avg/Max**	**19.000 / 19.000 in**

Interval Start Date		04/26/2008	Planned Cost	$	0.00
Interval End Date		04/28/2008	Total Interval Cost	$	4,568.38
Interval TD Date		04/27/2008	Program Variance	$	4,568.38
Drilling Days		2.00	Other material charges		
Rotating/Hours		41.50 / 41.50	Total Fluids Cost	$	4,568.38
Interval Top MD/TVD	m	768.0 / 768.0	Total Charges Cost	$	0.00
Interval End MD/TVD	m	1,123.0 / 982.5	Total Cementing Cost	$	0.00
Footage	m	355.0	Fluid Cost Per Vol Unit	$/bbl	0.93
Average ROP	m/hr	8.6	Fluid Cost/Hole Drilled	$/m	12.87
Max Hole Angle	degrees	42.00	Fluid Cost/Vol Drilled	$/bbl	11.18
Casing Size	in	30.000	Fluid Built	bbl	1,890.1
Casing Shoe MD	m	122.0	Total Additions/Vol Drilled	bbl/bbl	12.07
Casing Length	m	122.0	Total Additions/Hole Drilled	bbl/m	13.89
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	4.18
Max Fluid Density	SG	1.150	Fluid Loss/Hole Drilled	bbl/m	4.81

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Weighting Material				
barite	AQUAGEL Mud	1000 kg bulk	4.000	1,899.52
			Total	**$ 1,899.52**
Viscosifier/Suspension Agent				
bentonite	AQUAGEL Mud	1000 kg bulk	4.500	2,226.96
			Total	**$ 2,226.96**
Alkalinity Control				
caustic soda	AQUAGEL Mud	25 kg pail	10.000	441.90
			Total	**$ 441.90**

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Interval Summary

Interval # 3	Max Bit Size: 17.500 in	Hole Size Avg/Max	12.250 / 19.000 in

Interval Start Date		04/29/2008	Planned Cost	$	0.00
Interval End Date		05/08/2008	Total Interval Cost	$	85,543.17
Interval TD Date		05/04/2008	Program Variance	$	85,543.17
Drilling Days		2.00	Other material charges	$	68.38
Rotating/Hours		27.50 / 27.50	Total Fluids Cost	$	85,474.79
Interval Top MD/TVD	m	1,123.0 / 982.5	Total Charges Cost	$	0.00
Interval End MD/TVD	m	1,810.0 / 1,810.0	Total Cementing Cost	$	55.28
Footage	m	687.0	Fluid Cost Per Vol Unit	$/bbl	13.25
Average ROP	m/hr	25.0	Fluid Cost/Hole Drilled	$/m	124.42
Max Hole Angle	degrees	15.00	Fluid Cost/Vol Drilled	$/bbl	260.14
Casing Size	in	13.375	Fluid Built	bbl	2,288.2
Casing Shoe MD	m	1,117.0	Total Additions/Vol Drilled	bbl/bbl	19.63
Casing Length	m	1,117.0	Total Additions/Hole Drilled	bbl/m	9.39
Bottom Hole Temp			Fluid Loss/Vol Drilled	bbl/bbl	4.73
Max Fluid Density	SG	1.160	Fluid Loss/Hole Drilled	bbl/m	2.26

Interval Product and Base Fluids Usage and Cost

Product Function / Name	Drilling Fluid	Packaging	Quantity Used	Product Cost
Defoamer				
BARA-DEFOAM W300	KCl/Polymer	5 gal can	1.000	616.88
			Total	**$ 616.88**
Filtration Control				
BARABLOK	KCl/Polymer	50 lb bag	180.000	5,470.20
DEXTRID LTE	KCl/Polymer	25 kg sack	76.000	3,082.56
PAC-L	KCl/Polymer	25 kg bag	43.000	3,520.41
			Total	**$ 12,073.17**
Corrosion Inhibitor				
BARACOR 100	KCl/Polymer	25 kg sack	4.000	110.00
sodium sulfite	KCl/Polymer	25 kg bag	4.000	110.00
			Total	**$ 220.00**
Weighting Material				
barite	KCl/Polymer	1000 kg bulk	29.640	14,075.44
calcium chloride flake 77%	No Fluid	25 kg bag	4.000	55.28
			Total	**$ 14,130.72**
Bactericides				
Baracide	KCl/Polymer	25 kg can	7.000	611.59
			Total	**$ 611.59**
Viscosifier/Suspension Agent				
BARAZAN D PLUS	KCl/Polymer	25 kg bag	73.000	11,113.52
			Total	**$ 11,113.52**
Alkalinity Control				
caustic soda	KCl/Polymer	25 kg pail	23.000	1,016.37
lime	No Fluid	20 kg bag	2.000	13.10
soda ash	KCl/Polymer	25 kg bag	28.000	371.00
sodium bicarbonate	KCl/Polymer	25 kg bag	12.000	150.60
			Total	**$ 1,551.07**

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Summary

Shale Control					
EZ-MUD	KCl/Polymer	25 kg pail	56.000		4,806.48
potassium chloride	KCl/Polymer	1000 kg bag	31.000		13,685.26
CLAYSEAL PLUS	KCl/Polymer	216 kg drum	26.000		24,872.64
			Total	**$**	**43,364.38**
Lost Circulation/Bridging Agent					
Circal Y	KCl/Polymer	25 kg sack	54.000		691.20
Circal 60/16	KCl/Polymer	25 kg sack	110.000		1,114.30
Omyacarb 5	KCl/Polymer	25 kg bulk	6.000		56.34
			Total	**$**	**1,861.84**

Baroid Fluid Services

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Cost Breakdown

Interval #	**01**	**From Date**	**04/24/2008**	**Top of Interval**	**125.0 m**
Max. Hole Size / Bit Size	**36.000 / 36.000 in**	**To Date**	**04/25/2008**	**Bottom of Interval**	**125.0 m**

Fluids/Products: Cementing Cost				
calcium chloride flake 77%	25 kg bag	33.00		456.06
		SubTotal	**$**	**456.06**
Fluids/Products: Drilling Cost				
BARAZAN D PLUS	25 kg bag	6.00		913.44
bentonite	1000 kg bulk	34.960		17301.00
caustic soda	25 kg pail	5.00		220.95
lime	20 kg bag	5.00		32.75
soda ash	25 kg bag	5.00		66.25
		SubTotal	**$**	**18,534.39**
		Interval Total Cost	**$**	**18,990.45**
	Charged To/From Other Interval		**$**	
	Net Description Total Cost		**$**	**18,990.45**
	Programmed Cost		**$**	**0.00**
	Program Variance		**$**	**18,990.45**

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Interval Cost Breakdown

Interval # 02		From Date	04/26/2008	Top of Interval	768.0 m
Max. Hole Size / Bit Size	19.000 / 17.500 in	To Date	04/28/2008	Bottom of Interval	1,123.0 m

Fluids/Products: Drilling Cost				
barite	1000 kg bulk	4.000		1899.52
bentonite	1000 kg bulk	4.500		2226.96
caustic soda	25 kg pail	10.00		441.90
		SubTotal	**$**	**4,568.38**
		Interval Total Cost	**$**	**4,568.38**
	Charged To/From Other Interval		**$**	**0.00**
	Net Description Total Cost		**$**	**4,568.38**
	Programmed Cost		**$**	**0.00**
	Program Variance		**$**	**4,568.38**

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Cost Breakdown

Interval # 03		**From Date**	**04/29/2008**	**Top of Interval**	**1,123.0 m**
Max. Hole Size / Bit Size	**19.000 / 17.500 in**	**To Date**	**05/08/2008**	**Bottom of Interval**	**1,810.0 m**

Fluids/Products: Cementing Cost				
calcium chloride flake 77%	25 kg bag	4.00		55.28
		SubTotal	**$**	**55.28**
Fluid/Product: Lost Damage				
lime	20 kg bag	2.00		13.10
		SubTotal	**$**	**13.10**
Fluids/Products: Drilling Cost				
BARABLOK	50 lb bag	180.00		5470.20
Baracide	25 kg can	7.00		611.59
BARACOR 100	25 kg sack	4.00		110.00
BARA-DEFOAM W300	5 gal can	1.00		616.88
BARAZAN D PLUS	25 kg bag	73.00		11113.52
barite	1000 kg bulk	29.640		14075.44
caustic soda	25 kg pail	23.00		1016.37
Circal 60/16	25 kg sack	110.00		1114.30
Circal Y	25 kg sack	54.00		691.20
CLAYSEAL PLUS	216 kg drum	26.00		24872.64
DEXTRID LTE	25 kg sack	76.00		3082.56
EZ-MUD	25 kg pail	56.00		4806.48
Omyacarb 5	25 kg bulk	6.000		56.34
PAC-L	25 kg bag	43.00		3520.41
potassium chloride	1000 kg bag	31.00		13685.26
soda ash	25 kg bag	28.00		371.00
sodium bicarbonate	25 kg bag	12.00		150.60
sodium sulfite	25 kg bag	4.00		110.00
		SubTotal	**$**	**85,474.79**
		Interval Total Cost	**$**	**85,543.17**

Charged To/From Other Interval	**$**	
Net Description Total Cost	**$**	**85,543.17**
Programmed Cost	**$**	**0.00**
Program Variance	**$**	**85,543.17**

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Interval Chemical Concentration

Interval # 01		From Report Date	04/24/2008	Top of Interval	125.0 m
Max. Hole Size / Bit Size	36.000 / 36.000 in	To Report Date	04/25/2008	Bottom of Interval	125.0 m

Fluid Name: Prehydrated Bentonite

Material	Average ppb	Minimum ppb	Maximum ppb
BARAZAN D PLUS	0.13	0.09	0.17
bentonite	26.42	23.87	28.96
caustic soda	0.11	0.08	0.14
lime	0.09	0.06	0.12
soda ash	0.11	0.08	0.14

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Interval Chemical Concentration

Interval # 02		From Report Date	04/26/2008	Top of Interval	768.0 m
Max. Hole Size / Bit Size	19.000 / 17.500 in	To Report Date	04/28/2008	Bottom of Interval	1,123.0 m

Fluid Name: Old KCl/Polymer

Material	Average ppb	Minimum ppb	Maximum ppb
BARAZAN D PLUS	0.03	0.03	0.03
barite	1.51	1.51	1.51
bentonite	10.09	10.09	10.09
caustic soda	0.11	0.11	0.11
lime	0.02	0.02	0.02
soda ash	0.03	0.03	0.03

Fluid Name: Prehydrated Bentonite

Material	Average ppb	Minimum ppb	Maximum ppb
BARAZAN D PLUS	0.06	0.05	0.06
barite	2.33	2.20	2.46
bentonite	16.65	14.73	18.79
caustic soda	0.16	0.14	0.18
lime	0.04	0.03	0.04
soda ash	0.05	0.04	0.05

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Chemical Concentration

Interval # 03		**From Report Date**	**04/29/2008**	**Top of Interval**	**1,123.0 m**
Max. Hole Size / Bit Size	**14.000 / 17.25 in**	**To Report Date**	**05/08/2008**	**Bottom of Interval**	**1,810.0 m**

Fluid Name: Old KCl/Polymer

Material	Average ppb	Minimum ppb	Maximum ppb
BARAZAN D PLUS	0.03	0.03	0.03
barite	1.51	1.51	1.51
bentonite	10.09	10.09	10.09
caustic soda	0.11	0.11	0.11
lime	0.02	0.02	0.02
soda ash	0.03	0.03	0.03

Fluid Name: Prehydrated Bentonite

Material	Average ppb	Minimum ppb	Maximum ppb
BARAZAN D PLUS	0.05	0.05	0.05
barite	2.10	2.10	2.10
bentonite	14.04	14.04	14.04
caustic soda	0.16	0.16	0.16
lime	0.03	0.03	0.03
soda ash	0.04	0.04	0.04

Fluid Name: KCl/Polymer/Clayseal

Material	Average ppb	Minimum ppb	Maximum ppb
BARABLOK	3.49	3.12	3.97
Baracide	0.14	0.12	0.17
BARACOR 100	0.10	0.09	0.10
BARA-DEFOAM W300	0.02	0.01	0.02
BARAZAN D PLUS	1.40	0.86	1.60
barite	26.04	16.79	31.01
caustic soda	0.31	0.24	0.56
Circal 60/16	2.05	0.62	2.50
Circal Y	1.10	0.18	1.35
CLAYSEAL PLUS	5.15	4.81	5.43
DEXTRID LTE	1.78	1.61	1.88
EZ-MUD	1.05	0.49	1.36
Omyacarb 5	0.14	0.13	0.18
PAC-L	0.98	0.91	1.04
potassium chloride	28.82	26.34	30.15
soda ash	0.67	0.62	0.70

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval Chemical Concentration

sodium bicarbonate	0.28	0.25	0.30
sodium sulfite	0.11	0.11	0.11

Operator	**3D Oil ltd**
Well Name	**West Seahorse 3**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Fluid Property Recap : Water-Based Fluid

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 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	SG	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**				**04/24/2008**						**Top of Interval**			**125.0**		**m**						
Max. Hole Size / Bit Size	**36.000 / 36.000 in**									**To Date**				**04/25/2008**						**Bottom of Interval**			**125.0**		**m**						
04/24/2008	125		1.020	110	13	56	17	41	52	13.0		1	2		9.00						40.0					95	82.0	69.0	61.0	56.0	42.0	41.0
04/24/2008	125		1.020	110	13	56	17	41	52	13.0		2			9.00						40.0					95	82.0	69.0	61.0	56.0	42.0	41.0
04/25/2008	125		1.020	110	13	56	14	41	52	13.0		2			9.00						40.0					95	82.0	69.0	61.0	56.0	42.0	41.0
04/25/2008	125		1.030	40	4	14	9	13	15	30.0		2			8.00	0.45	0.05	0.50	10,000	700	20.0		3.35	5.41		96	22.0	18.0	15.0	12.0	8.0	7.0
Interval # 02										**From Date**				**04/26/2008**						**Top of Interval**			**768.0**		**m**						
Max. Hole Size / Bit Size	**19.000 / 17.500 in**									**To Date**				**04/28/2008**						**Bottom of Interval**			**1,123.0**		**m**						
04/26/2008	125		1.030	39	4	14	9	13	15	30.0		2			8.00	0.45	0.05	0.50	10,000	700	20.0		3.35	5.41		96	22.0	18.0	15.0	12.0	8.0	7.0
04/26/2008	408		1.110	40	4	14	9	13	15	30.0		2			8.00	0.45	0.05	0.50	10,000	700	20.0		3.35	0.41		96	22.0	18.0	15.0	12.0	8.0	7.0
04/26/2008	593	36	1.140	41	8	24	10	12	15			2			8.00	0.45	0.10	0.50	12,000	1,200	14.0	0.50	4.27	0.501		95	40.0	32.0	27.0	25.0	12.0	10.0
04/26/2008	768	38	1.100	48	8	24	10	12	15			3			8.50	0.40	0.12	0.40	18,000	1,600	14.0	1.00	4.99	4.857		94	40.0	32.0	27.0	25.0	12.0	10.0
04/27/2008	840	39	1.100	47	8	24	10	12	15			3			8.50	0.40	0.12	0.40	18,000	1,600	14.0	1.00	4.99	4.857		94	40.0	32.0	27.0	25.0	12.0	10.0
04/27/2008	1,063	38	1.130	36	7	23	10	12	13			3			8.00	0.20	0.10	0.40	17,000	1,600	14.0	0.80	4.03	1.001		95	37.0	30.0	24.0	21.0	10.0	8.0
04/27/2008	1,123	38	1.130	36	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.50	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
04/28/2008	1,123		1.130	38	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.50	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
04/28/2008	0		1.150	49	12	28									8.50								4.78	0.07		95	52.0	40.0	31.0	24.0	11.0	8.0
04/28/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.40	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
Interval # 03										**From Date**				**04/29/2008**						**Top of Interval**			**1,123.0**		**m**						
Max. Hole Size / Bit Size	**14.000 / 12.25 in**									**To Date**				**05/08/2008**						**Bottom of Interval**			**1,810.0**		**m**						
04/29/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.30	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
04/29/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.40	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
04/30/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.40	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
04/30/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.30	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
05/01/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.30	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
05/01/2008	1,123		1.130	40	5	15	12	14	17			3			8.00	0.10	0.05	0.35	16,000	1,600	14.0	0.30	4.08	1.028		95	25.0	20.0	18.0	15.0	12.0	11.0
05/03/2008	1,126	26	1.120	49	11	17	8	9	9	6.0	8.5	1	2	121	9.00	0.24	0.26	1.00	40,000	400			2.71	0.986		94	39.0	28.0	24.0	18.0	9.0	7.0

Operator	**3D Oil ltd**
Well Name	**West Seahorse 3**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Fluid Property Recap : Water-Based Fluid

Date	Depth	FL Temp	Density	Funn Visc	Rheology 49 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	SG	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						
05/03/2008	1,310	37	1.130	48	11	26	10	14	16	5.8	8.3	1	2	121	8.50	0.10	0.12	1.10	40,000	600	2.5	0.10	2.71	0.361		94	48.0	37.0	32.0	25.0	12.0	10.0
05/03/2008	0	37	1.130	48	11	26	10	14	16	5.8	8.3	1	2	121	8.50	0.10	0.12	1.10	41,000	600	2.5	0.10	2.62	0.27		94	48.0	37.0	32.0	25.0	12.0	10.0
05/04/2008	1,533	39	1.160	46	11	26	10	14	16	5.8	8.3	1	2	121	9.00	0.15	0.14	0.90	39,000	800	2.5	0.50	4.86	2.649		92	48.0	37.0	32.0	25.0	12.0	10.0
05/04/2008	1,694	38	1.150	49	11	26	11	15	17	6.0	8.5	1	2	121	8.80	0.20	0.15	1.50	36,000	260	4.5	1.00	5.11	3.537		92	48.0	37.0	33.0	25.0	13.0	11.0
05/04/2008	1,810	39	1.160	44	10	25	10	14	16	5.8	8.3	1	2	121	9.00	0.20	0.15	1.40	36,000	280	4.5	1.00	5.11	2.912		92	45.0	35.0	30.0	23.0	12.0	10.0
05/05/2008	1,810		1.160	45	10	25	10	14	16	5.8	8.3	1	2	121	9.00	0.20	0.15	1.40	36,000	280	4.0	0.80	5.11	2.912		92	45.0	35.0	30.0	23.0	12.0	10.0
05/05/2008	1,810		1.160	45	10	25	10	14	16	5.8	8.3	1	2	121	9.00	0.20	0.15	1.40	36,000	280	4.0	0.80	5.11	2.912		92	45.0	35.0	32.0	23.0	12.0	10.0
05/06/2008	1,810		1.160	46	10	25	10	14	16	5.8	8.3	1	2	121	9.00	0.20	0.15	1.40	36,000	280	4.0	0.80	5.11	2.912		92	45.0	35.0	32.0	23.0	12.0	10.0
05/06/2008	1,810		1.160	46	10	24	10	14	16	5.8	8.3	1	2	121	9.00	0.20	0.15	1.40	36,000	280	4.0	0.75	5.11	2.912		92	44.0	34.0	32.0	23.0	12.0	10.0
05/07/2008	1,810		1.160	46	10	25	10	14	16	5.8		1		121	11.00	1.20	0.20	1.40	36,000	960	5.0	0.25	5.11	2.912		92	45.0	35.0	32.0	23.0	12.0	10.0
05/08/2008	1,810		1.160	46	10	25	10	14	16	5.8		1		121	11.00	1.20	0.20	1.40	36,000	960	5.0		5.11	2.912		92	45.0	35.0	32.0	23.0	12.0	10.0

Operations Log Recap

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval	**01**		**From Date**	**001**	**Top of Interval**	**125.0**	**m**
Max. Hole Size / Bit Size	**36.000 / 36.000**	**in**	**To Date**	**002**	**Bottom of Interval**	**125.0**	**m**

For Report	**# 001**	**On**	**04/24/2008**	**Operation at Depth**	**125.0 m**
Rig Activity				Rig up. Make up 36" BHA and RIH. Tag sea level at 38m. Cont RIH, tag seabed at 77.5m. Drill ahead from 77.5m to 125m. Pump 200bbl high vis sweep, displace hole with WBM. POOH F/ 125mto 83m wiper trip, no fill. POOH from 125m to surface. Rig up for running 30" conductor. Hold PJSM, P/up shoe and run 30" conductor as per tally to 122m. Install quick-jay joints @46m. Install release cable to pivot cam and run cable whilst running conductor. Install 30" guide plates in CTU, install Icon support clamp on top of CTU. Land out conductor with 90K. Cut 30" conductor 2m above CTU. Lay out 2 joints 30" conductor including cut-off. Rig down 30" handling gear.	
Activity				Run casing and cement	
Fluid Treatment				Mixed up 1900 bbls 30-40 ppb PHB, cut back to 20ppb with sea water and flocculate with 0.3ppb lime prior to dilution. Due to short hydration time, some sweeps pumped from undiluted PHB to ensure adequate viscosity. Augmented rheology by addition of Barazan-D. Pump regular sweeps as programmed to ensure hole cleaning. Pump 200bbl undiluted sweep at TD and displace well to pad-mud. Mix 250bbls calcium chloride cement mix water. Received 919bbls KCL Polymer mud from Ocean Battler.	

For Report	**# 002**	**On**	**04/25/2008**	**Operation at Depth**	**125.0 m**
Rig Activity				RIH cement stinger. Cement 30" conductor as per program. Cut conductor and install diverter. Hold PJSM and make up 17 1/2" BHA.	
Activity				Cement conductor and run diverter	
Fluid Treatment				Dumped and flushed pit 3 and lines of calcium chloride cement mix water. Prepare further 340bbl of 40ppb PHB in pit #8 and 347bbl of 25ppb PHB in pit #7 , added 280 bbls sea water in preperation for displacement. Dressed shakers with 89 and 145 mesh screens. Loaded 24.16MT of Bentonite from Ocean Valkyrie	

Operations Log Recap

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval	**02**		**From Date**	**003**	**Top of Interval**	**768.0**	**m**
Max. Hole Size / Bit Size	**19.000 / 17.500**	**in**	**To Date**	**005**	**Bottom of Interval**	**1,123.0**	**m**

For Report	**# 003**	**On**	**04/26/2008**	**Operation at Depth**	**768.0 m**
Rig Activity				Continue to make up 17.5" BHA. RIH and tag @121m. Drill out shoe F/ 121m-125m displacing well to WBM. Drill ahead F/125m to 768m as per DD instructions. Survey every stand.	
Activity				Make up 17.5" BHA and drill 17.5" hole	
Fluid Treatment				Continue to pre-hydrate bentonite. Drill cement with seawater from pit #3, dump returns overboard. Pumped 50bbl high vis spacer at shoe and displaced hole to PHG mud, running full system via sand traps. Initial cuttings at shakers, coarse,unconsolidated sands and shell. Fined up shaker screens to 145 to 255mesh and dumped sand trap to dilute and maintain mud weight at <9.5 ppg. Regular dumping and dilution continuously required to maintain mud weight. Desilter unserviceable due to blockage with cuttings, servicing desilter at time of report.	
For Report	**# 004**	**On**	**04/27/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Continue drill 17 1/2" hole from 768m-1123m as per DD instructions, survey every stand. Circ hole clean. Spot old KCl mud on bottom. Flow check. POOH to run casing, ream and work tight spots 1082m-1076m (35k overpull).	
Activity				POOH to run casing	
Fluid Treatment				Continued dump and dilute to maintain mud weight. Maintain viscosity by diluting with PHB or Sea Water as required. Viscosity tends to increase while drilling as we 'make' mud from clay formation. As expected with non-inhibitive mud, some mushy, clay cuttings sticking to scalper screens and fine sands being removed from lower shaker screens. Add caustic to active to maintain pH. Unloaded chemicals, all included in inventory, except Baracor 129 (Waiting on price).	
For Report	**# 005**	**On**	**04/28/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Coninue to POOH to run casing. Lay out BHA. Hold PJSM. Rig up and run 13 3/8" casing to 862m at time of report.	
Activity				Run casing and cement	
Fluid Treatment				Compiled remaining mud into minimum number of pits, dumped and cleaned empty pits, commenced mixing KCL /Polymer mud.	

Operations Log Recap

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Interval	**03**		**From Date**	**006**	**Top of Interval**	**1,123.0**	**m**
Max. Hole Size / Bit Size	**19.000 / 17.500**	**in**	**To Date**	**015**	**Bottom of Interval**	**1,810.0**	**m**

For Report	**# 006**	**On**	**04/29/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Continue running 13 3/8" casing. Make up well head and RIH. Wash down and circ hole clean. Cement casing as per program. Displace cement with PHB mud. Attempt to back out running tool with no success. Troubleshoot problem. Back out running tool, pull to surface. First 13 3/8" connection below wellhead backed out. Attempt to back out running tool at surface, no success. Lay out landing string and wellhead. Install diverter bag and displace riser to seawater. Rig up BOP slings and rack back diverter.	
Activity				Run casing and cement	
Fluid Treatment				Continue mixing +800 bbls KCl/Polymer. Displace cement with PHB mud. Dump and clean sand traps and pit #6.	
For Report	**# 007**	**On**	**04/30/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Pick up wellhead assembly, break out running tool connection, make up same, lay out. Make up 13 3/8" water bushing on 5 1/2" drill pie and retrieve landing string. Prepare and make up 13 3/8" casing spear and bumper sub. RIH same. latch onto 13 3/8" casing at 48.19m, back out landing ring at 89m. Pull to surface, rack back HWDP, attempt to unlatch spear from 13 3/8" casing, no success. Lay out bumper sub and x-over.	
Activity				Fishing 13 3/8" casing	
Fluid Treatment				Continue mixing further +800bbl KCl/Polymer/Clayseal mud for next section.	
For Report	**# 008**	**On**	**05/01/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Continue to retrieve 13 3/8" landing string and layout same. Pick up spare MLH, break out running tool, layout same. RIH with MLH R/tool and 13 3/8" landing string, tack weld joints. Make up to MLH as per Drill-Quip instructions. Pressure test 13 3/8" casing. Prepare wellhead and nipple up BOP.	
Activity				Nipple up B.O.P.	
Fluid Treatment				Continue to mix and adjust KCl/Polymer prior to recommencing drilling. Dumped volume from cement job/left behind casing.	
For Report	**# 009**	**On**	**05/02/2008**	**Operation at Depth**	**1,123.0 m**
Rig Activity				Continue to nipple up and pressure test BOP. Make up 12 1/4" BHA. Shallow test motor and MWD tools. Continue to RIH to 200m. Line up Halliburton and test lower pipe rams. Cont to RIH from 200m, took weight at 285m (25K), break circ. Wash and ream from 285m to 468m, confirm returns cement. Drill out cement with seawater.	
Activity				Tripping	
Fluid Treatment				Continue to weight new KCl/Polymer mud with Barite. Prepare 50bbl high vis spacer in slug pit prior to displacing to KCl/Polymer mud. Drill out cement with seawater, dumping returns overboard due to large amount of cement to be drilled.	
For Report	**# 010**	**On**	**05/03/2008**	**Operation at Depth**	**1,400.0 m**
Rig Activity				Continue to drill out cement from 468m to 1103m. Drill out cement plugs and float from 1103m to 1104m. Displace well to 9.4ppg WBM. Continue to drill shoe track and 3m new formation to 1126m. Perform FIT with 9.4ppg mud to 750psi @1035m, EMW 13.65ppg. Commence drilling 12 1/4" hole from 1126m to 1392m as per D/D's instructions, survey every stand.	
Activity				Drilling	
Fluid Treatment				Drill out cement with seawater, dumping returns overboard. Pre-treated KCL/Polymer mud, for cement contamination. Pumped 50bbls HIVis and	

Interval	**03**		**From Date**	**006**	**Top of Interval**	**1,123.0**	**m**
Max. Hole Size / Bit Size	**19.000 / 17.500**	**in**	**To Date**	**015**	**Bottom of Interval**	**1,810.0**	**m**

	displaced hole with 550 bbls mud, while drilling float. Built 40 bbls LCM pill, 20ppb sized calcium carbonate. Treated active system with Barazan D to maintain rheology as PHPA sheared. Added Circal 60/16 and Circal Y, at 5ppb each to active at 1380m prior to entering the Latrobe Group to prevent seepage losses.
For Report # 011 On 05/04/2008	**Operation at Depth 1,810.0 m**
Rig Activity	Continue to drill 12 1/4" hole from 1392m to 1810m. Circulate hole clean and condition mud. Flowcheck and POOH for logging.
Activity	Drilling
Fluid Treatment	Continued to add sized calcium carbonate to active, for minimized seepage losses. Treated active with 0.5 ppb Soda Ash to reduce hardness, 1.3 ppb Barablok to maintain concentration and 25 kg Baracor 129 per 8 hrs. Prepared 400bbl KCl/Polymer premix to maintain volume and mud properties.
For Report # 012 On 05/05/2008	**Operation at Depth 1,810.0 m**
Rig Activity	Continue to POOH for logging. Lay out 12 1/4" BHA. Hold JSA meeting, rig up Schlumberger wireline. Run wireline logs as per program.
Activity	Wire Line logs
Fluid Treatment	Losses on trip out of hole 1 bbl. Dump and clean sand trap #1 and clean shaker trays.
For Report # 013 On 05/06/2008	**Operation at Depth 1,810.0 m**
Rig Activity	Continue running wireline logs as per program. MDT-Gamma Ray and POOH to run MFCT. Problem with tool - POOH and clear cuttings lodged in tool. RIH with MFCT string re-run and POOH then rig down wireline. Make up and RIH with Mule Shoe for P& A to 1565m at midnight.
Activity	Tripping
Fluid Treatment	Continue cleaning shaker beds and first sand trap.
For Report # 014 On 05/07/2008	**Operation at Depth 1,810.0 m**
Rig Activity	Continue to RIH to 1770m then make up top drive and wash to 1771m. Rig up and pump cement Plug 1A then displace and POOH to 1633m. Make up Top Drive and circulate bottoms up, dumping cement contaminated mud at surface. Rig up cement lines and pump Plug 1B and displace then POOH to to 1416m and circulate 1 1/2 times bottoms up. Lay out from 1417m to 1238m then RIH and tag top of Plug 1B at 1490m. POOH to 1238m and spotting 50bbl Hi Visc pill to 1149m. Set Plug 2 from 1149m to 1030m and POOH to 942m then circulate 1 1/2 times bottoms up. Continue POOH laying out sideways to 325m and then POOH to 307 m and pump 50bbl Hi Visc pill. POOH to 207m and set Plug 3 from 207m to 130m and rig down cement lines at midnight.
Activity	Wait on cement
Fluid Treatment	Dump 200 bbls contaminated mud / cement while displaceing cement plug #1A. Drilling fluid contaminated with cement. pH 10-11, hardness 960. However, mud weight constant at 9.6-9.7 ppg. No cement returns to surface on cement plug #1B or #2.

Operations Log Recap

Well Name	**West Seahorse 3**
Operator	**3D Oil ltd**
Contractor	**Seadrill**
Rig No	**West Triton**
Unit System	**Apache**

Interval	**03**		**From Date**	**006**	**Top of Interval**	**1,123.0**	**m**
Max. Hole Size / Bit Size	**19.000 / 17.500**	**in**	**To Date**	**015**	**Bottom of Interval**	**1,810.0**	**m**

For Report	**# 015**	**On**	**05/08/2008**	**Operation at Depth**	**1,810.0 m**
Rig Activity				POOH from 207m to 130m and reverse circulate, displacing mud to seawater and dumping contaminated returns. Pick up and lay out diverter then rig down Mandrel, Choke Hose and BOP. Make up well head retrieval tool, Run In and screw in then retrieve well head to surface. Set Abandonment Cover and retrieve 30".	
Activity				P & A	
Fluid Treatment				None. preparing to move to new well.	

Well Name	West Seahorse 3
Operator	3D Oil ltd
Contractor	Seadrill
Rig No	West Triton
Unit System	Apache

Deviation Per Well Design

Survey Date	MD m	TVD m	Angle	Direction	Horiz Displ. m
04/26/2008	330	330	3.00		3.0
04/26/2008	450	448	15.00		20.0
04/26/2008	600	586	30.00		77.0
04/26/2008	720	683	42.00		147.0
04/27/2008	1,170	1,018	42.00		448.0
04/27/2008	1,290	1,115	30.00		519.0
05/02/2008	1,440	1,253	15.00		576.0
05/03/2008	1,590	1,401			595.0
05/12/2008	1,810	1,610			595.0

DAILY MUD REPORTS

Baroid Fluid Services

Report No 001

Daily Drilling Fluid Report

Date 04/24/2008		Depth 125.0 m	
Spud Date 04/24/2008		Rig Activity Run casing and cement	
Operator 3D Oil ltd	Report For Bill Openshaw	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	26.000	in
Make/Type	SMITH/Y11C	
Jets	3x22|1x16	
TFA	1.310	sq-in
Jets Velocity	82.8	m/sec
Jet Impact Force	1330.7	lbf
Bit HHSI	0.69	hhp/in2
Press Drop @ Bit	561	psi
Bit Depth	125.0	m
ECD @ Csg Shoe	1.028	SG
ECD @ Bit	1.975	SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	46.7
Drill Collar	8.250	2.875	48.2
Drill Collar	9.500	3.125	30.2
Open Hole	36.000		45.0

in Casing m

OD	Set	MD
30.000	@	122.0

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	95		95		0	
gpm|bbl/min	556	13.24	556	13.24		
Total GPM	1,112	AV, Riser		Circ Press psi	798	
Total Circ Time	5	AV min DP	10.2	Tot Pres Loss	1316	
BU Time , min	5	AV max DC	11.1	Press Drop DP	332	
Total Strokes	922	BU Strokes	895	Press Drop An	1	

Properties		Hyd 1	2	3	4	Targets	Program	
Source		Pit 8	Flow Line					
Time		8:00	23:59					
Depth	m	125	125					
FL Temp	Deg C							
Density @ Deg C	SG	1.020 @ 19	1.020				1.000	1.100
FV @ Deg C	sec/qt	110 @ 19	110					
PV @ Deg C	cP	13 @ 49	13 @ 49					
YP	lbs/100 ft2	56	56					
GELS	lbs/100 ft2	17/41/52	17/41/52					
600/300		82.0/69.0	82.0/69.0					
200/100		61.0/56.0	61.0/56.0					
6/3		42.0/41.0	42.0/41.0					
API Filt	ml/30 min	13.0	13.0					
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in	1/2	2/-					
Corr Solid	% by Vol							
NAP/Water	% by Vol	-/95.0	-/95.0					
Sand	% by vol							
MBT	ppb Eq.	40.0	40.0					
pH @ Deg C		9.00 @ 19	9.00 @ 19					
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 Prehydrated Bentonite

Mixed up 1900 bbls 30-40 ppb PHB, cut back to 20ppb with sea water and flocculate with 0.3ppb lime prior to dilution. Due to short hydration time, some sweeps pumped from undiluted PHB to ensure adequate viscosity. Augmented rheology by addition of Barazan-D. Pump regular sweeps as programmed to ensure hole cleaning. Pump 200bbl undiluted sweep at TD and displace well to pad-mud.

Mix 250bbls calcium chloride cement mix water.

Received 919bbls KCL Polymer mud from Ocean Battler.

Rig Activity

Rig up. Make up 36" BHA and RIH. Tag sea level at 38m. Cont RIH, tag seabed at 77.5m. Drill ahead from 77.5m to 125m. Pump 200bbl high vis sweep, displace hole with WBM. POOH F/ 125mto 83m wiper trip, no fill. POOH from 125m to surface. Rig up for running 30" conductor. Hold PJSM, P/up shoe and run 30" conductor as per tally to 122m. Install quick-jay joints @46m. Install release cable to pivot cam and run cable whilst running conductor. Install 30" guide plates in CTU, install Icon support clamp on top of CTU. Land out conductor with 90K. Cut 30" conductor 2m above CTU. Lay out 2 joints 30" conductor including cut-off. Rig down 30" handling gear.

Product Name	Units	Start	Rec	Used	End	Cost
bentonite	1000 kg bulk		57.300	25.000	32.300	$12,372.00
BARAZAN D PLUS	25 kg bag		116	6	110	$913.44
calcium chloride flake 77%	25 kg bag		86	33	53	$456.06
caustic soda	25 kg pail		101	5	96	$220.95
soda ash	25 kg bag		56	5	51	$66.25
lime	20 kg bag		37	5	32	$32.75
BARABLOK	50 lb bag		240		240	
Baracide	25 kg can		11		11	
BARA-DEFOAM W300	5 gal can		1		1	
barite	1000 kg bulk		96.200		96.200	
BAROFIBRE FINE	25 lb bag		50		50	
Circal 60/16	25 kg sack		170		170	
Circal Y	25 kg sack		96		96	
CLAYSEAL PLUS	216 kg drum		29		29	
EZ SPOT	55 gal drum		8		8	
EZ-MUD	25 kg pail		38		38	
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		96.000		96.000	
PAC-L	25 kg bag		26		26	
potassium hydroxide	25 kg bag		77		77	
sapp	25 kg bag		40		40	
sodium bicarbonate	25 kg bag		48		48	
STEELSEAL	25 kg sack		180		180	
XLR-RATE	55 gal drum		16		16	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	3.0
Circulating	0.5
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	14.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.0
Total	24.0
Rotating	3.0
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus	124.7	Base		Fluid Dumped	-497.2
Pipe Cap	3.8	Drill Water	1838.4	Transferred	
Active Pits		Dewatering		SCE	
Total Hole	128.5	Sea Water		Evaporation	
Total Circ	128.5	Whole Mud		Trips	
Reserve	1274.0	Barite		Other	
Prev Vol		Chemicals	64.5	Total Surface	
Net Change	1405.6	Other		Downhole	
Total Vol	1402.5	Total	1902.8	Total Losses	-497.2

Fluid Types	Vol bbl
Old KCl/Polymer	520.0

Deviation Information

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

Daily Products Cost	$14,061.45	Total Daily Cost	$14,061.45
Cumulative Products Cost	$14,061.45	Total Cumulative Cost	$14,061.45

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 002

Daily Drilling Fluid Report

Date 04/25/2008	**Depth** 125.0 m		
Spud Date 04/24/2008	**Rig Activity** Cement conductor and run diverter		
Operator 3D Oil ltd	**Report For** Bill Openshaw	**Well Name** West Seahorse 3	
Contractor Seadrill	**Report For** Micheal Barry	**Rig Name** West Triton	**Unit System** Apache
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Straight	**Field or Block** Vic P57

Bit Information

Bit Size	26.000 in
Make/Type	SMITH/Y11C
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	125.0 m
ECD @ Csg Shoe	SG
ECD @ Bit	SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	3.250	46.7
Drill Collar	8.250	2.875	48.2
Drill Collar	9.500	3.125	30.2
Open Hole	36.000		45.0

in Casing m

OD	Set	MD
30.000	@	122.0

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 8					
Time		20:00	3:00					
Depth	m	125	125					
FL Temp	Deg C							
Density @ Deg C	SG	1.030 @ 20	1.020 @ 22				1.000	1.100
FV @ Deg C	sec/qt	40 @ 20	110 @ 22					
PV @ Deg C	cP	4 @ 49	13 @ 49					
YP	lbs/100 ft2	14	56					
GELS	lbs/100 ft2	9/13/15	14/41/52					
600/300		22.0/18.0	82.0/69.0					
200/100		15.0/12.0	61.0/56.0					
6/3		8.0/7.0	42.0/41.0					
API Filt	ml/30 min	30.0	13.0					
HTHP @ Deg C	ml/30 min							
Cake API/HTHP	32nd in	2/-	2/-					
Corr Solid	% by Vol	3.4						
NAP/Water	% by Vol	-/96.0	-/95.0					
Sand	% by vol							
MBT	ppb Eq.	20.0	40.0					
pH @ Deg C		8.00 @ 19	9.00 @ 19					
ALK Mud	Pm	0.45						
ALK Filt	Pf/Mf	0.05/0.50						
Chlorides	mg/l	10,000						
Tot. Hardness	mg/l	700						
LGS/HGS	% by Vol	5.4/-2.1						
LGS/HGS	ppb	49.30/-30.29						
ASG	SG	1.618						
Additional Properties								

Fluid Treatments

Fluid Type Prehydrated Bentonite

Dumped and flushed pit 3 and lines of calcium chloride cement mix water.

Prepare further 340bbl of 40ppb PHB in pit #8 and 347bbl of 25ppb PHB in pit #7 , added 280 bbls sea water in preperation for displacement.

Dressed shakers with 89 and 145 mesh screens.

Loaded 24.16MT of Bentonite from Ocean Valkyrie

Rig Activity

RIH cement stinger. Cement 30" conductor as per program. Cut conductor and install diverter. Hold PJSM and make up 17 1/2" BHA.

Product Name	Units	Start	Rec	Used	End	Cost
bentonite	1000 kg bulk	32.300	24.160	9.960	46.500	$4,929.00
BARABLOK	50 lb bag	240			240	
Baracide	25 kg can	11			11	
BARA-DEFOAM W300	5 gal can	1			1	
BARAZAN D PLUS	25 kg bag	110			110	
barite	1000 kg bulk	96.200			96.200	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	53			53	
caustic soda	25 kg pail	96			96	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	29			29	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	38			38	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	32			32	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	26			26	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
STEELSEAL	25 kg sack	180			180	
XLR-RATE	55 gal drum	16			16	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	145	
VSM-300	89	
VSM-300	89	
VSM-300	89	

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	3.5
Rig	
Surveys	
Fishing	
Run Casing	4.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	16.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus	124.7	Base		Fluid Dumped	
Pipe Cap	3.8	Drill Water	751.0	Transferred	
Active Pits	480.0	Dewatering		SCE	
Total Hole	128.5	Sea Water	248.5	Evaporation	
Total Circ	608.5	Whole Mud		Trips	
Reserve	1826.0	Barite		Other	
Prev Vol	1402.5	Chemicals	25.1	Total Surface	
Net Change	1024.6	Other		Downhole	
Total Vol	2434.5	Total	1024.6	Total Losses	

Fluid Types

	Vol bbl
Old KCl/Polymer	520.0

Deviation Information

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

Daily Products Cost	$4,929.00	Total Daily Cost	$4,929.00
Cumulative Products Cost	$18,990.45	Total Cumulative Cost	$18,990.45

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 003

Daily Drilling Fluid Report

Date 04/26/2008	**Depth** 768.0 m		
Spud Date 04/24/2008	**Rig Activity** Make up 17.5" BHA and drill 17.5" hole		
Operator 3D Oil ltd	**Report For** Shaugn Corless	**Well Name** West Seahorse 3	
Contractor Seadrill	**Report For** Micheal Barry	**Rig Name** West Triton	**Unit System** Apache
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Straight	**Field or Block** Vic P57

Bit Information

Bit Size	17.500 in
Make/Type	HUGHES/MXL-T1V
Jets	3x20
TFA	0.920 sq-in
Jets Velocity	116.6 m/sec
Jet Impact Force	2000.7 lbf
Bit HHSI	3.20 hhp/in2
Press Drop @ Bit	1200 psi
Bit Depth	768.0 m
ECD @ Csg Shoe	1.104 SG
ECD @ Bit	1.112 SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.000	529.4
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.125	3.000	112.9
Motor	17.250	0.000	12.9
Open Hole	19.000		646.0

in Casing m

OD	Set	MD
30.000	@	122.0

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	94	94	0
gpm|bbl/min	550 13.10	550 13.10	
Total GPM	1,100	AV, Riser	Circ Press psi 2960
Total Circ Time	52	AV min DP 10.1	Tot Pres Loss 2516
BU Time , min	37	AV max DC 27.9	Press Drop DP 824
Total Strokes	9,784	BU Strokes 6,969	Press Drop An 12

Properties		1	2	3	Hyd 4
Source		Pit 6	Flow Line	Flow Line	Flow Line
Time		3:00	15:00	20:00	23:59
Depth	m	125	408	593	768
FL Temp	Deg C			36	38
Density @ Deg C	SG	1.030 @ 20	1.110 @ 20	1.140 @ 36	1.100 @ 38
FV @ Deg C	sec/qt	39 @ 20	40 @ 20	41 @ 36	48 @ 38
PV @ Deg C	cP	4 @ 49	4 @ 49	8 @ 49	8 @ 49
YP	lbs/100 ft2	14	14	24	24
GELS	lbs/100 ft2	9/13/15	9/13/15	10/12/15	10/12/15
600/300		22.0/18.0	22.0/18.0	40.0/32.0	40.0/32.0
200/100		15.0/12.0	15.0/12.0	27.0/25.0	27.0/25.0
6/3		8.0/7.0	8.0/7.0	12.0/10.0	12.0/10.0
API Filt	ml/30 min	30.0	30.0		
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in	2/-	2/-	2/ -	3/-
Corr Solid	% by Vol	3.4	3.4	4.3	5.0
NAP/Water	% by Vol	-/96.0	-/96.0	-/95.0	-/94.0
Sand	% by vol			0.50	1.00
MBT	ppb Eq.	20.0	20.0	14.0	14.0
pH @ Deg C		8.00 @ 20	8.00 @ 20	8.00 @ 20	8.50 @ 20
ALK Mud	Pm	0.45	0.45	0.45	0.40
ALK Filt	Pf/Mf	0.05/0.50	0.05/0.50	0.10/0.50	0.12/0.40
Chlorides	mg/l	10,000	10,000	12,000	18,000
Tot. Hardness	mg/l	700	700	1,200	1,600
LGS/HGS	% by Vol	5.4/-2.1	0.4/2.9	0.5/3.8	4.9/0.1
LGS/HGS	ppb	49.30/-30.29	3.73/43.32	4.56/55.45	44.27/1.98
ASG	SG	1.618	4.004	4.012	2.643

Additional Properties

Fluid Treatments

Fluid Type Prehydrated Bentonite

Continue to pre-hydrate bentonite. Drill cement with seawater from pit #3, dump returns overboard. Pumped 50bbl high vis spacer at shoe and displaced hole to PHG mud, running full system via sand traps.
Initial cuttings at shakers, coarse,unconsolidated sands and shell.
Fined up shaker screens to 145 to 255mesh and dumped sand trap to dilute and maintain mud weight at <9.5 ppg. Regular dumping and dilution continuously required to maintain mud weight.
Desilter unserviceable due to blockage with cuttings, servicing desilter at time of report.

Rig Activity

Continue to make up 17.5" BHA. RIH and tag @121m. Drill out shoe F/ 121m-125m displacing well to WBM. Drill ahead F/125m to 768m as per DD instructions. Survey every stand.

Product Name	Units	Start	Rec	Used	End	Cost
bentonite	1000 kg bulk	46.500		4.500	42.000	$2,226.96
caustic soda	25 kg pail	96		6	90	$265.14
BARABLOK	50 lb bag	240			240	
Baracide	25 kg can	11			11	
BARA-DEFOAM W300	5 gal can	1			1	
BARAZAN D PLUS	25 kg bag	110			110	
barite	1000 kg bulk	96.200			96.200	
BAROFIBRE FINE	25 lb bag	50			50	
calcium chloride flake 77%	25 kg bag	53			53	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	29			29	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	38			38	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	32	54		86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	26			26	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
STEELSEAL	25 kg sack	180			180	
XLR-RATE	55 gal drum	16			16	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	145 215	20.5
VSM-300	145	20.5
VSM-300	145	20.5
VSM-300	255	20.5

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	19.5
Circulating	
Trips	4.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	19.5
ROP	33.0
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus	971.1	Base		Fluid Dumped	
Pipe Cap	33.2	Drill Water	500.0	Transferred	
Active Pits	359.0	Dewatering		SCE	-725.7
Total Hole	1004.3	Sea Water	922.0	Evaporation	
Total Circ	1363.3	Whole Mud		Trips	
Reserve	1775.0	Barite		Other	
Prev Vol	2625.4	Chemicals	11.8	Total Surface	
Net Change	708.1	Other		Downhole	
Total Vol	3138.3	Total	1433.8	Total Losses	-725.7

Fluid Types

	Vol bbl
Old KCl/Polymer	520.0

Deviation Information

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

Daily Products Cost	$2,492.10	Total Daily Cost	$2,492.10
Cumulative Products Cost	$21,482.55	Total Cumulative Cost	$21,482.55

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 004

Daily Drilling Fluid Report

Date 04/27/2008		Depth 1,123.0 m	
Spud Date 04/24/2008		Rig Activity POOH to run casing	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	17.500 in
Make/Type	HUGHES/MXL-T1V
Jets	3x20
TFA	0.920 sq-in
Jets Velocity	128.4 m/sec
Jet Impact Force	2491.6 lbf
Bit HHSI	4.39 hhp/in2
Press Drop @ Bit	1495 psi
Bit Depth	1,063.0 m
ECD @ Csg Shoe	1.134 SG
ECD @ Bit	1.140 SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.000	824.4
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.125	3.000	112.9
Motor	17.250	0.000	12.9
Open Hole	19.000		941.0

in Casing m

OD	Set	MD
30.000	@	122.0

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	104	103	0
gpm|bbl/min	609 | 14.49	603 | 14.35	

Total GPM	1,211	AV, Riser		Circ Press psi	3155
Total Circ Time	63	AV min DP	11.2	Tot Pres Loss	3927
BU Time , min	44	AV max DC	30.7	Press Drop DP	1554
Total Strokes	13,030	BU Strokes	9,190	Press Drop An	15

Properties		1	2	Hyd 3	4	Targets	Program
Source		Flow Line	Pit 6	Flow Line			
Time		4:00	17:00	20:00			
Depth	m	840	1,063	1,123			
FL Temp	Deg C	39	38	38			
Density @ Deg C	SG	1.100 @ 39	1.130 @ 37	1.130 @ 36			
FV @ Deg C	sec/qt	47 @ 39	36 @ 37	36 @ 36			
PV @ Deg C	cP	8 @ 49	7 @ 49	5 @ 49			
YP	lbs/100 ft2	24	23	15			
GELS	lbs/100 ft2	10/12/15	10/12/13	12/14/17			
600/300		40.0/32.0	37.0/30.0	25.0/20.0			
200/100		27.0/25.0	24.0/21.0	18.0/15.0			
6/3		12.0/10.0	10.0/8.0	12.0/11.0			
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in	3/-	3/-	3/ -			
Corr Solid	% by Vol	5.0	4.0	4.1			
NAP/Water	% by Vol	-/94.0	-/95.0	-/95.0			
Sand	% by vol	1.00	0.80	0.50			
MBT	ppb Eq.	14.0	14.0	14.0			
pH @ Deg C		8.50 @ 22	8.00 @ 37	8.00 @ 37			
ALK Mud	Pm	0.40	0.20	0.10			
ALK Filt	Pf/Mf	0.12/0.40	0.10/0.40	0.05/0.35			
Chlorides	mg/l	18,000	17,000	16,000			
Tot. Hardness	mg/l	1,600	1,600	1,600			
LGS/HGS	% by Vol	4.9/0.1	1.0/3.0	1.0/3.1			
LGS/HGS	ppb	44.27/1.98	9.12/44.59	9.37/44.91			
ASG	SG	2.643	3.803	3.797			
Additional Properties							

Fluid Treatments

Fluid Type Prehydrated Bentonite

Continued dump and dilute to maintain mud weight.

Maintain viscosity by diluting with PHB or Sea Water as required. Viscosity tends to increase while drilling as we 'make' mud from clay formation.

As expected with non-inhibitive mud, some mushy, clay cuttings sticking to scalper screens and fine sands being removed from lower shaker screens.

Add caustic to active to maintain pH.

Unloaded chemicals, all included in inventory, except Baracor 129 (Waiting on price).

Rig Activity

Continue drill 17 1/2" hole from 768m-1123m as per DD instructions, survey every stand. Circ hole clean. Spot old KCl mud on bottom. Flow check. POOH to run casing, ream and work tight spots 1082m-1076m (35k overpull).

Product Name	Units	Start	Rec	Used	End	Cost
barite	1000 kg bulk	96.200		4.000	92.200	$1,899.52
caustic soda	25 kg pail	90		4	86	$176.76
BARABLOK	50 lb bag	240			240	
Baracide	25 kg can	11			11	
BARA-DEFOAM W300	5 gal can	1			1	
BARAZAN D PLUS	25 kg bag	110			110	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	29	16		45	
DEXTRID LTE	25 kg sack		72		72	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	38	64		102	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	26	72		98	
potassium chloride	1000 kg bag		40		40	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
STEELSEAL	25 kg sack	180			180	
XLR-RATE	55 gal drum	16			16	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	145 215	22.0
VSM-300	145	22.0
VSM-300	145	22.0
VSM-300	255 280	22.0

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	22.0
Circulating	1.0
Trips	1.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	22.0
ROP	16.1
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus	1280.6	Base		Fluid Dumped	
Pipe Cap	48.0	Drill Water		Transferred	
Active Pits	487.0	Dewatering		SCE	-618.9
Total Hole	1328.6	Sea Water	450.0	Evaporation	
Total Circ	1815.6	Whole Mud	407.0	Trips	
Reserve	1498.0	Barite	6.0	Other	
Prev Vol	3138.3	Chemicals	0.3	Total Surface	
Net Change	244.3	Other		Downhole	
Total Vol	3313.6	Total	863.3	Total Losses	-618.9

Fluid Types

	Vol bbl
Old KCl/Polymer	113.0

Deviation Information

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

Daily Products Cost	$2,076.28	Total Daily Cost	$2,076.28
Cumulative Products Cost	$23,558.83	Total Cumulative Cost	$23,558.83

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 005

Daily Drilling Fluid Report

Date 04/28/2008	**Depth** 1,123.0 m		
Spud Date 04/24/2008	**Rig Activity** Run casing and cement		
Operator 3D Oil ltd	**Report For** Shaugn Corless	**Well Name** West Seahorse 3	
Contractor Seadrill	**Report For** Micheal Barry	**Rig Name** West Triton	**Unit System** Apache
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Straight	**Field or Block** Vic P57

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	SG
ECD @ Bit	SG

Drill String (in) / (m)

	OD	ID	Length
Open Hole	19.000		1,001.0

in Casing m

OD	Set	MD
30.000	@	122.0

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
Source		Pit 2	Pit 6	Pit 6	
Time		0:01	3:30	20:00	
Depth	m	0	1,123	1,123	
FL Temp	Deg C				
Density @ Deg C	SG	1.150 @ 20	1.130 @ 27	1.130 @ 23	
FV @ Deg C	sec/qt	49 @ 20	38 @ 27	40 @ 23	
PV @ Deg C	cP	12 @ 20	5 @ 49	5 @ 49	
YP	lbs/100 ft2	28	15	15	
GELS	lbs/100 ft2		12/14/17	12/14/17	
600/300		52.0/40.0	25.0/20.0	25.0/20.0	
200/100		31.0/24.0	18.0/15.0	18.0/15.0	
6/3		11.0/8.0	12.0/11.0	12.0/11.0	
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in		3/-	3/ -	
Corr Solid	% by Vol	4.8	4.1	4.1	
NAP/Water	% by Vol	-/95.0	-/95.0	-/95.0	
Sand	% by vol		0.50	0.40	
MBT	ppb Eq.		14.0	14.0	
pH @ Deg C		8.50	8.00 @ 23	8.00 @ 23	
ALK Mud	Pm		0.10	0.10	
ALK Filt	Pf/Mf		0.05/0.35	0.05/0.35	
Chlorides	mg/l		16,000	16,000	
Tot. Hardness	mg/l		1,600	1,600	
LGS/HGS	% by Vol	0.1/4.7	1.0/3.1	1.0/3.1	
LGS/HGS	ppb	0.64/69.38	9.37/44.91	9.37/44.91	
ASG	SG	4.177	3.797	3.797	
Additional Properties					
KCL %	% by vol	10.0			

Targets

Program

Fluid Treatments

Fluid Type Prehydrated Bentonite

Compiled remaining mud into minimum number of pits, dumped and cleaned empty pits, commenced mixing KCL /Polymer mud.

Rig Activity

Coninue to POOH to run casing. Lay out BHA. Hold PJSM. Rig up and run 13 3/8" casing to 862m at time of report.

Product Name	Units	Start	Rec	Used	End	Cost
BARABLOK	50 lb bag	240			240	
Baracide	25 kg can	11			11	
BARA-DEFOAM W300	5 gal can	1			1	
BARAZAN D PLUS	25 kg bag	110			110	
barite	1000 kg bulk	92.200			92.200	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
caustic soda	25 kg pail	86			86	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	45			45	
DEXTRID LTE	25 kg sack	72			72	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	102			102	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	98			98	
potassium chloride	1000 kg bag	40			40	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
sodium sulfite	25 kg bag		32		32	
STEELSEAL	25 kg sack	180			180	
XLR-RATE	55 gal drum	16			16	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	145 215	10.0
VSM-300	145	10.0
VSM-300	145	10.0
VSM-300	255 280	10.0

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	10.5
Rig	
Surveys	
Fishing	
Run Casing	13.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	-180.0
Active Pits	525.0	Dewatering		SCE	-362.9
Total Hole	1478.7	Sea Water		Evaporation	
Total Circ	525.0	Whole Mud		Trips	
Reserve	836.0	Barite		Other	
Prev Vol	3382.6	Chemicals		Total Surface	
Net Change	-542.9	Other		Downhole	
Total Vol	2839.7	Total		Total Losses	-542.9

Fluid Types

	Vol bbl
Old KCl/Polymer	293.0

Deviation Information

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

Daily Products Cost	$0.00	Total Daily Cost	$0.00
Cumulative Products Cost	$23,558.83	Total Cumulative Cost	$23,558.83

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 006

Daily Drilling Fluid Report

Date 04/29/2008	**Depth** 1,123.0 m		
Spud Date 04/24/2008	**Rig Activity** Run casing and cement		
Operator 3D Oil ltd	**Report For** Shaugn Corless	**Well Name** West Seahorse 3	
Contractor Seadrill	**Report For** Micheal Barry	**Rig Name** West Triton	**Unit System** Apache
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Straight	**Field or Block** Vic P57

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	1,123.0	m
ECD @ Csg Shoe		SG
ECD @ Bit		SG

Drill String (in) / (m)

	OD	ID	Length
Open Hole	19.000		1,001.0

in Casing m

OD	Set	MD
30.000	@	122.0

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 5	Pit 6				
Time		20:00	3:00				
Depth	m	1,123	1,123				
FL Temp	Deg C						
Density @ Deg C	SG	1.130 @ 22	1.130 @ 23				
FV @ Deg C	sec/qt	40 @ 22	40 @ 23				
PV @ Deg C	cP	5 @ 49	5 @ 49				
YP	lbs/100 ft2	15	15				
GELS	lbs/100 ft2	12/14/17	12/14/17				
600/300		25.0/20.0	25.0/20.0				
200/100		18.0/15.0	18.0/15.0				
6/3		12.0/11.0	12.0/11.0				
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in	3/-	3/-				
Corr Solid	% by Vol	4.1	4.1				
NAP/Water	% by Vol	-/95.0	-/95.0				
Sand	% by vol	0.40	0.30				
MBT	ppb Eq.	14.0	14.0				
pH @ Deg C		8.00 @ 22	8.00 @ 23				
ALK Mud	Pm	0.10	0.10				
ALK Filt	Pf/Mf	0.05/0.35	0.05/0.35				
Chlorides	mg/l	16,000	16,000				
Tot. Hardness	mg/l	1,600	1,600				
LGS/HGS	% by Vol	1.0/3.1	1.0/3.1				
LGS/HGS	ppb	9.37/44.91	9.37/44.91				
ASG	SG	3.797	3.797				

Additional Properties

Fluid Treatments

Fluid Type Prehydrated Bentonite

Continue mixing +800 bbls KCl/Polymer. Displace cement with PHB mud. Dump and clean sand traps and pit #6.

Rig Activity

Continue running 13 3/8" casing. Make up well head and RIH. Wash down and circ hole clean. Cement casing as per program. Displace cement with PHB mud. Attempt to back out running tool with no success. Troubleshoot problem. Back out running tool, pull to surface. First 13 3/8" connection below wellhead backed out. Attempt to back out running tool at surface, no success. Lay out landing string and wellhead. Install diverter bag and displace riser to seawater. Rig up BOP slings and rack back diverter.

Product Name		Units	Start	Rec	Used	End	Cost
CLAYSEAL PLUS		216 kg drum	45		10	35	$9,566.40
potassium chloride		1000 kg bag	40		12	28	$5,297.52
BARAZAN D PLUS		25 kg bag	110		14	96	$2,131.36
BARABLOK		50 lb bag	240		58	182	$1,762.62
PAC-L		25 kg bag	98		16	82	$1,309.92
DEXTRID LTE		25 kg sack	72		30	42	$1,216.80
EZ-MUD		25 kg pail	102		8	94	$686.64
caustic soda		25 kg pail	86		4	82	$176.76
Baracide		25 kg can	11		2	9	$174.74
BARACOR 100		25 kg sack		32		32	
BARA-DEFOAM W300		5 gal can	1			1	
barite		1000 kg bulk	92.200			92.200	
BAROFIBRE FINE		25 lb bag	50			50	
bentonite		1000 kg bulk	42.000			42.000	
calcium chloride flake	77%	25 kg bag	53			53	
Circal 60/16		25 kg sack	170			170	
Circal Y		25 kg sack	96			96	
EZ SPOT		55 gal drum	8			8	
Kwikseal Fine		40 lb bag	38			38	
lime		20 kg bag	86			86	
N-DRIL HT PLUS		50 lb bag	55			55	
NO-SULF		17 kg pail	48			48	
Omyacarb 5		25 kg bulk	96.000			96.000	
potassium hydroxide		25 kg bag	77			77	
sapp		25 kg bag	40			40	
soda ash		25 kg bag	51			51	
sodium bicarbonate		25 kg bag	48			48	
sodium sulfite		25 kg bag	32			32	
STEELSEAL		25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

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 — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	416.0	Dewatering		SCE	-786.0
Total Hole	1478.7	Sea Water		Evaporation	
Total Circ	416.0	Whole Mud	293.0	Trips	
Reserve	852.0	Barite		Other	
Prev Vol	2839.7	Chemicals		Total Surface	
Net Change	-93.0	Other	400.0	Downhole	
Total Vol	2746.7	Total	693.0	Total Losses	-786.0

Fluid Types	Vol bbl
KCl/Polymer/Clayseal	897.0

Deviation Information

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

Daily Products Cost	$22,322.76	Total Daily Cost	$22,322.76
Cumulative Products Cost	$45,881.59	Total Cumulative Cost	$45,881.59

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 007

Daily Drilling Fluid Report

Date 04/30/2008	**Depth** 1,123.0 m		
Spud Date 04/24/2008	**Rig Activity** Fishing 13 3/8" casing		
Operator 3D Oil ltd	**Report For** Shaugn Corless	**Well Name** West Seahorse 3	
Contractor Seadrill	**Report For** Micheal Barry	**Rig Name** West Triton	**Unit System** Apache
Country Australia	**State/Province/Region** Victoria	**Geographic Area/County** Bass Straight	**Field or Block** Vic P57

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	1,123.0	m
ECD @ Csg Shoe		SG
ECD @ Bit		SG

Drill String (in) / (m)

	OD	ID	Length
Open Hole	19.000		1,001.0

in Casing m

OD	Set	MD
30.000	@	122.0

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 5	Pit 5				
Time		3:00	20:00				
Depth	m	1,123	1,123				
FL Temp	Deg C						
Density @ Deg C	SG	1.130 @ 22	1.130 @ 22				
FV @ Deg C	sec/qt	40 @ 22	40 @ 22				
PV @ Deg C	cP	5 @ 49	5 @ 49				
YP	lbs/100 ft2	15	15				
GELS	lbs/100 ft2	12/14/17	12/14/17				
600/300		25.0/20.0	25.0/20.0				
200/100		18.0/15.0	18.0/15.0				
6/3		12.0/11.0	12.0/11.0				
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in	3/-	3/-				
Corr Solid	% by Vol	4.1	4.1				
NAP/Water	% by Vol	-/95.0	-/95.0				
Sand	% by vol	0.40	0.30				
MBT	ppb Eq.	14.0	14.0				
pH @ Deg C		8.00 @ 22	8.00 @ 22				
ALK Mud	Pm	0.10	0.10				
ALK Filt	Pf/Mf	0.05/0.35	0.05/0.35				
Chlorides	mg/l	16,000	16,000				
Tot. Hardness	mg/l	1,600	1,600				
LGS/HGS	% by Vol	1.0/3.1	1.0/3.1				
LGS/HGS	ppb	9.37/44.91	9.37/44.91				
ASG	SG	3.797	3.797				

Additional Properties

Fluid Treatments

Fluid Type Prehydrated Bentonite

Continue mixing further +800bbl KCl/Polymer/Clayseal mud for next section.

Rig Activity

Pick up wellhead assembly, break out running tool connection, make up same, lay out. Make up 13 3/8" water bushing on 5 1/2" drill pie and retrieve landing string. Prepare and make up 13 3/8" casing spear and bumper sub. RIH same. latch onto 13 3/8" casing at 48.19m, back out landing ring at 89m. Pull to surface, rack back HWDP, attempt to unlatch spear from 13 3/8" casing, no success. Lay out bumper sub and x-over.

Product Name	Units	Start	Rec	Used	End	Cost
CLAYSEAL PLUS	216 kg drum	35		10	25	$9,566.40
potassium chloride	1000 kg bag	28		12	16	$5,297.52
BARAZAN D PLUS	25 kg bag	96		14	82	$2,131.36
BARABLOK	50 lb bag	182		58	124	$1,762.62
PAC-L	25 kg bag	82		16	66	$1,309.92
DEXTRID LTE	25 kg sack	42		30	12	$1,216.80
EZ-MUD	25 kg pail	94		8	86	$686.64
caustic soda	25 kg pail	82		4	78	$176.76
Baracide	25 kg can	9		2	7	$174.74
BARACOR 100	25 kg sack	32			32	
BARA-DEFOAM W300	5 gal can	1			1	
barite	1000 kg bulk	92.200			92.200	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
EZ SPOT	55 gal drum	8			8	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	8.5
Rig	
Surveys	
Fishing	15.5
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	425.0	Dewatering		SCE	-11.0
Total Hole	1478.7	Sea Water		Evaporation	
Total Circ	425.0	Whole Mud		Trips	
Reserve	1257.0	Barite		Other	
Prev Vol	2746.7	Chemicals		Total Surface	
Net Change	-11.0	Other		Downhole	
Total Vol	3160.7	Total		Total Losses	-11.0

Fluid Types	Vol bbl
KCl/Polymer/Clayseal	1755.0

Deviation Information

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

Daily Products Cost	$22,322.76	Total Daily Cost	$22,322.76
Cumulative Products Cost	$68,204.35	Total Cumulative Cost	$68,204.35

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

Baroid Fluid Services

Report No 008

Daily Drilling Fluid Report

Date 05/01/2008		Depth 1,123.0 m	
Spud Date 04/24/2008		Rig Activity Nipple up B.O.P.	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

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	1,123.0	m
ECD @ Csg Shoe		SG
ECD @ Bit		SG

Drill String (in) / (m)

	OD	ID	Length
Open Hole	19.000		1,001.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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 5	Pit 5				
Time		3:00	20:00				
Depth	m	1,123	1,123				
FL Temp	Deg C						
Density @ Deg C	SG	1.130 @ 22	1.130 @ 22				
FV @ Deg C	sec/qt	40 @ 22	40 @ 22				
PV @ Deg C	cP	5 @ 49	5 @ 49				
YP	lbs/100 ft2	15	15				
GELS	lbs/100 ft2	12/14/17	12/14/17				
600/300		25.0/20.0	25.0/20.0				
200/100		18.0/15.0	18.0/15.0				
6/3		12.0/11.0	12.0/11.0				
API Filt	ml/30 min						
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in	3/-	3/-				
Corr Solid	% by Vol	4.1	4.1				
NAP/Water	% by Vol	-/95.0	-/95.0				
Sand	% by vol	0.30	0.30				
MBT	ppb Eq.	14.0	14.0				
pH @ Deg C		8.00 @ 22	8.00 @ 22				
ALK Mud	Pm	0.10	0.10				
ALK Filt	Pf/Mf	0.05/0.35	0.05/0.35				
Chlorides	mg/l	16,000	16,000				
Tot. Hardness	mg/l	1,600	1,600				
LGS/HGS	% by Vol	1.0/3.1	1.0/3.1				
LGS/HGS	ppb	9.37/44.91	9.37/44.91				
ASG	SG	3.797	3.797				

Additional Properties

Fluid Treatments

Fluid Type Prehydrated Bentonite

Continue to mix and adjust KCl/Polymer prior to recommencing drilling.
Dumped volume from cement job/left behind casing.

Rig Activity

Continue to retrieve 13 3/8" landing string and layout same. Pick up spare MLH, break out running tool, layout same. RIH with MLH R/tool and 13 3/8" landing string, tack weld joints. Make up to MLH as per Drill-Quip instructions. Pressure test 13 3/8" casing. Prepare wellhead and nipple up BOP.

Product Name	Units	Start	Rec	Used	End	Cost
barite	1000 kg bulk	92.200	76.400	14.000	154.600	$6,648.32
BARAZAN D PLUS	25 kg bag	82		16	66	$2,435.84
EZ-MUD	25 kg pail	86		16	70	$1,373.28
BARABLOK	50 lb bag	124			124	
Baracide	25 kg can	7			7	
BARACOR 100	25 kg sack	32			32	
BARA-DEFOAM W300	5 gal can	1			1	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
caustic soda	25 kg pail	78			78	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	25			25	
DEXTRID LTE	25 kg sack	12			12	
EZ SPOT	55 gal drum	8			8	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	66			66	
potassium chloride	1000 kg bag	16			16	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	19.5
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	4.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — Prehydrated Bentonite

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	-874.9
Pipe Cap		Drill Water		Transferred	
Active Pits	416.0	Dewatering		SCE	
Total Hole	603.8	Sea Water		Evaporation	
Total Circ	416.0	Whole Mud		Trips	
Reserve	841.0	Barite		Other	
Prev Vol	2735.7	Chemicals		Total Surface	
Net Change	-874.9	Other		Downhole	
Total Vol	1860.8	Total		Total Losses	-874.9

Fluid Types	Vol bbl
KCl/Polymer/Clayseal	1838.0

Deviation Information

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

Daily Products Cost	$10,457.44	Total Daily Cost	$10,457.44
Cumulative Products Cost	$78,661.79	Total Cumulative Cost	$78,661.79

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 009

Daily Drilling Fluid Report

Date 05/02/2008		Depth 1,123.0 m	
Spud Date 04/24/2008		Rig Activity Tripping	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	12.250 in
Make/Type	HYCALOG/RSX 616M
Jets	3x15|3x16
TFA	1.107 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,123.0 m
ECD @ Csg Shoe	SG
ECD @ Bit	SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.670	949.7
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.000	2.875	38.4
Motor	9.250	0.000	22.0
Open Hole	19.000		1,001.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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
Source		Pit 5	Pit 5		
Time		3:00	20:00		
Depth	m	1,123	1,123		
FL Temp	Deg C				
Density @ Deg C	SG	1.130 @ 22	1.130 @ 22		
FV @ Deg C	sec/qt	40 @ 22	40 @ 22		
PV @ Deg C	cP	5 @ 49	5 @ 49		
YP	lbs/100 ft2	15	15		
GELS	lbs/100 ft2	12/14/17	12/14/17		
600/300		25.0/20.0	25.0/20.0		
200/100		18.0/15.0	18.0/15.0		
6/3		12.0/11.0	12.0/11.0		
API Filt	ml/30 min				
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in	3/-	3/-		
Corr Solid	% by Vol	4.1	4.1		
NAP/Water	% by Vol	-/95.0	-/95.0		
Sand	% by vol	0.30	0.30		
MBT	ppb Eq.	14.0	14.0		
pH @ Deg C		8.00 @ 22			
ALK Mud	Pm	0.10	0.10		
ALK Filt	Pf/Mf	0.05/0.35	0.05/0.35		
Chlorides	mg/l	16,000	16,000		
Tot. Hardness	mg/l	1,600	1,600		
LGS/HGS	% by Vol	1.0/3.1	1.0/3.1		
LGS/HGS	ppb	9.37/44.91	9.37/44.91		
ASG	SG	3.797	3.797		
Additional Properties					

Targets	Program

Fluid Treatments

Fluid Type

Continue to weight new KCl/Polymer mud with Barite. Prepare 50bbl high vis spacer in slug pit prior to displacing to KCl/Polymer mud. Drill out cement with seawater, dumping returns overboard due to large amount of cement to be drilled.

Rig Activity

Continue to nipple up and pressure test BOP. Make up 12 1/4" BHA. Shallow test motor and MWD tools. Continue to RIH to 200m. Line up Halliburton and test lower pipe rams. Cont to RIH from 200m, took weight at 285m (25K), break circ. Wash and ream from 285m to 468m, confirm returns cement. Drill out cement with seawater.

Product Name	Units	Start	Rec	Used	End	Cost
barite	1000 kg bulk	154.600		6.800	147.800	$3,229.18
BARAZAN D PLUS	25 kg bag	66		4	62	$608.96
BARABLOK	50 lb bag	124			124	
Baracide	25 kg can	7			7	
BARACOR 100	25 kg sack	32			32	
BARA-DEFOAM W300	5 gal can	1			1	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
caustic soda	25 kg pail	78			78	
Circal 60/16	25 kg sack	170			170	
Circal Y	25 kg sack	96			96	
CLAYSEAL PLUS	216 kg drum	25			25	
DEXTRID LTE	25 kg sack	12			12	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	70			70	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	96.000			96.000	
PAC-L	25 kg bag	66			66	
potassium chloride	1000 kg bag	16			16	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium bicarbonate	25 kg bag	48			48	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	5.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	11.5
Logging	
Dir Work	
Repair	
Other	7.5
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	3101.6	Total		Total Losses	

Fluid Types	Vol bbl
KCl/Polymer/Clayseal	1848.6
Prehydrated Bentonite	1253.0

Deviation Information

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

Daily Products Cost	$3,838.14	Total Daily Cost	$3,838.14
Cumulative Products Cost	$82,499.94	Total Cumulative Cost	$82,499.94

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 010

Daily Drilling Fluid Report

Date 05/03/2008		Depth 1,400.0 m	
Spud Date 04/24/2008		Rig Activity Drilling	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	12.250 in
Make/Type	HYCALOG/RSX 616M
Jets	3x15|3x16
TFA	1.107 sq-in
Jets Velocity	87.7 m/sec
Jet Impact Force	1396.6 lbf
Bit HHSI	3.43 hhp/in2
Press Drop @ Bit	696 psi
Bit Depth	1,400.0 m
ECD @ Csg Shoe	1.160 SG
ECD @ Bit	1.156 SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.670	1,226.7
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.000	2.875	38.4
Motor	9.250	0.000	22.0
Open Hole	12.250		115.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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	85	85	0
gpm|bbl/min	497 | 11.84	497 | 11.84	

Total GPM	995	AV, Riser		Circ Press psi	1700
Total Circ Time	37	AV min DP	9.2	Tot Pres Loss	2704
BU Time , min	22	AV max DC		Press Drop DP	747
Total Strokes	6,257	BU Strokes	3,752	Press Drop An	48

Properties

		1	2	Hyd 3	4
Source		Pit 6	Flow Line	Flow Line	
Time		15:00	22:00	23:59	
Depth	m	1,126	1,310	0	
FL Temp	Deg C	26	37	37	
Density @ Deg C	SG	1.120 @ 26	1.130 @ 37	1.130 @ 37	
FV @ Deg C	sec/qt	49 @ 26	48 @ 37	48 @ 37	
PV @ Deg C	cP	11 @ 26	11 @ 26	11 @ 26	
YP	lbs/100 ft2	17	26	26	
GELS	lbs/100 ft2	8/9/9	10/14/16	10/14/16	
600/300		39.0/28.0	48.0/37.0	48.0/37.0	
200/100		24.0/18.0	32.0/25.0	32.0/25.0	
6/3		9.0/7.0	12.0/10.0	12.0/10.0	
API Filt	ml/30 min	6.0	5.8	5.8	
HTHP @ Deg C	ml/30 min	8.5 @ 121	8.3 @ 121	8.3 @ 121	
Cake API/HTHP	32nd in	1/2	1/2	1/2	
Corr Solid	% by Vol	2.7	2.7	2.6	
NAP/Water	% by Vol	-/94.0	-/94.0	-/94.0	
Sand	% by vol		0.10	0.10	
MBT	ppb Eq.		2.5	2.5	
pH @ Deg C		9.00 @ 26	8.50 @ 26	8.50 @ 26	
ALK Mud	Pm	0.24	0.10	0.10	
ALK Filt	Pf/Mf	0.26/1.00	0.12/1.10	0.12/1.10	
Chlorides	mg/l	40,000	40,000	41,000	
Tot. Hardness	mg/l	400	600	600	
LGS/HGS	% by Vol	1.0/1.7	0.4/2.3	0.3/2.4	
LGS/HGS	ppb	8.99/25.34	3.29/34.54	2.46/34.63	
ASG	SG	3.617	3.987	4.035	
Additional Properties					
KCL %	% by vol	8.0	8.0	8.2	
Potassium Ion	mg/l	44,000	44,000	44,100	

Targets / Program

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

Drill out cement with seawater, dumping returns overboard.

Pre-treated KCL/Polymer mud, for cement contamination. Pumped 50bbls HIVis and displaced hole with 550 bbls mud, while drilling float.

Built 40 bbls LCM pill, 20ppb sized calcium carbonate. Treated active system with Barazan D to maintain rheology as PHPA sheared. Added Circal 60/16 and Circal Y, at 5ppb each to active at 1380m prior to entering the Latrobe Group to prevent seepage losses.

Rig Activity

Continue to drill out cement from 468m to 1103m. Drill out cement plugs and float from 1103m to 1104m. Displace well to 9.4ppg WBM. Continue to drill shoe track and 3m new formation to 1126m. Perform FIT with 9.4ppg mud to 750psi @1035m, EMW 13.65ppg. Commence drilling 12 1/4" hole from 1126m to 1392m as per D/D's instructions, survey every stand.

Product Name	Units	Start	Rec	Used	End	Cost
barite	1000 kg bulk	147.800		5.370	142.430	$2,550.11
BARAZAN D PLUS	25 kg bag	62		6	56	$913.44
EZ-MUD	25 kg pail	70		6	64	$514.98
Circal 60/16	25 kg sack	170		21	149	$212.73
sodium bicarbonate	25 kg bag	48		10	38	$125.50
Circal Y	25 kg sack	96		6	90	$76.80
Omyacarb 5	25 kg bulk	96.000		6.000	90.000	$56.34
BARABLOK	50 lb bag	124			124	
Baracide	25 kg can	7			7	
BARACOR 100	25 kg sack	32			32	
BARA-DEFOAM W300	5 gal can	1			1	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	53			53	
caustic soda	25 kg pail	78			78	
CLAYSEAL PLUS	216 kg drum	25			25	
DEXTRID LTE	25 kg sack	12			12	
EZ SPOT	55 gal drum	8			8	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	86			86	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
PAC-L	25 kg bag	66			66	
potassium chloride	1000 kg bag	16			16	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	51			51	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	89	24.0
VSM-300	145	24.0
VSM-300	89	24.0
VSM-300	255	24.0

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	8.5
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	15.5
Total	24.0
Rotating	8.5
ROP	32.6
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus	522.8	Base		Fluid Dumped	
Pipe Cap	89.1	Drill Water		Transferred	
Active Pits	260.0	Dewatering		SCE	-68.2
Total Hole	611.9	Sea Water		Evaporation	
Total Circ	871.9	Whole Mud		Trips	
Reserve	843.0	Barite	8.0	Other	-20.0
Prev Vol	3101.6	Chemicals	4.1	Total Surface	
Net Change	-76.0	Other		Downhole	
Total Vol	1714.9	Total	12.2	Total Losses	-88.2

Fluid Types

	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Daily Products Cost	$4,449.90	Total Daily Cost	$4,449.90
Cumulative Products Cost	$86,949.83	Total Cumulative Cost	$86,949.83

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 011

Daily Drilling Fluid Report

Date 05/04/2008		Depth 1,810.0 m	
Spud Date 04/24/2008		Rig Activity Drilling	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	12.250 in
Make/Type	HYCALOG/RSX 616M
Jets	3x15|3x16
TFA	1.107 sq-in
Jets Velocity	92.8 m/sec
Jet Impact Force	1607.3 lbf
Bit HHSI	4.18 hhp/in2
Press Drop @ Bit	801 psi
Bit Depth	1,810.0 m
ECD @ Csg Shoe	1.189 SG
ECD @ Bit	1.190 SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.670	1,636.7
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.000	2.875	38.4
Motor	9.250	0.000	22.0
Open Hole	12.250		693.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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	90		90		0		
gpm|bbl/min	527	12.54	527	12.54			
Total GPM	1,053	AV, Riser			Circ Press psi	2010	
Total Circ Time	47	AV min DP	9.7		Tot Pres Loss	3125	
BU Time , min	29	AV max DC	91.4		Press Drop DP	992	
Total Strokes	8,453	BU Strokes	5,263		Press Drop An	72	

Properties		1	2	Hyd 3	4
Source		Flow Line	Flow Line	Flow Line	
Time		5:00	13:30	22:00	
Depth	m	1,533	1,694	1,810	
FL Temp	Deg C	39	38	39	
Density @ Deg C	SG	1.160 @ 37	1.150 @ 28	1.160 @ 37	
FV @ Deg C	sec/qt	46 @ 37	49 @ 28	44 @ 37	
PV @ Deg C	cP	11 @ 26	11 @ 26	10 @ 26	
YP	lbs/100 ft2	26	26	25	
GELS	lbs/100 ft2	10/14/16	11/15/17	10/14/16	
600/300		48.0/37.0	48.0/37.0	45.0/35.0	
200/100		32.0/25.0	33.0/25.0	30.0/23.0	
6/3		12.0/10.0	13.0/11.0	12.0/10.0	
API Filt	ml/30 min	5.8	6.0	5.8	
HTHP @ Deg C	ml/30 min	8.3 @ 121	8.5 @ 121	8.3 @ 121	
Cake API/HTHP	32nd in	1/2	1/2	1/2	
Corr Solid	% by Vol	4.9	5.1	5.1	
NAP/Water	% by Vol	-/92.0	-/92.0	-/92.0	
Sand	% by vol	0.50	1.00	1.00	
MBT	ppb Eq.	2.5	4.5	4.5	
pH @ Deg C		9.00 @ 26	8.80 @ 26	9.00 @ 26	
ALK Mud	Pm	0.15	0.20	0.20	
ALK Filt	Pf/Mf	0.14/0.90	0.15/1.50	0.15/1.40	
Chlorides	mg/l	39,000	36,000	36,000	
Tot. Hardness	mg/l	800	260	280	
LGS/HGS	% by Vol	2.6/2.2	3.5/1.6	2.9/2.2	
LGS/HGS	ppb	24.14/32.55	32.23/23.11	26.54/32.31	
ASG	SG	3.328	3.092	3.288	
Additional Properties					
KCL %	% by vol	8.0	7.5	7.5	
Potassium Ion	mg/l	44,000	40,000	40,000	

Targets / Program

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

Continued to add sized calcium carbonate to active, for minimized seepage losses.

Treated active with 0.5 ppb Soda Ash to reduce hardness, 1.3 ppb Barablok to maintain concentration and 25 kg Baracor 129 per 8 hrs.

Prepared 400bbl KCl/Polymer premix to maintain volume and mud properties.

Rig Activity

Continue to drill 12 1/4" hole from 1392m to 1810m. Circulate hole clean and condition mud. Flowcheck and POOH for logging.

Product Name	Units	Start	Rec	Used	End	Cost
CLAYSEAL PLUS	216 kg drum	25		5	20	$4,783.20
potassium chloride	1000 kg bag	16		7	9	$3,090.22
BARABLOK	50 lb bag	124		64	60	$1,944.96
BARAZAN D PLUS	25 kg bag	56		11	45	$1,674.64
barite	1000 kg bulk	142.430		3.470	138.960	$1,647.83
EZ-MUD	25 kg pail	64	64	18	110	$1,544.94
PAC-L	25 kg bag	66		11	55	$900.57
Circal 60/16	25 kg sack	149		69	80	$698.97
DEXTRID LTE	25 kg sack	12	72	16	68	$648.96
BARA-DEFOAM W300	5 gal can	1		1		$616.88
Circal Y	25 kg sack	90		48	42	$614.40
soda ash	25 kg bag	51		28	23	$371.00
Baracide	25 kg can	7		3	4	$262.11
BARACOR 100	25 kg sack	32		4	28	$110.00
caustic soda	25 kg pail	78		2	76	$88.38
calcium chloride flake 77%	25 kg bag	53		4	49	$55.28
sodium bicarbonate	25 kg bag	38		2	36	$25.10
lime	20 kg bag	86		2	84	$13.10
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
citric acid	25 kg bag		40		40	
EZ SPOT	55 gal drum	8			8	
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	90.000			90.000	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
sodium sulfite	25 kg bag	32			32	

Solids Control Equipment

Shaker	Screens	Hrs
VSM-300	255	22.0
VSM-300	145	22.0
VSM-300	255	22.0
VSM-300	255	22.0

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	19.0
Circulating	3.0
Trips	2.0
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	
Total	24.0
Rotating	19.0
ROP	21.6
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus	733.4	Base		Fluid Dumped	
Pipe Cap	117.5	Drill Water	363.7	Transferred	
Active Pits	327.0	Dewatering		SCE	-167.4
Total Hole	850.9	Sea Water		Evaporation	
Total Circ	1177.9	Whole Mud		Trips	
Reserve	748.0	Barite	5.2	Other	-28.0
Prev Vol	1772.4	Chemicals	54.1	Total Surface	
Net Change	153.6	Other		Downhole	-74.0
Total Vol	1925.9	Total	423.0	Total Losses	-269.4

Fluid Types

	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Daily Products Cost	$19,090.54	Total Daily Cost	$19,090.54
Cumulative Products Cost	$106,040.38	Total Cumulative Cost	$106,040.38

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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 012

Daily Drilling Fluid Report

Date 05/05/2008		Depth 1,810.0 m	
Spud Date 04/24/2008		Rig Activity Wire Line logs	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000 @		122.0	Model	Nat -14-P-220	Nat -14-P-220	Nat -14-P-220
Make/Type					13.375 @		1,117.0	Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	97	97	97
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.139
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	Open Hole	12.250	693.0				Total Circ Time		AV min DP	Tot Pres Loss
ECD @ Csg Shoe	SG							BU Time , min		AV max DC	Press Drop DP
ECD @ Bit	SG							Total Strokes		BU Strokes	Press Drop An

Properties		1	2	3	4	Targets	Program
Source		Pit 6	Pit 6				
Time		20:00	2:00				
Depth	m	1,810	1,810				
FL Temp	Deg C						
Density @ Deg C	SG	1.160 @ 26	1.160 @ 32				
FV @ Deg C	sec/qt	45 @ 26	45 @ 32				
PV @ Deg C	cP	10 @ 26	10 @ 26				
YP	lbs/100 ft2	25	25				
GELS	lbs/100 ft2	10/14/16	10/14/16				
600/300		45.0/35.0	45.0/35.0				
200/100		32.0/23.0	30.0/23.0				
6/3		12.0/10.0	12.0/10.0				
API Filt	ml/30 min	5.8	5.8				
HTHP @ Deg C	ml/30 min	8.3 @ 121	8.3 @ 121				
Cake API/HTHP	32nd in	1/2	1/2				
Corr Solid	% by Vol	5.1	5.1				
NAP/Water	% by Vol	-/92.0	-/92.0				
Sand	% by vol	0.80	0.80				
MBT	ppb Eq.	4.0	4.0				
pH @ Deg C		9.00 @ 26	9.00 @ 26				
ALK Mud	Pm	0.20	0.20				
ALK Filt	Pf/Mf	0.15/1.40	0.15/1.40				
Chlorides	mg/l	36,000	36,000				
Tot. Hardness	mg/l	280	280				
LGS/HGS	% by Vol	2.9/2.2	2.9/2.2				
LGS/HGS	ppb	26.54/32.31	26.54/32.31				
ASG	SG	3.288	3.288				
Additional Properties							
KCL %	% by vol	7.5	7.5				
Potassium Ion	mg/l	40,000	40,000				

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

Losses on trip out of hole 1 bbl.

Dump and clean sand trap #1 and clean shaker trays.

Rig Activity

Continue to POOH for logging. Lay out 12 1/4" BHA. Hold JSA meeting, rig up Schlumberger wireline. Run wireline logs as per program.

Product Name	Units	Start	Rec	Used	End	Cost
BARABLOK	50 lb bag	60			60	
Baracide	25 kg can	4			4	
BARACOR 100	25 kg sack	28			28	
BARAZAN D PLUS	25 kg bag	45			45	
barite	1000 kg bulk	138.960			138.960	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	49			49	
caustic soda	25 kg pail	76			76	
Circal 60/16	25 kg sack	80			80	
Circal Y	25 kg sack	42			42	
citric acid	25 kg bag	40			40	
CLAYSEAL PLUS	216 kg drum	20			20	
DEXTRID LTE	25 kg sack	68			68	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	110			110	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	84			84	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	90.000			90.000	
PAC-L	25 kg bag	55			55	
potassium chloride	1000 kg bag	9			9	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	23			23	
sodium bicarbonate	25 kg bag	36			36	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

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 KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	320.0	Dewatering		SCE	-40.0
Total Hole	928.3	Sea Water		Evaporation	
Total Circ	320.0	Whole Mud		Trips	
Reserve	637.0	Barite		Other	
Prev Vol	1925.9	Chemicals		Total Surface	
Net Change	-40.6	Other		Downhole	-0.6
Total Vol	1885.3	Total		Total Losses	-40.6

Fluid Types Vol bbl

Prehydrated Bentonite 1248.0

Deviation Information

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

Daily Products Cost	$0.00	Total Daily Cost	$0.00
Cumulative Products Cost	$106,040.38	Total Cumulative Cost	$106,040.38

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

Baroid Fluid Services

Report No 013

Daily Drilling Fluid Report

Date 05/06/2008		Depth 1,810.0 m	
Spud Date 04/24/2008		Rig Activity Tripping	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	12.250 in
Make/Type	HYCALOG/RSX 616M
Jets	3x15|3x16
TFA	1.107 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	1,565.0 m
ECD @ Csg Shoe	SG
ECD @ Bit	SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.500	4.670	1,391.7
Drill Pipe	5.000	3.000	112.8
Drill Collar	8.000	2.875	38.4
Motor	9.250	0.000	22.0
Open Hole	12.250		693.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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		3:00	14:00				
Depth	m	1,810	1,810				
FL Temp	Deg C						
Density @ Deg C	SG	1.160 @ 23	1.160 @ 23				
FV @ Deg C	sec/qt	46 @ 23	46 @ 23				
PV @ Deg C	cP	10 @ 26	10 @ 49				
YP	lbs/100 ft2	25	24				
GELS	lbs/100 ft2	10/14/16	10/14/16				
600/300		45.0/35.0	44.0/34.0				
200/100		32.0/23.0	32.0/23.0				
6/3		12.0/10.0	12.0/10.0				
API Filt	ml/30 min	5.8	5.8				
HTHP @ Deg C	ml/30 min	8.3 @ 121	8.3 @ 121				
Cake API/HTHP	32nd in	1/2	1/2				
Corr Solid	% by Vol	5.1	5.1				
NAP/Water	% by Vol	-/92.0	-/92.0				
Sand	% by vol	0.80	0.75				
MBT	ppb Eq.	4.0	4.0				
pH @ Deg C		9.00 @ 26	9.00 @ 23				
ALK Mud	Pm	0.20	0.20				
ALK Filt	Pf/Mf	0.15/1.40	0.15/1.40				
Chlorides	mg/l	36,000	36,000				
Tot. Hardness	mg/l	280	280				
LGS/HGS	% by Vol	2.9/2.2	2.9/2.2				
LGS/HGS	ppb	26.54/32.31	26.54/32.31				
ASG	SG	3.288	3.288				
Additional Properties							
KCL %	% by vol	7.5	7.5				
Potassium Ion	mg/l	40,000	40,000				

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

Continue cleaning shaker beds and first sand trap.

Rig Activity

Continue running wireline logs as per program.
MDT-Gamma Ray and POOH to run MFCT.
Problem with tool - POOH and clear cuttings lodged in tool.
RIH with MFCT string re-run and POOH then rig down wireline.
Make up and RIH with Mule Shoe for P& A to 1565m at midnight.

Product Name	Units	Start	Rec	Used	End	Cost
BARABLOK	50 lb bag	60			60	
Baracide	25 kg can	4			4	
BARACOR 100	25 kg sack	28			28	
BARAZAN D PLUS	25 kg bag	45			45	
barite	1000 kg bulk	138.960			138.960	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	49			49	
caustic soda	25 kg pail	76			76	
Circal 60/16	25 kg sack	80			80	
Circal Y	25 kg sack	42			42	
citric acid	25 kg bag	40			40	
CLAYSEAL PLUS	216 kg drum	20			20	
DEXTRID LTE	25 kg sack	68			68	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	110			110	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	84			84	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	90.000			90.000	
PAC-L	25 kg bag	55			55	
potassium chloride	1000 kg bag	9			9	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	23			23	
sodium bicarbonate	25 kg bag	36			36	
sodium sulfite	25 kg bag	32			32	
STEELSEAL	25 kg sack	180			180	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	3.5
Rig	1.0
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	19.0
Dir Work	
Repair	
Other	0.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus	641.9	Base		Fluid Dumped	
Pipe Cap	100.5	Drill Water		Transferred	
Active Pits	305.0	Dewatering		SCE	
Total Hole	859.6	Sea Water		Evaporation	
Total Circ	1047.5	Whole Mud		Trips	
Reserve	653.0	Barite		Other	-67.6
Prev Vol	1885.3	Chemicals		Total Surface	
Net Change	-67.6	Other		Downhole	
Total Vol	1817.6	Total		Total Losses	-67.6

Fluid Types	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Daily Products Cost	$0.00	Total Daily Cost	$0.00
Cumulative Products Cost	$106,040.38	Total Cumulative Cost	$106,040.38

Baroid Representatives	Brian Auckram	Eugene Edwards	
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

Baroid Fluid Services

Report No 014

Daily Drilling Fluid Report

Date 05/07/2008		Depth 1,810.0 m	
Spud Date 04/24/2008		Rig Activity Wait on cement	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information

Bit Size	12.250 in
Make/Type	HYCALOG/RSX 616M
Jets	3x15|3x16
TFA	1.107 sq-in
Jets Velocity	m/sec
Jet Impact Force	lbf
Bit HHSI	hhp/in2
Press Drop @ Bit	psi
Bit Depth	130.0 m
ECD @ Csg Shoe	SG
ECD @ Bit	SG

Drill String (in) / (m)

	OD	ID	Length
Drill Pipe	5.000	3.000	69.5
Drill Collar	8.000	2.875	38.4
Motor	9.250	0.000	22.0
Open Hole	12.250		693.0

in Casing m

OD	Set	MD
30.000	@	122.0
13.375	@	1,117.0

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
Source		Pit 6			
Time		23:59			
Depth	m	1,810			
FL Temp	Deg C				
Density @ Deg C	SG	1.160			
FV @ Deg C	sec/qt	46 @ 23			
PV @ Deg C	cP	10 @ 49			
YP	lbs/100 ft2	25			
GELS	lbs/100 ft2	10/14/16			
600/300		45.0/35.0			
200/100		32.0/23.0			
6/3		12.0/10.0			
API Filt	ml/30 min	5.8			
HTHP @ Deg C	ml/30 min				
Cake API/HTHP	32nd in	1/-			
Corr Solid	% by Vol	5.1			
NAP/Water	% by Vol	-/92.0			
Sand	% by vol	0.25			
MBT	ppb Eq.	5.0			
pH @ Deg C		11.00 @ 23			
ALK Mud	Pm	1.20			
ALK Filt	Pf/Mf	0.20/1.40			
Chlorides	mg/l	36,000			
Tot. Hardness	mg/l	960			
LGS/HGS	% by Vol	2.9/2.2			
LGS/HGS	ppb	26.54/32.31			
ASG	SG	3.288			
Additional Properties					
KCL %	% by vol	7.5			
Potassium Ion	mg/l	40,000			

Targets

Program

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

Dump 200 bbls contaminated mud / cement while displaceing cement plug #1A.
Drilling fluid contaminated with cement. pH 10-11, hardness 960. However, mud weight constant at 9.6-9.7 ppg.

No cement returns to surface on cement plug #1B or #2.

Rig Activity

Continue to RIH to 1770m then make up top drive and wash to 1771m. Rig up and pump cement Plug 1A then displace and POOH to 1633m. Make up Top Drive and circulate bottoms up, dumping cement contaminated mud at surface. Rig up cement lines and pump Plug 1B and displace then POOH to to 1416m and circulate 1 1/2 times bottoms up. Lay out from 1417m to 1238m then RIH and tag top of Plug 1B at 1490m.
POOH to 1238m and spotting 50bbl Hi Visc pill to 1149m. Set Plug 2 from 1149m to 1030m and POOH to 942m then circulate 1 1/2 times bottoms up.

Product Name	Units	Start	Rec	Used	End	Cost
BARAZAN D PLUS	25 kg bag	45		8	37	$1,217.92
CLAYSEAL PLUS	216 kg drum	20		1	19	$956.64
caustic soda	25 kg pail	76		13	63	$574.47
Circal 60/16	25 kg sack	80		20	60	$202.60
sodium sulfite	25 kg bag	32	28	4	24	$110.00
Amodrill 1235	1500 l drum		2		2	
BARABLOK	50 lb bag	60			60	
Baracide	25 kg can	4			4	
BARACOR 100	25 kg sack	28				
BARACOR 100	55 gal drum		4		4	
barite	1000 kg bulk	138.960			138.960	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	49			49	
Circal Y	25 kg sack	42			42	
citric acid	25 kg bag	40			40	
CON DET	55 gal drum		8		8	
DEXTRID LTE	25 kg sack	68			68	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	110			110	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	84			84	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	90.000			90.000	
PAC-L	25 kg bag	55			55	
potassium chloride	1000 kg bag	9			9	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	

Daily Products Cost	$3,061.63	Total Daily Cost	$3,061.63
Cumulative Products Cost	$109,102.01	Total Cumulative Cost	$109,102.01

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	3.0
Trips	12.5
Rig	
Surveys	
Fishing	
Run Casing	6.0
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	2.5
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown — KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus	92.4	Base		Fluid Dumped	
Pipe Cap	3.0	Drill Water		Transferred	
Active Pits	305.0	Dewatering		SCE	
Total Hole	911.7	Sea Water		Evaporation	
Total Circ	400.4	Whole Mud	247.3	Trips	
Reserve	653.0	Barite		Other	-200.0
Prev Vol	1817.6	Chemicals	4.7	Total Surface	
Net Change	52.0	Other		Downhole	
Total Vol	1869.7	Total	252.0	Total Losses	-200.0

Fluid Types	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Baroid Representatives	Brian Auckram	Eugene Edwards	
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

Baroid Fluid Services

Report No 015

Daily Drilling Fluid Report

Date 05/08/2008		Depth 1,810.0 m	
Spud Date 04/24/2008		Rig Activity P & A	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000 @		122.0	Model	Nat -14-P-220	Nat -14-P-220	Nat -14-P-220
Make/Type					13.375 @		1,117.0	Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	97	97	97
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.139
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	Open Hole 12.250		693.0				Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	SG							BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	SG							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source		Flow Line					
Time		23:59					
Depth	m	1,810					
FL Temp	Deg C						
Density @ Deg C	SG	1.160					
FV @ Deg C	sec/qt	46 @ 23					
PV @ Deg C	cP	10 @ 49					
YP	lbs/100 ft2	25					
GELS	lbs/100 ft2	10/14/16					
600/300		45.0/35.0					
200/100		32.0/23.0					
6/3		12.0/10.0					
API Filt	ml/30 min	5.8					
HTHP @ Deg C	ml/30 min						
Cake (API/HTHP)	32nd in	1/-					
Corr Solid	% by Vol	5.1					
NAP/Water	% by Vol	-/92.0					
Sand	% by vol						
MBT	ppb Eq.	5.0					
pH @ Deg C		11.00 @ 23					
ALK Mud	Pm	1.20					
ALK Filt	Pf/Mf	0.20/1.40					
Chlorides	mg/l	36,000					
Tot. Hardness	mg/l	960					
LGS/HGS	% by Vol	2.9/2.2					
LGS/HGS	ppb	26.54/32.31					
ASG	SG	3.288					
Additional Properties							
KCL %	% by vol	7.5					
Potassium Ion	mg/l	40,000					

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

None. preparing to move to new well.

Rig Activity

POOH from 207m to 130m and reverse circulate, displacing mud to seawater and dumping contaminated returns. Pick up and lay out diverter then rig down Mandrel, Choke Hose and BOP.

Make up well head retrieval tool, Run In and screw in then retrieve well head to surface. Set Abandonment Cover and retrieve 30".

Product Name	Units	Start	Rec	Used	End	Cost
Amodrill 1235	1500 l drum	2			2	
BARABLOK	50 lb bag	60			60	
Baracide	25 kg can	4			4	
BARACOR 100	55 gal drum	4			4	
BARAZAN D PLUS	25 kg bag	37			37	
barite	1000 kg bulk	138.960			138.960	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	49			49	
caustic soda	25 kg pail	63			63	
Circal 60/16	25 kg sack	60			60	
Circal Y	25 kg sack	42			42	
citric acid	25 kg bag	40			40	
CLAYSEAL PLUS	216 kg drum	19			19	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	68			68	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	110			110	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	84			84	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	90.000			90.000	
PAC-L	25 kg bag	55			55	
potassium chloride	1000 kg bag	9			9	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	23			23	
sodium bicarbonate	25 kg bag	36			36	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	0.5
Trips	1.5
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	22.0
Total	24.0
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits	364.0	Dewatering		SCE	
Total Hole	928.3	Sea Water		Evaporation	
Total Circ	364.0	Whole Mud		Trips	
Reserve	548.0	Barite		Other	-29.3
Prev Vol	1869.7	Chemicals		Total Surface	
Net Change	-29.3	Other		Downhole	
Total Vol	1840.3	Total		Total Losses	-29.3

Fluid Types	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Daily Products Cost		Total Daily Cost	$0.00
Cumulative Products Cost		Total Cumulative Cost	$109,102.01
Baroid Representatives	Brian Auckram	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

HALLIBURTON | Fluid Systems

Baroid Fluid Services

Report No 016

Daily Drilling Fluid Report

Date 05/09/2008		Depth 1.0 m	
Spud Date 04/24/2008		Rig Activity P & A	
Operator 3D Oil ltd	Report For Shaugn Corless	Well Name West Seahorse 3	
Contractor Seadrill	Report For Micheal Barry	Rig Name West Triton	Unit System Apache
Country Australia	State/Province/Region Victoria	Geographic Area/County Bass Straight	Field or Block Vic P57

Bit Information		Drill String (in) / (m) OD	ID	Length	in Casing m OD	Set	MD	Circulation/Hydraulics Data			
Bit Size	in				30.000	@	1.0	Model	Nat -14-P-220	Nat -14-P-220	Nat -14-P-220
Make/Type								Bore in	6.500	6.500	6.500
Jets								Strokes in	14.000	14.000	14.000
TFA	sq-in							Eff(%)	97	97	97
Jets Velocity	m/sec							bbl/strk	0.139	0.139	0.139
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 1,810.0	m							Total Circ Time	AV min DP	Tot Pres Loss	
ECD @ Csg Shoe	SG							BU Time , min	AV max DC	Press Drop DP	
ECD @ Bit	SG							Total Strokes	BU Strokes	Press Drop An	

Properties		1	2	3	4	Targets	Program
Source		Pit 6					
Time		16:00					
Depth	m	1,810					
FL Temp	Deg C						
Density @ Deg C	SG	1.160					
FV @ Deg C	sec/qt	46 @ 23					
PV @ Deg C	cP	10 @ 49					
YP	lbs/100 ft2	25					
GELS	lbs/100 ft2	10/14/16					
600/300		45.0/35.0					
200/100		32.0/23.0					
6/3		12.0/10.0					
API Filt	ml/30 min	5.8					
HTHP @ Deg C	ml/30 min						
Cake API/HTHP	32nd in	1/-					
Corr Solid	% by Vol	5.1					
NAP/Water	% by Vol	-/92.0					
Sand	% by vol						
MBT	ppb Eq.	5.0					
pH @ Deg C		11.00 @ 23					
ALK Mud	Pm	1.20					
ALK Filt	Pf/Mf	0.20/1.40					
Chlorides	mg/l	36,000					
Tot. Hardness	mg/l	969					
LGS/HGS	% by Vol	2.9/2.2					
LGS/HGS	ppb	26.54/32.31					
ASG	SG	3.288					
Additional Properties							
KCL %	% by vol	7.5					
Potassium Ion	mg/l	40,000					

Fluid Treatments

Fluid Type KCl/Polymer/Clayseal

None. Transferring volumes to Wardie-1 well.

Rig Activity

RIH with temporary abandonment cap to 71m. Problem with ROV. POOH with temporary abandonment cap and skid rig to new well (Wardie-1) at 16:30 hours on 9/5/08

Product Name	Units	Start	Rec	Used	End	Cost
barite	1000 kg bulk	138.960		4.960	134.000	$2,355.40
Baracide	25 kg can	4		2	2	$174.74
Amodrill 1235	1500 l drum	2			2	
BARABLOK	50 lb bag	60			60	
BARACOR 100	55 gal drum	4			4	
BARAZAN D PLUS	25 kg bag	37			37	
BAROFIBRE FINE	25 lb bag	50			50	
bentonite	1000 kg bulk	42.000			42.000	
calcium chloride flake 77%	25 kg bag	49			49	
caustic soda	25 kg pail	63			63	
Circal 60/16	25 kg sack	60			60	
Circal Y	25 kg sack	42			42	
citric acid	25 kg bag	40			40	
CLAYSEAL PLUS	216 kg drum	19			19	
CON DET	55 gal drum	8			8	
DEXTRID LTE	25 kg sack	68			68	
EZ SPOT	55 gal drum	8			8	
EZ-MUD	25 kg pail	110			110	
Kwikseal Fine	40 lb bag	38			38	
lime	20 kg bag	84			84	
N-DRIL HT PLUS	50 lb bag	55			55	
NO-SULF	17 kg pail	48			48	
Omyacarb 5	25 kg bulk	90.000			90.000	
PAC-L	25 kg bag	55			55	
potassium chloride	1000 kg bag	9			9	
potassium hydroxide	25 kg bag	77			77	
sapp	25 kg bag	40			40	
soda ash	25 kg bag	23			23	
sodium bicarbonate	25 kg bag	36			36	

Solids Control Equipment

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

Hydrocyclone	Cones	Screens	Hrs
ATL-1600	16 4		

Centrifuge	Speed	Feed Rate	Hrs

Time

Drilling	
Circulating	
Trips	
Rig	
Surveys	
Fishing	
Run Casing	
Coring	
Reaming	
Testing	
Logging	
Dir Work	
Repair	
Other	16.5
Total	16.5
Rotating	
ROP	
Dil Rate	0.00

Fluid Volume Breakdown KCl/Polymer/Clayseal

Active	bbl	Additions	bbl	Losses	bbl
Annulus		Base		Fluid Dumped	
Pipe Cap		Drill Water		Transferred	
Active Pits		Dewatering		SCE	
Total Hole	2.7	Sea Water		Evaporation	
Total Circ		Whole Mud		Trips	
Reserve	792.0	Barite	7.4	Other	-1053.3
Prev Vol	1840.3	Chemicals	0.3	Total Surface	
Net Change	-1045.5	Other		Downhole	
Total Vol	794.7	Total	7.8	Total Losses	-1053.3

Fluid Types	Vol bbl
Prehydrated Bentonite	1248.0

Deviation Information

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

Daily Products Cost	$2,530.14	Total Daily Cost	$2,530.14
Cumulative Products Cost	$111,632.15	Total Cumulative Cost	$111,632.15
Baroid Representatives	Brian Auckram	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

HALLIBURTON | Fluid Systems

Attachment 4

Casing Report

Weatherford

TUBULAR RUNNING SERVICES JOB REPORT

GENERAL ADMINISTRATION INFORMATION

CUSTOMER	**ADA - 3D**	RIG	**West Triton**
WELL NAME:	**West Seahorse-3**	WORK ORDER NO.:	**SP019/08**

FIELD OPERATIONS CHECKLIST

NOTE: ***ENSURE A SAFE WORKING ENVIRONMENT IS MAINTAINED THROUGHOUT THE JOB. ALL HSE INCIDENTS AND ACCIDENTS MUST BE REPORTED IMMEDIATELY TO THE RIG MEDIC AND THE WELL-SITE MANAGER INFORMED AS SOON AS POSSIBLE.***

IMPORTANT FOR ALL WELLS!	Tick (x) when done
1. WSM has signed this checklist and a copy is attached to the Service Ticket and passed to town.	x

HEALTH, SAFETY, ENVIRONMENT & QUALITY	Tick (x) when done
1. All HSE incidents and accidents are reported immediately to the rig medic, Well-Site Manager (WSM) and other personnel as required informed as soon as possible. (Enter N/A if no incidents)	x
2. Personnel to comply with all rig specific safety initiatives and directives e.g. mandatory attendance at safety meetings.	x
3. Copy of Checksheet left with WSM. *(Woodside only - Key Performance Indicator (KPI) form is completed, reviewed and a copy left with WSM.)*	x

PRE-OPERATIONAL CHECKS	Tick (x) when done
1. Confirmation of *job details* are obtained on site.	x
2. Participation in Pre-Job Toolbox Talk (JSA).	x
3. Unloading of containers is done safely.	x
4. Confirmation of *equipment* shipped is obtained.	x
5. Confirmation of Rig Owned *equipment* available is obtained.	x
6. All *equipment* is visually inspected for damage in accordance with procedures.	x
7. If required, a Permit to Work is approved and the terms and conditions understood.	x
8. All *equipment* shipped (and rig owned as required for the operation) is function tested as per relevant procedures. Ensure all parts are free moving and suitably lubricated.	x
9. The size of the safety clamp is checked and if necessary, adjusted.	x
10. If supplied, the Stab-in Guide and Thread Protectors are checked and adjusted.	x
11. *Power tongs* are dressed for *tubular goods* outside diameter	x
12. *Power Unit* Safety shut down devices are tested.	x
13. *Power Tong* Safety Interlock is tested.	x
14. Ensure correct dies are fitted to Hand Slips,Elevators and Slip Inserts.	x
15. Permission is requested and obtained before entry into the derrick.	x
16. Derrick signals are established.	x
17. Inspection and testing of *Stabbing Board* is done – Pre-Op section of the Stabbing Board Report is completed.	x
18. *Tubular goods* on pipe deck are inspected for type and condition.	x
19. Ensure that all necessary *ancillary items* are available. If quantity getting low inform Materials Representative.	x
20. Inspect drill-floor and perform preparatory work.	x
21. Ensure ALL *safety wires* for Flagging Devices, Wheels and Retainers are installed and in good servicable order replace as necessary.	x
22. *Appropriate remedial action* is taken if shortages, omissions, damage, or incompatibilities are identified.	x
23. *Difficulties in carrying out instructions* in accordance with company and customer *policies, procedures and legislation* are clarified with the person in charge.	x

TORQUE FIGURES (Company Rep's Approval Required) — Tick (x) when done

				FT/LBS				Turns Program		
Pipe Size	**Type**	**Weight**	**Grade**	Shoulder Torque	Minimum Torque	Optimum Torque	Maximum Torque	Min	Max	**Company Rep's Signiture**
13 3/8	Buttress	68ppf	L 80	0	0		0	0.0	0.0	
30	D60/MT	0.00	0	0	0	30,000	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	
0	0	0.00	0	0	0	0	0	0.0	0.0	

Confirmation NOT to run a no-cross coupling (Company Rep's Approval Required) — Tick (x) when done

Company Rep's Signiture

Type of Housing:

DRIFT PARAMETERS (Drift Requirements of Tubing and Casing) — Tick (x) when done

				Required Drift OD		Actual Drift OD		Special Drift Requirement		
Pipe Size	**Type**	**Weight**	**Grade**	OD	ASAS	OD	ASAS	OD	ASAS	**Company Rep's Signiture**
13 3/8	Buttress	68ppf	L 80	**0**		**0**	0			
0	0	0.00	0	**0**		**0**	0			
0	0	0.00	0			**0**	0			
0	0	0.00	0	**0**	0	**0**	0			
0	0	0.00	0	**0**	0	**0**	0			
0	0	0.00	0	**0**	0	**0**	0			

GENERAL ADMINISTRATION INFORMATION

CUSTOMER	**ADA - 3D**	RIG	**West Triton**
WELL NAME:	**West Seahorse-3**	WORK ORDER NO.:	**SP019/08**

FIELD OPERATIONS CHECKLIST

RIG UP	Tick (x) when done
1. *Power Unit* is a sited in a safe position.	x
2. If used, *JAM system* is sited in a safe position.	x
3. Hydraulic hoses are safely routed and do not pose a tripping hazard.	x
4. Airlines have 'R' clips and/or Whip-lines fitted.	x
5. *Equipment* is transported safely to the drill-floor.	x
6. The position of *equipment* during operation is agreed and used.	x
7. The *Power Tong* hanger spring and lift ram are attached securely to tong.	x
8. The *Power Tong* is securely and safely suspended.	xx
9. The Torque gauge assembly is fitted to tong with the damper open (If not using JAM)	xx
10. A correctly rated tong snub line is selected.	x
11. The Elevator is installed to the travelling block bails safely.	x
12. Suspend Single Joint Elevator from travelling block, if required.	x
13. Emergency exits are kept clear of obstacles.	x
14. *Difficulties in carrying out instructions* in accordance with company and customer *policies, procedures and legislation* are clarified with the person in charge.	x

OPERATION	Tick (x) when done
1. *Power Unit* started and correct working pressure selected.	x
2. *Equipment* is used as per relevant procedures and work instructions.	x
3. *Tubular goods* are handled, made up and broken out to Client requirements.	x
4. Thorough crew-change hand over is done.	x
5. Participation in Pre-Job/Tour Toolbox Talk.	x
6. *Difficulties in carrying out instructions* in accordance with company and customer *policies, procedures and legislation* are clarified with the person in charge.	x

RIG DOWN	Tick (x) when done
1. Permission obtained from Client Representative to rig down.	x
2. Method of rig down agreed with driller.	x
3. *Power Tong* Lift Ram is retracted, if fitted.	x
4. *Power Unit* shut down.	x
5. *Power Tong* lowered safely to the floor.	x
6. Hydraulic hoses disconnected.	x
7. Hanging line and snub line removed.	x
8. Torque gauge assembly removed, damper closed and stored in basket.	x
9. If used, *JAM system* cables disconnected and JAM equipment stored in container.	x
10. Jaws, lift ram, hanger spring removed and stored in basket.	x
11. Handling *equipment* rigged down.	x
12. Arrange for *equipment* to be removed from the floor.	x
13. Return the work site to normal condition.	x

POST OPERATIONAL CHECKS	Tick (x) when done
1. If required, Permit to Work closed off.	x
2. All *equipment* assembled in a safe area.	x
3. All *equipment* cleaned.	x
4. Repairs carried out if *equipment* to remain onboard.	x
5. Bare metal areas protected from corrosion and all points greased.	x
6. Re-pack *equipment* in containers and fit covers (assist deck crew if crane required).	x
7. Hydraulic hoses coiled back in *power unit* .	x
8. *Equipment* prepared for back-load.	x
9. All *relevant paperwork* completed.	x
10. Feedback invited from the Client.	x

PLEASE COMMENT IF PROBLEMS MET IN COMPLYING WITH ANY ASPECT OF THE CHECKLIST

Weatherford Representative:	**Date**	**Signed:**

Contractor Representative:	**Date**	**Signed:**

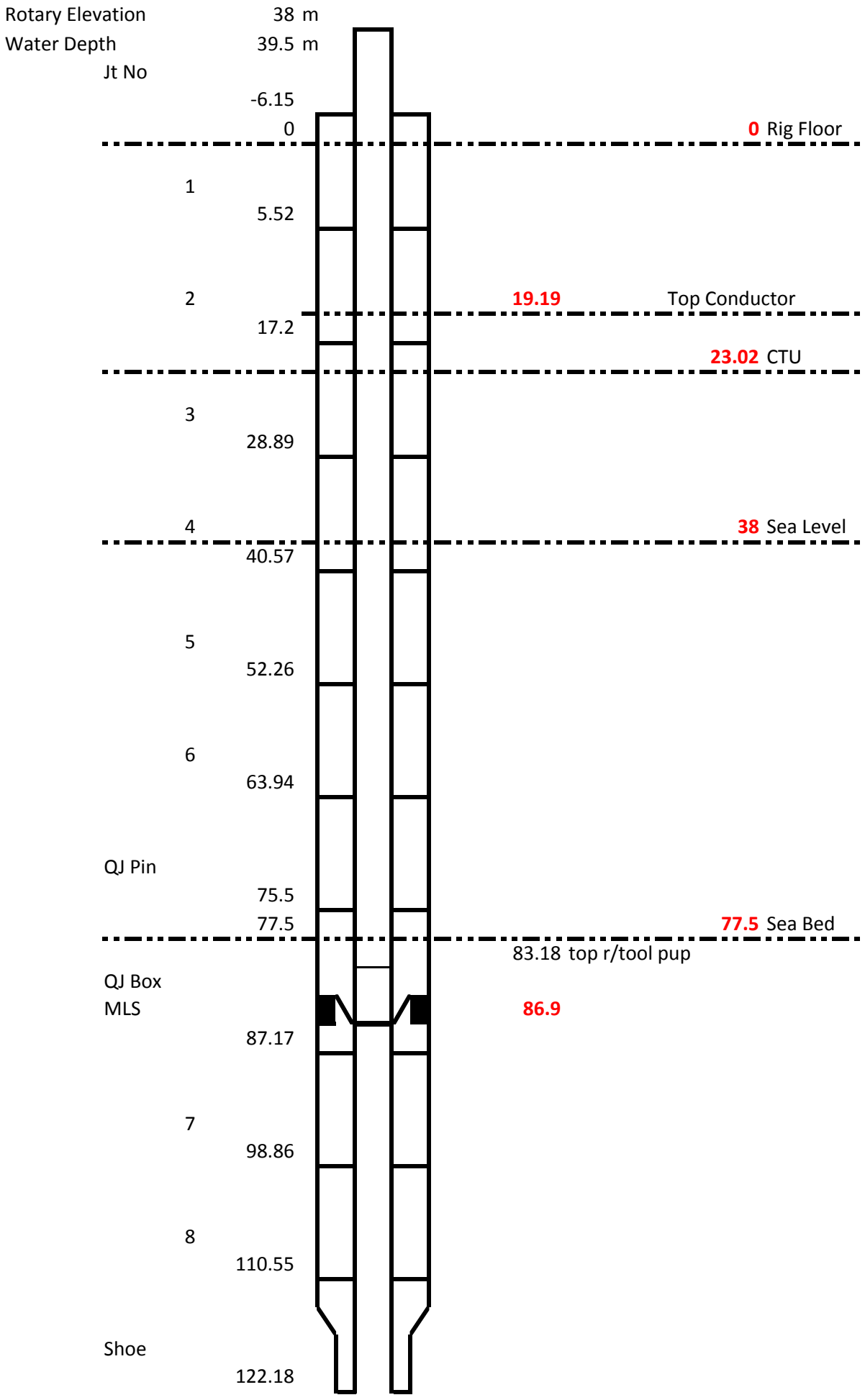
GENERAL ADMINISTRATION INFORMATION

CUSTOMER	**ADA - 3D**	RIG	**West Triton**
WELL NAME:	**West Seahorse-3**	WORK ORDER NO.:	**SP019/08**

FIELD OPERATIONS CHECKLIST

RANGE STATEMENT

Difficulties in carrying out instructions	unclear instructions, imprecise details, lack of information. conflicts with operational procedures.
Appropriate remedial action	rectify, report, repair, replace, adjust.
Job Details	running and handling practices and procedures, Well name, work scope
Equipment	includes but is not limited to Power Tongs, Power Units, Safety Clamps, Stab in Guides, Elevators, Hand Slips, Power Slips, Thread Protectors, Single Joint Compensator (SJE), JAM systems, A-Q-Tork, Centrifugal Dope
Power Unit	Electric, Diesel, Rig Supplied Power.
Power Tongs	includes but is not limited to Weatherford Power Tong models 5.5 complete with Back Up, 7.625 complete with Back Up, Lamb 16/18, Lamb 16/25, 14-50, 24-50, Dual Completion Tong
JAM System	includes but is not limited to JAM 2000 IS, LV-2, XP-1, JAM Pro
JAM equipment	includes but is not limited to Load Cell, Turns counter, cables, dump valve, Remote Control Unit (RCU)
Stabbing Board	includes but is not limited to Rail Mounted Board, Cherry Picker style, Cage fitted to pipe handler.
Ancillary items	Thread Compounds, Centralisers, Stop Collars, Cement Plugs, Darts, TDCH, Solvent, Rags
Tubular goods	Casing, Tubing, Sub Assemblies
Relevant paperwork	WIS operations field reports, Job Tickets, Back Load Lists, Customer specific reports and forms.
Preparatory work	place accessories on rig floor, run hydraulic hoses, ensure correct shackles available, obtain snub lines.
Safety Wire, Safety Slings	Includes retaining wire, safety retaing wire, SJE safety pin wire, elevator bell guide slings, All securing wire whether load rated and certified or not.
Policies, procedures and legislation	company and customer work instructions and procedures, health and safety at work manuals, Occupational Health and Safety at work Acts, PPE.


Rotary Elevation 38 m
Water Depth 39.5 m
Jt No
-6.15
0
0 Rig Floor
1
5.52
2
19.19 Top Conductor
17.2
23.02 CTU
3
28.89
4
38 Sea Level
40.57
5
52.26
6
63.94
QJ Pin
75.5
77.5
77.5 Sea Bed
83.18 top r/tool pup
QJ Box
MLS
86.9
87.17
7
98.86
8
110.55
Shoe
122.18

30" Tally	
Joint No	Length
Shoe	11.63
1	11.67
2	11.68
3	11.69
4	11.68
5	11.69
6	11.68
7	11.69
8	11.69
9	11.67
QJ Pin	11.56
QJ Box	11.67

13-3/8 Deck Tally		
1		11.45
2	11.58	
3	11.69	
4		11.61
5	11.45	
6		11.63
7		11.36
8		11.51
9	11.69	
10	11.65	
	TOTAL	**57.56**

6.06	Length of pipe below wellhead flange
0.36	Adjuster Nut (mid stroke)
3.72	effective length r/tool & pup joint above MLS land off point
10.14	**TOTAL OF FIXED MEASUREMENTS**
19.19	**TOP OF CONCUCTOR BELOW RIG FLOOR (Final Cut)**
57.57	**Length of 13-3/8 Casing required**

Weatherford Australia Pty Ltd
ACN 008 947 395
Level 1, 225 St Georges Terrace
PERTH W.A. 6000
PH: (08) 9212 4600
FAX: (08) 9226 4638

Tubular Running Services
Job Report

Customer: ADA - 3D **Attention:** Neil Hensen

Prepared by: Ryan Ingram
Email: ingram80@hotmail.com

Rig / Installation:	**West Triton**
Drilling Contractor:	**Sea Drill**
Company Rep's (D/N):	**Shaughan Corless** **Rocco**
Completion Eng (D/N) :	
Job Description:	**13 3/8" Casing**
Well Name / No:	**West Seahorse-3**
Area / Permit / Lease :	**Vic-P57**
Weatherford Job No:	**SP019/08**
Job Date:	**22 April 2008**

Tubular Running Services
Job Report

Personnel

Name	Designation	Shift	Departed Base	Departed Date	Return Base	Return Date
Ryan Ingram	CREW CHIEF	DAY	SALE	22/04/08	SALE	
Brendan Northway	CREW CHIEF	NIGHT	SALE	22/04/08	SALE	
Michael Northway	TONG OPERATOR	DAY	SALE	27/04/08	SALE	
Caine Page	TONG OPERATOR	FLEXI	SALE	27/04/08	SALE	
Ally Murray	TONG OPERATOR	DAY	SALE	27/04/08	SALE	

Main Equipment Items

Equipment Description		Serial Number
13 3/8" CMS-XL Hand Slips		702963
Clamp Master		223412
Safety Clamp- Dressed to 13 3/8" & 30":		261092
13 3/8" Single Joint Elevators		229409
13 3/8" Single Joint Elevators Stabberless		261825
4Cly Diesel Power Unit		228571
16K Power Tong		260905
500t ISIS Elevator Dressed 13 3/8"		849365
Varco FMS dressed 13 3/8"		259623
Stabmaster		261803
32" Torque Gauge		CR238
30" Baash Ross Bushings		225343
30" Hand Slips		232705
30" Petel Strap Tongs	229763	229765
30" Side door elevators		702420

Tubular Running Services
Job Report

Tubular Running Services Information

TORQUE PARAMETERS

Pipe No.	Size	Type	Weight ppf	Grade	FT/LBS Shoulder Torque	FT/LBS Minimum Torque	FT/LBS Optimum Torque	FT/LBS Maximum Torque	Turns Program Min	Turns Program Max
1	13 3/8	Buttress	68ppf	L 80			10,000			
2	30	D60/MT					30,000			
3										
4										
5										
6										

RUN / PULL COUNT

Pipe No.	Size	Type	Weight	Grade	Examined	Accepted	Re-Ran	Rejected by JAM	Rejected Visually	Rejected on Pipe Rack
1	13 3/8	Buttress	68ppf	L 80	98	98	0	0	0	2
2	30	D60/MT	0.00	0	11	11	0	0	0	0
3	0	0	0.00	0			0	0	0	0
4	0	0	0.00	0						
5	0	0	0.00	0						
6	0	0	0.00	0						

DRIFT PARAMETERS

Pipe No.	Size.	Type	Weight	Grade	Required Drift OD	Actual Drift OD	Special Drift
					ASAS	**ASAS**	**ASAS**
1	13 3/8	Buttress	68ppf	L 80	-	-	
2							
3	0	0	0.00	0			
4	0	0	0.00	0			
5	0	0	0.00	0			
6	0	0	0.00	0			

General Information 13 3/8" Casing

Pipe ran / pulled in: Singles

Thread Compound: Jet Lube

Pipe Stabbed: Stabberless System

Elevators: Free Swinging

Pipe Condition: OK

Weather: Cold

Centralisation: Yes

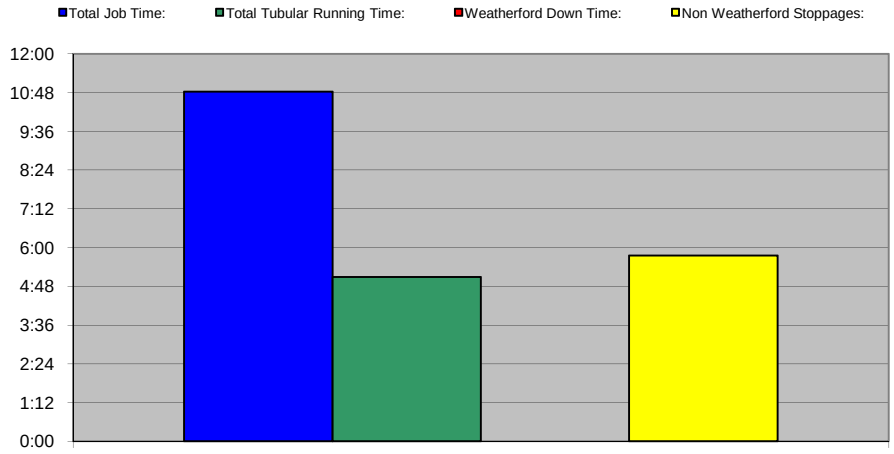
Thread Locking Compound: **Weatherford Tube Lok**

Comments:

TUBULAR RUNNING SERVICES JOB REPORT

Job Time Breakdown

Job Started on:	Thursday, 24 April 2008	Time:	12:00
Job Finished on:	Thursday, 24 April 2008	Time:	22:50
Total Job Time:	10:50	Total Tubular Running Time:	5:05
Weatherford Down Time:	0:00	Non Weatherford Stoppages:	5:45
Average Jnts per Hour:		Non Conformances Reported During Job:	



Comments

Job Time Breakdown

Date: Thursday, 24 April 2008 From	To	Activity	W/Ford Up Time	W/ford Down Time	Time to Other
			00:00		
12:00	12:30	Rig up JSA			00:30
12:30	13:00	Pick up shoe	00:30		
13:00	13:55	Run the first 3 conncetions	00:55		
13:55	14:20	Make up the MLS support	00:25		
14:20	15:05	Continue running in hole	00:45		
15:05	16:10	Wait on rig to get through the CTU			01:05
16:10	17:50	Continue running in hole and make up final joint	01:40		
17:50	22:00	Wait on cement job and casing cut			04:10
22:00	22:50	Break out landing string and rig down.	00:50		
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Date: Friday, 25 April 2008 From	To	Activity	W/Ford Up Time	W/ford Down Time	Time to Other
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Job Time Breakdown

Date: **Saturday, 26 April 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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Date: **Sunday, 27 April 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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Job Time Breakdown

Date: **Monday, 28 April 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
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Date: **Tuesday, 29 April 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
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Job Time Breakdown

Date: **Wednesday, 30 April 2008**

From	To	Activity	W/Ford Up Time	W/ford Down Time	Time to Other
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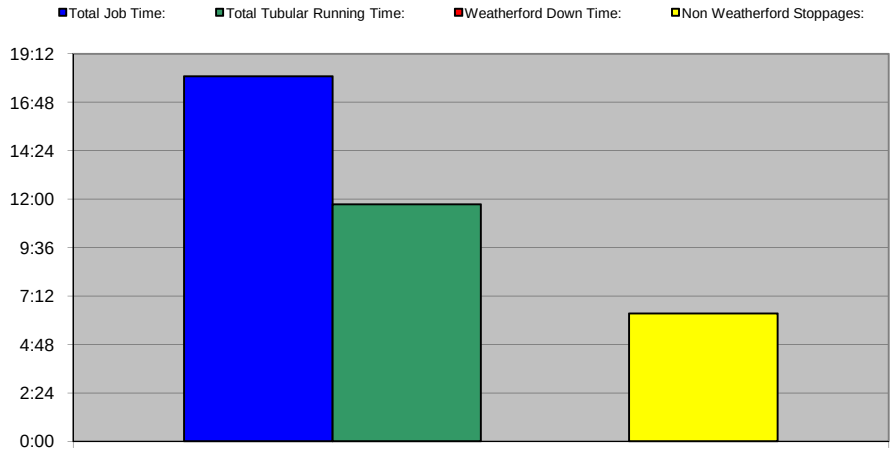
TUBULAR RUNNING SERVICES JOB REPORT

Job Time Breakdown

Job Started on:	Monday, 28 April 2008	Time:	12:00
Job Finished on:	Tuesday, 29 April 2008	Time:	6:00
Total Job Time:	18:05	Total Tubular Running Time:	11:45
Weatherford Down Time:	0:00	Non Weatherford Stoppages:	6:20
Average Jnts per Hour:	9.3	Non Conformances Reported During Job:	



Comments

Job Time Breakdown

Date: **Monday, 28 April 2008**

From	To	Activity	W/Ford Up Time	W/ford Down Time	Time to Other
			00:00		
12:00	12:15	Rig up JSA			00:15
12:15	13:00	Begin Rigging up			00:45
13:00	13:45	Wait on rig to remove diverter ring			00:45
13:45	14:00	Finish rigging up			00:15
14:00	14:15	JSA to run casing			00:15
14:15	14:30	Wait on rig to pickup shoe and flow check			00:15
14:30	14:45	pick up float collar			00:15
14:45	14:55	Make up Float to shoe (Weatherfor tub loc)	0:20		
14:55	15:20	Make up first connection	00:20		
15:20	18:00	C.R.I.H Finish running centralisers	02:40		
18:00	21:50	C.R.I.H	03:50		
21:50	22:20	Stuck in hole circulating down.			00:30
22:20	1:35	C.R.I.H	03:15		
01:35	2:00	Wait on MLS to get to the floor			00:25
02:00	2:05	Make up MLS	00:05		
02:05	2:30	Waiting on pipe			00:25
02:30	3:30	C.R.I.H	01:00		
03:30	5:30	Waiting on rig to change bails and pick up well head			02:00
05:30	5:45	Make up well head	00:15		
05:45	6:00	Rig down			00:15
			00:00		
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Date: **Tuesday, 29 April 2008**

From	To	Activity	W/Ford Up Time	W/ford Down Time	Time to Other
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Job Time Breakdown

Date: **Wednesday, 30 April 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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Date: **Thursday, 1 May 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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Job Time Breakdown

Date: **Friday, 2 May 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
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Date: **Saturday, 3 May 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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Job Time Breakdown

Date: **Sunday, 4 May 2008**			W/Ford Up Time	W/ford Down Time	Time to Other
From	To	Activity			
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West Seahorse-3
13 3/8" CASING TALLY

Australian Drilling Associates Pty Ltd

Casing Data					Well Data		
Size	13.375	in			Base CTU	22.4	m
Grade	N80				Mudline	77.5	m
Weight	101	kg/m	Burst	5020 psi	17.5" TD	1123.0	m
Calipered ID	12.415	in	Nominal ID	12.415 in			m
M/U Loss	0.12	m	Drift ID	12.259 in	Rathole	6.2	m
Thread	BTC						
Internal Capacity	0.4912	bbl/m					

Joint Number	Meas. Length (ft)	Effective Length (ft)	Depth - Top of Joint (ft)	Depth - Bottom of Joint (ft)	Running Depth	Capacity bbls	Comments
Wellhead (above hang off point)	1.50	1.50	17.76	19.26	1099.06		
Wellhead (below hang off point)	1.24	1.24	**19.26**	20.50	1097.56		**Land off point on 30"at 19.20mRT**
X/O	4.45	4.45	20.50	24.95	1096.32		
PUP	1.50	1.500	24.95	26.45	1091.87	536.36	
1	11.24	11.240	26.45	37.69	1090.37	535.63	
4	11.34	11.340	37.69	49.03	1079.13	530.11	
5	11.62	11.620	49.03	60.65	1067.79	524.54	
6	11.34	11.340	60.65	71.99	1056.17	518.83	
7	11.24	11.240	71.99	83.23	1044.83	513.26	
Upper MLS	3.72	3.72	83.23	86.95	1033.59	507.74	
Lower MLS	3.17	3.17	86.95	90.12	1029.87	505.91	**MLS hang-off at 86.95m**
9	10.91	10.91	90.12	101.03	1026.70	504.35	
10	11.30	11.30	101.03	112.33	1015.79	498.99	Centraliser
11	11.56	11.56	112.33	123.89	1004.49	493.44	Centraliser
12	11.24	11.24	123.89	135.13	992.93	487.76	
13	11.59	11.59	135.13	146.72	981.69	482.24	
14	11.43	11.43	146.72	158.15	970.10	476.55	
15	11.76	11.76	158.15	169.91	958.67	470.93	
16	11.31	11.31	169.91	181.22	946.91	465.16	
17	11.55	11.55	181.22	192.77	935.60	459.60	
18	11.62	11.62	192.77	204.39	924.05	453.93	
19	11.45	11.45	204.39	215.84	912.43	448.22	
20	11.70	11.70	215.84	227.54	900.98	442.59	
21	11.57	11.57	227.54	239.11	889.28	436.85	
22	11.66	11.66	239.11	250.77	877.71	431.16	
23	11.32	11.32	250.77	262.09	866.05	425.43	
24	11.10	11.10	262.09	273.19	854.73	419.87	
25	11.07	11.07	273.19	284.26	843.63	414.42	
26	11.80	11.80	284.26	296.06	832.56	408.98	
27	11.57	11.57	296.06	307.63	820.76	403.19	
28	11.27	11.27	307.63	318.90	809.19	397.50	
29	11.50	11.50	318.90	330.40	797.92	391.97	
30	11.57	11.57	330.40	341.97	786.42	386.32	
31	11.45	11.45	341.97	353.42	774.85	380.63	
32	11.68	11.68	353.42	365.10	763.40	375.01	
33	11.65	11.65	365.10	376.75	751.72	369.27	
34	11.08	11.08	376.75	387.83	740.07	363.55	
35	11.58	11.58	387.83	399.41	728.99	358.11	
36	11.27	11.27	399.41	410.68	717.41	352.42	
37	11.20	11.20	410.68	421.88	706.14	346.88	
38	11.50	11.50	421.88	433.38	694.94	341.38	
40	11.34	11.34	433.38	444.72	683.44	335.73	
41	11.57	11.57	444.72	456.29	672.10	330.16	
42	11.70	11.70	456.29	467.99	660.53	324.48	
43	11.42	11.42	467.99	479.41	648.83	318.73	
44	11.55	11.55	479.41	490.96	637.41	313.12	
45	11.69	11.69	490.96	502.65	625.86	307.44	
46	11.12	11.12	502.65	513.77	614.17	301.70	
47	11.36	11.36	513.77	525.13	603.05	296.24	
48	10.81	10.81	525.13	535.94	591.69	290.66	
49	11.73	11.73	535.94	547.67	580.88	285.35	

Joint Number	Meas. Length (ft)	Effective Length (ft)	Depth - Top of Joint (ft)	Depth - Bottom of Joint (ft)	Running Depth	Capacity bbls	Comments
50	11.77	11.77	547.67	559.44	569.15	279.59	
51	11.49	11.49	559.44	570.93	557.38	273.80	
52	11.49	11.49	570.93	582.42	545.89	268.16	
53	11.80	11.80	582.42	594.22	534.40	262.52	
54	11.68	11.68	594.22	605.90	522.60	256.72	
55	11.34	11.34	605.90	617.24	510.92	250.98	
56	10.29	10.29	617.24	627.53	499.58	245.41	
57	11.39	11.39	627.53	638.92	489.29	240.36	
58	10.84	10.84	638.92	649.76	477.90	234.76	
59	11.22	11.22	649.76	660.98	467.06	229.44	
60	11.67	11.67	660.98	672.65	455.84	223.92	
61	11.07	11.07	672.65	683.72	444.17	218.19	
62	11.02	11.02	683.72	694.74	433.10	212.75	
63	11.52	11.52	694.74	706.26	422.08	207.34	
64	11.27	11.27	706.26	717.53	410.56	201.68	
65	11.57	11.57	717.53	729.10	399.29	196.15	
66	11.30	11.30	729.10	740.40	387.72	190.46	
67	11.69	11.69	740.40	752.09	376.42	184.91	
68	11.32	11.32	752.09	763.41	364.73	179.17	
69	11.51	11.51	763.41	774.92	353.41	173.61	
70	11.21	11.21	774.92	786.13	341.90	167.95	
71	11.61	11.61	786.13	797.74	330.69	162.45	
72	11.51	11.51	797.74	809.25	319.08	156.74	
73	11.09	11.09	809.25	820.34	307.57	151.09	
74	11.53	11.53	820.34	831.87	296.48	145.64	
75	10.96	10.96	831.87	842.83	284.95	139.98	
76	11.30	11.30	842.83	854.13	273.99	134.59	
77	10.95	10.95	854.13	865.08	262.69	129.04	
78	11.70	11.70	865.08	876.78	251.74	123.66	
79	11.39	11.39	876.78	888.17	240.04	117.92	
80	11.47	11.47	888.17	899.64	228.65	112.32	
81	11.17	11.17	899.64	910.81	217.18	106.69	Centraliser
82	11.62	11.62	910.81	922.43	206.01	101.20	Centraliser
83	11.51	11.51	922.43	933.94	194.39	95.49	Centraliser
84	11.63	11.63	933.94	945.57	182.88	89.84	Centraliser
85	11.32	11.32	945.57	956.89	171.25	84.12	Centraliser
86	11.21	11.21	956.89	968.10	159.93	78.56	Centraliser
87	11.58	11.58	968.10	979.68	148.72	73.06	Centraliser
88	11.63	11.63	979.68	991.31	137.14	67.37	Centraliser
89	11.44	11.44	991.31	1002.75	125.51	61.65	Centraliser
90	10.88	10.88	1002.75	1013.63	114.07	56.04	Centraliser
91	11.57	11.57	1013.63	1025.20	103.19	50.69	Centraliser
92	11.08	11.08	1025.20	1036.28	91.62	45.01	Centraliser
93	11.75	11.75	1036.28	1048.03	80.54	39.56	Centraliser
94	11.36	11.36	1048.03	1059.39	68.79	33.79	Centraliser
95	10.88	10.88	1059.39	1070.27	57.43	28.21	Centraliser
96	11.48	11.48	1070.27	1081.75	46.55	22.87	Centraliser
97	11.37	11.37	1081.75	1093.12	35.07	17.23	Centraliser
Float Jt 'A'	11.50	11.50	1093.12	1104.62	23.70	11.64	Two centralisers
Shoe Jt 'A'	12.20	12.20	1104.62	**1116.82**	12.20	5.99	Two centralisers

Attachment 5

Cementing Report

Australian Drilling Associates
Level 5, Rialto North Tower
525 Collins St
Melbourne, Victoria, 3000

West Seahorse 3
Post Job Report

Prepared for Rajiv Tikkoo
Thursday, 15 April 2010

Submitted by Andrew Stobie/Premkumar Salibendla
Halliburton Australia Pty Ltd
90 Talinga Rd, Cheltenham, VIC, 3192
Ph: 03 9581 7536 Fax: 03 9581 7599

HALLIBURTON

90 Talinga Road
Cheltenham, Vic 3192
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Thursday, 15 April 2010

Rajiv Tikkoo
Australian Drilling Associates
Level 5, Rialto North Tower
525 Collins St
Melbourne, Victoria, 3000

Rajiv,

Re: West Seahorse 3

Included for your review is a copy of the Post Job Report of the West Seahorse 3 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,

Andrew Stobie
Technical Professional

&

Prem kumar Salibendla
Technical Professional

Table of Contents

1.0 Summary of operations

Cementation on West Seahorse#3 well was completed as follows

- 30" Conductor casing was cemented on the 25th of April 2008
- 13 3/8" Surface Casing was cemented on the 29th of April 2008
- Plug and abandonment of the well was completed on the 7th May 2008.

1.1 Lessons Learnt

SSR plugset didn't not work as designed. Releasing pressures were not definitively witnessed. Top plug pressure was recorded on the Martin Decker but not the digital recorder. Weight on BHA, cement returns when running to bottom and long drill out times are also additional problems witnessed with this job. Going forward the following items have been addressed

- Bottom plug off SSR set has been removed
- Diameters of balls we had offshore have been confirmed as correct
- Dart has been confirmed as correct
- The recording frequency of the on board computer is one sample per second. This is the highest sample rate. During the job the sample rate must be set lower in order to record the whole job. When a laptop computer is connected it records at one sample per second in real time. The sensitivity can be modified to display 5 readings per second.
- Operators need to set the correct date and time to allow for easier cross referencing of data after the event.
- The dart should be landed with less that 1bpm rate. It took a higher rate to actually launch the dart out of the head. This rate was then maintained (>6bpm) so it was hard/impossible to see the shear pressure on the digital recorder
- Chase up rig for dims and inspect landing string components for irregularities.

2.0 Cement Programs

The following program illustrates the cementation of 30in and 13 3/8in casings on West Seahorse-3 followed by P&A program.

Revision History

Draft 1	21st December 2007	Initial program
Revision 1	28th February 2008	Changed Casing depths
Revision 2	16th April 2008	SSR plug shear pressures and Sugar pill recipe is add
Revision 3	22nd of April 2008	Removed sugar pill. Don't open ports at MSL on 13 3/8" job. Reduce TOC on 13 3/8" to 600m. Reduce TOC on 9 5/8" Job to 1300m.
Revision 4	24th of April 2008	Fluid loss control additive removed from the tail on the 13 3/8" CSG

2.1 Schematic

OPERATOR: **3D Oil Ltd**		FIELD / WELL: **WEST SEAHORSE-3**	WELL SKETCH: **AS SUSPENDED**
DRILLING RIG: (RT 77.5m ABOVE ML) **WEST TRITON (JACK UP)**		LEASE: **VIC P/57**	API NUMBER:

DIRECTIONAL DATA

KOP:	0.00	deg @	180m	MD
MAX DEV:	28.34	deg @	1333m	MD
DLEG SEV:	NA	deg @	NA	MD
DEV @ PERFS:	NA	deg @	NA	MD
RET to VERT:	NA	deg @	NA	MD

DRILLING / COMPLETION FLUID

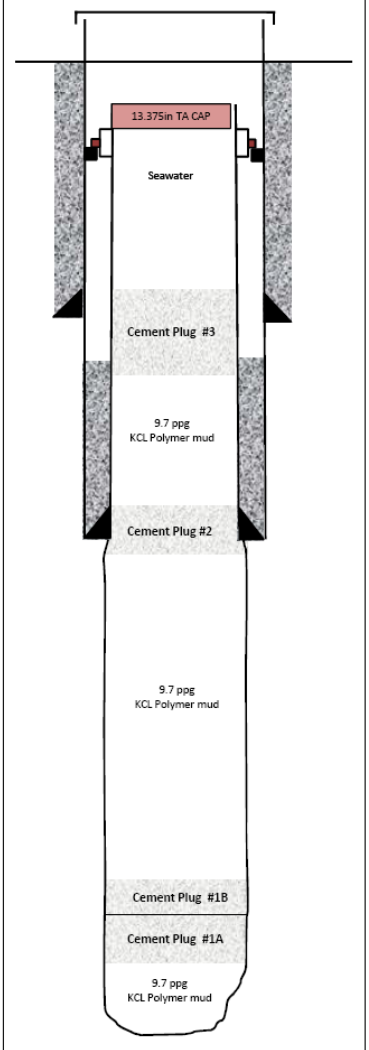
DRILLING FLUID:	9.70 ppg KCL Polymer mud
DRILLING FLUID:	
COMPLETION FLUID:	
COMPLETION FLUID:	
PACKER FLUID:	

TUBULAR DATA

Tubulars	OD	ID	Weight	Grade	Thread	TVD	MD	TOC
CONDUCTOR	30.000	-	310.00	X52	HD60MT	122.0	122.0	ML
SURFACE	13.375	-	68.00	N-80	BTC	1,035.2	1,117.0	600m
PRODUCTION								
PRODUCTION								
PRODUCTION								
PROD TIEBACK								
PROD TIEBACK								
TUBING								
TUBING								
TUBING								
TUBING								

WELLHEAD DATA

TYPE			
WP			
TREE CAP	FLANGE:		
	THREAD:		
TUBING HANGER:			
Upper Plug OD			
Lower Plug OD			
ELEVATIONS:		WTR DEPTH:	39.5
RT-AMSL:	38.0	OTHER:	
RT-ML:	77.5	RT-ML:	77.5



EQUIPMENT DESCRIPTION	ID	OD	DEPTH TVD - BRT	DEPTH MD-BRT
SEA LEVEL			39.5	39.5
MUDLINE			77.5	77.5
MLS Support			86.9	86.9
30" CONDCUTOR SHOE			122.0	122.0
CEMENT PLUG #3 (70m) 130m TO 207m MD-BRT			130.0	130.0
CEMENT PLUG #2 (136m) 1030m TO 1149m MD-BRT			954.2	1,030.0
13.375" CASING SHOE			1,035.2	1,117.0
CEMENT PLUG #1B (143m) 1490m TO 1633m MD-BRT			1,388.8	1,500.0
CEMENT PLUG #1A (137m) 1633m TO 1770m MD-BRT			1,506.1	1,630.0
12.25" TD			1,684.1	1,810.0

COMMENTS:

DRAWING NOT TO SCALE

PLUG BACK DEPTH:		
TOTAL WELL DEPTH:	1,684.1	1,810.0
PREPARED BY: M. Siegman	DATE: 10/09/2008	Rev 1

2.2 30 inch Casing Detail

JOB PARAMETERS

Casing measured depth:	122m	BHST temperature:	20°C
True vertical depth:	122m	BHCT temperature:	17°C
Depth to top cement:	78m	Drilling mud type:	SW&HVBS
		Drilling mud density:	8.60ppg

WELLBORE

Casing/Tubing (Inner string job)

0-122m	5 1/2in 24.7ppf Tubing
0-120m	30in 309.7ppf Casing (X-52 D60/MT)
120-122m	20in 169ppf Casing

Annulus

0-78m	RKB-ML
78-122m	36in open hole (200% excess)

SPACERS

Spacer #1 - 100.0bbl Seawater at 8.55ppg

Seawater	42.00 gal/bbl	(12m OH annular fill / 13min contact time)

Spacer #2 - 20.0bbl Seawater + Dye at 8.57ppg

Seawater	41.98 gal/bbl	(2m OH annular fill / 3min contact time)
Fluorescein Dye	0.20 lb/bbl	

Contact times are based on the displacement rate.

CEMENT

Composition		**Properties**	
Adelaide Brighton Class G		Surface density:	15.90 ppg
Calcium Chloride 1%	1.00 %BWOC	Surface yield:	1.17 ft³/sk
Seawater	5.16 gal/sk	Total mixing fluid:	5.20 gal/sk

NF-6	0.25 gal/10bblMF	Thickening time (70 Bc):	3:30
		Free water vert at 17°C:	<1 %
		Comp strength at 19°C	50 psi in 4 hrs
		Comp strength at 19°C	500 psi in 6 hrs
		Comp strength at 19°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	42 m x 1.2620 bbl/m	53.0 bbl
30in Casing / 36in hole excess	2.00 x 53.0 bbl	106.0 bbl
20in Casing / 36in hole volume	2 m x 2.8555 bbl/m	5.7 bbl
20in Casing / 36in hole excess	2.00 x 5.7 bbl	11.4 bbl
	Total slurry volume =176.2 bbl	
Quantity of cement	176.2 bbl x 5.6146 / 1.17 ft^3/sk	845 sks
Quantity of mix fluid	845 sks x 5.20 gal/sk	104.6 bbl

Displacement

5 1/2in Tubing volume	122 m x 0.0695 bbl/m	8.5 bbl
	Total displacement volume =8.5 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:	12.8	10.0	1
Pump spacers:	120.0	10.0	12
Mix & pump cement:	176.2	6.0	29
Release dart/top plug:	N/A	N/A	5
Pump displacement:	8.5	8.0	1

Total job time (including circulation):	***78 min***	***1hr 18min***
Minimum cement thickening time (with 2hr safety factor):	***155 min***	***2hr 35min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Seawater

Seawater	100 bbl

Spacer #2 - Seawater + Dye

Seawater	20 bbl
Fluorescein Dye	4 lb

Cement

Adelaide Brighton Class G	36 MT(844 ft^3)
Calcium Chloride 1%	794 lbs
Seawater	103.8 bbl
NF-6	3 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.2.1 30in Casing Job Procedure

1) Run 30" casing to TD with innerstring pipe.
2) Rig up surface equipment including a releasing tool for the latch in dart if one is required
3) Rig up surface equipment
4) Establish circulation
5) Test lines to 3000psi
6) Pump 100bbls Seawater
7) Pump 20bbls Seawater with Fluorescine Dye
8) Mix and pumped 343bbls of 15.9ppg cement or until returns are evident on the seafloor
9) Drop top plug/latch in plug if one is being used
10) Displace with 8bbls of MUD
11) Slow pump rate down and bump plug 500psi over and hold for 10mins. Bleed back and check floats

2.3 13 3/8 inch Casing Details

JOB PARAMETERS

Casing measured depth:	1,117m	BHST temperature:	55°C
True vertical depth:	1,035m	BHCT temperature:	38°C
Depth to top lead:	600m	Drilling mud type:	EZ-MUD
Depth to top tail:	1,000m	Drilling mud density:	9.60ppg

WELLBORE

Casing/Tubing

0-1,117m	13 3/8in 68ppf Casing (N-80 BTC)

Annulus

0-122m	20in 169ppf casing (18.376in ID)
122-1,000m	17.5in open hole (10% excess)
1,000-1,117m	17.5in open hole (10% excess)

SPACERS

Spacer #1 - 70.0bbl Seawater at 8.55ppg

Seawater	42.00 gal/bbl	(157m OH annular fill / 9min contact time)

Spacer #2 - 30.0bbl Tuned Spacer E+ at 11.00ppg

Freshwater	37.31 gal/bbl	(67m OH annular fill / 4min contact time)
Tuned Spacer	16.80 lb/bbl	
Barite	133.78 lb/bbl	

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):	6:30
		Free water dev at 38°C:	Trace %
		Comp strength at 38°C:	50 psi in 8 hrs
		Comp strength at 38°C:	500 psi in 24 hrs

TAIL CEMENT

Composition		**Properties**	
Adelaide Brighton Class G		Surface density:	15.80 ppg
CFR-3L	3.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
SCR-100L	1.00 gal/10bblMF	Total mixing fluid:	5.12 gal/sk
Freshwater	5.06 gal/sk	Thickening time (70 Bc):	4:30
NF-6	0.25 gal/10bblMF	Free water vert at 38°C:	Trace %
		Fluid loss at 38°C:	<100 cc/30min
		Comp strength at 49°C	50 psi in 5 hrs
		Comp strength at 49°C	500 psi in 7 hrs
		Comp strength at 49°C	2,000 psi in 24 hrs

VOLUME CALCULATIONS

Lead Cement

13 3/8in Casing / 17.5in hole volume	400 m x 0.4059 bbl/m	162.4 bbl
13 3/8in Casing / 17.5in hole excess	0.10 x 162.4 bbl	16.2 bbl
	Total lead slurry volume =178.6 bbl	
Quantity of lead cement	178.6 bbl x 5.6146 / 2.19 ft³/sk	458 sacks
Quantity of lead mix fluid	458 sacks x 12.88 gal/sk	140.5 bbl

Tail Cement

13 3/8in Casing / 17.5in hole volume	117 m x 0.4059 bbl/m	47.5 bbl
13 3/8in Casing / 17.5in hole excess	0.10 x 47.5 bbl	4.7 bbl
Shoe track volume	12 m x 0.4912 bbl/m	5.9 bbl
	Total tail slurry volume =58.1 bbl	

Quantity of tail cement	58.1 bbl x 5.6146 / 1.16 ft³/sk	281 sks
Quantity of tail mix fluid	281 sks x 5.12 gal/sk	34.3 bbl

Displacement

13 3/8in Casing volume	1,105 m x 0.4912 bbl/m	542.8 bbl

Total displacement volume =542.8 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:	823.0	10.0	82
Pump spacers:	100.0	10.0	10
Mix & pump lead cement:	178.6	6.0	30
Mix & pump tail cement:	58.1	5.0	12
Release dart/top plug:	N/A	N/A	5
Pump displacement:	542.8	8.0	68

Total job time (including circulation):	***237 min***	***3hr 57min***
Minimum lead cement thickening time (with 2hr safety factor):	***235 min***	***3hr 55min***
Minimum tail cement thickening time (with 2hr safety factor):	***205 min***	***3hr 25min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer #1 - Seawater

Seawater	70 bbl

Spacer #2 - Tuned Spacer E+

Freshwater	26.6 bbl
Tuned Spacer	504 lb
Barite	4,013 lb

Lead Cement

Adelaide Brighton Class G	20 MT(469 ft³)
Econolite Liquid	211 gals
Seawater	135.3 bbl
NF-6	4 gals

Tail Cement

Adelaide Brighton Class G	12 MT(281 ft³)
CFR-3L	10 gals
SCR-100L	3 gals
Freshwater	33.9 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.3.1 13 3/8in casing Job Procedure

1) Establish circulation
2) Test lines to 3000psi
3) Pump 70bbls Seawater
4) Pump 30bbls of Tuned Spacer E+
5) Drop weighted plastic ball to lands on a seal in the bottom plug ID.
6) Apply 1100 ± 500psi to shear the pins and releases bottom plug. (Apply 1550 ± 500psi to by pass the bottom plug when it lands on the collar
7) Pumped 200bbls of Lead cement
8) Pumped 60bbls of Tail cement
9) Drop releasing dart on the releasing sleeve and apply about 2500 ± 500psi to release the top plug.
10) Pump 10bbls of fresh water
11) Displace with 542bbls of mud. Use calliper volumes if possible
12) Slow pump rate down for final 10bbls. Bump plug 500psi over and hold for 10mins. Bleed back and check floats
13) End job

2.4 Plug #1A Details

Plug Details - 12.25in hole

JOB PARAMETERS			
Plug bottom MD:	1,770m	BHST temperature:	71°C
Plug bottom TVD:	1,618m	BHCT temperature:	57°C
Plug top MD:	1,633m	Drilling mud type:	KCL Polymer Mud
Plug length:	137m	Drilling mud density:	9.70ppg
Plug length with DP in:	141m		

WELLBORE

Workstring

0-1,770m	4in 14ppf tubing

Annulus

0-1,117m	13 3/8in 68ppf casing (12.415in ID)
1,117-1,770m	12.25in open hole (15% excess)

SPACERS

Spacer - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	20.0bbl ahead and 1.4bbl behind to balance (35m annular fill / 3min contact time)

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.80 ppg
SCR-100L	2.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
CFR-3L	3.00 gal/10bblMF	Total mixing fluid:	5.12 gal/sk
Freshwater	5.05 gal/sk	Thickening time (70 Bc):	4:00
NF-6	0.125 gal/10bblMF	Free water vert at 57°C:	trace %

Comp strength at 66°C	50 psi in 4:30 hrs
Comp strength at 66°C	500 psi in 6:00 hrs
Comp strength at 66°C	2,500 psi in 24 hrs

VOLUME CALCULATIONS

Cement

12.25in hole volume	137 m x 0.4782 bbl/m	65.5 bbl
12.25in hole excess	0.15 x 65.5 bbl	9.8 bbl
	Slurry volume =75.4 bbl	
Quantity of cement	75.4 bbl x 5.6146 / 1.16 ft³/sk	365 sacks
Quantity of mix fluid	365 sacks x 5.12 gal/sk	44.5 bbl

Displacement

4in tubing volume	1,589 m x 0.0356 bbl/m	56.5 bbl
	Total displacement volume =56.5 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:	817.6	6.0	136
Pump spacers ahead:	20.0	6.0	3
Mix & pump cement:	75.4	5.0	15
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	1.4	6.0	0
Pump displacement:	56.5	6.0	9
Pull workstring 27 m above TOC:	164m	9.0m/min	18
Circulate workstring clean:	57.0	6.0	10

Total job time (including circulation):	***226 min***	***3hr 46min***
Minimum cement thickening time (with 2hr safety factor):	***177 min***	***2hr 57min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)	
Spacer - Freshwater	
Freshwater	21.4 bbl
Cement	
Adelaide Brighton Class G	16 MT(375 ft³)
SCR-100L	9 gals
CFR-3L	13 gals
Freshwater	43.9 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.4.1 Plug #1A Job Procedure

1) RIH with 4" drill pipe
2) Rig up surface lines, circulate hole to clean fluid
3) Establish circulation by pumping 10bbl Fresh water
4) Pressure test lines to 2000psi
5) Pump 10bbls freshwater
6) Pumped 74bbls of 15.8ppg slurry
7) Pump 2bbls of freshwater behind to balance
8) Displace with 102bbls of well fluid
9) POOH slowly one stand above top of plug. Reverse circulate 2 tubing volumes clean

2.5 Plug #1B Details

Plug Details - 12.25in hole

JOB PARAMETERS			
Plug bottom MD:	1,633m	BHST temperature:	71°C
Plug bottom TVD:	1,503m	BHCT temperature:	57°C
Plug top MD:	1,490m	Drilling mud type:	KCL Polymer Mud
Plug length:	143m	Drilling mud density:	9.70ppg
Plug length with DP in:	147m		

WELLBORE

Workstring

0-1,633m	4in 14ppf tubing

Annulus

0-1,117m	13 3/8in 68ppf casing (12.415in ID)
1,117-1,633m	12.25in open hole (15% excess)

SPACERS

Spacer - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	20.0bbl ahead and 1.4bbl behind to balance (35m annular fill / 3min contact time)

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.80 ppg
SCR-100L	2.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
CFR-3L	3.00 gal/10bblMF	Total mixing fluid:	5.12 gal/sk
Freshwater	5.05 gal/sk	Thickening time (70 Bc):	4:00
NF-6	0.125 gal/10bblMF	Free water vert at 57°C:	trace %

Comp strength at 66°C	50 psi in 4:30 hrs
Comp strength at 66°C	500 psi in 6:00 hrs
Comp strength at 66°C	2,500 psi in 24 hrs

VOLUME CALCULATIONS

Cement

12.25in hole volume	143 m x 0.4782 bbl/m	68.4 bbl
12.25in hole excess	0.15 x 68.4 bbl	10.3 bbl
	Slurry volume =78.7 bbl	
Quantity of cement	78.7 bbl x 5.6146 / 1.16 ft³/sk	381 sacks
Quantity of mix fluid	381 sacks x 5.12 gal/sk	46.5 bbl

Displacement

4in tubing volume	1,446 m x 0.0356 bbl/m	51.4 bbl
	Total displacement volume =51.4 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:	749.2	6.0	125
Pump spacers ahead:	20.0	6.0	3
Mix & pump cement:	78.7	5.0	16
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	1.4	6.0	0
Pump displacement:	51.4	6.0	9
Pull workstring 27 m above TOC:	170m	9.0m/min	19
Circulate workstring clean:	52.0	6.0	9

Total job time (including circulation):	***216 min***	***3hr 36min***
Minimum cement thickening time (with 2hr safety factor):	***178 min***	***2hr 58min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)	
Spacer - Freshwater	
Freshwater	21.4 bbl
Cement	
Adelaide Brighton Class G	16 MT(375 ft³)
SCR-100L	9 gals
CFR-3L	14 gals
Freshwater	45.9 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.5.1 Plug #1B Job Procedure

1) RIH with 4" drill pipe
2) Rig up surface lines, circulate hole to clean fluid
3) Establish circulation by pumping 10bbl Fresh water
4) Pressure test lines to 2000psi
5) Pump 10bbls freshwater
6) Pump 78bbls of 15.8ppg slurry
7) Pump 2bbls of freshwater behind to balance
8) Displace with 90bbls of well fluid
9) POOH slowly one stand above top of plug. Reverse circulate 2 tubing volumes clean

2.6 Plug # 2 Details

Plug Details - 13 3/8in casing x 12.25in hole

JOB PARAMETERS			
Plug bottom MD:	1,149m	BHST temperature:	56°C
Plug bottom TVD:	1,046m	BHCT temperature:	45°C
Plug top MD:	1,030m	Drilling mud type:	KCL Polymer Mud
Plug length:	119m	Drilling mud density:	9.70ppg
Plug length with DP in:	123m		

WELLBORE

Workstring

0-1,149m	4in 14ppf tubing

Annulus

0-1,117m	13 3/8in 68ppf casing (12.415in ID)
1,117-1,149m	12.25in open hole (15% excess)

SPACERS

Spacer - Freshwater at 8.33ppg

Freshwater	42.00 gal/bbl	20.0bbl ahead and 1.6bbl behind to balance
		(35m annular fill / 3min contact time)

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.80 ppg
SCR-100L	1.00 gal/10bblMF	Surface yield:	1.16 ft³/sk
CFR-3L	3.00 gal/10bblMF	Total mixing fluid:	5.12 gal/sk
Freshwater	5.07 gal/sk	Thickening time (70 Bc):	6:43
NF-6	0.125 gal/10bblMF	Free water vert at 45°C:	trace %
		Comp strength at 52°C	50 psi in 4:30 hrs

Comp strength at 52°C	500 psi in 6:00 hrs
Comp strength at 52°C	2,500 psi in 24 hrs

VOLUME CALCULATIONS

Cement

13 3/8in casing volume	87 m x 0.4912 bbl/m	42.7 bbl
12.25in hole volume	32 m x 0.4782 bbl/m	15.3 bbl
12.25in hole excess	0.15 x 15.3 bbl	2.3 bbl
		Slurry volume =60.3 bbl
Quantity of cement	60.3 bbl x 5.6146 / 1.16 ft³/sk	292 sacks
Quantity of mix fluid	292 sacks x 5.12 gal/sk	35.6 bbl

Displacement

4in tubing volume	981 m x 0.0356 bbl/m	34.9 bbl
		Total displacement volume =34.9 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:	507.7	6.0	85
Pump spacers ahead:	20.0	6.0	3
Mix & pump cement:	60.3	5.0	12
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	1.6	6.0	0
Pump displacement:	34.9	6.0	6
Pull workstring 27 m above TOC:	146m	9.0m/min	16
Circulate workstring clean:	36.0	6.0	6

Total job time (including circulation):	***163 min***	***2hr 43min***
Minimum cement thickening time (with 2hr safety factor):	***165 min***	***2hr 45min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)	
Spacer - Freshwater	
Freshwater	21.6 bbl
Cement	
Adelaide Brighton Class G	12 MT(281 ft^3)
SCR-100L	4 gals
CFR-3L	11 gals
Freshwater	35.2 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.6.1 Plug #2 Job Procedure

1) RIH with 4" drill pipe
2) Rig up surface lines, circulate hole to clean fluid
3) Establish circulation by pumping 10bbl sea water
4) Pressure test lines to 2000psi
5) Pump 10bbls sea water
6) Pumped 65bbls of 15.8ppg slurry
7) Pump 2bbls of freshwater behind to balance
8) Displace with 60bbls of well fluid
9) POOH slowly one stand above top of plug. Reverse circulate 2 tubing volumes clean

2.7 Plug # 3 Details

Plug Details - 13 3/8in casing

JOB PARAMETERS			
Plug bottom MD:	207m	BHST temperature:	24°C
Plug bottom TVD:	207m	BHCT temperature:	19°C
Plug top MD:	130m	Drilling mud type:	seawater
Plug length:	77m	Drilling mud density:	8.55ppg
Plug length with DP in:	80m		

WELLBORE

Workstring

0-207m	4in 14ppf tubing

Annulus

0-207m	13 3/8in 72ppf casing (12.347in ID)

SPACERS

Spacer - Seawater at 8.54ppg

Seawater	42.00 gal/bbl	10.0bbl ahead and 0.8bbl behind to balance
		(23m annular fill / 2min contact time)
		Estimated Pv: 1cP
		Estimated Yp: 1lbs/100ft²

Contact times are based on the displacement rate.

CEMENT SLURRY

Composition		Properties	
Adelaide Brighton Class G		Surface density:	15.90 ppg
Seawater	5.12 gal/sk	Surface yield:	1.16 ft³/sk
NF-6	0.125 gal/10bblMF	Total mixing fluid:	5.12 gal/sk
		Thickening time (70 Bc):	3:00

Comp strength at 22°C	50 psi in 3 hrs
Comp strength at 22°C	500 psi in 6 hrs
Comp strength at 22°C	2,400 psi in 24 hrs

VOLUME CALCULATIONS

Cement

13 3/8in casing volume	77 m x 0.4858 bbl/m	37.4 bbl
		Slurry volume =37.4 bbl
Quantity of cement	37.4 bbl x 5.6146 / 1.16 ft^3/sk	181 sacks
Quantity of mix fluid	181 sacks x 5.12 gal/sk	22.1 bbl

Displacement

4in tubing volume	104 m x 0.0356 bbl/m	3.7 bbl
		Total displacement volume =3.7 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:	90.0	6.0	15
Pump spacers ahead:	10.0	6.0	2
Mix & pump cement:	37.4	5.0	7
Drop wiper ball:	N/A	N/A	5
Pump spacers behind:	0.8	6.0	0
Pump displacement:	3.7	6.0	1
Pull workstring 27 m above TOC:	104m	9.0m/min	12
Circulate workstring clean:	4.0	6.0	1

Total job time (including circulation):	***73 min***	***1hr 13min***
Minimum cement thickening time (with 2hr safety factor):	***146 min***	***2hr 26min***

MINIMUM MATERIAL REQUIREMENTS (Double for loadout)

Spacer - Seawater

Seawater	10.8 bbl

Cement

Adelaide Brighton Class G	8 MT(188 ft^3)
Seawater	22.1 bbl
NF-6	1 gals

These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.

2.7.1 Plug #3 Job Procedure

1) RIH with 4" drill pipe
2) Rig up surface lines, circulate hole to clean fluid
3) Establish circulation by pumping 10bbl sea water
4) Pressure test lines to 2000psi
5) Pump 10bbls sea water
6) Pump 38bbls of 15.9ppg slurry
7) Displace with 5bbls of Sea water
8) End job

3.0 LAB REPORTS

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION

Customer	:	3D Oil	**Date**	:	27/04/2008
Well Name	:	West Seahorse 3	**Reference**	:	WES-08-02A
Casing Size	:	13 3/8inch			
Job Type	:	Surface Casing			
Slurry Type	:	Lead			
Time to Temp	:	25min API sch9.4			

WELL PROPERTIES

Depth(MD from RKB)	:	1129	Meters	**Depth(TVD from RKB)**	:	1040	Meters
Surface Temperature	:	25.00	Deg.C.	**Temperature Gradient**	:	2.88	Deg.C./100M
BHST	:	55.00	Deg.C.	**BHCT (per API Spec 10)**	:	38.00	Deg.C.
Mud Weight	:	9.60	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES

ABC Class G	:	94.00	Lbs/sk	From Yard			
Econolite Liquid	:	15.00	gal/10bbl of Mix Fluid		0.460	gal/sk	
NF-6	:	0.25	gal/10bbl of Mix Fluid		0.008	gal/sk	
Slurry Weight	:	12.50	PPG	**Slurry Yield**	:	2.21	CuFt/Sack
Mixing Water	:	12.42	Gals/Sack	**Total Mixing Fluid**	:	12.88	Gals/Sack

THICKENING TIME

Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	2,300	psi
Time(hrs:mins)	:	18	4:23	5:33	6:08	38	Deg.C.

COMPRESSIVE STRENGTH

UCA Summary	:	**50psi**	**4:59**	**UCA Max Temp**	:	50.5	Deg C
	:	**500psi**	**14:24**	**UCA Pressure**	:	3000	psi
	:	**722psi**	**23:00**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Daniel Gibbons

Approved By : Prem kumar Salibendla/Andrew Stobie

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION

Customer	:	3D Oil	**Date**	:	27/04/2008
Well Name	:	West Seahorse 3	**Reference**	:	WES-08-03A
Casing Size	:	13 3/8inch			
Job Type	:	Surface Casing			
Slurry Type	:	Tail			
Time to Temp	:	25mins API sch9.4			

WELL PROPERTIES

Depth(MD from RKB)	:	1129	Meters	**Depth(TVD from RKB)**	:	1040	Meters
Surface Temperature	:	25.00	Deg.C.	**Temperature Gradient**	:	2.88	Deg.C./100M
BHST	:	55.00	Deg.C.	**BHCT (per API Spec 10)**	:	38.00	Deg.C.
Mud Weight	:	9.60	PPG	**Water Source**	:	Seawater	

SLURRY PROPERTIES

ABC Class G	:	94.00	Lbs/sk	From Yard		
CFR-3L	:	3.00	gal/10bbl of Mix Fluid	0.037	gal/sk	
HR-6L	:	2.00	gal/10bbl of Mix Fluid	0.024	gal/sk	
NF-6	:	0.25	gal/10bbl of Mix Fluid	0.003	gal/sk	

Slurry Weight	:	15.90	PPG	**Slurry Yield**	:	1.16	CuFt/Sack
Mixing Water	:	5.08	Gals/Sack	**Total Mixing Fluid**	:	5.13	Gals/Sack

THICKENING TIME

Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	2,300	psi
Time(hrs:mins)	:	7	3:05	3:09	3:12	38	Deg.C.

COMPRESSIVE STRENGTH

UCA Summary	:	**50psi**	**4:11**	**UCA Max Temp**	:	50.5	Deg C
	:	**500psi**	**6:25**	**UCA Pressure**	:	3000	psi
	:	**3433psi**	**24:00**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Daniel Gibbons

Approved By : Prem kumar Salibendla/Andrew Stobie

HALLIBURTON

CEMENT SLURRY REPORT

JOB INFORMATION

Customer	:	3D Oil	**Date**	:	6/05/2008
Well Name	:	West Seahourse-3	**Reference**	:	WES-08-05B
Casing Size	:	12 1/4in Open Hole			
Job Type	:	Plug-1			
Slurry Type	:	Plug			
Time to Temp	:	23min			

WELL PROPERTIES

Depth(MD from RKB)	:	1568	Meters	**Depth(TVD from RKB)**	:	1435	Meters
Surface Temperature	:	25.00	Deg.C.	**Temperature Gradient**	:	0.03	Deg.C./100M
BHST	:	71.00	Deg.C.	**BHCT (per API Spec 10)**	:	57.00	Deg.C.
Mud Weight	:	57.00	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	:	1.00	gal/10bbl of Mix Fluid	0.012	gal/sk	

Slurry Weight	:	15.80	PPG	**Slurry Yield**	:	1.16	CuFt/Sack
Mixing Water	:	5.07	Gals/Sack	**Total Mixing Fluid**	:	5.12	Gals/Sack

THICKENING TIME

Reading (BC)	:	**Initial BC**	**30 BC**	**50 BC**	**70 BC**	2,834	psi
Time(hrs:mins)	:	8	6:01	6:34	6:43	57	Deg.C.

COMPRESSIVE STRENGTH

UCA Summary	:	**50psi**	**4:07**	**UCA Max Temp**	:	71	Deg C
	:	**500psi**	**5:17**	**UCA Pressure**	:	3000	psi
	:	**2702psi**	**20:48**				

Notes : The test was conducted to the specifications provided.

Lab Test Conducted By : Daniel Gibbons

Approved By : Prem kumar Salibendla/Andrew Stobie

4.0 Job Summary, EJCS, Job Logs

4.1 30 inch Conductor Casing

4.1.1 Job Summary

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
3D Oil	0	25 April 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Rocco Rossouw	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	CEMENT CONDUCTOR CASING 14161	Perth	West Triton

PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS
126997	Nigel Lucas	18									
344450	Premkumar Salibendla	18									

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	VEHICLES / TRAILERS	HOURS
0	SKID PUMP CMT TWIN HT400 ADVANTAGE 10851913	24			
0	Electric Hydraulic Package 10851913	24			
0	4 Tank Electric CMS 109658	24			

SAP#	BULK SUPPLY / TANKS	HOURS	SAP#	OTHER EQUIPMENT	HOURS
#N/A	Rig supplied Bulk system				

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY	SAP#	PLUGS	QTY
0	20 inch Drillquip Innersting stab in shoe	1			
		1			

SAP#	CASING ATTACHMENTS	QTY	SAP#	OTHER	QTY

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASING ONE	PREVIOUS CASING TWO
30x20in ppf	36in + 200% excess 75.5m to 124.18m		
0m to 122.18m MD, m TVD			

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf S135 XT 57

CEMENT DESIGN

SLURRY 1 - Single								
DENSITY	15.9ppg	**WATER REQ**	5.16gal/sk	**DENSITY**		**WATER REQ**		**DENSITY**		**WATER REQ**	
YIELD	1.17cuft/sk	**MIX FLUID REQ**	5.2gal/sk	**YIELD**		**MIX FLUID REQ**		**YIELD**		**MIX FLUID REQ**	
WATER SOURCE :		Sea,		**WATER SOURCE :**				**WATER SOURCE :**			
CEMENT TYPE:		ABC Class 'G' @ 94 lb/sk		**CEMENT TYPE:**		ABC Class 'G' @ 94 lb/sk		**CEMENT TYPE:**			
Total Cement Used		1660 sks		**Total Cement Used**				**Total Cement Used**			
Estimated TOC		77.5 m		**Estimated TOC**				**Estimated TOC**			

Additive	Concentration	Total Used	Additive	Concentration	Total Used	Additive	Concentration	Total Used
Calcium Chloride	1 %BWOC	33 sx lbs						
NF-6	as req.							

PUMPING SCHEDULE

FLUID DESCRIPTION	VOLUME bbls	DENSITY ppg	RATE bpm	FLUID DESCRIPTION	VOLUME bbls	DENSITY ppg	RATE bpm	FLUID DESCRIPTION	VOLUME bbls	DENSITY ppg	RATE bpm
1) sea water	80	8.54	6								
2) Sea water + Dye	20	8.54	6								
3) Cement	343	15.9	5								

HALLIBURTON

4.1.2 Job Logs

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	3D Oil	0	25-April-2008

CEMENT/PUMPING JOB LOGS & DETAILS

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Rocco Rossouw	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	CEMENT CONDUCTOR CASING 14161	Perth	West Triton

JOB LOG

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
25/04/2008	1:00					Hold JSA with Drill Quip on the rig Floor
	1:20	50	50	20	6	Pump 50bbls of sea water
	1:30		1200			Pressure test lines
	1:36	30	100	20	6-Jan	Pump 30bbls of sea water
	1:42	20	100	20	6	Pump 20bbls of Dye+ Seawater
	1:47	343	200	20	5-Jan	Mix and pump 343bbls of cement at 15.9ppg
	3:15					End pump cement
	3:15	8	100	25	6.4	Pump 8bbls of seawater
	3:17		20	20		Open line and check flow back to check the floats holding
						Floats held
	3:18					Call rig floor, inform cement job finished
						Chemicals used
						1660sk= 70MT of Class G cement
						Cacl2=33sks=1815lbs
						NF-6=5gals

HALLIBURTON

4.1.3 KPI & EJCS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
3D Oil	0	25-April-2008

CEMENT/PUMPING KPI & EJCS

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Rocco Rossouw	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	CEMENT CONDUCTOR CASING 14161	Perth	West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): *Select the job type (Cementing or Non-Cementing)*	Cementing	**WAS THIS A PRIMARY CEMENT JOB (YES / NO)** *Primary cement job = Casing job, Liner Job, tie back*	YES
TOTAL OPERATING TIME (hrs) *Rig up/ Pumping/ Rig Down*	12.0 hrs	**DID WE RUN WIPER PLUGS?**	None
HSE INCIDENT, ACCIDENT, INJURY: *This should be recordable incidents only*	NO	**WAS THIS A PLUG OR SQUEEZE JOB?**	Neither
WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN?: *This will be dictated by the customer*	YES	**WAS THIS A PRIMARY OR REMEDIAL JOB?** Remedial = Repeated attempts or corrections of initial cement job	Primary
TOTAL TIME PUMPING (hrs) *Total number of hours pumping fluid on this job*	4 Hrs	**MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE** *Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100*	99%
NON -PRODUCTIVE RIG TIME: *As a result of Halliburton cementing PSL*	nil	**WAS AUTOMATED DENSITY CONTROL USED**	YES
NUMBER OF JSA'S PERFORMED:	1	**JOB WAS PUMPED AT DESIGNED PUMP RATE** *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*	95%
NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)		**NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES** *Number of remedial squeeze jobs required after primary job performed by HES*	nil
TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON:	JACKUP	**NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION** *Number of remedial squeeze jobs required after primary job performed by competition*	nil
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*		**NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES** *Number of remedial plug jobs required after primary plug pumped by HES*	nil

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 Halliburton.

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?)*

4.2 13 3/8" SSR CASING

4.2.1 Job Summary

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
3D Oil	0	29 April 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Shaughan Corless	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	SURFACE CASING 7521	Perth	West Triton

PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS	PERSONNEL / EXPOSURE		HRS
126997	Nigel Lucas	18									
344450	Premkumar Salibendla	18									

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS
0	SKID PUMP CMT TWIN HT400 ADVANTAGE 10851913	24
0	Electric Hydraulic Package 10851913	24
0	4 Tank Electric CMS 109658	24

SAP#	VEHICLES / TRAILERS	HOURS

SAP#	BULK SUPPLY / TANKS	HOURS
#N/A	Rig supplied Bulk system	

SAP#	OTHER EQUIPMENT	HOURS

FLOAT EQUIPMENT AND CASING EQUIPMENT

SAP#	FLOAT EQUIPMENT	QTY
0	13 3/8 Float Shoe (Halliburton)	1
0	13 3/8 Float Collar (Halliburton)	1
0	13 3/8 Float Collar (Halliburton)	1

SAP#	PLUGS	QTY
0	Halliburton Sub sea 13 3/8 plug set	
0	Halliburton Sub sea Wiper plug release Ball	
0	Halliburton sub sea Top plug dart	

SAP#	CASING ATTACHMENTS	QTY
0	Halliburton 13 3/8 centraliser Bow spring	

SAP#	OTHER	QTY

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASING ONE	PREVIOUS CASING TWO
13.375in 68ppf Butt	17.5in + 10% excess 0m to 1117m	30x20in ppf Drillquip	
0m to 122.18m MD, 1117m TVD		0m to 122.18m	

FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING 5.5in 24.7ppf S135 XT 57

CEMENT DESIGN

SLURRY 1 - Lead				SLURRY 2 - Tail					
DENSITY	12.5ppg	WATER REQ	11.8gal/sk	DENSITY	15.9ppg	WATER REQ	5.16 gal/sk	DENSITY	WATER REQ
YIELD	2.21cuft/sk	MIX FLUID REQ	12.2gal/sk	YIELD	1.16cuft/sk	MIX FLUID REQ	5.16 gal/sk	YIELD	MIX FLUID REQ
WATER SOURCE :		Sea,		WATER SOURCE :		sea		WATER SOURCE :	
CEMENT TYPE:		ABC Class 'G' @ 94 lb/sk		CEMENT TYPE:		ABC Class 'G' @ 94 lb/sk		CEMENT TYPE:	
Total Cement Used		510 MT		Total Cement Used		290 sks		Total Cement Used	
Estimated TOC		600 m		Estimated TOC		1000 m		Estimated TOC	

Additive	Concentration	Total Used
Econolite	15 gal/10bbl	236 gals
NF-6	as req.	

Additive	Concentration	Total Used
CFR-3L	3 gal/10bbl	12 gals
HR-6L	2 gal/10bbl	8 gals
NF-6	as req	5 gal

Additive	Concentration	Total Used

PUMPING SCHEDULE												
FLUID DESCRIPTION		VOLUME bbls	DENSITY ppg	RATE bpm	FLUID DESCRIPTION		VOLUME bbls	DENSITY ppg	RATE bpm	FLUID DESCRIPTION		VOLUME bbls	DENSITY ppg	RATE bpm
1)	sea water	60	8.54	6	5)	sea water	12	8.54	6					
2)	Sea water + Dye	10	8.54	6										
3)	Cement	210	12.5	7										
4)	Cement	68	15.9	6										

ADDITIONAL COMMENTS
did not bump Plug half the shoe track volume was displaced (3 BBL)
floats held 3 bbl was flowed back,
final pressure after pump where shut off was 350PSI
13 3/8 cemet job start time 1100 hrs
13 3/8 cement job end time 1500 hrs

4.2.2 JOB LOGS

HALLIBURTON	CUSTOMER	SALES ORDER No.	DATE
	3D Oil	0	29-April-2008

CEMENT/PUMPING JOB LOGS & DETAILS

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Shaughan Corless	Exploration

JOB TYPE	JOB PURPOSE CODE	BDA	RIG
Zonal Isolation	SURFACE CASING 7521	Perth	West Triton

JOB LOG

DATE DAY-MTH-YR	TIME HRS:MIN	VOLUME BBLS	PRESSURE (psi) HIGH	 LOW	RATE BPM	JOB DESCRIPTION REMARKS/DETAILS
29/04/2008	9:30					Hold JSA with Drill Quip on the rig Floor
	9:20					Rig up cement lines and cement head
	9:44					Rig circulate
	11:10	10	300		5	Pump 10 BBl sea water spacer
	11:15		4000			Pressure Test Lines to 4000 PSI
	11:20	50	300		6	Pump 50 BBl sea water spacer
	11:35					Drop Ball to shear wiper Plug
	11:00					Problem with not seeing a shear of the wiper plug
	12:40	200	300		7	Mix and pump Lead cement @ 12.5 PPG
	13:05	60	30		6	Mix and pump Tail cement @15.9 PPG
						Release Top Dart
						Pump 2 BBL
			2000			see shear
	13:45	10	300			Pump 10 BBl of sea water
	13:45					Switch to Rig
	13:48	542	730		15	Rig Displace
						Did not bump
		2				Bleed Off Pressure and record flow back
						wash up

HALLIBURTON

4.2.3 KPI & EJCS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
3D Oil	0	29-April-2008

CEMENT/PUMPING KPI & EJCS

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse 3	Bass Strait	Australia	Nigel Lucas	Shaughan Corless	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
Zonal Isolation		SURFACE CASING 7521		Perth	West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing): *Select the job type (Cementing or Non-Cementing)*	Cementing	**WAS THIS A PRIMARY CEMENT JOB (YES / NO)** *Primary cement job = Casing job, Liner Job, tie back*	YES
TOTAL OPERATING TIME (hrs) *Rig up/ Pumping/ Rig Down*	12.0 hrs	**DID WE RUN WIPER PLUGS?**	None
HSE INCIDENT, ACCIDENT, INJURY: *This should be recordable incidents only*	NO	**WAS THIS A PLUG OR SQUEEZE JOB?**	Neither
WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN?: *This will be dictated by the customer*	YES	**WAS THIS A PRIMARY OR REMEDIAL JOB?** Remedial = Repeated attempts or corrections of initial cement job	Primary
TOTAL TIME PUMPING (hrs) *Total number of hours pumping fluid on this job*	4 Hrs	**MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE** *Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100*	99%
NON -PRODUCTIVE RIG TIME: *As a result of Halliburton cementing PSL*	100 mins	**WAS AUTOMATED DENSITY CONTROL USED**	YES
NUMBER OF JSA'S PERFORMED:	1	**JOB WAS PUMPED AT DESIGNED PUMP RATE** *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*	95%
NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)	2		
TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON:	JACKUP	**NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES** *Number of remedial squeeze jobs required after primary job performed by HES*	nil
REASON FOR UNPLANNED SHUTDOWNS (After starting to pump) *Add details in job logs*		**NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION** *Number of remedial squeeze jobs required after primary job performed by competition*	nil
REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility): *Add details in job logs*		**NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES** *Number of remedial plug jobs required after primary plug pumped by HES*	nil

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 Halliburton.

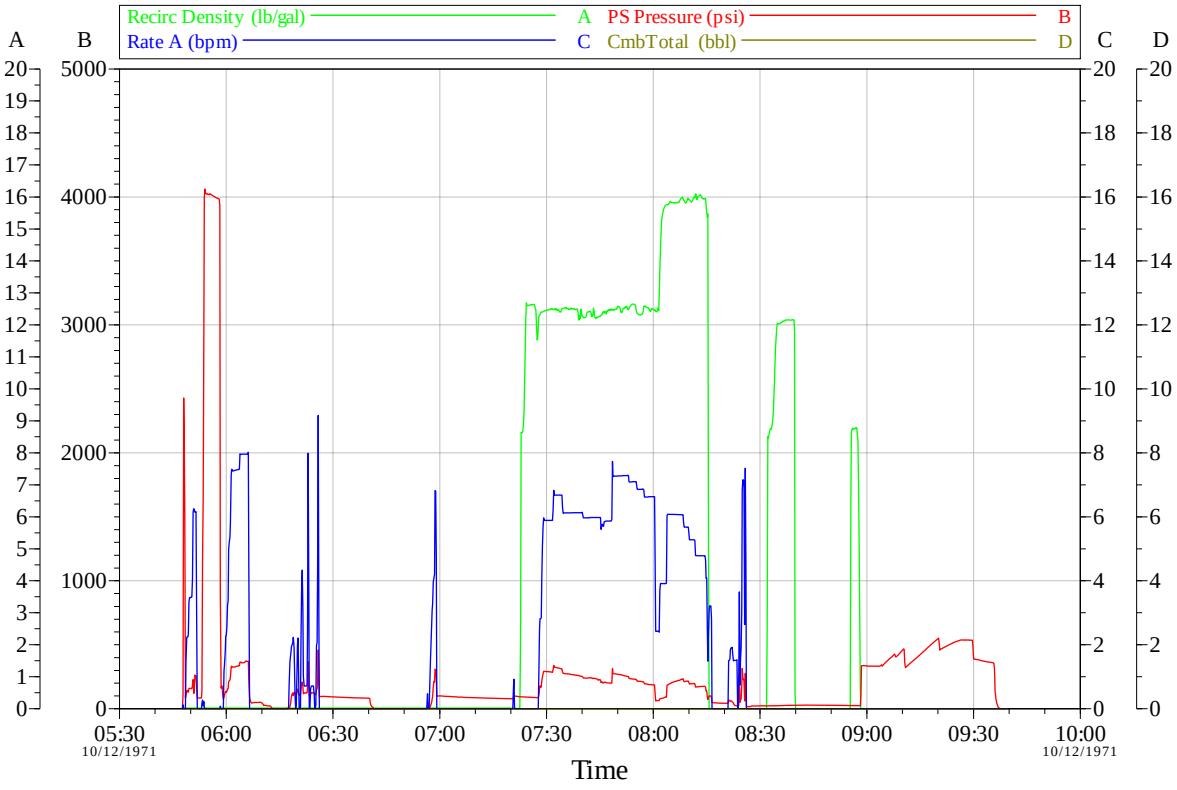
Please indicate your response by placing a tick in the box underneath the rating that best matches your opinion.

	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?)*

4.2.4 Pumping Chart



Customer: Well Desc:	Job Date: UWI:	Ticket #:	CemWin v1.7.2 08-May-08 10:23

HALLIBURTON

4.3 P&A Plugs

4.3.1 KPI&EJCS

HALLIBURTON

CUSTOMER	SALES ORDER No.	DATE
ADA	0	7 May 2008

CEMENT/PUMPING JOB SUMMARY

WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
West Seahorse #3	Bass Strait	Australia	R.Bridgman	S.Corless	Exploration
JOB TYPE		**JOB PURPOSE CODE**		**BDA**	**RIG**
P&A Plugs		PLUG TO ABANDON 7528		Perth	West Triton

KEY PERFORMANCE INDICATORS

TYPE OF JOB (Cementing or Non-Cementing):	Cementing	**WAS THIS A PRIMARY CEMENT JOB (YES / NO)**	NO
Select the job type (Cementing or Non-Cementing)		*Primary cement job = Casing job, Liner Job, tie back*	
TOTAL OPERATING TIME (hrs)	5.0 hrs	**DID WE RUN WIPER PLUGS?**	None
Rig up/ Pumping/ Rig Down			
HSE INCIDENT, ACCIDENT, INJURY:	NO	**WAS THIS A PLUG OR SQUEEZE JOB?**	Plug Job
This should be recordable incidents only			
WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN	YES	**WAS THIS A PRIMARY OR REMEDIAL JOB?**	Primary
This will be dictated by the customer		Remedial = Repeated attempts or corrections of initial cement job	
TOTAL TIME PUMPING (hrs)	4.0 hrs	**MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE**	100%
Total number of hours pumping fluid on this job		*Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed*	
NON -PRODUCTIVE RIG TIME:	0.0 hrs	*density divided by total bbls of cement multiplied by 100*	
As a result of Halliburton cementing PSL		**WAS AUTOMATED DENSITY CONTROL USED**	YES
NUMBER OF JSA'S PERFORMED:	2		
		JOB WAS PUMPED AT DESIGNED PUMP RATE	100%
NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)	0	*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	
TYPE OF RIG(CLASSIFICATION) JOB WAS PERFORMED ON:	JACKUP	**NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES**	0
		Number of remedial squeeze jobs required after primary job performed by HES	
REASON FOR UNPLANNED SHUTDOWNS (After starting to pump)		**NUMBER OF REMEDIAL AQUEEZE JOBS REQUIRED - COMPETITION**	0
Add details in job logs		*Number of remedial squeeze jobs required after primary job performed by competition*	
REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility):		**NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES**	0
Add details in job logs		*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)	**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:** .....

4.3.2 SUMMARY

PERSONELL

PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE		hrs	PERSONNEL / EXPOSURE	hrs
386793	Robert Bridgman	12	127046	Rodney Stares	12	331198	Anthony Kelly	12		

EQUIPMENT

SAP#	PUMPING / MIXING	HOURS	SAP#	BULK SUPPLY / TANKS	HOURS
10951913	SKD ADVANTAGE 25DZ2 - WEST TRITON	5			

WELL PROFILE

NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
	12.25in, 15 percent excess, 1117m to 1780m, Caliper = 55.13bbls	13.375in, 68ppf, 0m to 1117m
FOR PLUG AND LINER JOBS PLEASE INDICATE WORKSTRING	5.5in 24.7ppf Drill Pipe with No Stinger	

CEMENT DESIGN

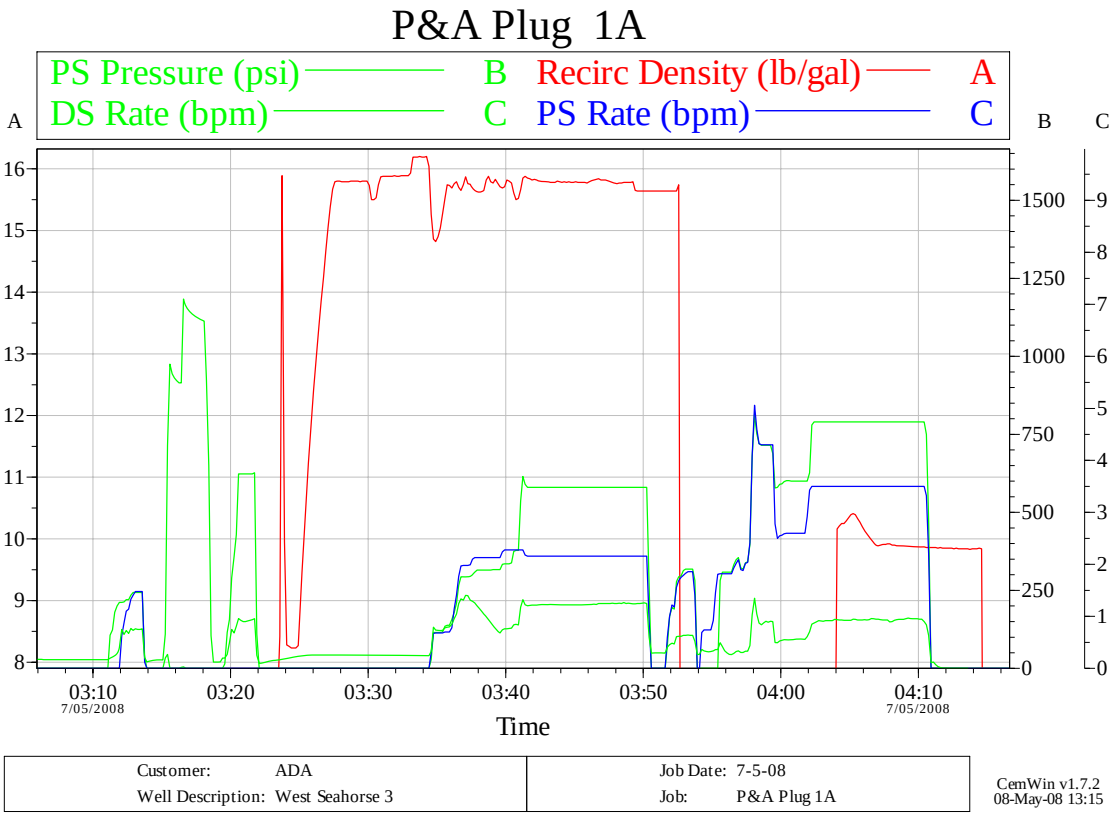
Plug				Plug				Plug			
DENSITY	15.8ppg	WATER	5.07gal/sk	DENSITY	15.8ppg	WATER	5.07gal/sk	DENSITY	15.8ppg	WATER	5.07gal/sk
YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk	YIELD	1.16cuft/ft	MIX FLUID	5.12gal/sk
WATER SOURCE	Drillwater			WATER SOURCE	Drillwater			WATER SOURCE	Drillwater		
CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk			CEMENT TYPE	ABC Class 'G' at 94lb/sk		
Total Cement Used	358sks			Total Cement Used	377sks			Total Cement Used	315sks		
Estimated TOC	1630m			Estimated TOC	1500m			Estimated TOC	1030m		
Additive	Concentration	Total Used		Additive	Concentration	Total Used		Additive	Concentration	Total Used	
CFR-3L	3 gal/10bbl	12gals		CFR-3L	3 gal/10bbl	15gals		CFR-3L	3 gal/10bbl	12gals	
SCR-100L	1 gal/10bbl	4gals		SCR-100L	1 gal/10bbl	5gals		SCR-100L	1 gal/10bbl	4gals	
NF-6	0.25 gal/10bbl	1gals		NF-6	0.25 gal/10bbl	1gals		NF-6	0.25 gal/10bbl	1gals	

Plug			
DENSITY	15.9ppg	WATER	5.20gal/sk
YIELD	1.17cuft/ft	MIX FLUID	5.20gal/sk
WATER SOURCE	Seawater		
CEMENT TYPE	ABC Class 'G' at 94lb/sk		
Total Cement Used	183sks		
Estimated TOC	130m		
Additive	Concentration	Total Used	
NF-6	0.25 gal/10bbl	1gals	

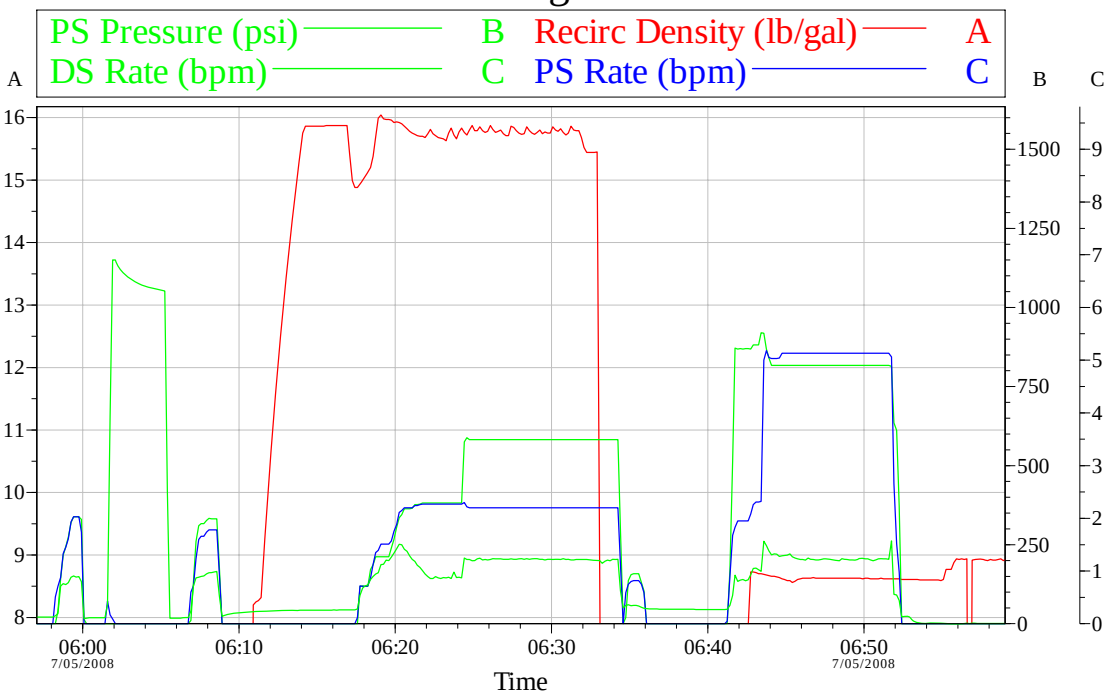
4.3.3 JOB LOGS

JOB LOGS						
DATE	TIME	VOLUME	PRESSURE (psi)		RATE	JOB DESCRIPTION
7/05/2008	2:50					JSA
PLUG #1A	3:10	5		177	3	Pump 5 BBL Drillwater
	3:12		1000			Test Lines
	3:15	6		231	3.5	Pump 6 BBL Drillwater
	3.25	74		241	5	Mix & Pump74 BBL 15.8 ppg Slurry
	3:52	2			2	Pump 2 BBL Drillwater
	3:53	102		180	8	Pump 102 BBL Mud
	4:08					Bleed off
PLUG #1B						
	5.57	5		180	4	Pump 5 BBL Drillwater
	5:59		1000			Test Lines
	6:05	6		217	4	Pump 6 BBL Drillwater
	6:14	78		190	5	Mix & Pump78 BBL 15.8 ppg Slurry
	6:35	2			2	Pump 2 BBL Drillwater
	6:38	90		190	10	Pump 90 BBL Mud
	6:51					Bleed off
PLUG #2						
	13:45					JSA
	14:15	5		180	4	Pump 5 BBL Drillwater
	14:18		1000			Test Lines
	14:25	6		120	4	Pump 6 BBL Drillwater
	14:28	65		190	65	Mix & Pump 65 BBL 15.8 ppg Slurry
	14:48	2			2	Pump 2 BBL Drillwater
	14:50	60		190	8.5	Pump 60 BBL Mud
	14:57					Bleed off
	22:14					Test Plug #2 1500 Psi
PLUG #3						
	23:07	5		180	4	Pump 5 BBL Seawater
	23:09		1000			Test Lines
	23:19	6			4.5	Pump 6 BBL Seawater
	23:24	38		180	5	Mix & Pump 38 BBL 15.9 ppg Slurry
	23:33	5		130	4	Pump 5 BBL Seawater
	23:39					Bleed off
						Chemicals
						45 gals CFR3-L
						15 gals SCR100L
						5 gals NF6
						Cement
						52.55 MT Class G
END OF JOB LOGS						

4.3.4 PUMPING CHARTS



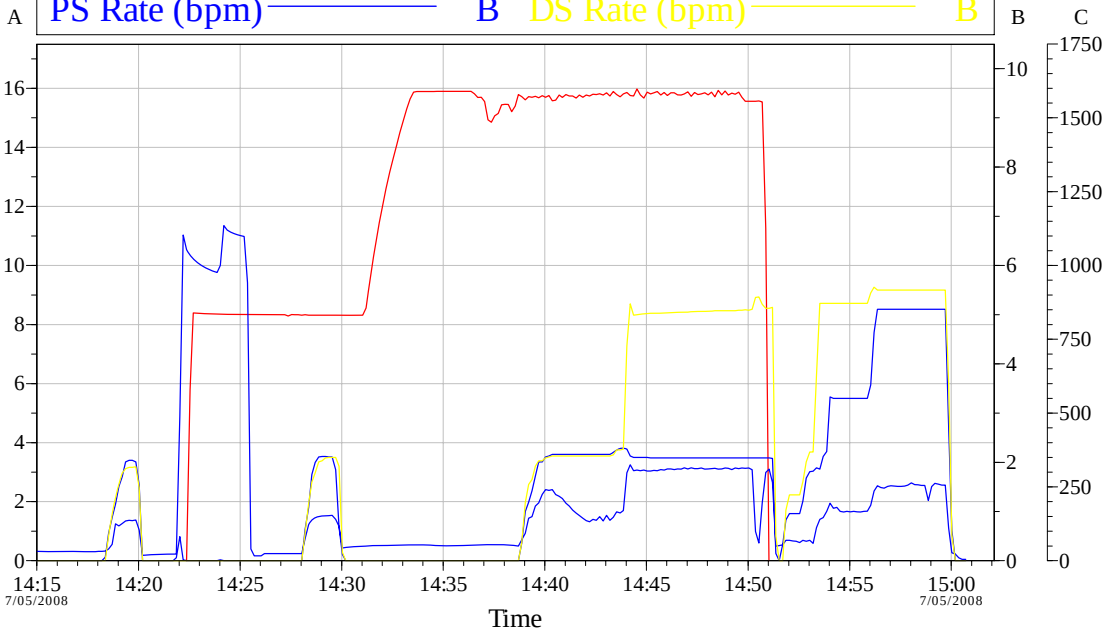
P&A Plug 1B



Customer: ADA	Job Date: 7-5-08
Well Description: West Seahorse 3	Job: P&A Plug 1B

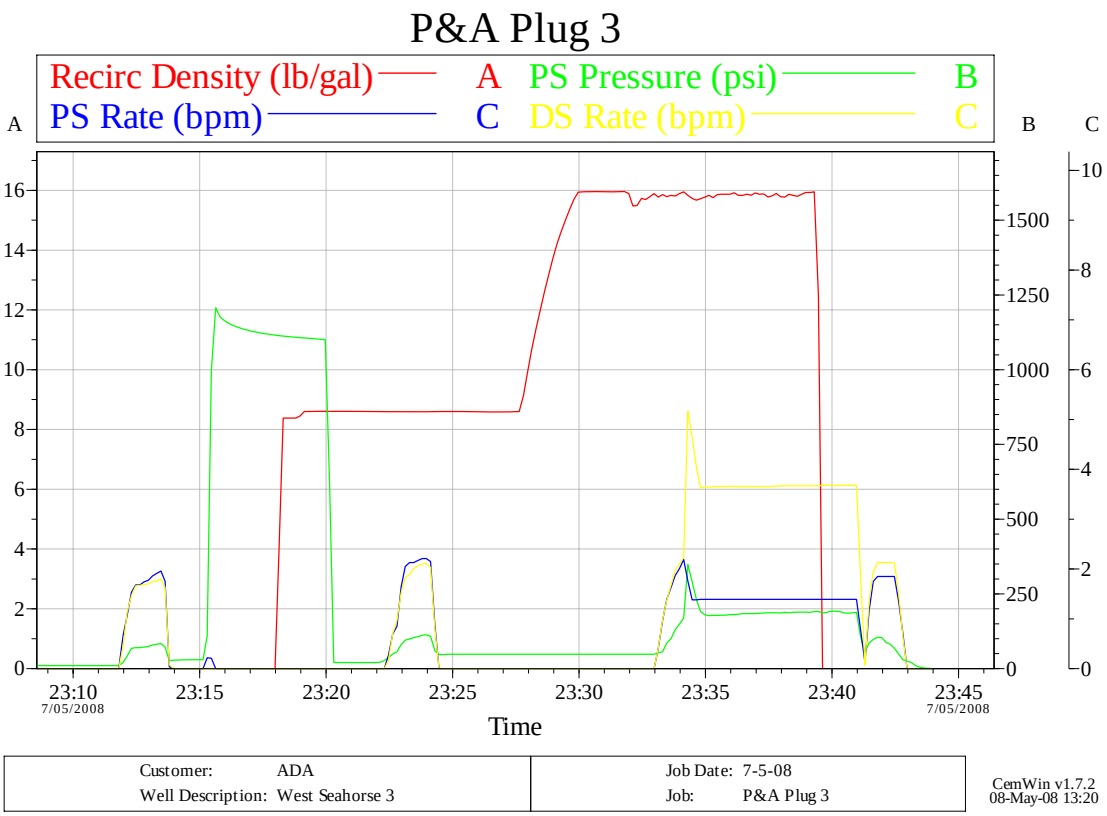
CemWin v1.7.2
08-May-08 13:17

P&A Plug 2



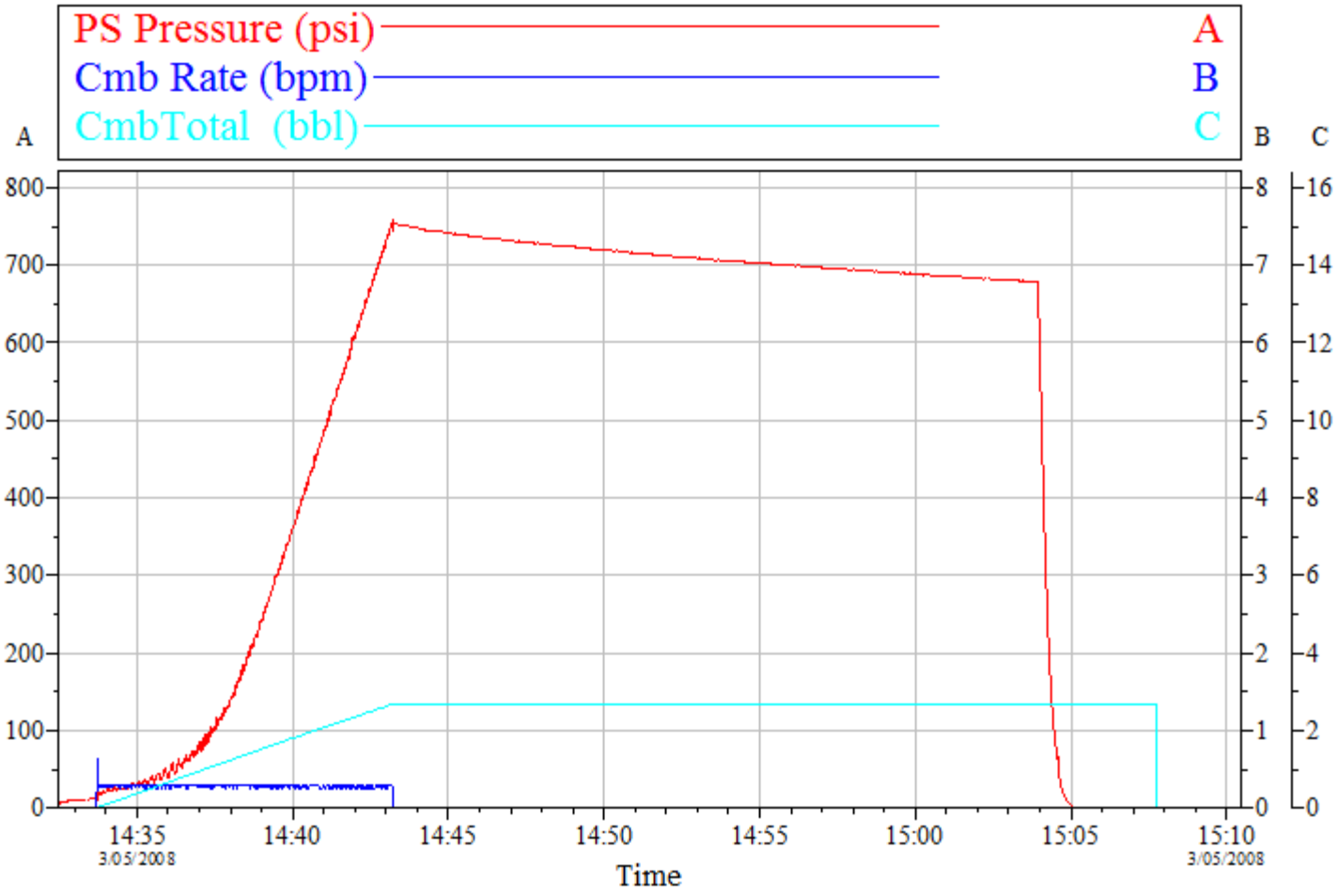
Customer: ADA	Job Date: 7-5-08
Well Description: West Seahorse 3	Job: P&A Plug 2

CemWin v1.7.2
08-May-08 13:19


P&A Plug 3
Recirc Density (lb/gal) A
PS Pressure (psi) B
PS Rate (bpm) C
DS Rate (bpm) C
A
B
C
16
14
12
10
8
6
4
2
0
1500
1250
1000
750
500
250
0
10
8
6
4
2
0
23:10
7/05/2008
23:15
23:20
23:25
23:30
23:35
23:40
23:45
7/05/2008
Time
Customer: ADA
Well Description: West Seahorse 3
Job Date: 7-5-08
Job: P&A Plug 3
CemWin v1.7.2
08-May-08 13:20

Attachment 6

LOT/FIT Report



Customer: ADA	Job Date: 3-5-08
Well Name: West Seahorse 3	Job: FIT

CemWin v1.7.2
03-May-08 15:56

FIT / LOT TEST RESULTS.

Australian Drilling Associates Pty Ltd ADA

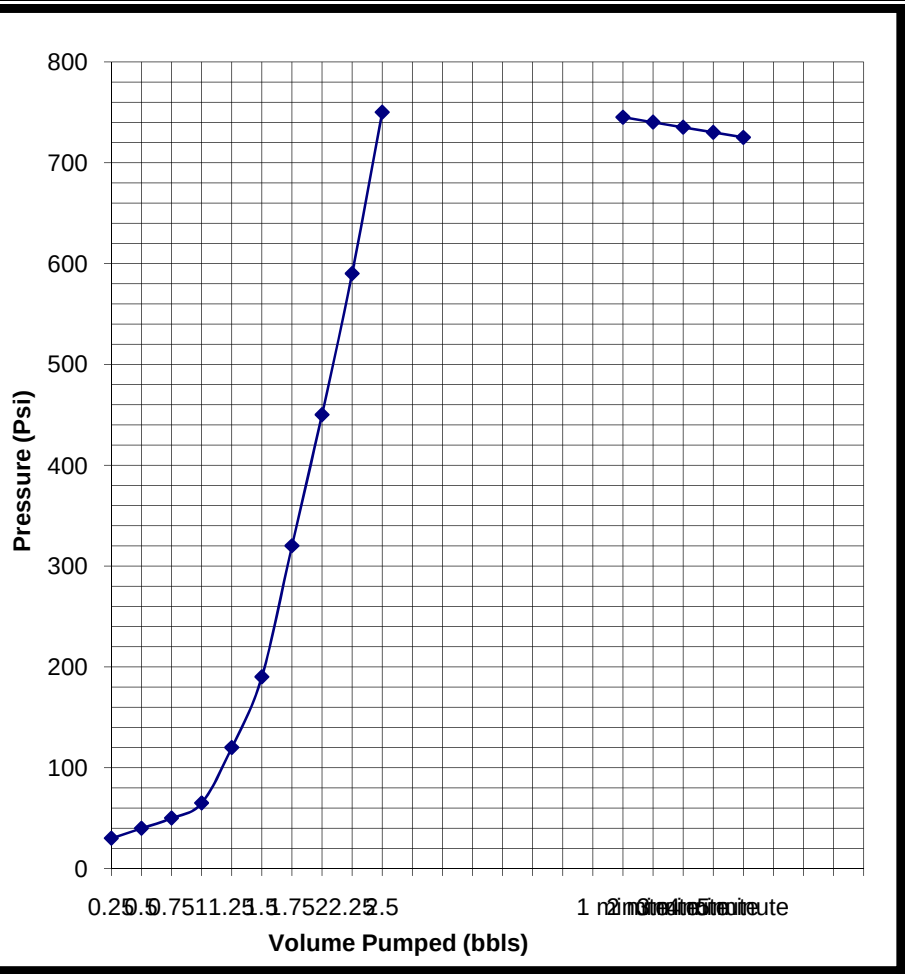
FIT / LOT DATA					
TEST DATE:	3/05/2008	WELL #:	West Seahorse-3	CLIENT:	3D Oil

CASING DATA				TEST MUD DATA	
CASING SIZE	CASING GRADE	SHOE TVD (M)	SHOE MD (M)	WEIGHT (PPG)	VISCOSITY (SEC)
13 3/8	N80	1034	1117	9.4	50

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):
750	4.25	13.65	2.5	2.5

SURFACE PRESSURE (PSI):	VOLUME PUMPED (BBLS):
30	0.25
40	0.5
50	0.75
65	1
120	1.25
190	1.5
320	1.75
450	2
590	2.25
750	2.5
745	1 minute
740	2 minute
735	3 minute
730	4 minute
725	5 minute



PRESENT DAY INFO.				
DATE:	DEPTH (M):		MUD:	
	MD:	TVD:	WEIGHT (PPG):	VISCOSITY (SEC):
16/05/2008	1034	1034	9.4	50

MAASP = 750

COMMENTS:	

Attachment 7

Directional Drilling Report

Schlumberger

3D Oil

West Seahorse-3

End of Well Report

	Name	Signature	Date
Schlumberger QC	David de Freitas		
Client approval			

Schlumberger

Contents

Schlumberger

General Information

Client:	3D Oil	
Well Name:	West Seahorse-3	
Rig:	West Triton	
Field:	West Seahorse	
Location:	Bass Strait	
Country:	Australia	
Cell Members:	**Patrick Dassens (DD)** **Punniamoorthy Sellathurai (DD)** **Kevin Stroud (DDT)** **Jun Ikeda (MWD)** **San Thida Aung (MWD)**	
Town Contacts:	**David de Freitas** **Mee Yean Tan**	Directional Drilling Coordinator Field Services Manager
Company Representatives:	**S. Corless** **R. Rossouw** **M. Ngatai**	Company Representative Company Representative Wellsite Geologist

Schlumberger

Geomagnetic and Survey Reference Criteria

Geomagnetic Data

Magnetic Model:	**BGGM 2007**
Magnetic Date:	April 29th 2008
Magnetic Field Strength:	59946.745 nT
Magnetic Declination:	12.844°
Magnetic Dip:	-68.778°

Survey Reference Criteria

Reference G:	1000.02 mG
Reference H:	1198.93HCNT
Reference Dip:	-68.778°
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:	12.844°
Grid Convergence:	-0.38311463°
Total Azimuth Correction:	+13.227°
Vertical Section Azimuth:	62.960°

Survey Reference Location

Location Coordinates

Latitude:	38° 12' 24.942" South
Longitude:	147° 37' 9.865" East
Easting:	554229.358m
Northing:	5771044.135m
Reference System:	

Schlumberger

3D Oil Ltd

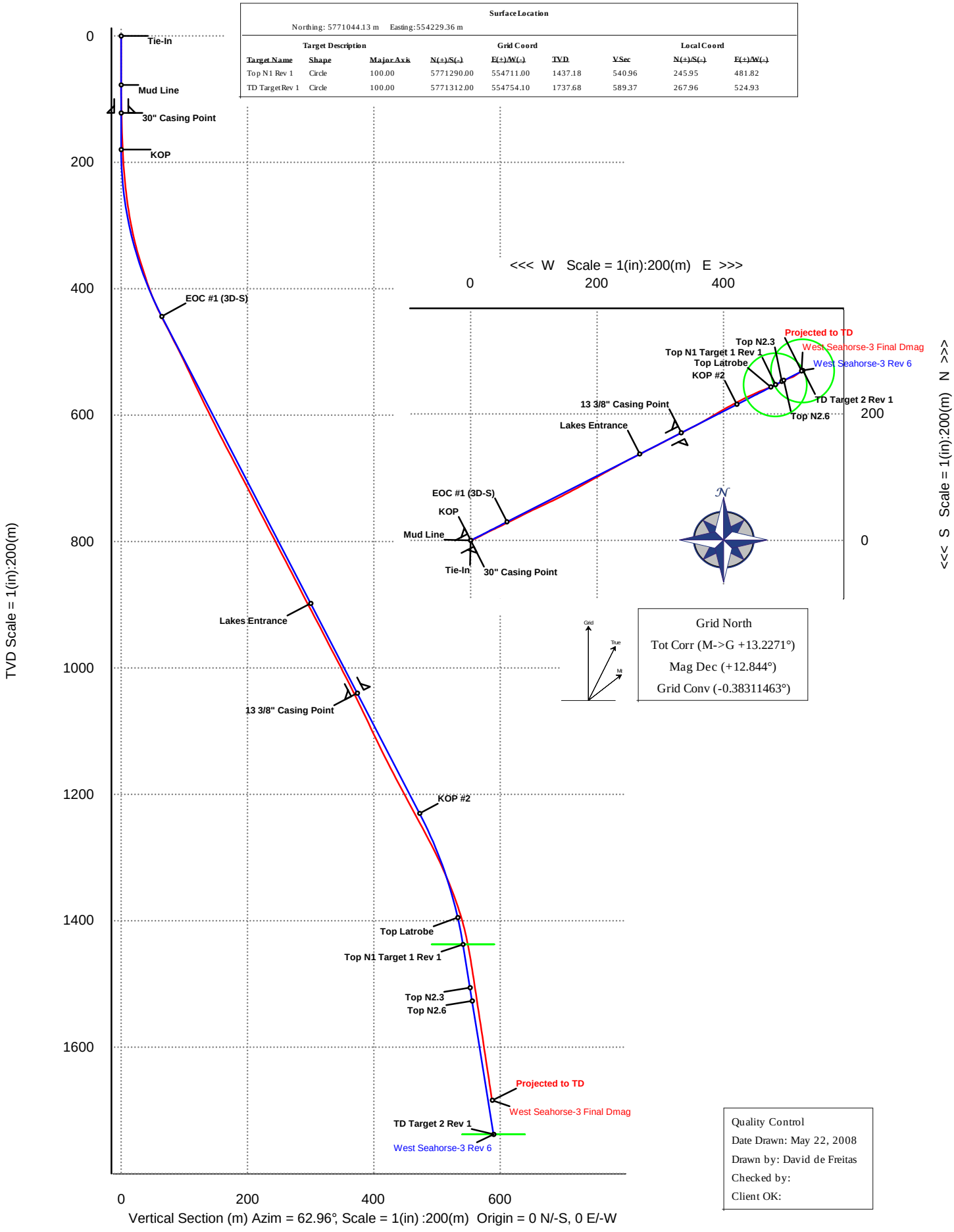
WELL	FIELD	STRUCTURE
West Seahorse-3	3D Oil - West Seahorse	West Seahorse

Magnetic Parameters				Surface Location				Miscellaneous	
Model: BGGM 2007	Dip: -68.778°	Date: April 29, 2008		Lat: S38 12 24.942	Northing: 5771044.13 m	Grid Conv: -0.38311463°	GDA94/MGA94 Zone 55	Slot: 1	TVD Ref: RKB (37.68 m above MSL)
	Mag Dec: +12.844°	FS: 59946.7 nT		Lon: E147 37 9.865	Easting: 554229.36 m	Scale Fact: 0.9996362174		Plan: West Seahorse-3 Final Srvy	Date: April 29, 2008

Surface Location

Northing: 5771044.13 m Easting: 554229.36 m

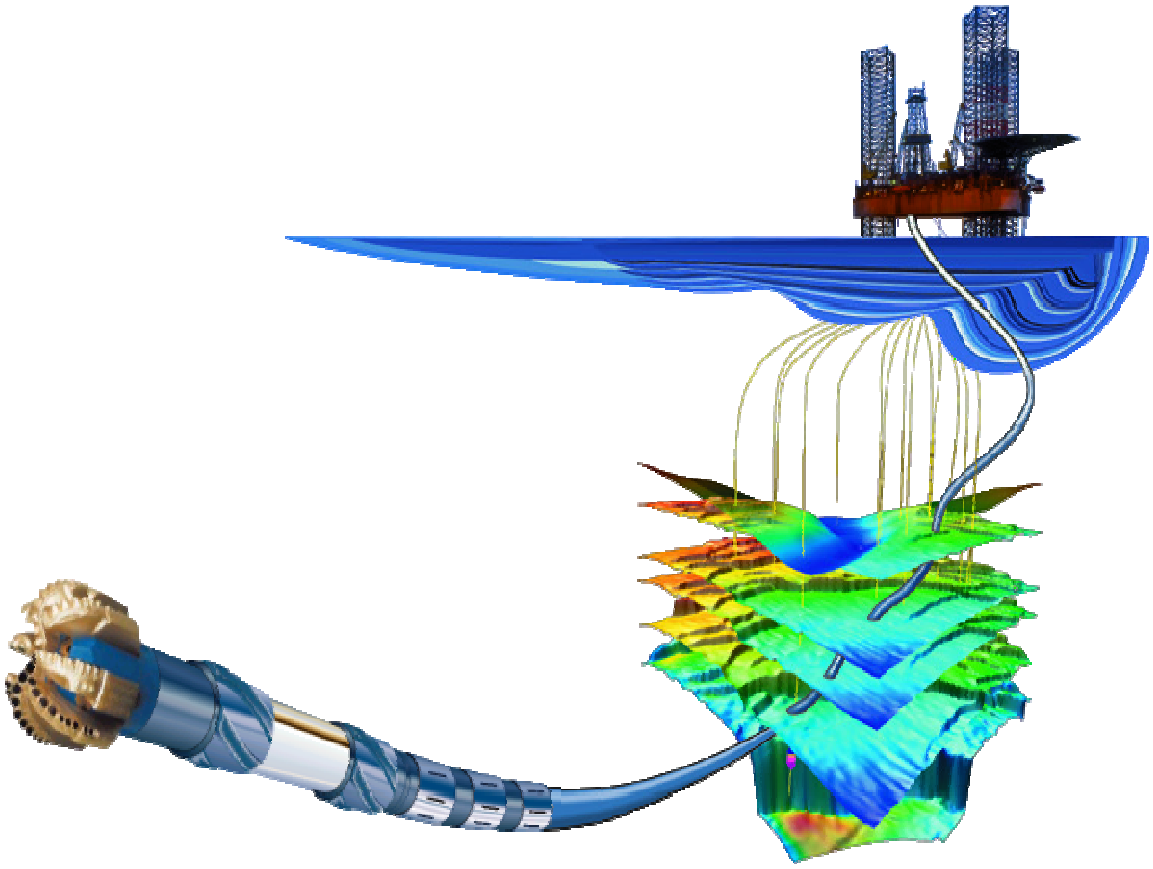
Target Description			Grid Coord				Local Coord	
Target Name	Shape	Major Axis	N(+)/S(-)	E(+)/W(-)	TVD	VSec	N(+)/S(-)	E(+)/W(-)
Top N1 Rev 1	Circle	100.00	5771290.00	554711.00	1437.18	540.96	245.95	481.82
TD Target Rev 1	Circle	100.00	5771312.00	554754.10	1737.68	589.37	267.96	524.93



Quality Control
Date Drawn: May 22, 2008
Drawn by: David de Freitas
Checked by:
Client OK:

Schlumberger

Definitive Survey



Schlumberger

West Seahorse-3 Final DMAG Survey

Report Date:	May 21, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	3D Oil Ltd	**Vertical Section Azimuth:**	62.960°
Field:	3D Oil - West Seahorse	**Vertical Section Origin:**	N 0.000 m, E 0.000 m
Structure / Slot:	West Seahorse / 1	**TVD Reference Datum:**	RKB
Well:	West Seahorse-3	**TVD Reference Elevation:**	37.7 m relative to MSL
Borehole:	West Seahorse-3	**Sea Bed / Ground Level Elevation:**	-39.500 m relative to MSL
UWI/API#:		**Magnetic Declination:**	12.844°
Survey Name / Date:	West Seahorse-3 Final Dmag / April 29, 2008	**Total Field Strength:**	59946.745 nT
Tort / AHD / DDI / ERD ratio:	73.430° / 587.54 m / 5.182 / 0.349	**Magnetic Dip:**	-68.778°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	April 29, 2008
Location Lat/Long:	S 38 12 24.942, E 147 37 9.865	**Magnetic Declination Model:**	BGGM 2007
Location Grid N/E Y/X:	N 5771044.135 m, E 554229.358 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.38311463°	**Total Corr Mag North -> Grid North:**	+13.227°
Grid Scale Factor:	0.99963622	**Local Coordinates Referenced To:**	Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth Grid (deg)	Course Length (m)	TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (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	0.00	---
Mud Line	77.50	0.00	0.00	77.50	77.50	0.00	0.00	0.00	0.00	0.00	0.00	71.37M
	182.42	2.71	71.37	104.92	182.38	2.45	0.79	2.35	2.48	71.37	0.77	68.61M
	210.69	4.37	68.61	28.27	210.60	4.19	1.40	3.99	4.23	70.67	1.77	65.93M
	240.38	6.29	65.93	29.69	240.16	6.94	2.47	6.53	6.98	69.23	1.96	7.93L
	269.55	8.46	63.88	29.17	269.08	10.68	4.07	9.91	10.72	67.67	2.25	2.08L
	299.18	10.91	63.41	29.63	298.29	15.66	6.29	14.38	15.69	66.38	2.48	9.23L
	328.89	13.72	61.49	29.71	327.31	22.00	9.23	19.99	22.02	65.22	2.87	9.02R
	358.27	17.82	63.61	29.38	355.58	29.98	12.89	27.08	29.99	64.55	4.23	87.82R
	388.46	17.83	64.35	30.19	384.32	39.22	16.94	35.38	39.23	64.41	0.23	0.81R
	417.21	21.75	64.50	28.75	411.37	48.95	21.14	44.16	48.96	64.42	4.09	6.26L
	446.30	26.47	63.34	29.09	437.91	60.83	26.38	54.83	60.84	64.31	4.89	5.72R
	476.28	27.58	63.58	29.98	464.62	74.45	32.46	67.01	74.46	64.15	1.12	153.10L
	505.67	26.63	62.50	29.39	490.78	87.84	38.53	78.95	87.85	63.99	1.09	127.44R
	534.94	25.97	64.51	29.27	517.02	100.80	44.32	90.55	100.82	63.92	1.14	179.19L
	564.20	25.07	64.48	29.26	543.43	113.41	49.75	101.93	113.42	63.99	0.92	15.00R
	622.88	26.33	65.24	58.68	596.30	138.84	60.55	124.97	138.87	64.15	0.67	61.41L
	653.06	26.86	63.15	30.18	623.29	152.34	66.44	137.13	152.38	64.15	1.07	35.71L
	682.20	27.68	61.89	29.14	649.19	165.69	72.60	148.97	165.72	64.02	1.03	154.70R
	711.65	27.35	62.23	29.45	675.31	179.30	78.97	160.99	179.32	63.87	0.37	53.29L
	740.89	27.59	61.54	29.24	701.25	192.78	85.33	172.89	192.80	63.73	0.41	100.84L
	771.14	27.55	61.08	30.25	728.07	206.78	92.05	185.17	206.79	63.57	0.21	143.92L
	800.56	27.43	60.89	29.42	754.17	220.35	98.64	197.05	220.36	63.41	0.15	27.14R
	829.48	27.85	61.35	28.92	779.78	233.76	105.12	208.79	233.76	63.28	0.49	173.09L
	858.79	27.32	61.21	29.31	805.76	247.32	111.64	220.70	247.33	63.17	0.55	32.51R
	888.16	27.56	61.54	29.37	831.83	260.85	118.12	232.58	260.85	63.07	0.29	134.05R
	917.34	27.23	62.29	29.18	857.74	274.28	124.44	244.42	274.28	63.02	0.49	106.23R
	947.31	27.18	62.67	29.97	884.39	287.98	130.77	256.57	287.98	62.99	0.18	8.31R
	975.78	28.05	62.94	28.47	909.62	301.18	136.81	268.31	301.18	62.98	0.93	150.13R
	1005.05	27.38	63.78	29.27	935.53	314.79	142.91	280.48	314.79	63.00	0.79	113.70L
	1034.76	27.21	62.92	29.71	961.93	328.41	149.02	292.65	328.41	63.01	0.43	41.49L
	1064.70	27.86	61.70	29.94	988.48	342.25	155.45	304.91	342.25	62.99	0.86	149.68R
	1094.42	27.04	62.76	29.72	1014.85	355.95	161.84	317.03	355.95	62.96	0.96	166.79R
	1143.32	25.87	63.39	48.90	1058.63	377.73	171.70	336.45	377.73	62.96	0.74	158.21L
	1155.24	25.60	63.14	11.92	1069.37	382.91	174.03	341.07	382.91	62.97	0.73	133.66L
	1184.95	25.36	62.55	29.71	1096.19	395.69	179.87	352.45	395.69	62.96	0.35	37.50L

	1214.47	26.04	61.37	29.52	1122.79	408.49	185.88	363.74	408.49	62.93	0.86	31.66L
	1244.37	26.98	60.10	29.90	1149.55	421.82	192.41	375.38	421.82	62.86	1.10	22.19L
	1273.71	27.90	59.30	29.34	1175.59	435.32	199.23	387.06	435.32	62.76	1.01	38.25R
	1303.22	28.28	59.93	29.51	1201.62	449.19	206.26	399.04	449.20	62.67	0.49	85.80R
	1333.07	28.34	61.42	29.85	1227.90	463.34	213.19	411.38	463.34	62.61	0.71	101.29R
	1362.30	28.22	62.76	29.23	1253.64	477.18	219.68	423.62	477.19	62.59	0.66	154.80R
	1392.46	27.26	63.75	30.16	1280.33	491.22	225.99	436.16	491.23	62.61	1.06	156.70R
	1421.70	25.28	65.76	29.24	1306.55	504.15	231.52	447.86	504.16	62.66	2.23	165.32R
	1451.62	22.71	67.51	29.92	1333.89	516.29	236.35	459.02	516.30	62.76	2.67	171.38R
	1481.39	20.37	68.53	29.77	1361.58	527.18	240.45	469.15	527.18	62.86	2.39	174.73L
	1511.23	17.28	67.57	29.84	1389.82	536.77	244.04	478.08	536.77	62.96	3.12	170.35L
	1540.81	13.06	64.38	29.58	1418.36	544.49	247.16	485.16	544.49	63.00	4.36	161.40L
	1570.48	10.61	59.84	29.67	1447.40	550.57	249.99	490.55	550.57	63.00	2.65	171.93L
	1600.19	8.73	58.08	29.71	1476.68	555.55	252.55	494.83	555.55	62.96	1.92	94.34R
	1629.88	8.74	67.66	29.69	1506.03	560.04	254.60	498.83	560.04	62.96	1.47	107.14R
	1658.96	8.56	72.15	29.08	1534.78	564.38	256.10	502.93	564.38	63.01	0.72	55.59L
	1688.35	8.90	69.06	29.39	1563.83	568.80	257.59	507.13	568.80	63.07	0.59	110.77L
	1717.96	8.56	61.83	29.61	1593.10	573.28	259.45	511.22	573.28	63.09	1.16	92.10L
	1747.50	8.58	55.23	29.54	1622.31	577.66	261.74	514.97	577.67	63.06	1.00	43.20L
	1777.39	8.69	54.55	29.89	1651.86	582.11	264.32	518.64	582.11	62.99	0.15	78.07R
	1789.31	8.74	56.02	11.92	1663.64	583.90	265.35	520.12	583.90	62.97	0.57	---
Projected to TD	1810.00	8.74	56.02	20.69	1684.09	587.02	267.11	522.73	587.02	62.93	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	77.18	Act-Stns	SLB_ZERO-Depth Only	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.18	77.50	Act-Stns	SLB_ZERO	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.50	1094.42	Act-Stns	SLB_MWD+DMAG	West Seahorse-3 -> West Seahorse-3 Final Dmag
1094.42	1789.31	Act-Stns	SLB_MWD-STD	West Seahorse-3 -> West Seahorse-3 Final Dmag
1789.31	1810.00	Act-Stns	SLB_BLIND+TREND	West Seahorse-3 -> West Seahorse-3 Final Dmag

Schlumberger

West Seahorse-3 Final Dmag Geodetic Survey

Report Date:	May 21, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	3D Oil Ltd	**Vertical Section Azimuth:**	62.960°
Field:	3D Oil - West Seahorse	**Vertical Section Origin:**	N 0.000 m, E 0.000 m
Structure / Slot:	West Seahorse / 1	**TVD Reference Datum:**	RKB
Well:	West Seahorse-3	**TVD Reference Elevation:**	37.7 m relative to MSL
Borehole:	West Seahorse-3	**Sea Bed / Ground Level Elevation:**	-39.500 m relative to MSL
UWI/API#:		**Magnetic Declination:**	12.844°
Survey Name / Date:	West Seahorse-3 Final Dmag / April 29, 2008	**Total Field Strength:**	59946.745 nT
Tort / AHD / DDI / ERD ratio:	73.430° / 587.54 m / 5.182 / 0.349	**Magnetic Dip:**	-68.778°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	April 29, 2008
Location Lat/Long:	S 38 12 24.942, E 147 37 9.865	**Magnetic Declination Model:**	BGGM 2007
Location Grid N/E Y/X:	N 5771044.135 m, E 554229.358 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.38311463°	**Total Corr Mag North -> Grid North:**	+13.227°
Grid Scale Factor:	0.99963622	**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	5771044.14	554229.36	S 38 12 24.942	E 147 37 9.865
Mud Line	77.50	0.00	0.00	77.50	0.00	0.00	0.00	0.00	5771044.14	554229.36	S 38 12 24.942	E 147 37 9.865
	182.42	2.71	71.37	182.38	2.45	0.79	2.35	0.77	5771044.93	554231.71	S 38 12 24.916	E 147 37 9.961
	210.69	4.37	68.61	210.60	4.19	1.40	3.99	1.77	5771045.53	554233.34	S 38 12 24.896	E 147 37 10.028
	240.38	6.29	65.93	240.16	6.94	2.47	6.53	1.96	5771046.61	554235.88	S 38 12 24.861	E 147 37 10.132
	269.55	8.46	63.88	269.08	10.68	4.07	9.91	2.25	5771048.20	554239.27	S 38 12 24.808	E 147 37 10.271
	299.18	10.91	63.41	298.29	15.66	6.29	14.38	2.48	5771050.42	554243.73	S 38 12 24.735	E 147 37 10.454
	328.89	13.72	61.49	327.31	22.00	9.23	19.99	2.87	5771053.36	554249.34	S 38 12 24.639	E 147 37 10.684
	358.27	17.82	63.61	355.58	29.98	12.89	27.08	4.23	5771057.02	554256.43	S 38 12 24.518	E 147 37 10.974
	388.46	17.83	64.35	384.32	39.22	16.94	35.38	0.23	5771061.07	554264.73	S 38 12 24.385	E 147 37 11.315
	417.21	21.75	64.50	411.37	48.95	21.14	44.16	4.09	5771065.27	554273.51	S 38 12 24.247	E 147 37 11.674
	446.30	26.47	63.34	437.91	60.83	26.38	54.83	4.89	5771070.50	554284.17	S 38 12 24.075	E 147 37 12.111
	476.28	27.58	63.58	464.62	74.45	32.46	67.01	1.12	5771076.59	554296.35	S 38 12 23.875	E 147 37 12.610
	505.67	26.63	62.50	490.78	87.84	38.53	78.95	1.09	5771082.65	554308.28	S 38 12 23.675	E 147 37 13.099
	534.94	25.97	64.51	517.02	100.80	44.32	90.55	1.14	5771088.44	554319.88	S 38 12 23.485	E 147 37 13.575
	564.20	25.07	64.48	543.43	113.41	49.75	101.93	0.92	5771093.86	554331.25	S 38 12 23.307	E 147 37 14.041
	622.88	26.33	65.24	596.30	138.84	60.55	124.97	0.67	5771104.67	554354.28	S 38 12 22.951	E 147 37 14.985
	653.06	26.86	63.15	623.29	152.34	66.44	137.13	1.07	5771110.55	554366.44	S 38 12 22.758	E 147 37 15.483
	682.20	27.68	61.89	649.19	165.69	72.60	148.97	1.03	5771116.71	554378.28	S 38 12 22.555	E 147 37 15.968
	711.65	27.35	62.23	675.31	179.30	78.97	160.99	0.37	5771123.08	554390.29	S 38 12 22.346	E 147 37 16.460
	740.89	27.59	61.54	701.25	192.78	85.33	172.89	0.41	5771129.43	554402.18	S 38 12 22.137	E 147 37 16.947
	771.14	27.55	61.08	728.07	206.78	92.05	185.17	0.21	5771136.15	554414.46	S 38 12 21.917	E 147 37 17.450
	800.56	27.43	60.89	754.17	220.35	98.64	197.05	0.15	5771142.74	554426.33	S 38 12 21.700	E 147 37 17.937
	829.48	27.85	61.35	779.78	233.76	105.12	208.79	0.49	5771149.21	554438.08	S 38 12 21.488	E 147 37 18.418
	858.79	27.32	61.21	805.76	247.32	111.64	220.70	0.55	5771155.73	554449.97	S 38 12 21.274	E 147 37 18.905
	888.16	27.56	61.54	831.83	260.85	118.12	232.58	0.29	5771162.21	554461.85	S 38 12 21.061	E 147 37 19.392
	917.34	27.23	62.29	857.74	274.28	124.44	244.42	0.49	5771168.53	554473.69	S 38 12 20.853	E 147 37 19.877
	947.31	27.18	62.67	884.39	287.98	130.77	256.57	0.18	5771174.86	554485.84	S 38 12 20.645	E 147 37 20.374
	975.78	28.05	62.94	909.62	301.18	136.81	268.31	0.93	5771180.89	554497.57	S 38 12 20.447	E 147 37 20.855
	1005.05	27.38	63.78	935.53	314.79	142.91	280.48	0.79	5771186.99	554509.73	S 38 12 20.246	E 147 37 21.354
	1034.76	27.21	62.92	961.93	328.41	149.02	292.65	0.43	5771193.10	554521.91	S 38 12 20.046	E 147 37 21.852
	1064.70	27.86	61.70	988.48	342.25	155.45	304.91	0.86	5771199.53	554534.16	S 38 12 19.834	E 147 37 22.354
	1094.42	27.04	62.76	1014.85	355.95	161.84	317.03	0.96	5771205.91	554546.27	S 38 12 19.625	E 147 37 22.851
	1143.32	25.87	63.39	1058.63	377.73	171.70	336.45	0.74	5771215.78	554565.69	S 38 12 19.300	E 147 37 23.646
	1155.24	25.60	63.14	1069.37	382.91	174.03	341.07	0.73	5771218.10	554570.31	S 38 12 19.224	E 147 37 23.836
	1184.95	25.36	62.55	1096.19	395.69	179.87	352.45	0.35	5771223.93	554581.68	S 38 12 19.032	E 147 37 24.301
	1214.47	26.04	61.37	1122.79	408.49	185.88	363.74	0.86	5771229.95	554592.97	S 38 12 18.835	E 147 37 24.764
	1244.37	26.98	60.10	1149.55	421.82	192.41	375.38	1.10	5771236.48	554604.61	S 38 12 18.620	E 147 37 25.241
	1273.71	27.90	59.30	1175.59	435.32	199.23	387.06	1.01	5771243.30	554616.27	S 38 12 18.397	E 147 37 25.719
	1303.22	28.28	59.93	1201.62	449.19	206.26	399.04	0.49	5771250.32	554628.26	S 38 12 18.166	E 147 37 26.209
	1333.07	28.34	61.42	1227.90	463.34	213.19	411.38	0.71	5771257.25	554640.59	S 38 12 17.938	E 147 37 26.715

	1362.30	28.22	62.76	1253.64	477.18	219.68	423.62	0.66	5771263.73	554652.83	S 38 12 17.726	E 147 37 27.216
	1392.46	27.26	63.75	1280.33	491.22	225.99	436.16	1.06	5771270.05	554665.36	S 38 12 17.518	E 147 37 27.729
	1421.70	25.28	65.76	1306.55	504.15	231.52	447.86	2.23	5771275.57	554677.05	S 38 12 17.336	E 147 37 28.209
	1451.62	22.71	67.51	1333.89	516.29	236.35	459.02	2.67	5771280.40	554688.21	S 38 12 17.177	E 147 37 28.666
	1481.39	20.37	68.53	1361.58	527.18	240.45	469.15	2.39	5771284.50	554698.34	S 38 12 17.042	E 147 37 29.081
	1511.23	17.28	67.57	1389.82	536.77	244.04	478.08	3.12	5771288.09	554707.27	S 38 12 16.923	E 147 37 29.447
	1540.81	13.06	64.38	1418.36	544.49	247.16	485.16	4.36	5771291.21	554714.34	S 38 12 16.821	E 147 37 29.737
	1570.48	10.61	59.84	1447.40	550.57	249.99	490.55	2.65	5771294.03	554719.73	S 38 12 16.728	E 147 37 29.958
	1600.19	8.73	58.08	1476.68	555.55	252.55	494.83	1.92	5771296.60	554724.00	S 38 12 16.644	E 147 37 30.133
	1629.88	8.74	67.66	1506.03	560.04	254.60	498.83	1.47	5771298.64	554728.00	S 38 12 16.576	E 147 37 30.297
	1658.96	8.56	72.15	1534.78	564.38	256.10	502.93	0.72	5771300.15	554732.10	S 38 12 16.527	E 147 37 30.465
	1688.35	8.90	69.06	1563.83	568.80	257.59	507.13	0.59	5771301.63	554736.31	S 38 12 16.478	E 147 37 30.638
	1717.96	8.56	61.83	1593.10	573.28	259.45	511.22	1.16	5771303.49	554740.39	S 38 12 16.417	E 147 37 30.805
	1747.50	8.58	55.23	1622.31	577.66	261.74	514.97	1.00	5771305.78	554744.14	S 38 12 16.341	E 147 37 30.958
	1777.39	8.69	54.55	1651.86	582.11	264.32	518.64	0.15	5771308.36	554747.81	S 38 12 16.257	E 147 37 31.109
	1789.31	8.74	56.02	1663.64	583.90	265.35	520.12	0.57	5771309.39	554749.29	S 38 12 16.223	E 147 37 31.169
Projected to TD	1810.00	8.74	56.02	1684.09	587.02	267.11	522.73	0.00	5771311.15	554751.90	S 38 12 16.166	E 147 37 31.276

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	77.18	Act-Stns	SLB_ZERO-Depth Only	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.18	77.50	Act-Stns	SLB_ZERO	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.50	1094.42	Act-Stns	SLB_MWD+DMAG	West Seahorse-3 -> West Seahorse-3 Final Dmag
1094.42	1789.31	Act-Stns	SLB_MWD-STD	West Seahorse-3 -> West Seahorse-3 Final Dmag
1789.31	1810.00	Act-Stns	SLB_BLIND+TREND	West Seahorse-3 -> West Seahorse-3 Final Dmag

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West Seahorse-3 Final Dmag EOU Report

Report Date:	May 21, 2008	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	3D Oil Ltd	**Vertical Section Azimuth:**	62.960°
Field:	3D Oil - West Seahorse	**Vertical Section Origin:**	N 0.000 m, E 0.000 m
Structure / Slot:	West Seahorse / 1	**TVD Reference Datum:**	RKB
Well:	West Seahorse-3	**TVD Reference Elevation:**	37.7 m relative to MSL
Borehole:	West Seahorse-3	**Sea Bed / Ground Level Elevation:**	-39.500 m relative to MSL
UWI/API#:		**Magnetic Declination:**	12.844°
Survey Name / Date:	West Seahorse-3 Final Dmag / April 29, 2008	**Total Field Strength:**	59946.745 nT
Tort / AHD / DDI / ERD ratio:	73.430° / 587.54 m / 5.182 / 0.349	**Magnetic Dip:**	-68.778°
Grid Coordinate System:	GDA94/MGA94 Zone 55	**Declination Date:**	April 29, 2008
Location Lat/Long:	S 38 12 24.942, E 147 37 9.865	**Magnetic Declination Model:**	BGGM 2007
Location Grid N/E Y/X:	N 5771044.135 m, E 554229.358 m	**North Reference:**	Grid North
Grid Convergence Angle:	-0.38311463°	**Total Corr Mag North -> Grid North:**	+13.227°
Grid Scale Factor:	0.99963622	**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)	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	0.16	0.16	0.00	90.00	SLB_ZERO-Depth Only
Mud Line	77.50	0.00	0.00	77.50	0.00	0.00	0.00	0.00	0.16	0.16	0.00	90.00	SLB_ZERO
	182.42	2.71	71.37	182.38	2.45	0.79	2.35	0.77	0.43	0.42	0.99	152.82	SLB_MWD+DMAG
	210.69	4.37	68.61	210.60	4.19	1.40	3.99	1.77	0.52	0.51	0.99	153.30	SLB_MWD+DMAG
	240.38	6.29	65.93	240.16	6.94	2.47	6.53	1.96	0.63	0.61	0.99	153.47	SLB_MWD+DMAG
	269.55	8.46	63.88	269.08	10.68	4.07	9.91	2.25	0.76	0.71	0.99	153.14	SLB_MWD+DMAG
	299.18	10.91	63.41	298.29	15.66	6.29	14.38	2.48	0.90	0.81	0.99	152.80	SLB_MWD+DMAG
	328.89	13.72	61.49	327.31	22.00	9.23	19.99	2.87	1.07	0.92	0.99	152.07	SLB_MWD+DMAG
	358.27	17.82	63.61	355.58	29.98	12.89	27.08	4.23	1.26	1.03	0.99	152.17	SLB_MWD+DMAG
	388.46	17.83	64.35	384.32	39.22	16.94	35.38	0.23	1.45	1.12	0.99	152.16	SLB_MWD+DMAG
	417.21	21.75	64.50	411.37	48.95	21.14	44.16	4.09	1.65	1.20	1.00	152.38	SLB_MWD+DMAG
	446.30	26.47	63.34	437.91	60.83	26.38	54.83	4.89	1.95	1.33	1.01	152.40	SLB_MWD+DMAG
	476.28	27.58	63.58	464.62	74.45	32.46	67.01	1.12	2.29	1.47	1.02	152.48	SLB_MWD+DMAG
	505.67	26.63	62.50	490.78	87.84	38.53	78.95	1.09	2.56	1.54	1.04	152.51	SLB_MWD+DMAG
	534.94	25.97	64.51	517.02	100.80	44.32	90.55	1.14	2.77	1.57	1.06	152.83	SLB_MWD+DMAG
	564.20	25.07	64.48	543.43	113.41	49.75	101.93	0.92	2.99	1.61	1.09	152.95	SLB_MWD+DMAG
	622.88	26.33	65.24	596.30	138.84	60.55	124.97	0.67	3.55	1.78	1.15	153.23	SLB_MWD+DMAG
	653.06	26.86	63.15	623.29	152.34	66.44	137.13	1.07	3.88	1.91	1.19	153.15	SLB_MWD+DMAG
	682.20	27.68	61.89	649.19	165.69	72.60	148.97	1.03	4.19	2.03	1.23	153.03	SLB_MWD+DMAG
	711.65	27.35	62.23	675.31	179.30	78.97	160.99	0.37	4.49	2.12	1.27	152.95	SLB_MWD+DMAG
	740.89	27.59	61.54	701.25	192.78	85.33	172.89	0.41	4.78	2.22	1.32	152.83	SLB_MWD+DMAG
	771.14	27.55	61.08	728.07	206.78	92.05	185.17	0.21	5.10	2.33	1.36	152.70	SLB_MWD+DMAG
	800.56	27.43	60.89	754.17	220.35	98.64	197.05	0.15	5.39	2.41	1.41	152.59	SLB_MWD+DMAG
	829.48	27.85	61.35	779.78	233.76	105.12	208.79	0.49	5.70	2.52	1.46	152.48	SLB_MWD+DMAG
	858.79	27.32	61.21	805.76	247.32	111.64	220.70	0.55	6.01	2.63	1.51	152.37	SLB_MWD+DMAG
	888.16	27.56	61.54	831.83	260.85	118.12	232.58	0.29	6.32	2.73	1.56	152.29	SLB_MWD+DMAG
	917.34	27.23	62.29	857.74	274.28	124.44	244.42	0.49	6.63	2.84	1.61	152.24	SLB_MWD+DMAG
	947.31	27.18	62.67	884.39	287.98	130.77	256.57	0.18	6.92	2.94	1.66	152.23	SLB_MWD+DMAG
	975.78	28.05	62.94	909.62	301.18	136.81	268.31	0.93	7.23	3.06	1.72	152.22	SLB_MWD+DMAG
	1005.05	27.38	63.78	935.53	314.79	142.91	280.48	0.79	7.55	3.18	1.77	152.25	SLB_MWD+DMAG
	1034.76	27.21	62.92	961.93	328.41	149.02	292.65	0.43	7.85	3.27	1.82	152.25	SLB_MWD+DMAG
	1064.70	27.86	61.70	988.48	342.25	155.45	304.91	0.86	8.17	3.39	1.88	152.20	SLB_MWD+DMAG
	1094.42	27.04	62.76	1014.85	355.95	161.84	317.03	0.96	8.48	3.51	1.93	152.21	SLB_MWD+DMAG
	1143.32	25.87	63.39	1058.63	377.73	171.70	336.45	0.74	8.93	3.60	1.97	152.25	SLB_MWD-STD
	1155.24	25.60	63.14	1069.37	382.91	174.03	341.07	0.73	9.03	3.60	1.98	152.25	SLB_MWD-STD
	1184.95	25.36	62.55	1096.19	395.69	179.87	352.45	0.35	9.28	3.61	1.99	152.25	SLB_MWD-STD
	1214.47	26.04	61.37	1122.79	408.49	185.88	363.74	0.86	9.53	3.62	2.00	152.21	SLB_MWD-STD
	1244.37	26.98	60.10	1149.55	421.82	192.41	375.38	1.10	9.80	3.63	2.02	152.13	SLB_MWD-STD
	1273.71	27.90	59.30	1175.59	435.32	199.23	387.06	1.01	10.08	3.65	2.03	152.03	SLB_MWD-STD
	1303.22	28.28	59.93	1201.62	449.19	206.26	399.04	0.49	10.37	3.68	2.05	151.96	SLB_MWD-STD
	1333.07	28.34	61.42	1227.90	463.34	213.19	411.38	0.71	10.67	3.71	2.07	151.95	SLB_MWD-STD
	1362.30	28.22	62.76	1253.64	477.18	219.68	423.62	0.66	10.96	3.74	2.09	151.97	SLB_MWD-STD
	1392.46	27.26	63.75	1280.33	491.22	225.99	436.16	1.06	11.27	3.77	2.11	152.01	SLB_MWD-STD

	1421.70	25.28	65.76	1306.55	504.15	231.52	447.86	2.23	11.56	3.82	2.13	152.12	SLB_MWD-STD
	1451.62	22.71	67.51	1333.89	516.29	236.35	459.02	2.67	11.83	3.86	2.15	152.25	SLB_MWD-STD
	1481.39	20.37	68.53	1361.58	527.18	240.45	469.15	2.39	12.07	3.91	2.17	152.38	SLB_MWD-STD
	1511.23	17.28	67.57	1389.82	536.77	244.04	478.08	3.12	12.29	3.95	2.19	152.46	SLB_MWD-STD
	1540.81	13.06	64.38	1418.36	544.49	247.16	485.16	4.36	12.47	3.98	2.20	152.46	SLB_MWD-STD
	1570.48	10.61	59.84	1447.40	550.57	249.99	490.55	2.65	12.61	4.02	2.22	152.37	SLB_MWD-STD
	1600.19	8.73	58.08	1476.68	555.55	252.55	494.83	1.92	12.72	4.05	2.23	152.31	SLB_MWD-STD
	1629.88	8.74	67.66	1506.03	560.04	254.60	498.83	1.47	12.82	4.08	2.24	152.48	SLB_MWD-STD
	1658.96	8.56	72.15	1534.78	564.38	256.10	502.93	0.72	12.92	4.12	2.25	152.60	SLB_MWD-STD
	1688.35	8.90	69.06	1563.83	568.80	257.59	507.13	0.59	13.02	4.13	2.26	152.61	SLB_MWD-STD
	1717.96	8.56	61.83	1593.10	573.28	259.45	511.22	1.16	13.12	4.13	2.27	152.51	SLB_MWD-STD
	1747.50	8.58	55.23	1622.31	577.66	261.74	514.97	1.00	13.21	4.17	2.29	152.37	SLB_MWD-STD
	1777.39	8.69	54.55	1651.86	582.11	264.32	518.64	0.15	13.31	4.19	2.30	152.30	SLB_MWD-STD
	1789.31	8.74	56.02	1663.64	583.90	265.35	520.12	0.57	13.35	4.19	2.30	152.30	SLB_MWD-STD
Projected to TD	1810.00	8.74	56.02	1684.09	587.02	267.11	522.73	0.00	13.91	4.47	2.37	151.81	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: 12.25 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	77.18	Act-Stns	SLB_ZERO-Depth Only	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.18	77.50	Act-Stns	SLB_ZERO	West Seahorse-3 -> West Seahorse-3 Final Dmag
77.50	1094.42	Act-Stns	SLB_MWD+DMAG	West Seahorse-3 -> West Seahorse-3 Final Dmag
1094.42	1789.31	Act-Stns	SLB_MWD-STD	West Seahorse-3 -> West Seahorse-3 Final Dmag
1789.31	1810.00	Act-Stns	SLB_BLIND+TREND	West Seahorse-3 -> West Seahorse-3 Final Dmag

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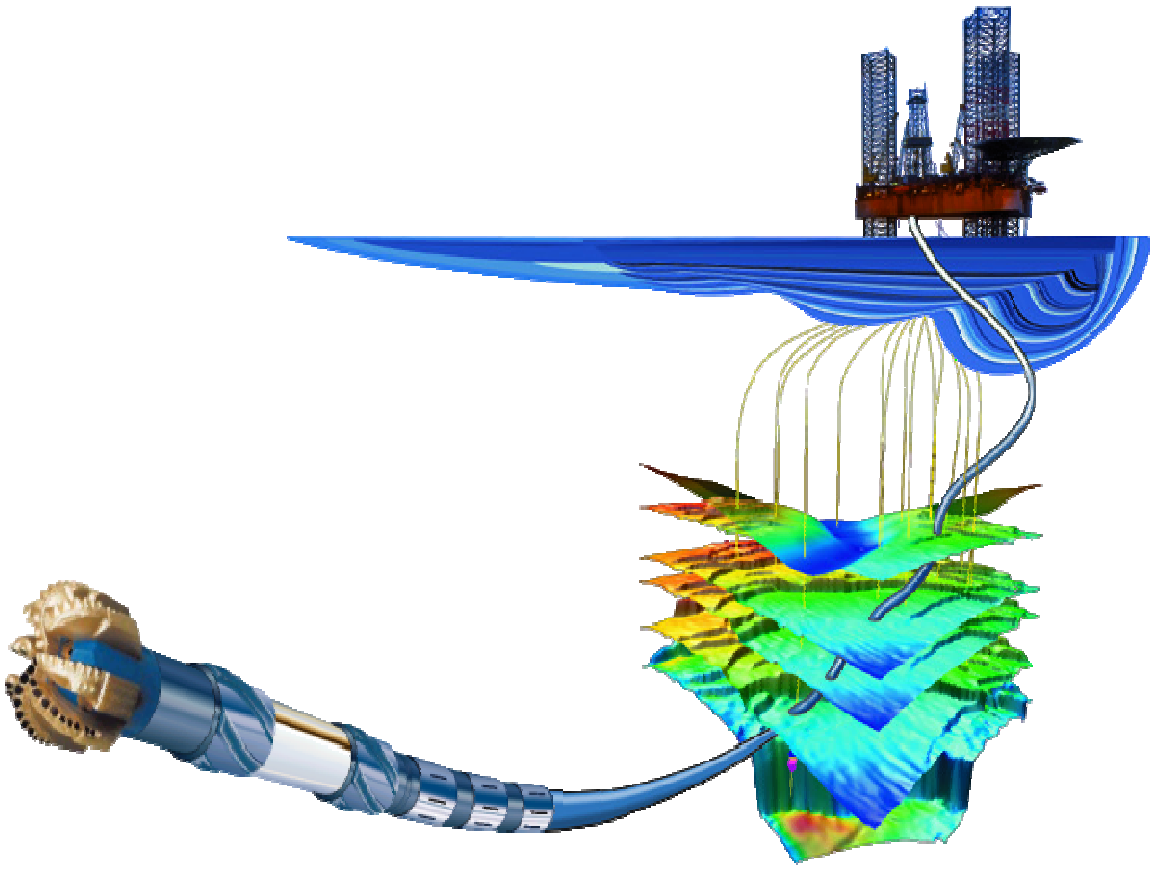
Performance Drilling Report



Schlumberger

BHA 1 / Bit 2

17 ½" (445 mm) Steerable Motor Assembly
125m – 1123m MD

BHA

17 ½" Hughes MXL-T1V Tooth Bit (3 x 20 jets)
9 5/8 PowerPak Motor (5:6 lobe, 4.0 stage, 17 ¼ sleeve and 1.5º bend)
17" String Stab
Crossover Sub
Float Sub
3 x 8" Pony NMDC
Crossover Sub
PowerPulse MWD (800-1200 gpm)
2 x 8" NMDC
8 ¼" Spiral Drill Collars (5 joints)
Hydraulic Jar
8 ¼" Spiral Drill Collar (2 joints)
Crossover Sub
5 ½" HW Drill Pipe (12 joints)
5 ½" Drill Pipe to Surface

Drilling Summary

Drilled cement and float equipment, cleaned out rat hole. Rotary drilled to kick off point at 172m. The kick off section was directionally drilled, mainly sliding (and rotating when required), building at 3º/30m to 27.4º.

At 386m, in the kick off section, a full stand was back reamed and reamed down once between 386m to 350m to smoothen and reduce a higher than expected dogleg severity. The dogleg severity was reduced from 5.3º/30m to 4.2º/30m and this process took about 1 hour of rig time which involved racking back a stand which was already made to drill ahead.

The tangent section was rotary drilled with minor slides (7-10m every 2-3 stands) to counter the general dropping tendency of 0.3º to 0.6º/30m and there was also a slight right hand walk.

From 0º - 8º the motor was able to build at 2.5 º/30m.
From 8º - 27º the motor was able to build at 3.8 º/30m.

Reactive torque was about 30º with 25 klbs WOB

No hole problems were encountered or reported and all directional requirements were met. Trip out of the hole was uneventful. Hole was cased and cemented.

Schlumberger

Drilling Performance

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Total Drilled	998	28.81	34.64
Total Drilled in rotary	668	20.88	31.99
Total Drilled in slide mode	330	7.93	41.61
Bit Graded	2 – 2 – WT – A – E – In – BT - TD		

Section Breakdown

Section	Rotary m (%)	Slide m (%)
Start of run to KOP (125-170m)	45 (100%)	-
KOP to EOC (170-465m)	48 (16%)	247 (84%)
EOC to section TD (465-1123m)	575 (87%)	83 (13%)

Schlumberger

BHA 2 / Bit 3

12 ¼" (311 mm) Rotary Steerable Assembly
1123m – 1810 m MD (687m)

BHA

12 ¼" Reed Hycalog RSX616 MA 16 PDC Bit (3 x 15 & 3 x 16 jets)
PowerDrive 900 X5 (without flow restrictor)
PowerDrive 900 Receiver (with ported float) and Flex Collar
8 ¼" GVR
PowerPulse MWD (600-1200 gpm)
1 x 8" NMDC
8 ¼" Spiral Drill Collar
Hydraulic Jar
8 ¼" Spiral Drill Collar
Crossover Sub
5 ½" HW Drill Pipe (12 joints)
5 ½" Drill Pipe to Surface

Drilling Summary

The cement was tagged early at 285m and drilled out, drilling the float equipment was difficult and time consuming. Three meters of new formation was drill out and a formation integrity test was performed.

Once out of the shoe the PowerDrive assembly had a slight dropping tendency in neutral steering mode. The rate of penetration was held to about 30 m/hr until the BHA was clear of the shoe and rat hole and then the drilling parameters were increased. A 50% steering ratio was required to hold the assembly in the tangent section. A rate of penetration of about 60 m/hr was achieved for most of the tangent section and the start of the drop section.

At the start of the drop section the tool was initially placed in a 25% drop with a right bias to counteract a left turn tendency. The drop rate was much lower than expected so steering ratio was increased to eventually 100% low side. Drop rates of only low 2 º/30m was achieved in the Lakes Entrance formation. Once into the Latrobe Group formation drops rates increased to low 4 º/30m and the required drop angle could be achieved. The rate of penetration was held back to 30 m/hr for logging purposes and this may have helped to improve the drop rate.

Once the drop was achieved the PowerDrive was placed in Inclination Hold mode for the remainder of the tangent section to TD at 1810m MDRT. Both geological targets were successfully penetrated within the allowed tollerance.

A moderate stick-slip was observed for most of the run but it did not affect the steering ability. Stick-slip was considerably lower in the Latrobe Group formation.

The bit was graded as 3-1-CT-A-X-I-WT-TD.

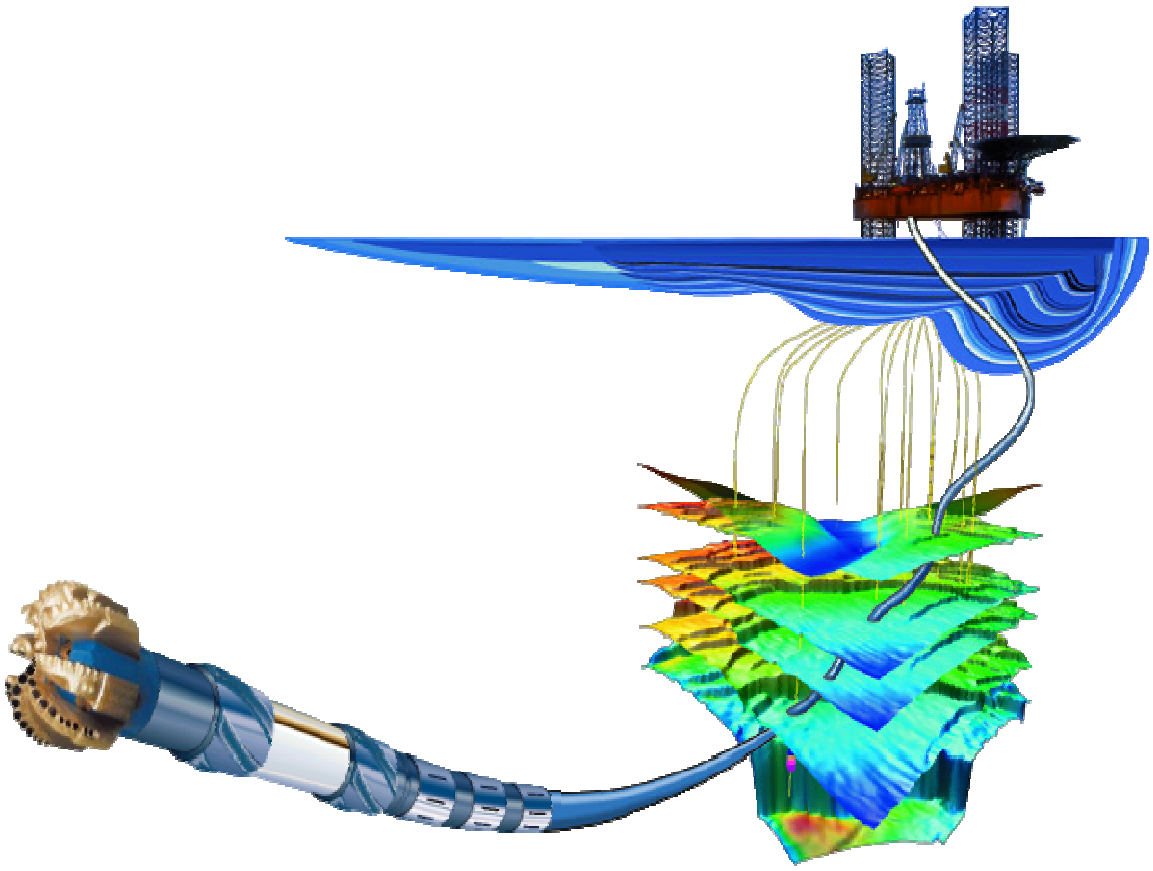
Schlumberger

Drilling Performance;

Interval	Distance (m)	Time (hrs)	ROP (m/hr)
Rotary mode	687	19.62	35.0

Schlumberger

BHA Reports



BHA Data Sheet

3D Oil Ltd - West Seahorse-3

BHA #	17 1/2" Motor BHA	**Date**	April 28, 2008
Field	3D Oil - West Seahorse	**Well**	West Seahorse-3
Structure	West Seahorse	**Borehole**	West Seahorse-3

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	17 1/2 " Bit	Hughes Christense	60654689		8.75	17.50		0.41	0.41
		MXL T1V			3.75		7.63 Reg Pin		
2	PowerPak Motor (1.5 deg)	Schlumberger	5659		9.63	17.25	7.63 Reg Box	10.10	10.51
		A962M5640XP			7.88		7.63 Reg Box		
3	17" String Stab	Schlumberger	OSS061172A		9.50	17.00	7.63 Reg Pin	2.42	12.93
					3.00		7.63 Reg Box		
4	Crossover	Seadrill	SSD7124	8.00	9.50	9.50	7.63 Reg Pin	1.23	14.16
				0.62	3.00		6.63 Reg Box		
5	Float Sub	Schlumberger	ASQ 8037		8.00	8.00	6.63 Reg Pin	0.80	14.96
					2.88		6.63 Reg Box		
6	8" Pony NMDC	Schlumberger	7505		7.94	7.94	6.63 Reg Pin	2.45	17.41
					2.88		6.63 Reg Box		
7	8" Pony NMDC	Schlumberger	ASQ 8020		8.00	8.00	6.63 Reg Pin	3.00	20.41
					2.88		6.63 Reg Box		
8	8" Pony NMDC	Schlumberger	9504216		7.88	7.88	6.63 Reg Pin	1.55	21.96
					2.81		6.63 Reg Box		
9	Cross over sub	Schlumberger	42755		8.50	8.50	6.63 Reg Pin	0.47	22.43
					2.88		6.63 FH Box		
10	PowerPulse HF MWD	Schlumberger	VA77		8.25	8.25	6.63 FH Pin	8.49	30.92
		PowerPulse HF			5.90		6.63 Reg Box		
11	8" NMDC	Schlumberger	N688		8.00	8.00	6.63 Reg Pin	8.65	39.57
					2.81		6.63 Reg Box		
12	8" NMDC	Schlumberger	SBD 5555		8.25	8.25	6.63 Reg Pin	9.45	49.02
					3.25		6.63 Reg Box		
13	8" Collar (5 joints)				8.00	8.00	6.63 Reg Pin	46.99	96.01
					2.81		6.63 Reg Box		
14	Hydraulic Jar	Dailey Petroleum S	1762-1339		8.00	8.00	6.63 Reg Pin	9.68	105.69
		HDL-100			3.00		6.63 Reg Box		
15	8" Collar (2 joints)				8.00	8.00	6.63 Reg Pin	18.90	124.59
					2.81		6.63 Reg Box		
16	Crossover	Seadrill	SSD 7131		8.25	8.25	6.63 Reg Pin	1.22	125.81
					2.81		5.50 XT57 Box		
17	5 1/2" HWDP (12 joints)				5.50	7.00	5.50 XT57 Pin	112.84	238.65
					3.25		5.50 XT57 Box		
18	5-1/2 " 24.70 DPS, 10% Wear				5.42	7.00	5.50 XT57 Pin	to surface	
					4.67		5.50 XT57 Box		
					Total Weight (lbf)		84063	**Total Len.**	238.65
					Below Jar (lbf)		48666.7		

BHA Comments:

Stabilizer	
Blade Length (m)	**Mid-Pt. To Bit (m)**
0.46	1.13
0.60	11.54
	Bend To Bottom
Bent Housing Angle (deg)	**Connection (m)**
1.50	2.78

Sensor	
Type	**Distance To Bit (m)**
D&I	26.56

Bit Nozzles	
Count	**Size(1/32 in)**
3	20.00
TFA (in2)	0.92

Quality Control	
Created By:	PSellathurai
Checked By:	

3D Oil Ltd
West Seahorse-3
West Seahorse
3D Oil - West Seahorse
West Seahorse-3
17 1/2" Motor BHA

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear	to surface
5 1/2" HWDP (12 joints)	238.65
Crossover	125.81
8" Collar (2 joints)	124.59
Hydraulic Jar	105.69
8" Collar (5 joints)	96.01
8" NMDC	49.02
8" NMDC	39.57
PowerPulse HF MWD	30.92
Cross over sub	22.43
8" Pony NMDC	21.96
8" Pony NMDC	20.41
8" Pony NMDC	17.41
Float Sub	14.96
Crossover	14.16
17" String Stab	12.93
PowerPak Motor (1.5 deg)	10.51
17 1/2 " Bit	0.41

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
17 1/2 " Bit	0.41	17.50	3.75	17.50
PowerPak Motor (1.5 deg)	10.10	9.63	7.88	17.25
17" String Stab	2.42	9.50	3.00	17.00
Crossover	1.23	9.50	3.00	9.50
Float Sub	0.80	8.00	2.88	8.00
8" Pony NMDC	2.45	7.94	2.88	7.94
8" Pony NMDC	3.00	8.00	2.88	8.00
8" Pony NMDC	1.55	7.88	2.81	7.88
Cross over sub	0.47	8.50	2.88	8.50
PowerPulse HF MWD	8.49	8.25	5.90	8.25
8" NMDC	8.65	8.00	2.81	8.00
8" NMDC	9.45	8.25	3.25	8.25
8" Collar (5 joints)	46.99	8.00	2.81	8.00
Hydraulic Jar	9.68	8.00	3.00	8.00
8" Collar (2 joints)	18.90	8.00	2.81	8.00
Crossover	1.22	8.25	2.81	8.25
5 1/2" HWDP (12 joints)	112.84	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 = 26.56 m

DRILLING OVERVIEW

During the kickoff from 0º - 8º the motor was able to build at 2.5 º/30m, and from 8º - 27º the motor was able to build at 3.8 º/30m.

The tangent section was rotary drilled with minor slides (7-10m every 2-3 stands) to counter the general dropping tendency.

Depth in:	125.00 m	Depth out:	1123.00 m
Inclination in:	0.83°	To:	27.05°
Direction in:	65.83°	To:	63.32°
Total Drilled	998.00 m	Dogleg:	3.0

Schlumberger

Quality Control

Created by: PSellathurai Date: 28/04/2008

Checked by: Date:

BHA Data Sheet

3D Oil Ltd - West Seahorse-3

BHA #	12 1/4" RSS/LWD BHA	**Date**	May 02, 2008
Field	3D Oil - West Seahorse	**Well**	West Seahorse-3
Structure	West Seahorse	**Borehole**	West Seahorse-3

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	12 1/4 " PDC Bit	Reed Hycalog	218662		8.00	12.25		0.30	0.30
		RSX616 MA 16			3.25		6.63 Reg Pin		
2	PD 900 AA 12 1/4"	Schlumberger	51330		9.25	11.80	6.63 Reg Box	4.20	4.50
		PD 900 AA 12 1/4"			3.00		6.63 Reg Box		
3	PD900 Receiver w/float	Schlumberger	49245	8.38	9.50	9.50	6.63 Reg Pin	1.87	6.37
				0.48	6.00		6.63 FH Box		
4	PD900 Flex Collar	Schlumberger	51767		8.25	8.25	6.63 FH Pin	2.95	9.32
					5.00		6.63 FH Box		
5	GVR-8	Schlumberger	034		8.25	12.13	6.63 FH Pin	4.22	13.54
		RAB-8			3.90		6.63 FH Box		
6	PowerPulse HF	Schlumberger	VA77		8.25	8.49	6.63 FH Pin	8.49	22.03
		PowerPulse HF			5.90		6.63 Reg Box		
7	8" NMDC	Schlumberger	N688		8.00	8.00	6.63 Reg Pin	8.65	30.68
					2.81		6.63 Reg Box		
8	1 x 8" Collar				8.00	8.00	6.63 Reg Pin	9.45	40.13
					2.81		6.63 Reg Box		
9	Hydraulic Jar	Dailey Petroleum S	1762-1339		8.00	8.00	6.63 Reg Pin	9.68	49.81
		HDL-100			3.00		6.63 Reg Box		
10	1x 8" Collar				8.00	8.00	6.63 Reg Pin	9.44	59.25
					2.81		6.63 Reg Box		
11	Crossover		SSD7131		8.00	8.00	6.63 Reg Pin	1.22	60.47
					2.81		5.50 XT57 Box		
12	12 x 5 1/2" HWDP (12 joints)				5.50	7.00	5.50 XT57 Pin	112.84	173.31
					3.25		5.50 XT57 Box		
13	5-1/2 " 24.70 DPS, 10% Wear (184				5.42	7.00	5.50 XT57 Pin	To surface	
					4.67		5.50 XT57 Box		
						Total Weight (lbf)	218389	Total Len.	1936.71
						Below Jar (lbf)	19203.7		

BHA Comments:

Stabilizer	
Blade Length (m)	**Mid-Pt. To Bit (m)**
0.20	5.25
	Bend To Bottom
Bent Housing Angle (deg)	**Connection (m)**

Sensor	
Type	**Distance To Bit (m)**
PD Inc	2.66
Gamma Ra	10.49
Resistivity	11.13
D&I	17.67

Bit Nozzles	
Count	**Size(1/32 in)**
3	15.00
3	16.00
TFA (in2)	1.11

Quality Control	
Created By:	PSellathurai
Checked By:	

3D Oil Ltd
West Seahorse-3
West Seahorse
3D Oil - West Seahorse
West Seahorse-3
12 1/4" RSS/LWD BHA

	Cum. Len. (m)
5-1/2 " 24.70 DPS, 10% Wear (	to surface
12 x 5 1/2" HWDP	173.31
Crossover	60.47
1x 8" Collar	59.25
Hydraulic Jar	49.81
1 x 8" Collar	40.13
8" NMDC	30.68
PowerPulse HF	22.03
GVR-8	13.54
PD900 Flex Collar	9.32
PD900 Receiver w/float	6.37
PD 900 AA 12 1/4"	4.50
12 1/4 " PDC Bit	0.3

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
12 1/4 " PDC Bit	0.30	12.25	3.25	12.25
PD 900 AA 12 1/4"	4.20	9.25	3.00	11.80
PD900 Receiver w/float	1.87	9.50	6.00	9.50
PD900 Flex Collar	2.95	8.25	5.00	8.25
GVR-8	4.22	8.25	3.90	12.13
PowerPulse HF	8.49	8.25	5.90	8.49
8" NMDC	8.65	8.00	2.81	8.00
1 x 8" Collar	9.45	8.00	2.81	8.00
Hydraulic Jar	9.68	8.00	3.00	8.00
1x 8" Collar	9.44	8.00	2.81	8.00
Crossover	1.22	8.00	2.81	8.00
12 x 5 1/2" HWDP	112.84	5.50	3.25	7.00
5-1/2 " 24.70 DPS, 10% Wear (184 joints	5.42	4.67		7.00

Bit to MWD D&I Sensor = 17.67 m
Bit to RAB Resistivity Sensor = 11.13 m
Bit to PD Inclination Sensor = 2.66 m

DRILLING OVERVIEW

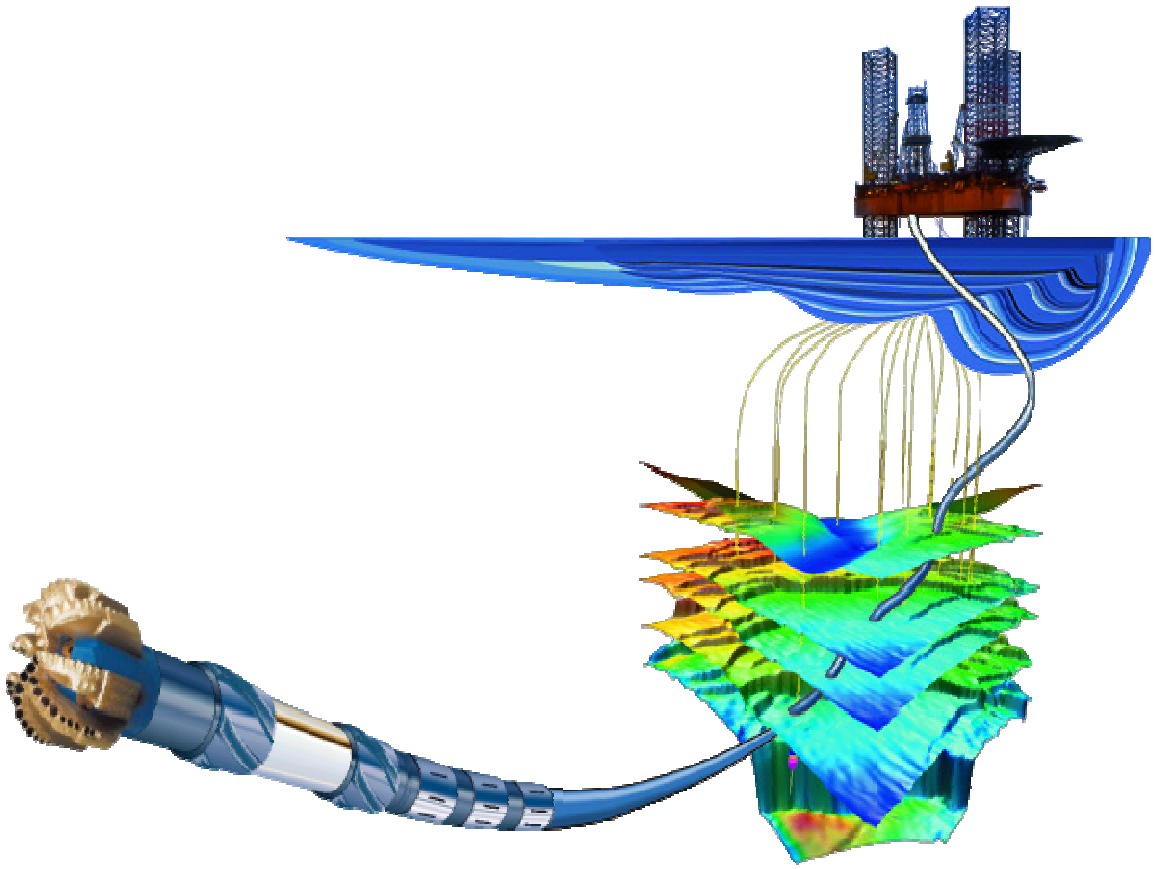
Depth in:	1123.00 m	Depth out:	1810.00 m
Inclination in:	25.87°	To:	8.75°
Direction in:	63.90°	To:	55.97°
Total Drilled	687.00 m	Dogleg:	0.09 to 4.38 deg/30m

Schlumberger

Quality Control
Created by: PSellathurai Date: 2/05/2008
Checked by: Date:

Schlumberger

Drilling Parameter Sheets



WELL# West Seahorse-3 **DATE:** 26-Apr-08 **Depth In :** 125.0 **m MD** **Pump Output:** 5.850 **Gal / stk** **Planned Angle :** 27.4°

Motor Speed: 0.11 **Rev / Gal** **Planned Direction :** 63.0°

BHA # 2 **BIT#** 2 **BHA :** 17 1/2" Bit, PowerPak Motor (1.5 deg), 17" String Stab, XO, Float Sub, 3x8" Pony NMDC, XO, PowerPulse, 2x8" NMDC, 5x8" DC's, Hydraulic Jar, 2x8" DC, XO, 12x5 1/2" HWDP, DP to surface

SURVEY SPACING = 26.56 **m MD** **Last Casing :** 20" @122mRT **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

	DRILLING TIME			Motor Work Sheet				Tool	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf	Motor			ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Meters Rotated	Meters Slide	Face	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM	RPM	WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
S	4:15	4:24	0:09	115	121		6		88.57	0.26					111	649	0	71			40	800		Tag cement at 121 mRT
R	4:27	4:56	0:29	121	122	1			98.46	0.42					121	708	35	78	3-6	1-3	2	800	850	Drill out shoe
R	4:56	4:59	0:03	122	125	3									135	790	35	87	3		60		1,200	Drill out rat hole
R	4:59	5:15	0:16	125	143	18			126.00	0.27					154	901	52	99	3-4	2-3	68	1,400	1,450	Drill new formation
R	6:35	6:41	0:06	143	154	11			140.93	0.49					159	930	70	102	3-5	2-3	110	1,520	1,570	Drill new formation
R	6:55	7:10	0:15	154	170	16			154.20	0.83	65.83	0.16	12.81	0.16	160	936	70	103	3-7	2-4	64	1,550	1,600	Drill new formation
S	7:15	7:40	0:25	170	181		11	60							144	842		93	3-7		26	1,400	1,350	170-175m 45M, 175-181m 81M
S	7:59	8:12	0:13	181	197		16	62	182.42	2.72	71.56	2.01	6.09	2.02	144	842		93	6-7		74	1,350	1,400	181-187m-77M, 187-197m 53M
R	8:15	8:25	0:10	197	210	13									144	842	40	93	3-5	2-4	78	1,350	1,400	
S	8:47	8:58	0:11	210	228		18	53	210.69	4.37	68.83	1.75	-2.90	1.76	162	948		104	4-5		98	1,730	1,780	Increase flow to 950 gpm
R	8:59	9:05	0:06	228	237	9									162	948	40	104	4-5	2-5	90	1,730	1,780	
S	9:25	9:48	0:23	237	262		25	HS	240.38	6.29	66.14	1.94	-2.72	1.96	172	1006		111	6		65	2,000	2,050	237-240m 30L; 240-262m HS-L
R	9:48	9:56	0:08	262	266	4									172	1006	40	111	2	3-5	30	2,000	2,050	
S	10:09	10:29	0:20	266	292		26	HS	269.55	8.46	64.16	2.23	-2.04	2.25	172	1006		111	6		78	2,000	2,050	
R	10:29	10:35	0:06	292	296	4									172	1006	40	111	2-3	3-5	40	2,000	2,050	
S	10:50	11:10	0:20	296	323		27	25L	299.18	10.92	63.65	2.49	-0.52	2.49	160	936		103	5		81	1,750	1,800	
R	11:10	11:20	0:10	323	326	3									158	924	40	102	10	5-7	18	1,750	1,800	
S	11:34	12:10	0:36	326	355		29	10L	328.89	13.72	61.80	2.83	-1.87	2.85	149	872		96	10		48	1,600	1,675	Reduce flow to enhance build
S	12:34	13:00	0:26	355	386		31	HS	358.27	17.82	63.93	4.19	2.17	4.23	140	819		90	10-25		72	1,500	1,575	Reduce flow to enhance build
R	14:30	14:45	0:15	386	392	6			388.46	17.84	64.65	0.02	0.72	0.22	170	995	40	109	10	5-7	24	2,000	2,050	Ream full stand prior to drilling ahead
S	14:45	15:10	0:25	392	415		23	HS							162	948		104	15		55	1,925	1,975	
R	15:23	15:26	0:03	415	419	4			417.21	21.76	64.94	4.09	0.30	4.09	163	954	40	105	5	5-7	80	1,925	1,975	
S	15:30	16:08	0:38	419	444		25	HS							141	825		91	10-15		39	1,600	1,675	
R	16:20	16:25	0:05	444	449	5			446.30	26.49	63.72	4.88	-1.26	4.90	141	825	40	91	12	3-5	60	1,600	1,675	
S	16:27	16:50	0:23	449	465		16	25L							141	825		91	10-30		42	1,600	1,700	
R	16:50	17:10	0:20	465	473	8									141	825	40	91	15	3-5	24	1,600	1,675	
R	17:30	17:35	0:05	473	477	4			476.28	27.59	64.07	1.10	0.35	1.11	153	895	70	98	10	3-5	48	1,800	1,900	
R	17:35	17:47	0:12	477	489	12									172	1006	70	111	10	3-5	60	2,100	2,200	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 2.28 **Meters Rotated :** 117 **Rotating ROP:** 51.2 **m/hr**

Slide Time : 4.33 **Meters Slide :** 247 **Sliding ROP:** 57.0 **m/hr**

Total Time : 6.62 **Meters Drilled :** 364 **Average ROP:** 55.0 **m/hr**

WELL# West Seahorse-3 **DATE:** 26-Apr-08 **Depth In :** 125.0 **m MD** **Pump Output:** 5.850 **Gal / stk** **Planned Angle :** 27.4°

Motor Speed: 0.11 **Rev / Gal** **Planned Direction :** 63.0°

BHA # 2 **BIT#** 2 **BHA :** 17 1/2" Bit, PowerPak Motor (1.5 deg), 17" String Stab, XO, Float Sub, 3x8" Pony NMDC, XO, PowerPulse, 2x8" NMDC, 5x8" DC's, Hydraulic Jar, 2x8" DC, XO, 12x5 1/2" HWDP, DP to surface

SURVEY SPACING = 26.56 **m MD** **Last Casing :** 20" @122mRT **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

	DRILLING TIME			Motor Work Sheet				Tool	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf	Motor			ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Meters Rotated	Meters Slide	Face	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM	RPM	WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
R	17:47	18:03	0:16	489	503	14									171	1000	70	110	10	2-4	53	2,100	2,200	
R	18:15	18:38	0:23	503	533	30			505.67	26.62	62.93	-0.99	-1.16	1.12	188	1100	80	121	10-15	2-4	78	2,500	2,650	PU 145, SO 129, Rot WT 142, Rot tor 1.3
R	18:52	19:13	0:21	533	562	29			534.94	25.98	64.99	-0.66	2.11	1.14	205	1199	90	132	5-10	2-4	83	2,900	2,950	Limited ROP to 90 m/hr
R	19:22	19:46	0:24	562	592	30			564.20	25.09	64.81	-0.91	-0.18	0.92	203	1188	85	131	5	2-4	75	2,900	2,950	Limited ROP to 100 m/hr
S	19:58	20:06	0:08	592	607		15	20L							203	1188	-	131	20	-	113	2,950	3,050	
R	20:06	20:19	0:13	607	622	15									203	1188	80	131	5-15	2-4	69	2,950	3,050	PU 158, SO 130, Rot WT 144
R	20:30	20:52	0:22	622	651	29			622.88	26.34	65.72	0.64	0.47	0.67	203	1188	60	131	20-25	3-5	79	2,950	3,100	
S	21:03	21:15	0:12	651	666		15	45L	653.06	26.88	63.47	0.54	-2.24	1.14	188	1100	-	121	25	-	75	2,700	2,850	Reduced flow rate due to losses over shaker
R	21:15	21:26	0:11	666	680	14									188	1100	60	121	15-20	4-6	76	2,700	2,800	
R	21:42	22:14	0:32	680	710	30			682.20	27.67	62.30	0.81	-1.20	0.98	188	1100	60	121	20-25	4-6	56	2,650	2,850	PU 165, SO 132, Rot WT 151, Rot tor 2.4
R	22:27	22:48	0:21	710	739	29			711.65	27.35	62.78	-0.33	0.49	0.40	188	1100	60	121	25	4-6	83	2,650	2,850	
S	23:04	23:12	0:08	739	746		7	30L	740.89	27.59	61.96	0.25	-0.84	0.46	188	1100	-	121	20	-	53	2,700	2,850	
R	23:13	23:32	0:19	746	769	23									188	1100	60	121	25	4-6	73	2,750	2,900	
R	23:46	0:18	0:32	769	798	29			771.14	27.57	61.42	-0.02	-0.54	0.25	188	1100	60	121	25	6-7	54	2,700	2,850	PU 173, SO 132, Rot WT 153
R	0:40	0:46	0:06	798	804	6			800.56	27.44	61.28	-0.13	-0.14	0.15	188	1100	60	121	20	4-7	60	2,700	2,850	Problem to start slide, rotate 5-6m
S	0:55	1:22	0:27	804	814		10	HS							188	1100	-	121	25-30	-	22	2,700	2,850	BHA hung up at 808m, difficult TF control
R	1:23	1:40	0:17	814	828	14									188	1100	60	121	25-30	5-7	49	2,700	2,950	PU 171, SO 140
R	1:55	2:42	0:47	828	857	29			829.48	27.87	61.73	0.45	0.47	0.50	203	1188	95	131	30	8-10	37	3,050	3,300	
R	2:53	3:48	0:55	857	886	29			858.79	27.34	61.53	-0.54	-0.20	0.55	203	1188	95	131	30	7-9	32	3,100	3,350	
S	4:01	4:27	0:26	886	893		7	HS	888.16	27.56	61.95	0.22	0.43	0.30	203	1188	-	131	30	-	16	3,150	3,400	
R	4:28	5:25	0:57	893	915	22									203	1188	100	131	35	7-9	23	3,150	3,400	
R	5:38	7:17	1:39	915	944	29			917.34	27.22	62.80	-0.35	0.87	0.53	203	1188	100	131	35	8-9	18	3,150	3,350	
R	7:30	7:40	0:10	944	947	3									203	1188	100	131	35	8-10	18	3,150	3,350	
S	7:45	8:40	0:55	947	960		13	30L							203	1188		131	20-35		14	3,200	3,400	
R	8:40	9:24	0:44	960	970	10			947.31	27.19	62.99	-0.03	0.19	0.09	203	1188	40	131	35	8-10	14	3,200	3,400	
R	9:44	9:58	0:14	970	974	4									203	1188	100	131	35	12-14	17	3,200	3,400	MWD tool shutting down. P/U recycle @ reduced flow
R	10:16	12:15	1:59	974	1003	29			975.78	28.07	63.33	0.93	0.36	0.94	196	1147	100	126	28-34	9-10	15	2,900	3,100	Reduce flow to 1150 to prevent further shutdown of MWD.
R	12:33	14:10	1:37	1003	1032	29			1005.05	27.39	64.28	-0.70	0.97	0.83	196	1147	100	126	35	7-9	18	2,950	3,100	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 13.32 **Meters Rotated :** 476 **Rotating ROP:** 35.7 **m/hr**

Slide Time : 2.27 **Meters Slide :** 67 **Sliding ROP:** 29.6 **m/hr**

Total Time : 15.58 **Meters Drilled :** 543 **Average ROP:** 34.8 **m/hr**

WELL# West Seahorse-3 DATE: 26-Apr-08 Depth In : 125.0 m MD Pump Output: 5.850 Gal / stk Planned Angle : 27.4°

Motor Speed: 0.11 Rev / Gal Planned Direction : 63.0°

BHA # 2 BIT# 2 BHA : 17 1/2" Bit, PowerPak Motor (1.5 deg), 17" String Stab, XO, Float Sub, 3x8" Pony NMDC, XO, PowerPulse, 2x8" NMDC, 5x8" DC's, Hydraulic Jar, 2x8" DC, XO, 12x5 1/2" HWDP, DP to surface

SURVEY SPACING = 26.56 m MD Last Casing : 20" @122mRT DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts: 2

	DRILLING TIME			Motor Work Sheet				Tool	SURVEY			TENDENCY °/30mts			STK /	FLOW	Surf	Motor			ROP	PRESSURE		REMARKS
R / S	START	STOP	SUM	FROM	TO	Meters Rotated	Meters Slide	Face	DEPTH	INCL	AZM	B / D	TR	Dogleg	MIN	RATE	RPM	RPM	WOB	TORQ	(m/hr)	Off Bottom	On Bottom	
S	14:30	15:50	1:20	1032	1048		16	20L	1034.76	27.23	63.27	-0.16	-1.02	0.50	196	1147	-	126	25-30	-	12	2,950	3,100	
R	15:50	16:23	0:33	1048	1058	10									196	1147	41	126	35	9-10	18	2,950	3,100	
R	16:23	16:45	0:22	1058	1063	5									196	1147	100	126	35	9-10	14	2,950	3,100	
R	16:55	19:01	2:06	1063	1093	30			1064.70	27.88	62.07	0.65	-1.20	0.86	196	1147	100	126	35	9-10	14	2,940	3,100	
R	19:14	21:26	2:12	1093	1122	29			1094.42	27.05	63.32	-0.84	1.26	1.02	196	1147	100	126	35	7-9	13	2,900	3,050	PU 200, SO 150, Rot WT 173, Rot tor 4-9
R	21:41	21:45	0:04	1122	1123	1									196	1147	100	126	35	7-10	15	2,900	3,100	TD 1123m MD

TIME BREAKDOWN: (for new formation only)

Rotated Time : 5.28 Meters Rotated : 75 Rotating ROP: 14.2 m/hr

Slide Time : 1.33 Meters Slide : 16 Sliding ROP: 12.0 m/hr

Total Time : 6.62 Meters Drilled : 91 Average ROP: 13.8 m/hr

WELL# West Seahorse-3 **DATE:** 3-May-08 **Depth In :** 1123.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 27.00°

Planned Direction : 63.00°

BHA # 3 **BIT#** 3 12.25 **BHA :** 12 1/4" PDC Bit, PD 900, Receiver, 6 5/8" In Line Flex, XO, GVR8, PowerPulse MWD, 8 1/4" NMDC, 8" Collar, Hydraulic Jar, 8" collar, 12 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 17.67 m **Last Casing :** 13 3/8" @ 1117m **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 2.66 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	13:35	13:40	0:05	1123	1126	3			1125.63	26.35					170	995	50		5-10	5-8	36	1,400	1,425	CBU.
R	15:30	15:35	0:05	1126	1128	2									170	995	50		5-10	5-8	24	1,400	1,425	DL PD Steer 219
R	15:46	16:00	0:14	1128	1132	4	0	0							170	995	80		10-25	5-10	17	1,400	1,425	Control ROP @ 30 m/hr
R	16:10	16:15	0:05	1132	1135	3	0	0							170	995	80		10-15	5-10	36	1,400	1,425	
R	16:15	16:21	0:06	1135	1141	6	0	0							170	995	100		8-10	5-10	60	1,400	1,425	
R	16:21	16:29	0:08	1141	1144	3	0	0	1143.32	25.87	63.90	-0.72	0.70	0.78	170	995	140		8-10	5-12	23	1,400	1,425	
R	16:58	17:16	0:18	1144	1155	11	0	25							170	995	140		8-10	5-12	37	1,400	1,425	
R	17:16	17:28	0:12	1155	1162	7	0	25	1155.24	25.58	63.60	-0.73	-0.76	0.80	162	948	140		8-10	5-12	35	1,300	1,325	Loosing mud over shakers. Reduce flow by 50 gpm
R	17:44	18:10	0:26	1162	1174	12	0	50							170	995	150		9-15	9-10	28	1,400	1,425	P/U 184; S/O 136
R	18:25	18:38	0:13	1174	1181	7									170	995	150		7	5-11	32	1,475	1,450	
R	18:38	19:03	0:25	1181	1203	22	0	75	1184.95	25.36	62.41	-0.22	-1.20	0.56	170	995	150		10-12	6-11	53	1,475	1,450	P/U 189, S/O 136, RotWT 163
R	19:22	19:53	0:31	1203	1233	30			1214.47	26.03	61.94	0.68	-0.48	0.71	170	995	150		10-12	9-14	58	1,500	1,500	P/U 193, S/O 136, RotWT 166, Rot Tor 4-11
R	20:04	20:35	0:31	1233	1263	30			1244.37	26.97	60.72	0.94	-1.22	1.09	170	995	150		6-12	2-16	58	1,500	1,500	P/U 193, S/O 138, Rot Tor 0-10
R	20:46	20:54	0:08	1263	1270	7									170	995	150		8-10	8-15	53	1,525	1,525	
R	20:54	21:20	0:26	1270	1293	23	36R	50	1273.71	27.88	59.68	0.93	-1.06	1.05	170	995	150		8-10	7-11	53	1,525	1,525	P/U 202, S/O 140, RotWT 167
R	21:31	21:39	0:08	1293	1302	9									170	995	150		8-9	4-13	68	1,575	1,575	
R	21:39	22:00	0:21	1302	1322	20			1303.22	28.07	60.45	0.19	0.78	0.41	170	995	150		7-8	5-12	57	1,575	1,550	P/U 193, S/O 136, RotWT 169, Rot Tor 3-12
R	22:12	22:42	0:30	1322	1352	30			1333.07	28.34	61.52	0.27	1.08	0.58	170	995	150		7-8	5-12	60	1,575	1,575	P/U 207, S/O 135, RotWT 170, Rot Tor 1-12
R	22:53	23:01	0:08	1352	1360	8									170	995	150		7-10	4-12	60	1,600	1,600	
R	23:01	23:10	0:09	1360	1368	8	135R	25	1362.30	28.20	62.55	-0.14	1.06	0.52	170	995	150		7-11	4-12	53	1,600	1,600	
R	23:10	23:24	0:14	1368	1381	13	135R	35							170	995	150		7-11	4-13	56	1,600	1,600	P/U 207, S/O 142, RotWT 171, Rot Tor 2-13
R	23:36	23:46	0:10	1381	1392	11									170	995	150		7-8	5-13	66	1,600	1,600	
R	23:46	0:07	0:21	1392	1411	19	162R	75	1392.53	27.26	63.55	-0.93	0.99	1.04	170	995	150		8	6-13	54	1,600	1,600	
R	0:23	0:42	0:19	1411	1429	18			1421.70	25.27	66.37	-2.05	2.90	2.42	170	995	150		7-8	5-13	57	1,600	1,600	4th May
R	0:42	0:56	0:14	1429	1440	11	180	100							180	1053	150		9-11	3-13	47	1,800	1,800	P/U 210, S/O 142, RotWT 175
R	1:20	1:42	0:22	1440	1461	21			1451.65	22.20	68.06	-3.08	1.69	3.15	180	1053	150		11	5-13	57	1,800	1,800	
R	1:42	1:52	0:10	1461	1470	9	168L	100							180	1053	150		10-11	5-13	54	1,800	1,800	P/U 209, S/O 145, RotWT 175
R	2:06	2:16	0:10	1470	1480	10									180	1053	150		8-10	5-12	60	1,850	1,825	

TIME BREAKDOWN: (for new formation only)

Rotated Time : 7.07 **Meters Rotated :** 357 **Rotating ROP:** 50.5 m/hr

Total Time : 7.07 **Meters Drilled :** 357 **Average ROP:** 50.5 m/hr

WELL# West Seahorse-3 **DATE:** 4-May-08 **Depth In :** 1123.0 m MD **Pump Output:** 5.850 Gal / stk **Planned Angle :** 27.00°

Planned Direction : 63.00°

BHA # 3 **BIT# 3** 12.25 **BHA :** 12 1/4" PDC Bit, PD 900, Receiver, 6 5/8" In Line Flex, XO, GVR8, PowerPulse MWD, 8 1/4" NMDC, 8" Collar, Hydraulic Jar, 8" collar, 12 x 5 1/2" HWDP, DP to surface

WD SURVEY SPACING = 17.67 m **Last Casing :** 13 3/8" @ 1117m **DLS 1=°/100Ft, 2=°/30Mts, 3=°/10Mts:** 2

PD SURVEY SPACING = 2.66 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	2:16	2:40	0:24	1480	1500	20	156L	100	1481.39	20.36	68.27	-1.86	0.21	1.86	180	1053	150		10-11	6-14	50	1,850	1,825	
R	2:52	4:03	1:11	1500	1530	30			1511.23	17.26	67.69	-3.12	-0.58	3.12	180	1053	150		7-8	6-14	25	1,825	1,825	Limit ROP to 30 m/hr for LWD logs
R	4:18	4:43	0:25	1530	1542	12			1540.81	13.04	64.12	-4.28	-3.62	4.38	180	1053	150		5-6	5-13	29	1,875	1,875	
R	4:43	5:16	0:33	1542	1559	17	144L	50							180	1053	150		6-7	6-13	31	1,875	1,875	Shut in well due to gas and some flow P/U 209; S/O 159
R	6:35	7:20	0:45	1559	1579	20			1570.48	10.60	59.53	-2.47	-4.64	2.64	180	1053	150		6-7	6-13	27	1,875	1,875	
R	7:20	7:45	0:25	1579	1589	10	180	50							180	1053	150		6-7	6-13	24	1,900	1,900	P/O 218; S/O 160
R	8:05	8:20	0:15	1589	1593	4									180	1053	150		6-7	6-13	16	1,900	1,900	Stick slip level 3 on PD. Increase RPM
R	8:20	8:32	0:12	1593	1597	4									180	1053	160		6-7	6-13	20	1,900	1,900	
R	8:32	9:26	0:54	1597	1608	11	25R	IH	1600.19	8.72	58.21	-1.90	-1.33	1.91	180	1053	170		6-7	6-13	12	1,900	1,900	Hard drilling interval @ 1598m. Red RPM and inc WT=25
R	9:26	9:55	0:29	1608	1618	10	50R	IH							180	1053	140		6-7	6-13	21	1,900	1,900	Inclination hold. 50 right
R	10:10	10:17	0:07	1618	1624	6	50R	IH							180	1053	160		6-7	6-13	51	1,900	1,900	
R	10:17	11:10	0:53	1624	1648	24	144	50	1629.88	8.74	68.10	0.02	9.99	1.52	180	1053	160		5-10	7-15	27	1,800	1,825	
R	11:25	12:11	0:46	1648	1670	22	0	IH	1658.96	8.55	72.75	-0.20	4.80	0.75	180	1053	160		5-10	7-15	29	1,900	1,900	
R	12:11	12:30	0:19	1670	1673	3	0	IH							180	1053	140		25	7-20	9	1,900	1,900	Hard drilling interval @ 1673m lower RPM and inc WT=25
R	12:30	12:40	0:10	1673	1678	5	0	IH							180	1053	160		5-10	7-15	30	1,900	1,900	P/U235 S/O 162
R	13:10	13:20	0:10	1678	1682	4	0	IH							180	1053	160		5-10	7-15	24	1,900	1,900	
R	13:20	14:35	1:15	1682	1706	24	270	25	1688.35	8.90	69.00	0.36	-3.83	0.68	180	1053	160		5-10	7-15	19	1,900	1,900	
R	14:45	15:59	1:14	1706	1736	30	270	25	1717.96	8.56	61.35	-0.34	-7.75	1.22	180	1053	165		5-10	7-15	24	1,925	1,925	P/U238 S/O 163 ROT=200
R	16:05	16:20	0:15	1736	1742	6	270	25							171	1000	165		2-5	7-12	24	1,700	1,700	46gpm drop recognises DL (5% flow reduction)
R	16:20	17:15	0:55	1742	1766	24	0	IH	1747.50	8.59	54.77	0.03	-6.68	1.00	171	1000	160		2-5	7-12	26	1,800	1,800	Inc. Hold. No Azimuth
R	17:30	18:19	0:49	1766	1796	30	0	IH	1777.39	8.68	54.87	0.09	0.10	0.09	171	1000	160		2-5	7-12	37	1,800	1,800	60 m/hr. Stick slip. Reduce ROP to 40 m/hr in stages.
R	18:29	19:00	0:31	1796	1810	14	0	0	1789.31	8.75	55.97	0.18	2.77	0.45	171	1000	160		11	6-20	27	1,725	1,725	TD at 1810m MD, set PD to neutral

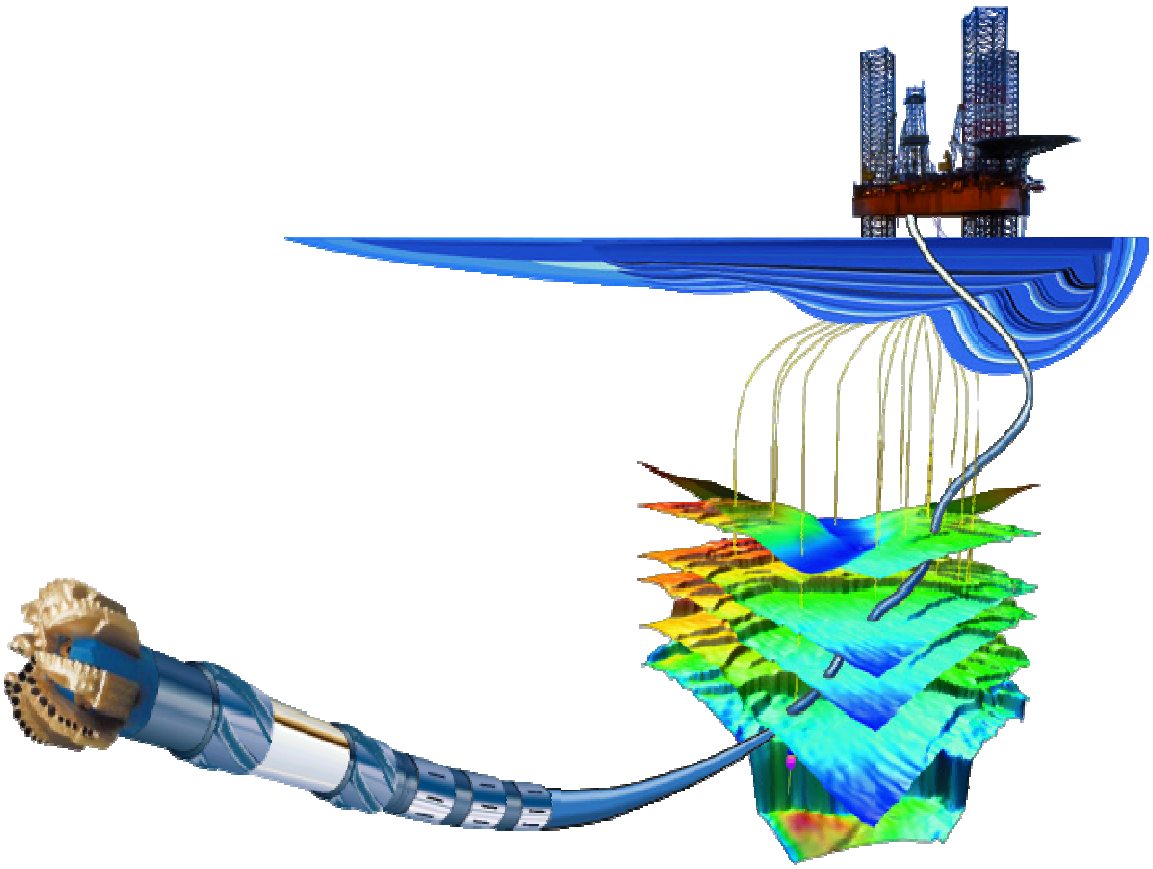
TIME BREAKDOWN: (for new formation only)

Rotated Time : 12.55 **Meters Rotated :** 330 **Rotating ROP:** 26.3 m/hr

Total Time : 12.55 **Meters Drilled :** 330 **Average ROP:** 26.3 m/hr

Schlumberger

Drilling Tool Run Reports



Schlumberger

Equipment Run Summary Report

30-Apr-2008
8:38AM

Job Number: O8ASQ0005 **Company:** 3D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 1

Run Information

	Date In		Date Out
	25-Apr-2008 10:30PM		28-Apr-2008 8:30AM
Depth (MD):	122.0 m	to	1123.2 m
Depth (TVD):	122.0 m	to	1040.3 m
Inclination:	0.00 deg	to	27.05 deg
Azimuth:	0.00 deg	to	63.32 deg

Drilling Distance:	998.00 m	Drilling Hours:	28.81 hrs
Rotary Drilling Distance:	668.00 m	Rotary Drilling Hrs:	20.88 hrs
Sliding Distance:	330.00 m	Sliding Hours:	3.00 hrs
Reaming Distance:	29.00 m	Reaming Hours:	0.45 hrs
		Hrs Below Rotary:	58.00 hrs
		Total Pumping Hrs:	36.90 hrs

Hole Size:	17.50 in		
Last Casing Size:	20.000 in		
Last Casing Depth:	122.0 m (MD)		
Tool Face Arc:			
Total Face Angle:	163.50 deg		
North Ref Used:	Grid North	Min DLS:	0.15 deg/30 m
Magnetic Dec:	12.844 deg	Max DLS:	4.89 deg/30 m
Grid Correction:	-0.383 deg	Max DLS Depth:	446.3 m
Total Correction:	-13.227 deg	Surface Screen:	No
Est. Mag. Int:	0.45 deg	DFS Used:	No
		Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	39.50 m	Pulse Damp Press:	psi
Air Gap:	38.00m	Number of Pumps:	3
RKB Height:	38.00 m	Pump Line ID:	6.50 in
Ground Elevation:	-39.50 m	Pump Output:	0.14 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

RIH with MWD and Steerable motor assembly. Tag cement, and drill to 180mMD and kick off , then build to 27degrees inclination at 453mMDand hold to 1126m MD.

D&M Crew List:

Cell Manager: Jun Ikeda

Crew: San thida Aung, MWD
Patrick Dassens, DD
Jun Ikeda, Cell Manager
Punniamoorthy Sellathurai, DD
Kevin Stroud, DD

DH Motor Information

Manufacturer:	D&M	Bit to Bend Dist:	2.78 m
Motor Type:	PowerPak	Bearing Play In:	in
Motor Size:	9.50	Bearing Play Out:	in
Serial No.:	5659	Bent Sub Angle:	1.5003 deg
Lobe Config:	5:6	Bent HSG Angle:	deg
Stage Length:	4.00 m		
Rubber:	RM100		
Sleeve Position:			
Sleeve Size:	17.25 in		
Bearing Type:	Mud Lubricated		

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:	165.00 deg	Bit Rate:	3 bps	Slimpulse Pulser Config:	
Mod Gap:	0.12500 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	psi
SPT Type:	HA						

Schlumberger

Equipment Run Summary Report

3-May-2008
8:38AM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 1

Drilling Parameters

	Min	Max	Avg
BH Temperature:	52.55 degC	32.73 degC	32.73 degC
Surface RPM:	0.00 rpm	97.00 rpm	54.83 rpm
ROP:	13.92 m/hr	48.85 m/hr	34.64 m/hr
Surface Torque:	2.10 kft.lbf	10.66 kft.lbf	6.13 kft.lbf
Flow Rate:	830.00 galUS/min	1,160.00 galUS/min	1,055.33 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 k
Max Shock Level: 3
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: 2,851 rpm Min Flow Rate: 830.00galUS/min SPP Off Bottom: psi
Turbine RPM @ Max Flow Rate: 4,101 rpm Max Flow Rate: 1,160.00galUS/min SPP On Bottom: 1,452.10 psi

Mud Information

Mud Type: Water Base Mud Clean: Yes pH: 8.00
Mud Company: Baroid Fluid Services LCM Type: Chlorides: 16,000.00 ppm
Mud Brand: LCM Size: Sand Content: 0.50 %
Funnel Viscosity: 36.00 s/qt LCM Concentration: lbs/bbl Solids: 4.10 %
Plastic Viscosity: 5.00 cp Weighting Material: Percent Oil: %
Yield Point: 15.00 lbm/100ft2 Mud Weight: 9.2 lbm/galUS
Mud Resistivity: ohm-m

IADC Bit Grading

Manufacturer: Hughes Christersen Total Revs: IADC Code: 115
Model: 6064689 Stick/Slip: Jets (/ 32 in): 3X20
Type: Milltooth Reason Pulled: Total Depth/Casing Depth Bit TFA: 0.92 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
2.00	2.00	WT	A	E	I	BT

End of Run - Summary

Sync Hours: 26.43 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:

Start drilling at 4:20 am (26 April). At first the signal flucuated because of pressure from the motor. The signal come back to normal at 142m MD. Began first slide at 172m MD, and successfully completed build section on plan. Experienced one stand of high dogleg of 5.45 degrees. Reamed back and reamed down, and reduced dogleg by 1 degree. This did however cause some difficulty in building subsequently, but this was overcome with no adverse affects on the plan. Experienced 2 losses of tool signal at 977m MD. Initially thought that high flow was turning the tool off, but after analyzing the traces, realized that the two losses of signal were actually motor stalls. Continued rotating to td with occasional slide corrections. TD at 1123m MD.

If not, why?:

Schlumberger

Equipment Run Summary Report

3-May-2008
8:38AM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 1

Equipment on the Run

Equipment	Pump Hours Start	Pump Hours Cumulative	Software Version	Tool Size
A962M-5659	0.00 hrs	36.90 hrs		9.00 in
FS800-ASQ8037	0.00 hrs	36.90 hrs		8.25 in
MDC-DE-VA77	0.00 hrs	36.90 hrs	9.2CO2	8.25 in
MSSB-JB-42755	0.00 hrs	36.90 hrs		8.25 in
NMDC800L-N688	0.00 hrs	36.90 hrs		8.25 in
NMDC800S-7505	0.00 hrs	36.90 hrs		8.25 in
NMDC800S-9504216	0.00 hrs	36.90 hrs		8.25 in
NMDC800S-ASQ8020	0.00 hrs	36.90 hrs		8.25 in
NMDC825L-SBD5555	0.00 hrs	36.90 hrs		8.25 in
SZSS-IBSP-17A-OSS 061172A	0.00 hrs	36.90 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
MOTORS	PowerPak	PowerPak	36.90 hrs		998.0 m	hrs			
MWD	Shock and Vibration	TeleScope	36.90 hrs		998.0 m	58.00 hrs		998.0 m	
MWD	Cont D&I	TeleScope	36.90 hrs		998.0 m	hrs			
MWD	D&I	TeleScope	36.90 hrs		998.0 m	58.00 hrs		998.0 m	

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BHA Report

30-Apr-2008
8:39AM

Job Number: O8ASQ0005
Company Rep: Shaughan Corless
Run Number: 1
Company: 3-D OIL AND GAS
Location: MEA-APG-ASQ
BHA Type: Steerable Motor
Rig Name: West Triton
Well Name: West Seahorse-3

								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 Len
1	BIT		Milltooth	6064689	0.41 m	17.50							7 5/8"	REG PIN	0.41 m
2	MOTORS	D&M	PowerPak	5659	10.10 m	9.00	7.88				7 5/8"	REG BOX	7 5/8"	REG BOX	10.51 m
3	STABILIZER	D&M	Stabilizer	OSS 061172A	2.42 m	8.25	3.00				7 5/8"	REG PIN	7 5/8"	REG BOX	12.93 m
4	CROSSOVER	ADA		SSD7124	1.23 m	9.50	3.00				7 5/8"	REG PIN	6 5/8"	REG BOX	14.16 m
5	FLOAT SUB	D&M	Float Sub	ASQ8037	0.80 m	8.25	2.88				6 5/8"	REG PIN	6 5/8"	REG BOX	14.96 m
6	MONEL	D&M	NMDC	ASQ8020	7.00 m	8.25	2.88				6 5/8"	REG PIN	6 5/8"	REG BOX	21.96 m
7	CROSSOVER	D&M	X/O	42755	0.47 m	8.25	2.88				6 5/8"	REG PIN	6 5/8"	FH BOX	22.43 m
8	MWD	D&M	TeleScope	VA77	8.49 m	8.25	5.90				6 5/8"	FH PIN	6 5/8"	REG BOX	30.92 m
9	DRILL COLLAR - NONMAG	D&M	NMDC	N688	8.65 m	8.25					6 5/8"	REG BOX	6 5/8"	REG PIN	39.57 m
10	DRILL COLLAR - NONMAG	D&M	NMDC	SBD5555	9.45 m	8.25					6 5/8"	REG BOX	6 5/8"	REG PIN	49.02 m
11	DRILL COLLAR	ADA		ADA	46.99 m						6 5/8"	REG BOX	6 5/8"	REG PIN	96.01 m
12	JAR	Daileys		Daileys	9.68 m						6 5/8"	REG BOX	6 5/8"	REG PIN	105.69 m
13	DRILL COLLAR	ADA		ADA	18.90 m						6 5/8"	REG BOX	6 5/8"	REG PIN	124.59 m
14	CROSSOVER	ADA		ADA	1.22 m						5 1/2"	XT57	5 1/2"	XT57	125.81 m
15	HWDP	ADA		ADA	112.84 m							XT57		API FH BOX	238.65 m

Predicted BHA Tendency:

Hookload Out: 116
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		
MOTORS-PowerPak	0.40	m
MWD-TeleScope	24.20	m

Bit to Measurement Port		
TeleScope-D&I	26.56	m

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Daily Drilling Activity Report

30-Apr-2008
8:41AM

Job Number: O8ASQ0005 **Company:** 3D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run No: 1

From	To	Elapsed	Depth inm From	Depth inm To	IADC Activity	Description
26-Apr-2008						
00:00	01:47	1.78	0.0	17.0	Other	Pick up BHA and measured tool face,
01:47	04:20	2.55	17.0	122.0	PU / LD BHA / Tripping	Continue Picking up BHA to top of float collar
04:20	05:18	0.97	122.0	142.0	Drilling	Start drilling with 650 gpm and 76 pumps stroke each
05:18	18:00	12.70	142.0	503.0	Drilling	Drilling ahead with 110 strokes per minutes in each pump
18:00	21:46	3.77	503.0	687.0	Drilling	Drilling ahead , at depth 677m MD built and turned to maintain tangent, current ROP is maximum 90
21:46	00:00	2.23	687.0	775.5	Drilling	Continue Drilling ahead
27-Apr-2008						
00:00	03:00	3.00	775.5	861.0	Drilling	Mid night depth is 785mMD. Sliding to build at 812 mMD, Drilling ahead with good signals , total flow rate is 1175, CRPM 94, Stick slip is 9
03:00	21:50	18.83	861.0	1123.2	Drilling	TD @ 1123.16mMD, @ 977 mMD , Lost the communication from the tool and check the flow rate , recycle again . Signal back @979m MD

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Drilling Parameters Report

30-Apr-2008
8:42:47AM

Job Number: O8ASQ0005 **Company:** 3D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 1

	27-Apr-2008 10:40 PM	27-Apr-2008 1:03 PM	27-Apr-2008 11:03 AM	27-Apr-2008 1:10 AM	26-Apr-2008 2:58 PM	26-Apr-2008 8:20 AM
Field Engineer	San thida Aung	Jun Ikeda	Jun Ikeda	San thida Aung	Jun Ikeda	San thida Aung
Depth	1,123.00 m	1,010.00 m	989.00 m	808.00 m	404.00 m	204.00 m
Avg ROP	14.49 m/hr	14.49 m/hr	14.49 m/hr	14.49 m/hr	27.23 m/hr	27.23 m/hr
On Bottom ROP	15.93 m/hr	15.93 m/hr	15.93 m/hr	15.93 m/hr	33.23 m/hr	33.23 m/hr
Flow Rate	1,150.00 galUS/min	1,160.00 galUS/min	1,146.00 galUS/min	1,099.00 galUS/min	947.00 galUS/min	830.00 galUS/min
Turbine RPM	4,101 rpm	4,101 rpm	4,101 rpm	3,945 rpm	3,320 rpm	2,851 rpm
Surface RPM	95 rpm	95 rpm	97 rpm			42 rpm
WOB Rotating	35.00 klbm	37.00 klbm	31.00 klbm			
WOB Sliding						
DH WOB						
Surface Torque	7.30 kft.lbf	7.30 kft.lbf	7.10 kft.lbf	10.66 kft.lbf	2.30 kft.lbf	2.10 kft.lbf
DH Torque						
Hookload	173 klbm	170 klbm	168 klbm	159 klbm	127 klbm	116 klbm
PickUp Weight						
Slack Weight						
Friction						
SPP On Bottom	3,122.00 psi	3,061.00 psi	3,092.00 psi	2,855.10 psi	1,954.00 psi	1,452.10 psi
SPP Off Bottom						
Diff Pressure						
BH Temperature						
Total Shocks (k)						
Max Shock Level		3				
Max Shock Duration						
Torsional Vib						
Lateral Vib						
Axial Vib			1			
CRPM			100 rpm	1 rpm		42 rpm
Stick/Slip			27		45	
Formation	Limestone	Limestone	Limestone	Limestone	Limestone	Limestone
Signal Strength	40.00 psi	58.00 psi	40.00 psi	67.00 psi	34.00 psi	31.00 psi
Percent Signal Conf	70 %	66 %	70 %	94 %	95 %	96 %

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Time Description Report

30-Apr-2008
8:46AM

Job Number: O8ASQ0005 **Company:** 3D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 1

Date/Time	Depth		Description
26-Apr-2008 1:46AM	0.0	m	Measured Tool face correction
26-Apr-2008 4:20AM	115.0	m	Start drilling , take SHT , flow rate 650gpm
26-Apr-2008 4:40AM	120.0	m	Signal fluctuation because of motor
26-Apr-2008 5:16AM	142.0	m	Come back to normal signal with pump1=76 and pump2=78, total flow rate is 900
26-Apr-2008 7:36AM	179.0	m	Sliding with MTF tool face
26-Apr-2008 8:05AM	186.0	m	Drilling ahead with ROP 90, pumps stroke 71 each,
26-Apr-2008 8:35AM	209.0	m	Drilling ahead
26-Apr-2008 9:56AM	267.5	m	First Stand of Drill Pipe Drilled Down
26-Apr-2008 2:07PM	385.0	m	Experienced High Dogleg of 5.45 degrees in 1 stand. Repeated Survey, with same result. Informed Company man, and reamed back 1 stand. Repeated Previous survey, same result as previous survey. Reamed back down, and Repeated 385m survey. Inclination decreased by 1 degree. Continued drilling with reduced slides and higher flow rate.
26-Apr-2008 4:58PM	460.0	m	End of Curvature section. Commenced Rotating.
26-Apr-2008 6:55PM	540.0	m	Drilling ahead with pump strokes 101 each, total flow rate is 1101.52
26-Apr-2008 7:37PM	583.0	m	Drilling ahead with pump1 99 and pump2 101 spm,
26-Apr-2008 8:40PM	637.0	m	Drilling ahead with 60 rpm, with good signal
26-Apr-2008 9:24PM	677.0	m	Drilling ahead , building and turn to maintain tangent
26-Apr-2008 11:51PM	775.0	m	Drilling ahead
27-Apr-2008 12:00AM	785.0	m	Rotating for Sliding
27-Apr-2008 1:18AM	812.2	m	Sliding with flow rate 1105, pump pressure is 2918 psi
27-Apr-2008 1:59AM	830.0	m	Rotating with 60 RPM, flow rate 1101
27-Apr-2008 2:58AM	859.3	m	Drilling ahead (build) with RPM93 , pump strokes 101 spm,
27-Apr-2008 3:37AM	881.8	m	Rotating with RPM 93 ,
27-Apr-2008 4:32AM	894.0	m	Start Sliding at 886 m MD, Rotating with RPM 91
27-Apr-2008 7:34AM	947.0	m	Start Sliding at 947 m MD
27-Apr-2008 8:42AM	959.0	m	Resumed rotation at 40 rpm
27-Apr-2008 8:44AM	960.0	m	Experienced low level shocks and stick slip due to low rpm. Reduced WOB after connection
27-Apr-2008 9:32AM	977.0	m	MWD tool turned off. Recycled pumps and tool turned back on.
27-Apr-2008 9:47AM	979.0	m	MWD tool turned off again. Suspected that the increase in mud weight from 9.2 ppg to 10.5 ppg may have increased turbine rpm to tool turn off point. Informed company man and reduced flow by 50 gpm. Recycled pumps and regained tool signal. Tool did not turn off following reduction in flow.
27-Apr-2008 2:27PM	1034.0	m	Commenced Slide
27-Apr-2008 3:46PM	1048.0	m	Completed Slide, picked up of bottom and resumed drilling with rotation at 40rpm
27-Apr-2008 9:47PM	1123.2	m	TD @ 1123.16m MD
27-Apr-2008 10:50PM	1123.0	m	Circulating bottoms up

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Equipment Run Summary Report

7-May-2008
3:44PM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2

Run Information

	Date In		Date Out
	2-May-2008 5:30PM		5-May-2008 6:00AM
Depth (MD):	1123.0 m	to	1810.0 m
Depth (TVD):	1040.3 m	to	1684.1 m
Inclination:	27.05 deg	to	8.75 deg
Azimuth:	63.32 deg	to	55.97 deg

Hole Size:	12.25 in
Last Casing Size:	13.380 in
Last Casing Depth:	1117.0 m (MD)
Tool Face Arc:	
Total Face Angle:	deg

Drilling Distance:	687.00 m	Drilling Hours:	31.00 hrs
Rotary Drilling Distance:	687.00 m	Rotary Drilling Hrs:	31.00 hrs
Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Reaming Distance:	474.00 m	Reaming Hours:	10.48 hrs
		Hrs Below Rotary:	60.50 hrs
		Total Pumping Hrs:	41.48 hrs
		Min DLS:	0.15 deg/30 m
North Ref Used:	Grid North	Max DLS:	4.38 deg/30 m
Magnetic Dec:	12.844 deg	Max DLS Depth:	1,540.8 m
Grid Correction:	-0.383 deg	Surface Screen:	No
Total Correction:	-13.227 deg	DFS Used:	No
Est. Mag. Int:	0.37 deg	Inline Filter:	No

Rig Information

Rig Type:	Jack Up	Pump Type:	Triplex
Water Depth:	39.50 m	Pulse Damp Press:	psi
Air Gap:	m	Number of Pumps:	3
RKB Height:	38.00 m	Pump Line ID:	6.50 in
Ground Elevation:	-39.50 m	Pump Output:	0.14 galUS/stroke
		Pump Stroke Len:	14.00 in

Run Objective

RIH to 1093 m and drill out cement to 1126m.
Pull back into shoe, and circulate until mud weight is even.
Conduct FIT to 13.6 ppg EMW with drill water.
Drill ahead as per DD's instructions, dropping to 9.15 degrees inclination through reservoir.
Drill to predicted TD of 1985m MD.

D&M Crew List:

Cell Manager: Jun Ikeda
Crew: San thida Aung, MWD
Patrick Dassens, DD
Jun Ikeda, Cell Manager
Punniamoorthy Sellathurai, DD
Kevin Stroud, DD

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:	49461
RSS Size:	9.00
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle:	120.00 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:	0.12500 in	Turbine Config:	600-1200 galUS/min	Frequency:	13.5 Hz	Pred Sig Strength @ TD:	psi
SPT Type:	HA						

Schlumberger

Equipment Run Summary Report

7-May-2008
3:44PM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2

Drilling Parameters

	Min	Max	Avg
BH Temperature:	46.70 degC	58.00 degC	51.64 degC
Surface RPM:	65.00 rpm	171.00 rpm	138.00 rpm
ROP:	1.50 m/hr	33.40 m/hr	22.16 m/hr
Surface Torque:	0.06 kft.lbf	12.00 kft.lbf	7.32 kft.lbf
Flow Rate:	982.00 galUS/min	1,046.00 galUS/min	1,013.60 galUS/min
WOB Sliding:			

Total DH Shocks (k): 0 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: psi

Turbine RPM @ Min Flow Rate: 3,427 rpm Min Flow Rate: 982.00galUS/min SPP Off Bottom: psi
Turbine RPM @ Max Flow Rate: 3,671 rpm Max Flow Rate: 1,046.00galUS/min SPP On Bottom: 1,447.00 psi

Mud Information

Mud Type: Water Base Mud Clean: Yes pH: 9.00
Mud Company: Baroid Fluid Services LCM Type: Chlorides: 36,000.00 ppm
Mud Brand: LCM Size: Sand Content: 1.00 %
Funnel Viscosity: 44.00 s/qt LCM Concentration: lbs/bbl Solids: 5.10 %
Plastic Viscosity: 10.00 cp Weighting Material: Percent Oil: %
Yield Point: 25.00 lbm/100ft2 Mud Weight: 9.60 lbm/galUS
Mud Resistivity: ohm-m

IADC Bit Grading

Manufacturer: Hycalog Total Revs: IADC Code: M422
Model: RSX616 MA 16 Stick/Slip: Jets (/ 32 in): 3X15 3X16
Type: PDC Reason Pulled: Total Depth/Casing Depth Bit TFA: 1.11 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars

End of Run - Summary

Sync Hours: 51.56 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:

RIH to top of float collars, but experienced some difficulty in drilling them out. Experimented with different drilling parameters, until finally passing through float collars. Drilled 3 metres into new formation before conducting FIT using Halliburton unit and side entry sub. Following FIT, commenced drilling new formation. Drilled ahead to TD, occasionally pulling off bottom and increasing RPM in order to minimize stick-slip. TD called at 1810m MD.

If not, why?:

Schlumberger

Equipment Run Summary Report

7-May-2008
3:44PM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2

Equipment on the Run

Equipment	Pump Hours Start	Pump Hours Cumulative	Software Version	Tool Size
MDC-DE-VA77	36.90 hrs	78.38 hrs	9.2CO2	8.25 in
NMDC800L-N688	36.90 hrs	78.38 hrs		8.25 in
PDSC9-BA-49461	0.00 hrs	41.48 hrs		9.00 in
PLF9C-AA-51767	0.00 hrs	41.48 hrs		9.00 in
RBDC-CA-034	0.00 hrs	41.48 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
RSS	PowerDrive X5	PowerDrive X5	41.48 hrs		687.0 m	hrs			
RSS	D&I	PowerDrive X5	41.48 hrs		687.0 m	hrs			
RSS	T/F	PowerDrive X5	41.48 hrs		687.0 m	hrs			
RSS	Cont D&I	PowerDrive X5	41.48 hrs		687.0 m	hrs			
RSS	Stick/Slip risk	PowerDrive X5	41.48 hrs		687.0 m	hrs			
RSS	E-Mag Link	PowerDrive X5	41.48 hrs		687.0 m	hrs			
LWD	Ring Resistivity	GeoVision	41.48 hrs		687.0 m	60.50 hrs		687.0 m	
LWD	Button Resistivity	GeoVision	41.48 hrs		687.0 m	60.50 hrs		687.0 m	
LWD	GammaRay	GeoVision	41.48 hrs		687.0 m	60.50 hrs		687.0 m	
MWD	Shock and Vibration	TeleScope	41.48 hrs		687.0 m	60.50 hrs		687.0 m	
MWD	Cont D&I	TeleScope	41.48 hrs		687.0 m	hrs			
MWD	D&I	TeleScope	41.48 hrs		687.0 m	60.50 hrs		687.0 m	

Schlumberger

BHA Repo

7-May-2
3:4

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2 **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 Ler
1	BIT	Hycalog	PDC	218662	0.30 m	12.25	3.25						6 5/8"	REG PIN	0.30
2	RSS	D&M	PowerDrive X5	49461	4.20 m	9.25	3.00				6 5/8"	REG BOX	6 5/8"	REG BOX	4.50
3	FLEX COLLAR	D&M		51767	4.82 m	8.25	5.00	8.38	0.48		6 5/8"	REG PIN	6 5/8"	FH BOX	9.32
4	LWD	D&M	GeoVISION	034	4.22 m	8.25	3.90				6 5/8"	FH PIN	6 5/8"	FH BOX	13.54
5	MWD	D&M	TeleScope	VA77	8.49 m	8.25	5.90				6 5/8"	FH PIN	6 5/8"	REG BOX	22.03
6	DRILL COLLAR - NONMAG	D&M	NMDC	N688	8.65 m	8.25	2.81				6 5/8"	REG PIN	6 5/8"	REG BOX	30.68
7	DRILL COLLAR	SeaDrill	Drill Collar	Sea Drill	9.45 m	8.00	2.81				6 5/8"	REG PIN	6 5/8"	REG BOX	40.13
8	JAR	Dailey	Hydraulic Jar	Dailey	9.68 m	8.00	3.00				6 5/8"	REG PIN	6 5/8"	REG BOX	49.81
9	DRILL COLLAR	Sea Drill	Drill Collar	Sea Drill	9.44 m	8.00	2.81				6 5/8"	REG PIN	6 5/8"	REG BOX	59.25
10	CROSSOVER	Sea Drill	Cross Over	Sea Drill	1.22 m	8.00	2.81				6 5/8"	REG PIN	5 1/2"	XT57BOX	60.47
11	HWDP	Sea Drill	HWDP	Sea Drill	112.84 m	5.50	3.25				5 1/2"	XT57PIN	5 1/2"	XT57BOX	173.31

Predicted BHA Tendency:

Hookload Out: 116
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-GeoVISION	10.50	m
MWD-TeleScope	15.30	m
RSS-PowerDrive X5	0.30	m

Bit to Measurement Port		
TeleScope-D&I	17.67	r
GeoVISION-Ring Resistivity	10.75	r
GeoVISION-Button Resistivity	11.13	r
GeoVISION-GammaRay	10.49	r
PowerDrive X5-D&I	2.34	r
PowerDrive X5-T/F	2.34	r
PowerDrive X5-Cont D&I	2.34	r
PowerDrive X5-Stick/Slip risk	2.34	r

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Time Description Report

7-May-2008
3:53PM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2

Date/Time	Depth		Description
29-Apr-2008 12:00AM			
1-May-2008 12:00AM	0.0	m	continue Fishing
1-May-2008 10:30AM	0.0	m	Pressure Testing Casing
1-May-2008 11:00AM	0.0	m	Experienced Pressure Loss
1-May-2008 12:00PM	0.0	m	Test Mud Line Hanger Seals
1-May-2008 1:00PM	0.0	m	Install Adjustable Landing Ring
1-May-2008 1:30PM	0.0	m	Attempt to close wellhead running tool
1-May-2008 4:00PM	0.0	m	Raise Texas Deck
1-May-2008 7:30PM	0.0	m	Begin Nippling up BOP and Choke line
2-May-2008 12:00AM	0.0	m	Continue Nippling up BOP and overshot, but experienced problem with choke line.
2-May-2008 2:30AM	0.0	m	Trouble shooting choke line.
2-May-2008 4:00PM	0.0	m	Picking up BHA
2-May-2008 5:30PM	0.0	m	Bit Below Rotary Table
2-May-2008 7:20PM	35.0	m	Conducted Shallow hole test. Experienced lack of signal from Powerdrive due to emag interference from casing and rotary table. Brought tool above rotary and tool began communicating. Successful shallow hole test.
2-May-2008 10:45PM	319.5	m	Still Cementing, stuck with cementing in the hole
3-May-2008 12:30AM	526.5	m	Stuck cementing in the hole,
3-May-2008 4:55AM	1056.4	m	Still tripping in and circulating
3-May-2008 5:26AM	1103.0	m	Began drilling Plugs.
3-May-2008 6:00AM	1103.0	m	Experienced difficulties drilling out plugs. torque fluctuations seen. DD attempted to vary parameters, but was instructed to return to written parameters.
3-May-2008 12:56PM	1105.0	m	Drilled through plugs, and out of shoe to 1125.99m MD, before pulling back into shoe to conduct FIT
3-May-2008 1:45PM	1126.0	m	Conduct FIT
3-May-2008 3:46PM	1132.0	m	Downlink for changing MTF to GTF
3-May-2008 4:58PM	1144.0	m	Downlink for changing Steering ratio 0~ 25%
3-May-2008 5:44PM	1162.0	m	Downlink for changing Steering ratio 25~ 50%
3-May-2008 7:34PM	1215.6	m	Drilling ahead with total flow rate 982 with pump strokes 84 for each pump.
3-May-2008 8:07PM	1235.0	m	Drilling ahead with good signal,
3-May-2008 9:18PM	1292.2	m	Drilling ahead with good signal and downlink the powerdrive tool at 20:50 pm.
3-May-2008 10:35PM	1344.0	m	Drilling ahead with 145 rpm, 84 pump strokes each, with good signal
3-May-2008 11:02PM	1360.0	m	Drilling ahead with RPM 150, ROP 60, total flow rate is 988, 330 psi loss for MWD tool
3-May-2008 11:59PM	1392.0	m	Mid night depth, RPM 143, with 84 pump stroke each.
4-May-2008 12:32AM	1420.0	m	Drilling ahead with flow rate 994, ROP 60, RPM is 145, stick slips 52
4-May-2008 12:51AM	1438.0	m	Stick slips is 72 and higher than a few minutes ago
4-May-2008 1:08AM	1440.0	m	stop rotating @ 1am due to high stick slips. Commenced SCR's
4-May-2008 1:34AM	1453.0	m	Stick slip between 72~84, told DD, off bottom a while xoz of high stick slips
4-May-2008 2:22AM	1484.0	m	Drilling ahead with high stick slips 81, downlink at @2:13 am
4-May-2008 3:05AM	1506.0	m	Drilling ahead with stand pipe pressure 1857, 15 SWOB, ROP 30
4-May-2008 6:17AM	1558.0	m	Shut in well due to gas in mud.
4-May-2008 7:28AM	1577.0	m	Downlinked to PD to change TF desired to 180 and Steering % to 50
4-May-2008 8:10AM	1592.0	m	Observed high stick slip (144 stickslip 141 crpm). Informed DD, who then Picked up off bottom and increased RPM to 170.
4-May-2008 8:11AM	1592.0	m	Drill water down.
4-May-2008 8:13AM	1592.0	m	Drill water back on.
4-May-2008 8:28AM	1596.0	m	Downlinked to PD to change to inclination hold, and steering % to 25

Date/Time	Depth		Description
4-May-2008 9:28AM	1608.0	m	Downlinked to PD to change Steering % to 50
4-May-2008 10:08AM	1620.0	m	Downlinked to PD to change TF Desired to 144 degrees.
4-May-2008 10:41AM	1636.0	m	Observed high stick slip. Informed DD who then advised Driller to PU off bottom and increase rpm to 170, then feather down to bottom again.
4-May-2008 10:55AM	1638.0	m	Decreased flow rate due to temporary loss of 1 generator.
4-May-2008 12:55PM	1677.0	m	Conducted SCR's
4-May-2008 1:11PM	1679.0	m	Downlinked to PD
4-May-2008 3:00PM	1711.0	m	Observed high stick slip. Informed DD who then advised driller to increase RPM.
4-May-2008 4:18PM	1740.0	m	Downlinked to PD
4-May-2008 5:22PM	1766.0	m	Decision to call TD at 1810m MD
4-May-2008 7:02PM	1810.0	m	TD, download PD to reset at neutral
5-May-2008 6:00AM	0.0	m	Above Rotary Table.

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Drilling Parameters Repo

7-May-2
3:51:3

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run Number: 2

	05-May-2008 12:29 AM	04-May-2008 8:23 AM	04-May-2008 4:24 AM	03-May-2008 9:19 PM	03-May-2008 9:46 AM
Field Engineer	San thida Aung	Jun Ikeda	San thida Aung	San thida Aung	Jun Ikeda
Depth	1,810.00 m	1,595.00 m	1,532.07 m	1,292.64 m	1,103.59 m
Avg ROP		17.42 m/hr	17.42 m/hr	11.21 m/hr	11.21 m/hr
On Bottom ROP		22.00 m/hr	22.00 m/hr	14.54 m/hr	14.54 m/hr
Flow Rate	1,000.00 galUS/min	1,046.00 galUS/min	1,046.00 galUS/min	982.00 galUS/min	994.00 galUS/min
Turbine RPM	3,476 rpm	3,671 rpm	3,710 rpm	3,427 rpm	3,398 rpm
Surface RPM	160 rpm	171 rpm	146 rpm	148 rpm	65 rpm
WOB Rotating	11.00 klbm	14.00 klbm	14.00 klbm	15.00 klbm	5.60 klbm
WOB Sliding					
DH WOB					
Surface Torque	12.00 kft.lbf	5.60 kft.lbf	11.26 kft.lbf	7.70 kft.lbf	.06 kft.lbf
DH Torque					
Hookload					
PickUp Weight					
Slack Weight					
Friction					
SPP On Bottom	1,725.00 psi	1,873.00 psi	1,937.00 psi	1,595.00 psi	1,447.00 psi
SPP Off Bottom					
Diff Pressure					
BH Temperature	58.00 degC	50.22 degC	46.70 degC		
Total Shocks (k)					
Max Shock Level	2				
Max Shock Duration					
Torsional Vib					
Lateral Vib					
Axial Vib					
CRPM	160 rpm	168 rpm	148 rpm	148 rpm	71 rpm
Stick/Slip	100	21	24	75	100
Formation	Siltstone	Other	Other	Other	Other
Signal Strength	48.00 psi	48.00 psi	46.00 psi	41.00 psi	40.00 psi
Percent Signal Conf	86 %	86 %	84 %	92 %	86 %

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Daily Drilling Activity Report

7-May-2008
3:49PM

Job Number: O8ASQ0005 **Company:** 3-D OIL AND GAS **Rig Name:** West Triton
Company Rep: Shaughan Corless **Location:** MEA-APG-ASQ **Well Name:** West Seahorse-3
Run No: 2

From	To	Elapsed	Depth in m From	Depth in m To	IADC Activity	Description
28-Apr-2008						
00:00	02:30	2.50	1070.0	739.0	PU / LD BHA / Tripping	Contiue to POOH with 5.5" Drillpipe
02:30	06:30	4.00	739.0	124.0	PU / LD BHA / Tripping	Contiue POOH with 5.5" drillpipe. Pump 20bbl
06:30	09:00	2.50	124.0	38.0	PU / LD BHA / Tripping	Continue POOH with 17.5" and laid out string stabilizer
09:00	12:00	3.00	0.0	0.0	PU / LD BHA / Tripping	Make up jet sub, RIH to 87m , Jet landing ring, clear RIH floor of excess equip, RIG for runnning 13 3/8" casing
12:00	14:00	2.00	0.0	0.0	Run casing / cement	Continue rigging up to run 13 3/8" casing , change bails, install elevators and flush mounted slips. remove diverter and insert
14:00	23:54	9.90	0.0	0.0	Run casing / cement	Run casing as per tally to 854m MD, install centrailsers as required fill every joint. break circulation at 650m MD ,and washdown through tight spot
29-Apr-2008						
00:00	02:00	2.00	0.0	0.0	PU / LD BHA / Tripping	Continue RIH with 13 3/8" casing 854m to 1029 m MD
02:00	02:30	0.50	0.0	0.0	PU / LD BHA / Tripping	Pick up MLS, break out and make up . change out FMS
02:30	03:03	0.55	0.0	0.0	PU / LD BHA / Tripping	Contunue RIH with 13 3/8" CSG
03:03	05:30	2.45	0.0	0.0	PU / LD BHA / Tripping	RIH down casing spiders, break out circ tool , chec , change bills to drill pipe bails and 5.5" manual elevators
05:30	09:30	4.00	0.0	0.0	Run casing / cement	RIH , continue circulat to clean the hole and make up cement head, rig up cement
09:30	12:00	2.50	0.0	0.0	Run casing / cement	Wash down wellhead and landed off, circulate and condition mud , test cementing lines to 4000psi/5 mins. commence cement job.
12:00	14:00	2.00			Run casing / cement	Continue with cement job as per program,
14:00	00:00	10.00			Nipple up BOPs	Rig up BOP, lay out overshot and drill pipe
30-Apr-2008						
00:00	04:30	4.50	0.0	0.0	PU / LD BHA / Tripping	continue lay out diverter , pick up wellhead assy, break out 17.5" BHA
04:30	12:00	7.50	0.0	0.0	Run casing / cement	Make up 13 3/8" water boshing conductor, attempt to rotary from MLS
12:00	16:30	4.50	0.0	0.0	Run casing / cement	Water bushing in top of 13 3/8" casing, attempt to reach out mud line , unable to readh out top drive , toruble shoot
16:30	20:30	4.00	0.0	0.0	Run casing / cement	Prepare to make up 13 3/8" casing spear , bumper sub, RIH same
20:30	00:00	3.50	0.0	0.0	Run casing / cement	latch onto 13 3/8" casing @ 48 m , reach out landing ring @89m, pull to surface and attempt to unlatch spear from casing , not success
1-May-2008						
00:00	02:30	2.50	0.0	0.0	Fishing	Continue to Retrieve Landing String
02:30	10:30	8.00	0.0	0.0	Run casing / cement	RIH w/ spare MLH , tack welding casing joints
10:30	11:00	0.50	0.0	0.0	Other	Prepare to pressure test casing
11:00	12:00	1.00	0.0	0.0	Other	Experienced Pressure Loss
12:00	13:00	1.00	0.0	0.0	Other	Test Mudline Hanger Seals
13:00	13:30	0.50	0.0	0.0	Other	Install Adjustable landing ring
13:30	16:00	2.50	0.0	0.0	Other	Attempt to Close Well Head running tool
16:00	19:30	3.50	0.0	0.0	Other	Raise Deck on Texas Deck
19:30	00:00	4.50	0.0	0.0	Nipple up BOPs	Nipple up BOP and Rig up Choke Line
2-May-2008						
00:00	02:30	2.50	0.0	0.0	Nipple up BOPs	Continue Nippling Up BOP and Overshot. Problem with Choke Connection.
02:30	12:00	9.50	0.0	0.0	Test BOP	Trouble Shoot Choke Hose Connection. Multiple Attempts
12:00	12:30	0.50	0.0	0.0	Test BOP	Continue testing BOP
12:30	14:30	2.00	0.0	0.0	Lubricate rig / Service	Service TDS
14:30	15:00	0.50	0.0	0.0	Repair rig	Held PJSM change out tugger

Schlumberger

Daily Drilling Activity Report

7-May-2008
3:49PM

Job Number:	O8ASQ0005	**Company:**	3-D OIL AND GAS	**Rig Name:**	West Triton
Company Rep:	Shaughan Corless	**Location:**	MEA-APG-ASQ	**Well Name:**	West Seahorse-3
Run No:	2				

			Depth in m			
From	**To**	**Elapsed**	**From**	**To**	**IADC Activity**	**Description**
15:00	16:00	1.00	0.0	0.0	Other	Install Nominal Bore Protector
16:00	19:00	3.00	0.0	35.0	PU / LD BHA / Tripping	Pick up 12.25 in BHA
19:00	19:30	0.50	35.0	35.0	MWD/LWD service quality	Shallow Hole Test MWD/LWD tools
19:30	21:00	1.50	35.0	200.0	PU / LD BHA / Tripping	Install Auto Elevators and RIH with HWDP to 200 m
21:00	22:00	1.00	200.0	285.0	PU / LD BHA / Tripping	Continue RIH to 285m
22:00	00:00	2.00	285.0	486.0	Reaming / Hole opener / Unc	Wash down & ream from 285 to 468 and confirm cement returns
3-May-2008						
00:00	02:34	2.57	526.0	585.0	PU / LD BHA / Tripping	Cementing stuck in the hole about 200 m and still tripping in.
02:34	03:31	0.95	585.0	850.0	PU / LD BHA / Tripping	Continue Tripping in.
03:31	05:30	1.98	850.0	1100.0	Reaming / Hole opener / Unc	Continue washdown and ream from 468m to 1100 @ 100spm, 585gpm , 40 rpm , 700 psi
05:30	12:00	6.50	1100.0	1123.0	Reaming / Hole opener / Unc	Commence drill out cementing plugs and float from 1100 , displacing well to 900 psi, 26 kWOB, and continue drilling out float. Then drill out cement to casing shoe @1117m, then continue to end of rathole @1123mMD
12:00	14:00	2.00	1123.0	1126.0	Drilling	Drill 3 m of new formation to 1126m
14:00	15:30	1.50	1126.0	1132.0	Drilling	Rig up lines, flush same test to 2000 psi. Perform FIT with 9.4 ppg mud to TSO psi. @1035m, First down link to powerdrive@15:45
15:30	00:00	8.50	1132.0	1392.0	Drilling	Commence drilling 12.25" hole from 1126 m to 1392m as per DD instructions, Take survey every stands
4-May-2008						
00:00	05:00	5.00	1392.0	1559.0	Drilling	Drilling ahead 12.25" from 1392 m to 1559m MD as per DD instruction
05:00	12:00	7.00	1559.0	1660.0	Drilling	Continuous drilling from 1559m to 1660m MD , 180 spm, 1050 gpm,1900 psi,150rpm, 10WOB
12:00	19:00	7.00	1660.0	1810.0	Drilling	Continue drilling as per DD instruction up to TD
19:00	00:00	5.00	1810.0	1530.0	PU / LD BHA / Tripping	POOH from 1810-1530m MD, wipe trip
5-May-2008						
00:00	03:00	3.00	1530.0	173.0	PU / LD BHA / Tripping	Continue POOH
03:00	06:00	3.00	173.0	0.0	PU / LD BHA / Tripping	Lay out BHA

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DOWN-HOLE MOTOR RUN REPORT

RUN Nº 1 **Motor Size** 9 5/8" **Serial No** 5659 **Measurements are in** M

Company 3D Oil Ltd. **Well** West Seahorse-3 **Slot** n/a **Field** Wildcat / exploration

Location Bass Strait, Gippsland Basin **Country** Australia

Operator Australian Drilling Associates **Rig** Seadrill - West Triton **Engineer** Moorthy/Patrick **Date** 25-Apr-08

Bit Size	Make	Type	IADC	Jets	Jets	Jets	TFA
17 1/2	Hughes Christensen	MXL-T1V	1-1-5	3 x 20			0.910

IADC CUTTING STRUCTURE

Inner Row	Outer Row	Dull Char'	Location	Brg/Seals	Gauge	Others	Reason for Trip
2	2	WT	A	E	I	BT	TD

Motor Made By	Size	Model / Type	Rot'/Stat', Stages		Serial No	Hsg Stab OD	°Bent Hsg	°Bent Sub
Schlumberger	9 5/8"	A962M5640XP	5/6	4.0	5659	17 1/4"	1.5	nil

Type **1** = Straight; **2** = Steerable; **3** = Double Bend: 2 **Rotor S/Nº** 5224 **Stator S/Nº** 6230

Drlg Cmt, W/Ream 0.70 **Drlg Hrs** 27.80 **Circ Hrs** 8.40 **Total Motor Circ Hrs** 36.90

Purpose of Run Drilled cement and float equipment, cleaned out rat hole. Rotary drilled to kick off point at 180m. Kick off building at 3º/30m to 27.4ºm along the azimuth of 62.96º azimuth. Continue drilling tangent section to casing point @ 1125m MDDF.

BHA#

17 1/2" Bit
PowerPak Motor (1.5 deg)
17" String Stab
Crossover
Float Sub
3x8" Pony NMDC
Cross over sub
PowerPulse HF MWD
2x8" NMDC
8" Collar (5 joints)
Hydraulic Jar
8" Collar (2 joints)
Crossover
5 1/2" HWDP (12 joints)
5-1/2" DP

Depth In	125.00	**Depth Out**	1123.00	**Inter'l Drld**	998.00
Date In	25-Apr-08	**Date Out**	28-Apr-08	**Inter'l ROP**	34.60
Time In	22:30	**Time Out**	8:30	**Time BRT**	58.00 Hrs

Surveys	**MD IN**	154.20	**Inclin**	0.83	**Azim**	65.83
	MD OUT	1094.42	**Inclin**	27.05	**Azim**	63.32

Flow Rate	Off Bttm Press	On Bttm Press	RPM	WOB
GPM	PSI	PSI	Surface	KLbs
1150	2900	3100	100	35

Mud Type	Seawater - Bentonite	**Mud Wt**	9.4 ppg	**Mud Grad'**	n/a	**Vis**	36 sec
PV	5 cP	**Filtrate**	n/a	**% Solids**	4.1	**pH**	8
YP	15	**% Oil/Water**	n/a	**% Sand**	0.5	**Circ Temp**	53 deg C

FAILURE? No **Slide (m)** 330 **Previous Hrs** 0 **Cumulative Hrs** 36.90

Remarks / Failure Report.

Reason for POOH : TD hole section **Failure :** Category = -

Did Motor Stall?	
no	yes
Slide	Rty
0	2

Bearing Play	
In	3.0 mm
Out	3.0 mm
Condition	

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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
08ASQ005	Shaughan Corless	17-Sep-07	17-Sep-07	1	2	3	Moorthy / Pat

CLIENT	Hole Depth - FROM	TO	Flex/ILF SN (ft/m)	Xtra Receiver #	Control Unit #
3D Oil Ltd	1123.0 m MD	1810.0 m MD	51767	49245	958

RIG NAME	Inclination - FROM	TO	Control Collar #	Ext Sub #	Bias Unit #
Seadrill - West Triton	25.87 deg	8.75 deg	49461	51368	51330

WELL NAME	Azimuth - FROM	TO	Bit Mfg	Bit Type	Bit SN
West Seahorse-3	63.90 deg	55.97 deg	Reed	RSX616-A16	218662

LOCATION	Hole Size	Bit to D&I	Bit to PD D&I	Dull Grade - IADC Cutting Structure
Bass Strait	12 1/4"	17.67 m	2.66 m	

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)	+ 12.844	- 0.383	13.227	120	Good	19.62	13 3/8' 1117 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
0.60 m	3.67 m	2.95 m	5	20	150	8	19.58	687.0

PD MIN/MAX		Initial / Final Battery Voltage		RPM MIN / MAX		MWD Min/Max Flow Rating		Below Rotary Table Hours	PD ft/M Drilled (Operating)
484	1483	3.78		50	160	600	1200	60.50	687.0

Pulse Width MIN/MAX		Pulse height thre	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	950	1055	5.85	Triplex	39.20	35.0	35.0

Tool Response

Max DLS	Max BUR	Max Turn Rt
4.3	4.3	

Stab gauge before/after run: 12 1/8 / 12 1/8

Run Objective

Maintain 27 deg tangent then drop to 9 deg at target and TD

SOFTWARE VERSION

TSIM	Comms mod	Sensor mod	MWD	IDEAL
AC	CMF523H15	SMV507RN	9.2C02	13_0c_08

Reason for POOH

TD well

Bit Hydraulics Calculations

Enter data in blue areas

Pump Flow	1055
Mud Weight	9.7
Bit Diameter	12.25
Bit Flow	1038
Bit Pressure Drop	785
Hydraulic HP	475
HSI	4.0
Impact Press.	1419

Note: Rock compressive strength should be greater than the Impact Pressure.

Bit Nozzle Size and TFA

Nozzle	/ 32	TFA
1	15	0.173
2	15	0.173
3	15	0.173
4	16	0.196
5	16	0.196
6	16	0.196
7		
8		
9		
10		
Bit TFA =		1.107

Flow Restrictor Pressure Drop

Nozzle size (32nd)	TFA	Press. Drop

Total Pressure Drop Below PowerDrive

785 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. / PUMP HOURS

PART	PFIX	SN	START	CUM
Control Unit	CU	958	0.00	39.20
Control Collar	CC	49461	0.00	39.20
Ext Sub	ES	51368	0.00	39.20
Bias Unit	BU	51330	0.00	39.20
Flex/ILF	PD9RX-AA	51767	0.00	39.20
Xtra Receiver		49245	0.00	39.20
Upper Torquer		49846	0.00	39.20
Lower Torquer		34624	0.00	39.20
Comms Module		730	0.00	39.20
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	1000 / 900	
Driller's Pulse Height	5-10	%
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	KCL Polymer
MW at **start** of run	9.7 ppg
MW at **end** of run	9.7 ppg
Funnel Viscosity	44 sec
Plastic Viscosity	10 cP
Yeild Point	25 lbs/100ft^2
Maximum DH Temp. deg C	58 degC
Sand %	1.00 %
Soild %	5.10 %

Run Summary

Drilled out cement and float equipment without any problems. Three meters of new formation was drill out and a formation integrity test was performed.

Once out of the shoe the PowerDrive assembly had a slight dropping tendency in neutral steering mode. The rate of penetration was held to about 30 m/hr until the BHA was clear on the shoe and rat hole and then drilling parameters were increased. A 50% steering ratio was required to hold the assembly in the tangent section. A rate of penetration of about 60 m/hr was achieved for must of the tangent section and the start of the drop section.

At the start of the drop section the tool was initially placed in a 25% drop with a right bias to counteract a left turn tendency. The drop rate was much lower than expected so steering ratio was increased to eventually 100% low side. Drop rates of only low 2 º/30m was achieved in the Lakes Entrance formation. Once into the Latrobe Group formation drops rates increased to low 4 º/30m and the required drop angle could be achieved. The rate of penetration was held back to 30 m/hr for logging purposes and this may of helped to improve the drop rate.

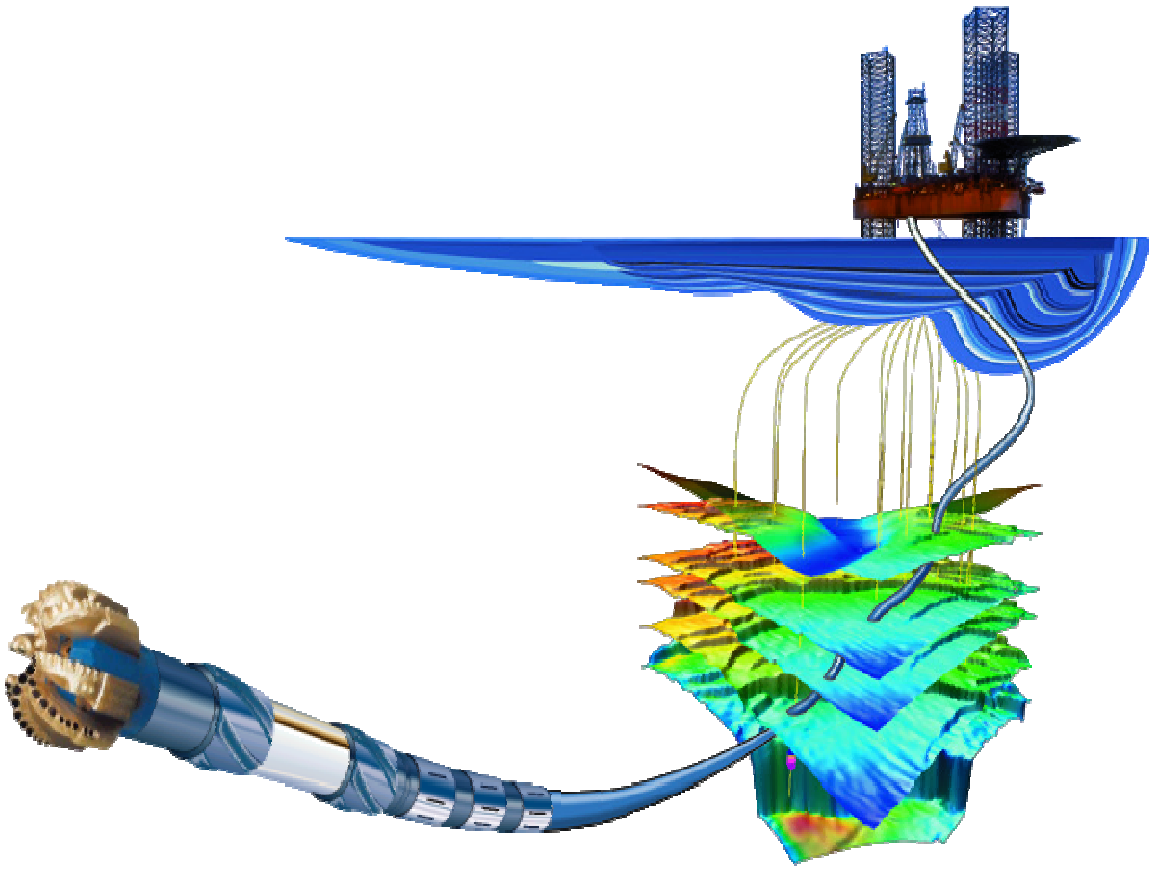
Once the drop was achieved the PowerDrive was placed in Inclination Hold mode for the remainder of the tangent section to TD at 1810m MDRT. Both geological targets were successfully penetrated.

A moderate stick-slip was observed for most of the run but it did not affect the steering ability. Stick-slip was considerably lower in the Latrobe Group formation.

The bit was graded as 3-1-CT-A-X-I-WT-TD.

Schlumberger

Drill Bit Gradings



Schlumberger

ROCK BIT GRADING CHART

BIT RUN DATA # 2

Bit Size:	17 1/2"
Manufacturer:	Hughes Christensen
Bit Type:	MXL-T1V
Serial Number:	60654689
New Bit:	Yes
IADC Code:	1-1-5
Number of Nozzles:	3
Size of Nozzles:	3 x 20
T.F.A. (sq. in):	0.91
W.O.B. :	5-35
Depth Out:	1123.0
Depth In:	125.0
Meters Drilled:	998.0
Drilling Hours:	28.80

WELL DATA

Date:	28-Apr-08
Drilling Supervisor:	Shaughan Corless/Ro
Platform:	West Triton
Well Number:	West Seahorse-3
Rig Contractor:	Seadrill
Final Hole Angle:	27.0°
Date in:	25-Apr-08
Date Out:	28-Apr-08
BHA #	2

MUD AND LITHOLOGY DATA

Majority Formation:	Limestone
Other Formation:	
% Formation:	
Mud Type:	Seawater - Bentonite
Mud Weight:	9.4 ppg
PV:	5 cP
YP:	15 lbs/100 ft^2
% Solids:	4.10
% Oil / Water:	n/a
Circulating Temperature (deg c):	53 deg C

COMMENTS:

IADC ROCK BIT GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
2	2	WT	A	E	I	BT	TD

GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				Cone		REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOCATION	BEARING / SEALS	GAUGE	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A) Inner cutting structure = all inner rows. **(A)** Outer cutting structure = gauge row only.
In columns 1 and 2 **(A)** , a linear scale from 0 to 8 is used to describe the condition of the cutting structure according to the following -

Steel Tooth Bits - A measure of lost tooth height due to abrasion and or damage. 0 = No loss of tooth height, 8 = total loss of tooth height.
Insert Bits - A measure of total cutting structure reduction due to lost, worn and broken inserts. 0 = As new, 8 = all inserts lost, worn and / or broken.

(A)

0	No Wear
8	No Cutting structure

(B)

BC *	Broken Cone
BF	Bond Failure
BT	Broken Teeth/Cutters
BU	Balled Up
CC *	Cracked Cone
CD *	Cone Dragged
CI	Cone Interference
CR	Cored
CT	Chipped Cutters
ER	Erosion
FC	Flat Crested Wear
HC	Heat Checking
JD	Junk Damage
LC *	Lost Cone
LN	Lost Nozzle
LT	Lost Teeth / Cutters
OC	Off-Center Wear
PB	Pinched Bit
PN	Plugged Nozzle / Flow Passage
RG	Rounded Gauge
RO	Ring Out
SD	Shirttail Damage
SS	Self-Sharpening Wear
TR	Tracking
WO	Washed Out Bit
WT	Worn Teeth / Cutters
NO	No Dull Characteristics

* Show cone number or numbers under location **(C)** .

(C)

N - Nose Row
M - Middle Row
G - Gauge Row
A - All Rows

CONE #
1
2
3

(D)

NON - SEALED BEARINGS
A linear scale estimating bearing life.
0 - No life used,
8 - No bearing life remaining.

SEALED BEARINGS
E - Effective bearings
F - Failed Bearings

(E) In - In gauge, 1 - 1/16", 2 - 2/16", 3 - 3/16" UG etc

(F)

BHA	Change BHA
CM	Condition mud
CP	Core Point
DMF	Downhole Motor Fail
DP	Drill Plug
DSF	Drill String Failure
DST	Drill Stem Test
DTF	Downhole Tool Fail
FM	Formation Change
HP	Hole Problems/ LIH
HR	Hours on Bit
LIH	Lost in Hole
LOG	Run Logs
PP	Pump Pressure
PR	Penetration Rate
PR	Penetration Rate
RIG	Rig Repair
TD	Total Depth
TQ	Torque
TW	Twist-Off
WC	Weather Conditions
WO	Washout/Drill String

Schlumberger

PDC GRADING CHART

BIT RUN DATA #3 BHA 3

Bit Size:	311mm (12 1/4")	
Manufacturer:	Reed	
Bit Model:	RSX616-A16	
Serial Number:	218662	
New Bit:	Yes	
IADC Code:	M422	
Number of Nozzles:	6	
Size of Nozzles:	3 x 15 3 x 16	
Number of Blades:	6	
Number of Cutters:	59	
Size of Cutters:	16,13	
T.F.A. (sq ins):	1.110	
W.O.B. :	5-25	Klfbs
Depth In:	1123.0	m
Depth Out:	1810.0	m
Meters Drilled:	687.0	m
Rotating Hours:	39.20	hrs
Metres Rotary:	687.00	m
On bottom hours	19.62	hrs
Average R.O.P:	35.00	m/hr
Circulation Rate:	1055	GPM
R.P.M. at Bit:	160	rpm
Motor Used:	No	
Motor Size:	N/a	
Bit Good for Rerun:	No	

WELL DATA

Date:	5-May-08
Drilling Supervisor:	Shaughan Corless
Rig:	West Triton
Well Number:	West Seahorse-3
Rig Contractor:	Seadrill
Hole Angle:	27.00°
Date in:	3-May-08
Date Out:	5-May-08
SLB BHA #	2

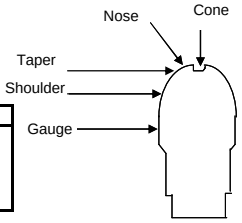
MUD AND LITHOLOGY DATA

Majority Formation:	Silt stone
Other Formation:	
% Formation:	
Mud Type:	KCL Polymer
Mud Weight:	9.7
PV:	10 cP
YP:	25 lbs/100ft^2
Corrected solid:	5.10
% Oil / Water:	n/a
Circulating Temperature:	58 deg C

COMMENTS:

PDC GRADING

(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
3	1	CT	A	X	I	WT	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

Attachment 8

Activity Summary Reports

DFE above MSL : 38.0m	Lat : 38 Deg 12 Min 25.077 Sec	Spud Date : 24 Apr 2008	Release Date : 09 May 2008
Water Depth : 39.5m	Long : 147 Deg 37 Min 9.810 Sec	Spud Time : 04.15	Release Time : 16.30

Well History

Well: West Seahorse-3

#	Date	Depth	24 Hour Summary
1	22 Apr 2008		Commence contract to 3D Oil at 10.30 hrs. Tow rig to new location at West Seahorse-3, jack rig up to 1.5m and commence preloading.
2	23 Apr 2008		Preload rig, jack rig up to 15m air gap, skid cantelever deckout and install Texas deck. Make up R/tool in W/head together with 13 3/8" cement plugs and lay out. Commence picking up 36" BHA.
3	24 Apr 2008	125.0m	Make up 36" BHA, tag seabed @ 77.5m and drill ahead from 77.5m to 125m. Make wiper trip and fill hole with inhibited mud from last well. Run 30" conductor pipe to 122m, suspend pipe at CTU and cut 30" above CTU. Lay out top 2 jnts pipe.
4	25 Apr 2008	125.0m	Cement 30" conductor and POOH stinger. RIH with 26" bit on DP and tag buttweld landing ring in 30" conductor. Install adjustment nut on 18 3/4" w/head assy. Cut and dress top of 30" conductor at CTU. Install diverter system onto 30" conductor. Commence pick up 17 1/2" BHA.
5	26 Apr 2008	768.0m	Pick up and RIH with 17 1/2" BHA. Tag top of 20" shoe at 121m. Take survey and drill cement, shoe and rathole to 125m. Drill ahead from 125m to 768m. KOP at 172m, EOB at 465m.
6	27 Apr 2008	1123.0m	Continue drilling 17 1/2" hole from 768m to 1123m, circulate to clean hole, POOH to 1070m
7	28 Apr 2008	1123.0m	POOH with 17 1/2" drilling assy, RIH with jetting string and jet landing collar. Rig up and run 13 3/8" casing to 854m.
8	29 Apr 2008	1123.0m	Run 13 3/8" CSG, pick up w/head and land CSG at MLS landing collar in 30" conductor. Circulate and cement CSG. Attempt to back out W/head R/tool - back out 13 3/8" casing jnt just below 20" to 13 3/8" swage. Recover w/head with R/tool. Commence to pull diverter and riser assy.
9	30 Apr 2008	1123.0m	Lay out diverter and riser assy. Pick up W/head and break out R/tool, inspect and make up R/tool to W/head. Lay out same. Break out 17 1/2" BHA and lay out. Pick up 13 3/8" waterbushing, Screw into casing, rotate to right to unscrew R/tool from MLS, POOH - recover 2 jnts casing. RIH with spear, engage fish, rotate to right and unscrew R/tool from MLS, POOH with fish - all recovered.
10	01 May 2008	1123.0m	Recover and lay out balance of 13 3/8" landing string fished from hole. Pick up spare 13 3/8" MLS hanger and R/tool, break out R/tool from hanger and RIH with new 13 3/8" CSG landing string. Pick up W/head and make up 13 3/8" MLS R/tool to hanger at mudline. Attempt to pressure test CSG - max 2000psi bleeding off to 1200psi. Set adjusting nut on W/head. Back out W/head R/tool. Rig up and run BOP.
11	02 May 2008	1123.0m	Continue to test BOP and valves. Repair connection to choke line. Service TDS and change out V-door tugger line. Pick up 12 1/4" rotary steerable BHA. RIH to 200m. Test lower pipe rams 250/750psi. Continue RIH to 285m - taking weight on cement in CSG. Wash and ream cement inside CSG from 285m to 468m.
12	03 May 2008	1392.0m	Wash and ream cement inside 13 3/8" csg from 468m to 1103m - tag plugs. Drill plugs, shoe track, rathole and 3m new formation. Perform FIT to 13.65ppg. Drill ahead 12 1/4" hole from 1126m to 1392mMD.
13	04 May 2008	1810.0m	Drill 12 1/4" hole from 1392m to 1559mMD. Shut well in after driller detected 6bbl gain - no pressures. Open well, flowcheck, circ bottoms up - max gas 0.13%. Drill ahead from 1559m to 1810mMD - final TD of well. Circulate to clean well. POOH to 1530m.
14	05 May 2008	1810.0m	POOH from 1530m to 30m. Lay out MWD/LWD BHA. Rig up and run Schlumberger logs: run No 1 PEX-HRLT-BHC, run No 2 MDT.
15	06 May 2008	1810.0m	Complete MDT logging run. RIH MSCT - tool misfunction - POOH and rectify same. RIH MSCT, cut 14 cores, recover 12. Rig down Schlumberger. Clear rig floor. Install Sampson post and automatic elevators. Service TDS and travelling block. RIH with mule shoe on DP for bottom abandonment plug.
16	07 May 2008	1810.0m	RIH with mule shoe on DP from 1565m to 1770m. Tag fill, wash down to 1771m. Spot balanced cement plug #1A from 1771m to 1633m, pull back to 1633m and circulate out excess cement. Spot balanced cement plug #1B from 1633m to 1500m. Pull back to 1416m and circulate 1.5 x bottoms up. Lay out 5 1/2" DP from 1417m to 1238m. RIH and tag plug #1B at 1490m. POOH from 1490m to 1238m. Spot 50bbl hi vis, POOH to 1149m and spot cement plug #2 from 1149m to 1030m. POOH to 942m, circulate 1.5 x bottoms up, pump slug and POOH to 325m laying out DP. Pressure test plug #2 to 1500psi, POOH to 307m, spot 50bbl hi vis, POOH to 207m. Rig up and spot cement plug #3 from 207m to 130m.
17	08 May 2008	1810.0m	POOH with 5 1/2" DP after cement plug #3 to 130m. Reverse out and displace hole to seawater. POOH and flush BOP area, displace riser to seawater. Pick up and lay out diverter and riser jnts. Nipple down and stand back BOP. Retrieve nominal bore protector. Engage w/head with r/tool and back out MLS r/tool. Lay out w/head and 13 3/8" CSG landing string. RIH with 13 3/8" temporary abandonment cap, modify centraliser size and install MLS 13 3/8" TA cap. Make up 30" spear and latch into conductor CSG.
18	09 May 2008	1810.0m	Un-jay Quick-Jay connection at seabed, recover and lay out 30" conductor jnts. Set aside work platform on Texas deck, nipple down CTU. RIH 30" trash abandonment cap - ROV not functional. POOH trash cap. Transfer work platform to main deck & store CTU. Prepare and skid rig out to make lift of Texas deck extension off boat. *** END OF WELL ***

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008
Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time : 04.15 | Release Time : 16.30

Activity Report For West Seahorse-3

Date : 22 Apr 2008 **Daily Cost : US$ 366000** **Report Number : 1**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P1	P	M2		7.5	**** ON CONTRACT TO 3D OIL AT 10.30 HRS 22 APRIL 2008 **** On tow to West Seahorse-3. Rig on location at 17.58 hrs. Rig heading 137.21 deg
0.0	P1	P	M3		1	Jack up to 1.5m airgap and connect deepwell pumps
0.0	P1	P	M3		5	Hold PJSM and commence preloading. Release MV's Sirius Cove & Cambell Cove @ 19.45 hrs.

Date : 23 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 2**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P1	P	M3		6	Continue preloading operation - full load at 04.00 hrs. Hold preload for 2 hours. Prepare rig for skid and spudding of well.
0.0	P1	P	M3		2	Dump preload water.
0.0	P1	P	M3		1	Jack rig to 15m air gap.
0.0	P1	P	M2		2	Hold JSA and skid cantelever deck out to position.
0.0	P1	P	M2		1.5	Install Texas deck, prepare stairs, install gumbo hose and skid rig to final position.
0.0	P1	P	G1		5	Install service lines, stairs to Texas deck, CTU and platform, install mousehole, rig down BOP slings. P/up stand drill pipe and check CTU alignment.
0.0	P1	P	G1		4	M/up wellhead R/tool with 13 3/8" cement plugs, M/up same to wellhead, install 20" x 13 3/8' X-over to 20" pup jnt below W/head. Lay out assy.
0.0	P2	P	G6		2.5	Pick up 36" BHA including 26" bit and 36" H/opener, Anderdrift tool, float sub and 36" stab to 10m.

Date : 24 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 3**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
0.0	P2	P	G6		3.5	Continue picking up 36" BHA. Break in new joints 9 1/2" & 8 1/4" DC's.
77.5	P2	P	G6		0.5	Jump ROV and observe tagging of seabed at 77.5m.
105.0	P2	P	D8		3	Take deviation survey at seabed with Anderdrift tool (0deg) and spud well at 04.15hrs drilling from 77.5m to 125m. Survey at 125m 0deg.
125.0	P2	P	F3		0.5	Pump 200bbl Hi Vis sweep, displace hole with inhibited mud from last hole.
125.0	P2	P	G8		0.5	POOH from 125m to 83m, RIH to 125m for wiper trip. No fill. Displace 200bbl inhibited mud.
125.0	P2	P	G8		1.5	POOH from 125m to surface.
125.0	P3	P	G1		2.5	Rig up to run 30" conductor. Change out bails and elevators.
125.0	P3	P	G9		9	Hold PJSM and run 30" conductor to 122m. Install Quick Jay joints at 46m complete with release cable. Install 30" guide plates in CTU and fit ICON support clamp for CTU. Land conductor with 90 000 lbs.
125.0	P3	P	G9		0.5	Make rough cut of 30" conductor 2m above ICON clamp.
125.0	P3	P	G9		1	Lay out 2 jnts 30" conductor including cut-off.
125.0	P3	P	G1		1.5	Rig down 30" handling equipment, clear rig floor, change out bails and install automatic elevators.

Date : 25 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 4**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
125.0	P3	P	G1		1	RIH with cement stinger and sting into 20" Shoe.
125.0	P3	P	F3		2	Rig up cement lines and cement 30" conductor with 1660sx (70.5 MT) and 204bbl Cacl mix water making 343bbl 15.9ppg slurry - over 200% excess. Observe returns on seabed with ROV - indications of cement returns to surface.
125.0	P3	P	F3		0.5	Check for backflow, unsting stinger and circulate into conductor.
125.0	P3	P	G1		1	POOH with stinger.

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time : 04.15 | Release Time : 16.30

Date : 25 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 4**

125.0	P3	P	G8	1.5	RIH with 26" bit on DP to tag butt weld landing collar inside 30" conductor below Quick Jay connector. Tag landing collar at 86.87m as expected. POOH with string.
125.0	P3	P	G10	3	Pick up 18 3/4" w/head assy. Break out at crossover joint. Install adjuster nut, re-assemble and lay w/head out.
125.0	P3	P	G1	5.5	Confirm space-out of low pressure riser / diverter system. Welder cut and dress 30" conductor at 19.2mRT (3.18m above CTU deck). Lay out cut conductor. Install BOP slings. Prepare to install diverter assy.
125.0	P6	P	G2	6.5	Pick up and make up diverter, intermediate jnt and overshot and land out same. Pressure up system. Note : Slower than expected rigging up LP riser due to rig having only one riser handling clamp.
125.0	P6	P	P2	1	Pick up stand DP, fill riser, function diverter, flush lines and test diverter to 200 psi.
125.0	P3	P	G6	2	Hold pjsm. P/up 17 1/2" BHA including motor, 2 NMDC's, float sub, X/O, 17" Stab.

Date : 26 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 5**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
125.0	P3	P	G6		4.5	Continue pick up 17 1/2" BHA and RIH. Tag top of 20" shoe at 121m.Take checkshot survey 0.26°.
125.0	P3	P	D1		0.5	Drill out 20" shoe and rathole to 125m. Displace hole to flocculated gel mud.
768.0	P4	P	D8		19	Continue drilling 17 1/2" hole from 125m to 768m. KOP#1 at 172m, EOB#1 at 465m. Status at 768m: - Incl 27.5°, Az 61°, hole 6m from design line.

Date : 27 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 6**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P4	P	D8		22	Drill ahead 17 1/2" hole from 768m to 1123m as per DD requirements. Final TD of 17 1/2" hole. Hole at 2.5m to right and 4.5m below design line - 5.25m centre to centre.
1123.0	P4	P	F4		1	Circulate until shakers clean - 1200gpm, 100rpm and reciprocate pipe. Spot 430bbl inhibited mud from previous well.
1123.0	P4	P	G8		1	Flow check, POOH wet from 1123m to 1070m. Back-ream and work tight spots from 1082m to 1076m - 35 klbs O/pull

Date : 28 Apr 2008 **Daily Cost : US$ 650000** **Report Number : 7**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P4	P	G8		2.5	Continue POOH from 1070m to 739m. Work tight spots at 1082m, 1076m, 994m & 759m to 739m. 35k lbs O/pull.
1123.0	P4	P	G8		3.5	Pump 20bbl slug and continue POOH from 739m to 125m (top of DC's). Work tight spots from 739m to 543m. Up to 35k lbs O/pull.
1123.0	P4	P	G10		0.5	Perform flowcheck, remove 10" diverter insert.
1123.0	P4	P	G6		2.5	Continue POOH from 125m to surface. Lay out 8 1/4" DC, bit and stab.
1123.0	P4	P	G16		1.5	Make up jet sub, RIH to 87m and jet landing collar. POOH jetting string and clear rig floor.
1123.0	P5	P	G1		3.5	Hold PJSM, rig up to run 13 3/8" casing : R/U casing circulating tool, change bails, install 500T elevators and flush mounted slips. Remove diverter elemement.
1123.0	P5	P	G9		10	Hold PJSM. Pick up shoe and float jnts and check floats. Bakerlock float to shoe joint. Run 13 3/8" casing as per tally to 854m. Install centralisers as per programme.

Date : 29 Apr 2008 **Daily Cost : US$ 920000** **Report Number : 8**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P5	P	G9		2	Continue running 13 3/8" Csg from 854m to 1029m. Total of 90 joints run including shoe jt and float collar jt.
1123.0	P5	P	G9		0.5	Pick up MLS jnt, back out and make up to 2000ft-lb. Change out flush mounted slips and master bushings.

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time : 04.15 | Release Time : 16.30

Date : 29 Apr 2008 **Daily Cost : US$ 920000** **Report Number : 8**

1123.0	P5	P	G9		1	Continue running 13 3/8" Csg landing string from 1029m to 1091m (5 joints).
1123.0	P5	P	G1		2	Rig down Csg circulating tool and change over to DP elevators/bails. Rig down Csg spider.
1123.0	P5	P	G9		1	Pick up and make up wellhead assembly. Break out wellhead landing ring and set aside. Pull master bushings.
1123.0	P5	P	G9		0.5	Commence lowering wellhead. Hole becoming sticky with 150klb down weight and 330klb up weight (before making up wellhead, had 180klb down weight and 280klb up weight).
1123.0	P5	P	F4		1	Make up TDS. Circulate casing at 440gpm / 300psi. Conditions improved to 200klb down weight, 270klb up weight.
1123.0	P5	P	G9		0.5	Make up DP single and wash down to 1115mMD.
1123.0	P5	P	G9		1	Make up x/o, cement head, x/o and DP pup joint.
1123.0	P5	P	G9		0.5	Circulate down and land MLS hanger on mudline landing ring with 13-3/8" casing shoe set at 1117mMD.
1123.0	P5	P	F4		1	Circulate casing with 700bbls mud at 525gpm. Concurrently hold PJSM for cement job.
1123.0	P5	P	F4		0.5	Pressure test lines to 4000psi. Pump 60bbls seawater spacer.
1123.0	P5	P	F4		1	Drop ball for bottom wiper plug release. Pump 13bbls seawater. No pressure increase observed to indicate release of bottom plug. Open ball launcher to check - ball not held up in launcher. Pump 7bbls further at increased rate with no indication of bottom plug release.
1123.0	P5	P	F4		1	Cement 13-3/8" casing as follows - Lead : 460sx class G with 140bbls mix fluid to give 180bbls of 12.5ppg slurry. Tail : 290sx class G with 35bbls mix fluid to give 60bbls of 15.9ppg slurry.
1123.0	P5	P	F4		1.5	Release dart. Observe top wiper plug release with 2400psi after displacing dart with 2bbls seawater. Pump a further 10bbls seawater with cement unit. Switch to rig pumps and continue displacement with 525bbls mud (calculated displacement plus half shoe track). Plug not bumped. Bled back 3bbls. Floats held.
1123.0	P5	P	G9		2	R/D cement lines. Rotate running string with 12 LH turns using rig tongs to release wellhead running tool. Unable to pull running tool free with up to 10klb overpull.
1123.0	P5	P	G9		1.5	Break out cement head and make up x/o previously above cement head into x/o at RT. Make up TDS and re-attempt to break out wellhead running tool - unsuccessful. Pick up with 15klb over string weight. String came free and commenced moving with 10klb more than previous string weight. POOH and found wellhead still made up to running tool and backed out at the 13-3/8" BTC connection at the bottom of the wellhead crossover.
1123.0	P5	TP	G1	TP	1.5	Laid out crossovers and DP above wellhead assembly and laid out wellhead assembly.
1123.0	P5	P	G12	RE	1	Install diverter bag, displace riser to to S/water and flush overboard lines.
1123.0	P5	P	G12	RE	3	Rig up and pull diverter - O/shot. Rack back diverter - intermediate jnt & lay out overshot.

Date : 30 Apr 2008 **Daily Cost : US$ 580000** **Report Number : 9**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P5	P	G12	RE	2	Continue laying out diverter and riser assy.
1123.0	P5	TP	G12	TP	2.5	Pick up W/head, break out R/tool, inspect threads - OK, make up R/tool to W/head with chain tongs - R/tool function OK, inspect threads on pin of 13 3/8" casing - OK, lay down W/head.
1123.0	P5	P	G6		4	Lay out motor and excess 17 1/2" BHA.
1123.0	P5	TP	G18	DH	3.5	Make up 13-3/8" water bushing (13-3/8"BTC x 4-1/2"IF crossover) on stand of DP and RIH to top of 13-3/8" casing at 24.9mRT (5.7m below top of 30" conductor). Pushed water bushing in line with casing and stabbed into connector. Made several attempts to make up into casing using chain tongs, rig tongs, iron roughneck and TDS without success. Water bushing either rolling around on threads or torquing up and stalling out.
1123.0	P5	TP	G18	DH	0.5	POOH with water bushing and inspected BTC threads - ok.
1123.0	P5	TP	G18	DH	1	RIH again with water bushing on DP made up to TDS. Stabbed down into casing connector rotating slowly. Made up slowly into connector with 2-4kft-lbs torque whilst maintaining neutral string weight (1.5klb). String went down 10cm whilst making up and torqued up to 10kft-lbs over 12 turns.
1123.0	P5	TP	G18	DH	1.5	Continued turning drillstring to the right. Holding 5klb string weight, string continued to turn at 1 - 5kft-lbs torque and dropped another 2cm over 4 turns. String then rose 9cm over approx 10 turns, indicating possible backing out at the MLS running tool. String then started to whip and turn freely.
1123.0	P5	TP	G18	DH	0.5	Commenced POOH with 5klb over original string weight.

DFE above MSL : 38.0m	Lat : 38 Deg 12 Min 25.077 Sec	Spud Date : 24 Apr 2008	Release Date : 09 May 2008
Water Depth : 39.5m	Long : 147 Deg 37 Min 9.810 Sec	Spud Time : 04.15	Release Time : 16.30

Date : 30 Apr 2008 **Daily Cost : US$ 580000** **Report Number : 9**

1123.0	P5	TP	G11	RE	1	Unable to break out TDS. Breakout jaws only developing 25kft-lbs. ET work on and rectify problem.
1123.0	P5	TP	G18	DH	2.5	Continue POOH with two 13-3/8" casing joints to surface. Connection at bottom of first joint partially backed out. Pin connection at bottom of second joint gouged from being rotated off-centre on the box below it. Break out water bushing. Lay out casing joints.
1123.0	P5	TP	G18	DH	1.5	Pick up and make up 13 3/8" spear & bumper sub and RIH same.
1123.0	P5	TP	G18	DH	3.5	Engage fish on 7th attempt, Casing still attached to mudline hanger. Rotate to right and screw casing jnts together, continue turning to right and unscrew MLS running tool from hanger. POOH with fish - all 3 remaining jnts recovered including pup jnt attached to MLS R/tool. Rack back HWDP, attempt unlatch spear - unsuccessful due to ovality of casing. Lay out bumper sub and x/o.

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

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Activity Report For West Seahorse-3

Date : 01 May 2008 **Daily Cost : US$ 563370** **Report Number : 10**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P5	TP	G18	DH	2.5	Continue retrieving and laying down recovered 13 3/8" CSG and MLS R/tool.
1123.0	P5	TP	G9	DH	1	Original MLS R/tool threads observed damaged. Pick up back-up 13-3/8" MLS assembly, break out R/tool from hanger and lay out hanger section.
1123.0	P5	TP	G9	DH	4	RIH with MLS R/tool and 13 3/8" CSG landing string. Place 28" centraliser on bottom of jnt above R/tool jnt. Tack weld top and bottom of all csg connecters.
1123.0	P5	TP	G9	DH	1	Pick up W/head assy, make up to 13 3/8" CSG, check R/tool and install adjuster nut on W/head.
1123.0	P5	TP	G9	DH	1	Pick up stand DP, make up top drive & RIH with W/head assy. Wash down to MLS hanger.
1123.0	P5	TP	G9	DH	1	Make up landing string to MLS hanger. Several attempts required landing R/tool onto hanger assembly before successfully engaging threads and making up. Observed 3" drop in running string over 9 LH turns with 4kft-lbs final makeup torque.
1123.0	P5	TP	F3	DH	0.5	Attempted to pressure test 13 3/8" CSG / MLS hanger to 2500psi. Casing pressured up uniformly to 2000psi then bled back rapidly to 1200psi, losing approx 1bbl/minute.
1123.0	P5	TP	F3	RE	1.5	Attempt to pressure test surface lines against IBOP - leaking at 60psi/min. Fault find and trace minor leaks to several leaking manifold valves.
1123.0	P5	TP	F3	DH	0.5	Re-attempted original casing pressure test. Pressure broke over at 1550psi and levelled out at 1200psi.
1123.0	P5	TP	G9	DH	0.5	Pick up 15klb over running tool string weight. Make up adjustable landing ring on wellhead down onto 30" conductor stub.
1123.0	P5	TP	G9	DH	2	Attempt to scope down W/head R/tool in order to back out. Unable to scope down running tool. Rotate string to several positions and attempt to collapse tool with up to 20klb weight down. Back out wellhead side outlet plug and release trapped pressure. Scope down R/tool and back out R/tool from W/head. Lay out same. Upper fin of wiper plug release dart found lodged in crossover above W/head running tool.
1123.0	P6	P	G1		4	Raise platform on Texas deck. Install wellhead valves and blanking flanges. Prepare top of wellhead. Rig up BOP slings. Offline - Test shear rams to 250/5000psi 5mins.
1123.0	P6	P	G13		4.5	Nipple up BOP. Pick up O/shot & diverter. Rig up to install choke line.

Date : 02 May 2008 **Daily Cost : US$ 750000** **Report Number : 11**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P6	P	G13		2.5	Continue nipple up diverter, O/shot and choke line.
1123.0	P6	P	G13		2	M/up Dril-Quip BOP test tool and 2 stands HWDP below tool. RIH and land off in W/head. Troubleshoot choke hose connection.
1123.0	P6	P	G13		2	Pressure test BOP UPR- W/head connector - HCR - manual choke & kill valves. Troubleshoot leaks and test to 250/5000psi, 5/5mins. Continue troubleshoot choke hose connection.
1123.0	P6	P	G13		1	Break out and lay out test plug. Rack 5 1/2 stands back in derrick.
1123.0	P6	P	G13		1	Re-connect choke hose, pressure test connection to 250/5000psi, 5mins.
1123.0	P6	P	G13		5	Rig up and pressure test kelly hose, gray valve, TIW, upper and lower IBOP's. Rectify leaks. Obtain test 250/5000psi 5mins.
1123.0	P6	P	G11		0.5	Service TDS.
1123.0	P6	P	G11		1	Hold PJSM and change out cable on V-door tugger.
1123.0	P6	P	G12		1	Install nominal bore protector in W/head.
1123.0	P5	P	G6		3	Pick up 12 1/4" Powerdrive rotary steerable BHA. Lay out one 8" DC and one NMDC.
1123.0	P5	P	G6		0.5	Shallow test Powerdrive/MWD to 500psi @ 700gpm, 700psi @ 800gpm - OK.
1123.0	P5	P	G8		1.5	Install automatic elevators. RIH DC's & HWDP to 200m.
1123.0	P6	P	G13		0.5	Line up Halliburton and test lower pipe rams to 250/750psi 5mins.
1123.0	P5	P	G8		0.5	Continue RIH from 200m to 285m - taking weight at 285m (25k lbs).
1123.0	P5	P	D1		2	Wash and ream from 285m to 468m. Confirm cement in returns.

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008
Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time : 04.15 | Release Time : 16.30

Date : 03 May 2008 **Daily Cost : US$ 750000** **Report Number : 12**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1123.0	P5	P	D1		5.5	Wash and ream cement inside 13 3/8" CSG from 468m to 1103m. Tag top of plugs above float collar at 1103m
1123.0	P5	P	D1		7.5	Drill plugs and float collar from 1103m to 1104m. Very slow progress drilling through plugs - suspect plugs spinning on float collar. Vary parameters attempting to drill through plugs - WOB 10-30klb, 30-80rpm, 200-1000gpm, torque 200-6000ft-lbs. Displaced hole to new mud whilst drilling plugs.
1123.0	P5	P	D1		1	Drill out shoe track (2-3klb WOB, 50rpm) and float shoe to 1117m. Clean out rathole to 1123m. Drill 3m new hole to 1126m. Pulled back inside 13-3/8" shoe.
1123.0	P5	P	E1		1.5	Rig up side entry sub, TIW valve and cement line. Test lines to 2000psi. Close upper pipe rams and conduct FIT : 750psi surface pressure with 9.4ppg mud and shoe at 1034mTVD => 13.65ppg EMW without leak-off. R/D side entry sub. Run back to bottom.
1392.0	P11	P	D4		8.5	Drill 12 1/4" hole from 1126m to 1392mMD as per DD requirements. Survey every stand.

Date : 04 May 2008 **Daily Cost : US$ 750000** **Report Number : 13**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1559.0	P11	P	D4		3	Directionally drill 12-1/4" hole from 1392m to 1507mMD.
1559.0	P11	P	D4		2.5	Control drill from 1507m - 1559mMD at 30m/hr for LWD logs.
1559.0	P11	TP	P3	WB	0.5	Investigate 6bbl gain observed by driller at same time as 0.27% gas peak (0.005% BGG) : Shut well in - no pressure on DP or casing side. Open well and flow check - no flow.
1559.0	P11	TP	F4	WB	0.5	Circulate bottoms up. Max gas 0.13%.
1810.0	P11	P	D4		12.5	Drill ahead from 1559m - 1810mMD (TD), control drilling at 30m/hr.
1810.0	P11	P	F4		3	Circulate hole clean at 1050gpm, 2000psi, 150rpm whilst reciprocating string.
1810.0	P11	P	G8		2	Flowcheck (static). POOH 10 stnds wet from 1810m to 1530m wiping tight spots at 1610m, 1582m,1572m, 1533m. Pump slug.

Date : 05 May 2008 **Daily Cost : US$ 1350000** **Report Number : 14**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1810.0	P11	P	G8		3.5	Continue POOH from 1530m to 30m. Rack back BHA to DC below jars. Flowcheck at shoe and top of BHA.
1810.0	P11	P	G6		2.5	Lay out Schlumberger LWD and rotary steerable tools.
1810.0	P11	P	E3		1	Rig up Schlumberger.
1810.0	P11	P	E3		1.5	Pick up tools for log #1. Hold toolbox talk. Load RA sources.
1810.0	P11	P	E3		1.5	RIH with log #1 : PEX-HRLT-BHC. Unable to pass 1775m. Hanging up with full toolstring weight.
1810.0	P11	P	E3		0.5	Pull back and log repeat section from 1690m - 1540m.
1810.0	P11	P	E3		0.5	RIH. Held up again at 1775m with full toolstring weight. Made four attempts to pass 1775m without success.
1810.0	P11	P	E3		2	Log up from 1775m to casing shoe. Continue logging GR to seabed.
1810.0	P11	P	E3		1	POOH. Remove RA sources. Rig down log #1 tools.
1810.0	P11	P	E3		1	Rig up for log #2 : MDT.
1810.0	P11	P	E3		9	RIH to 1585m. Correlated depth. Conduct 27 pre-tests. Obtain 3 pump out stations from which 4 samples were taken at 1567m MD. Note : Approx 2/3bbl/hr static losses whilst wireline logging.

Date : 06 May 2008 **Daily Cost : US$ 740000** **Report Number : 15**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1810.0	P11	P	E3		6	Continue with log No 2 - MDT. Attempt further 5 pre-test positions. POOH logging tool - took 800 lb

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Date : 06 May 2008 **Daily Cost : US$ 740000** **Report Number : 15**

						O/pull at three places inside casing between shoe and 980m.
1810.0	P11	P	E3		2	Pick up and make up tools for log #2 : MSCT-GR.
1810.0	P11	P	E3		1.5	RIH MSCT. Correlated depth from 1720m - 1640m. RIH to 1694m.
1810.0	P11	TP	E3	TP	0.5	Attempt to take cores at 1694m and 1686m. Tool failure at both depths due to mechanical failure.
1810.0	P11	TP	E3	TP	1.5	POOH with MSCT and check tool. Coring extend mechanism blocked with sticky cuttings.
1810.0	P11	P	E3		5	RIH with MSCT, cut 14 cores.
1810.0	P11	P	E3		2.5	MSCT at surface, recover 12 cores. Lay out logging tools and rig down Schlumberger.
1810.0	P11	P	G1		0.5	Clear rig floor, install Sampson posts, install automatic elevators.
1810.0	P11	P	G11		1	Service and grease TDS, travelling block.
1810.0	P21	P	G8		3.5	Make up mule shoe & RIH same on DP to 1565m

Date : 07 May 2008 **Daily Cost : US$ 650000** **Report Number : 16**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1810.0	P21	P	G8		0.5	Continue RIH with mule shoe on DP from 1565m to 1770m - tag fill.
1810.0	P21	P	F1		2	Make up TDS & wash down from 1770m to 1771m. Unable to work past 1771m.
1810.0	P21	P	F3		2	Hold PJSM. Rig up side entry sub and TIW valve on DP with mule shoe at 1770m. Pump 5bbl drill water & pressure test lines to 1000psi OK. Pump 6bbl drill water. Mix and pump 74bbl cement slurry at 15.8ppg and follow with 2bbl drill water. Displace plug with 102bbl mud for balanced plug #1A from 1770m to 1630m. Rig down side entry sub.
1810.0	P21	P	G8		0.5	POOH from 1770m to 1633m.
1810.0	P21	P	F4		0.5	Make up TDS and circulate bottoms up. Dump cement contaminated returns at surface.
1810.0	P21	P	F3		1.5	Rig up side entry sub and TIW valve for second stage of bottom cement plug. Pump 5bbl drill water & pressure test lines to 1000psi OK. Pump 6bbl drill water. Mix and pump 78bbl cement slurry at 15.8ppg and follow with 2bbl drill water. Displace plug with 92bbl mud for balanced plug #1B from 1633m to 1500m. Rig down side entry sub.
1810.0	P21	P	G8		0.5	POOH to 1416m.
1810.0	P21	P	F4		1.5	Circulate 1.5 x bottoms up. No cement in returns.
1810.0	P21	P	G2		2	POOH laying out drillpipe to 1237m (18 joints laid out). Concurrently pulled Quik-Jay anti-rotation pin from 30" Quik-Jay connector 2m above mudline.
1810.0	P21	P	F1		1.5	RIH from 1237m - 1416m. Make up TDS. Wash down and tag top of plug #1B at 1490m with 8klb.
1810.0	P21	P	F3		1	POOH to 1249m. Spot 50bbls high vis from 1249m - 1149m.
1810.0	P21	P	G8		0.5	POOH to 1149m.
1810.0	P21	P	F3		1	Rig up side entry sub and TIW valve for plug #2. Pump 5bbl drill water & pressure test lines to 1000psi OK. Pump 6bbl drill water. Mix and pump 65bbl cement slurry at 15.8ppg and follow with 2bbl drill water. Displace plug with 60bbl mud for balanced plug #2 from 1149m to 1030m. Rig down side entry sub.
1810.0	P21	P	G8		0.5	POOH seven stands to 942m.
1810.0	P21	P	F4		1	Circulate bottoms up. No cement in returns.
1810.0	P21	P	G2		3.5	POOH laying out drillpipe to 325m. 63 joints DP laid out. 78 stands remaining in derrick.
1810.0	P21	P	P1		2.5	Rig up circulating head, flush lines and pressure test plug #2 to 1500psi. Troubleshoot surface leaks, flush air out of DP.
1810.0	P21	P	G8		0.5	POOH from 325m to 307m. Spot 50bbl high vis from 307m to 207m. POOH from 307m to 207m.
1810.0	P21	P	F3		1	Rig up side entry sub and TIW valve for plug #3. Pump 5bbl drill water & pressure test lines to 1000psi OK. Pump 6bbl drill water. Mix and pump 38bbl cement slurry at 15.8ppg and follow with 5bbl drill water for balanced plug #3 from 207m to 130m. Rig down side entry sub.

Date : 08 May 2008 **Daily Cost : US$ 700000** **Report Number : 17**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1810.0	P21	P	G8		0.5	POOH from 207m to 130m. Rig up to reverse circulate.

DFE above MSL : 38.0m | Lat : 38 Deg 12 Min 25.077 Sec | Spud Date : 24 Apr 2008 | Release Date : 09 May 2008

Water Depth : 39.5m | Long : 147 Deg 37 Min 9.810 Sec | Spud Time : 04.15 | Release Time : 16.30

Date : 08 May 2008 | **Daily Cost : US$ 700000** | **Report Number : 17**

1810.0	P21	P	F3	0.5	Reverse circulate excess cement and displace hole to seawater.
1810.0	P21	P	G8	1	POOH from 130m to 30m. Make up TDS and jet BOP area and w/head with seawater. Stand back stnd of DP.
1810.0	P21	P	G13	2.5	Hold PJSM. Pick up diverter and overshot. Break out diverter and lay out same. Lay out overshot riser.
1810.0	P21	P	G13	1.5	Nipple down bell nipple/lower riser joint and lay out same.
1810.0	P21	P	G13	3	Nipple down and skid back BOP's.
1810.0	P21	P	G12	0.5	Retrieve nominal bore protector. Remove valves on w/head.
1810.0	P21	P	G12	1	Pick up w/head r/tool. M/U into w/head and back out 13 3/8" MLS r/tool.
1810.0	P21	P	G12	5	Pull wellhead to surface & break off wellhead at 20" crossover. Lay out wellhead. Cut and lay out 20" x 13 3/8" wellhead crossover. Continue to cut and lay out 13 3/8" CSG landing string and MLS r/tool.
1810.0	P21	P	G1	0.5	Rig down Weatherford and clear rig floor.
1810.0	P21	P	G10	5	Pick up 13 3/8" temporary abandonment cap and RIH. Unable to pass 28.8m. POOH. Grind 2.25cm off each centraliser blade. RIH to 28.8m - unable to pass. POOH. Grind 3mm off each centralser blade & RIH. Engage 13 3/8" MLS CSG hanger and set cap. POOH and lay out abandonment cap r/tool.
1810.0	P21	P	G9	1	Pick up and make up 30" CSG spear.
1810.0	P21	P	G12	2	RIH 30" spear, latch onto conductor, take weight of 30" conductor CSG and release tension on CTU. Remove Icon clamp on 30" conductor CSG.

Date : 09 May 2008 | **Daily Cost : US$ 1923130** | **Report Number : 18**

Depth (m)	Phase	Cls	Op	R.C.	Hrs	Activity
1810.0	P21	P	G12		0.5	Continue removing Icon clamp and CTU insert.
1810.0	P21	P	G9		0.5	Back out Quick-Jay connection at seabed with 6k ft-lb. Pull 30" conductor to surface.
1810.0	P21	P	G9		2	Install 30" bushing. Attempt to remove 30" spear - unsuccessful. Lay out first 30" jnt with spear in place.
1810.0	P21	P	G1		1	Change out bails and 5 1/2" elevators for 30" elevators.
1810.0	P21	P	G9		2.5	Lay out 4 jnts 30" conductor including jnt with Quick-Jay pin connection.
1810.0	P21	P	G1		1	Rig down 30" handling equipment, change out bails & install BOP slings.
1810.0	P21	P	G1		2	Hold PJSM. Set aside work platform on Texas deck. Nipple down CTU & secure.
1810.0	P21	P	G8		0.5	M/up 30" trash cap on r/tool & RIH to 71m.
1810.0	P21	TP	G8	TP	1	ROV failure. POOH trash cap & rack back r/tool. Troubleshoot ROV problem
1810.0	P21	P	G9		2.5	Rig up BOP slings, clear equipment from CTU work platform & remove mousehole. Transfer work platform to main deck. Remove CTU to storage position. Remove choke line from CTU deck. Offline: Troubleshoot ROV
1810.0	P21	P	G1		3	Prepare rig for skidding. Hold PJSM. Pick up slings for making lift of CTU deck extension from boat. Rig down service lines. Skid rig out to position for lift off boat. Offline: Troubleshoot ROV

***** END OF WELL: WEST SEAHORSE - 3 *****

Attachment 9

Well Cost Summary

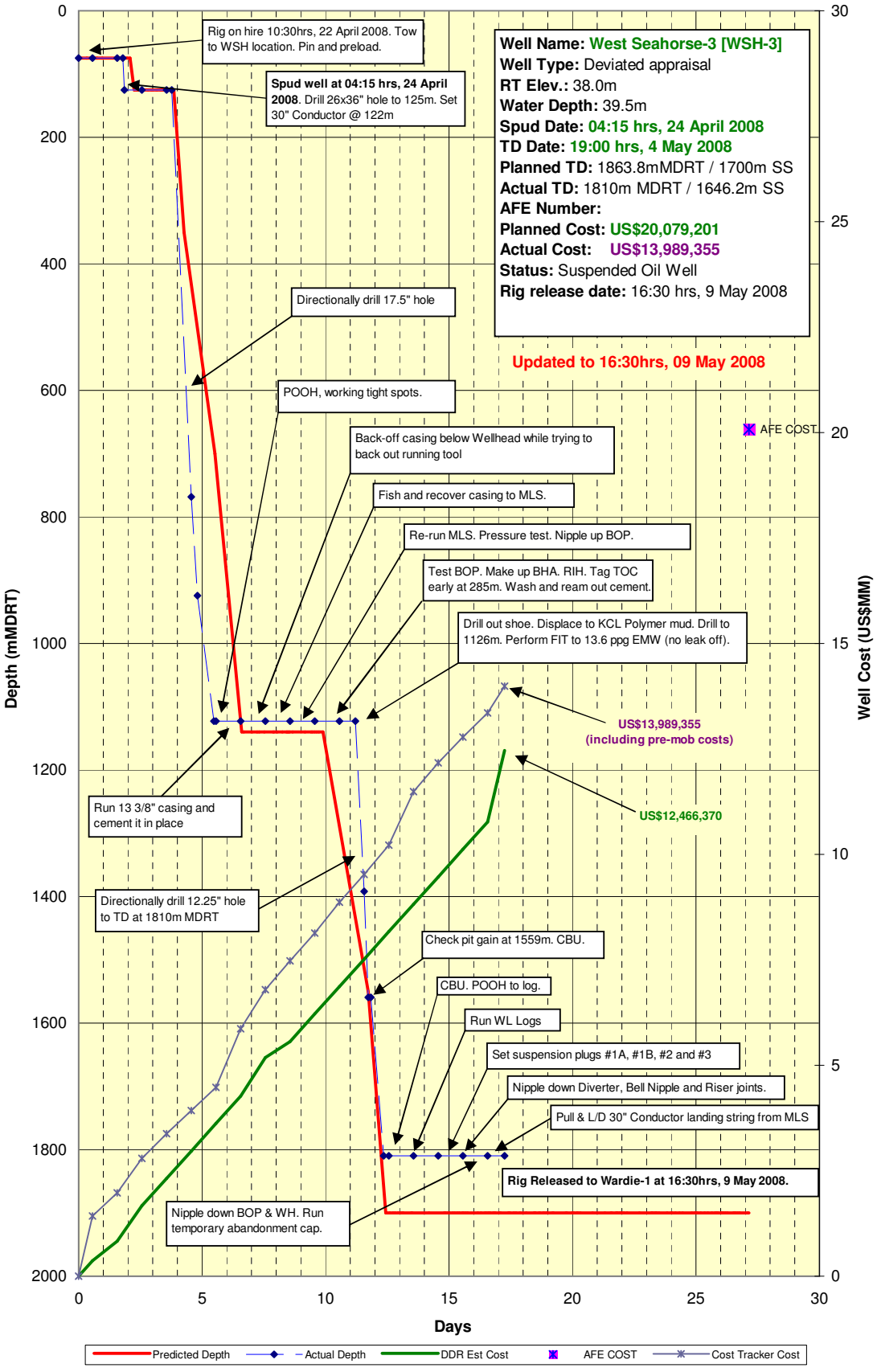
WEST SEAHORSE-3

DRILLING COSTS		Plan (US$)		Actual (US$)	
RIG OPERATIONS					
131111	Rig rate	$4,950,000		$4,736,016	
131113	Consumables	$33,000		$8,625	
131114	Rig catering	$32,400		$31,050	
131117	Additional crew at 50%	$35,462		$33,984	
	Sub Total		$5,050,862		$4,809,675
DRILLING & COMPLETION MATERIALS & SUPPLIES					
131121	Rig fuel lubes & water	$318,240		$304,980	
131122	Supply boat fuel, lubes & water	$650,970		$623,846	
131123	Consumables & software	$3,600		$3,313	
131124	Drilling fluids	$182,160		$113,701	
131125	Wellheads & MLS	$328,970		$340,720	
131126	Bits/hole openers	$111,647		$111,669	
131127	Casing and liner	$243,705		$179,364	
131128	Casing accessories	$29,706		$24,092	
131132	Conductor & surface casing	$249,387		$233,523	
131133	Brines and completion/testing fluids	$60,000		$0	
131137	Cement, additives, spacers & ads	$64,700		$50,388	
	Sub Total		$2,243,084		$1,985,597
DRILLING & COMPLETION SERVICES					
131144	Downhole Drilling Tools	$61,908		$50,949	
131146	Wellhead Services - Rentals & Engineers	$57,600		$52,109	
131147	Drilling /Completion Supervision	$502,000		$465,750	
131148	Shallow Gas Survey	$0		$0	
131149	Abandonment Equipment and Services	$8,050		$7,788	
131150	Real Time Data Transfer	$9,900		$6,120	
131151	Rig inspection, SMS audits etc	$2,722		$2,722	
131153	Rig positioning	$49,400		$21,750	
131154	Solid control, filtration equipment	$15,000		$0	
131155	Solids control/filtration/environmental engineers	$0		$0	
131156	Weather forecasting, medical support	$4,001		$5,135	
131157	Communications	$17,507		$18,438	
131158	ROV/diving	$71,545		$64,863	
131160	Mud engineering & Centrifuge services	$72,572		$71,517	
131161	Cement services, rental tools & equipment	$59,153		$48,103	
131162	Casing/tubing running - crew and equipment	$137,643		$108,642	
131163	Cement engineer	$41,781		$34,800	
131164	Well Surveying - crew, equipment and support	$31,320		$24,618	
131165	H2S services	$20,000		$0	
131166	Fishing services	$90,361		$96,321	
131167	Directional services - d.driller & support	$74,750		$58,050	
131169	Directional drilling equipment - excl MWD/LWD - eval	$441,672		$292,817	
	Sub Total		$1,768,884		$1,430,491
EVALUATION & TESTING					
131170	MWD/LWD personnel	$69,560		$42,120	
131171	Mud logging services (contract in A$)	$73,571		$58,074	
131172	MWD/LWD logging	$49,535		$35,023	
131173	Electric logging, equipment and services	$1,107,526		$656,000	
131178	Performance management	$16,200		$0	
131180	Daily reporting system	$4,680		$4,485	
131183	Wellsite geology	$51,800		$16,400	
131194	Operator sundries	$8,000		$0	
	Sub Total		$1,380,871		$812,101
LOGISTICS					
131201	Marine Transport	$1,549,269		$1,463,154	
131204	Helicopters	$492,448		$471,929	
131212	Shore Base Services	$297,072		$276,000	
131213	Mob/demob	$12,960		$0	
	Sub Total		$2,351,749		$2,211,083
OTHER					
131220	Miscellaneous	$0		$0	
	Sub Total		$0		$0
WELL DESIGN & MANAGEMENT					
131253	Engineering planning & operations support	$990,000		$990,000	
	Sub Total		$990,000		$990,000
OPERATOR					
131261	Operator own costs (Insurance)	$133,000		$133,000	
	Sub Total		$133,000		$133,000
	TOTAL DRILLING		$13,918,450		$12,371,947

TESTING COSTS		Plan (US$)	Actual (US$)
131174	E-log processing	$244,030	$19,990
131175	Downhole testing tools	$228,762	$96,400
131176	Perforating	$75,454	$18,750
131177	Nitrogen services	$0	$0
131179	Acidising equipment,consumables & services	$0	$0
131181	Downhole monitoring - Gauges & PVT	$96,788	$114,540
131182	Drillstem Testing	$203,226	$107,380
131184	Fluid analysis	$0	$0
131185	Slickline services, plugs, tools & personnel	$115,965	$27,000
131187	Completion Assembly make up	$0	$0
131188	Rig Modifications (Testing)	$30,000	$30,000
131189	Completion/Testing Supervision	$372,000	$205,500
131190	Sedimentology	$0	$0
131191	Surface testing equipment	$1,078,572	$411,861
131192	Surface Sampling & Bottles	$208,116	$85,084
131193	Deluge System	$90,960	$61,350
	TOTAL TESTING	$2,743,872	$1,177,855

	Plan (US$)	Actual (US$)
TOTAL WELL COST	$16,662,322	$13,549,802

Time vs Depth Curve



Attachment 10

Description of Cuttings

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		914mm / 36" hole section drilled riserless to 125.0m MDRT. 762mm / 30" Conductor set at 122.0m MDRT.							
		444mm / 17½" hole section drilled from 125.0m MDRT commencing 05:04hrs, 26 April 2008.							
		20m sample interval.							
125-140	70	**SHELL FRAGMENTS:** Very coarse to granular < 5mm to common fine, abundant bivalves, bryozoans, gastropods, minor echinoderms, occasional microforaminifera.	FIP	-	Mnrl flu from shell frags only	-	-	-	-
	15	**LOOSE SAND:** Very coarse – granular < 2mm to fine sand, sub-angular to sub-rounded, rounded in part, abundant translucent to transparent, common orange, yellow, rose, minor fine muscovite and biotite flakes (possibly derived from Calcarenite), trace black carbonaceous material.	PIP	-	-	-	-	-	-
	15	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	Tr	**CEMENT:** Contamination. Trace amounts.		-	-	-	-	-	-
		Calcimetry: Calcite: 21.9%; Dolomite: 16.7%							
140-160	80	**SHELL FRAGMENTS:** as above, common echinoderms, common microforaminifera, minor sponge spicules.	FIP	-	Mnrl flu from shell frags only	-	-	-	-
	15	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	FIP	-	-	-	-	-	-
	-	**CEMENT:** Contamination, 5%		-	-	-	-	-	-
		Calcimetry: Calcite: 48.5%; Dolomite: 16.5%							
180	45	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP			-	-	-	-
	30	**SHELL FRAGMENTS:** Very coarse to granular < 5mm to abundant fine, abundant bivalves, bryozoans, gastropods, common echinoderms, common microforaminifera, minor sponge spicules.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
	25	**LOOSE SAND:** Abundant fine to very coarse quartz sand in part, sub-angular to sub-rounded in part, abundant translucent to transparent, common orange, yellow, rose, minor pale yellow to white sub-angular calcite, minor fine muscovite and biotite flakes (possibly derived from Calcarenite), trace black carbonaceous material.	GIP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		Calcimetry: Calcite: 60.8%; Dolomite: 16.4%							
200	60	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	Mnrl flu from shell frags only	-	-	-	-
	20	**SANDSTONE:** Light olive grey to olive grey, friable to moderately hard in part, abundant very fine to fine, sub-angular quartz, fine shell fragments, minor black lithics and calcite grains, highly calcareous, moderately well cemented, good visible porosity	GVP	-	-	-	-	-	-
	15	**SHELL FRAGMENTS:** as above.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
	5	**LOOSE SAND:** as above.	GIP	-	-	-	-	-	-
		Calcimetry: Calcite: 82.2%; Dolomite: 0.2%							
220	80	**SANDSTONE:** as above.	GVP	-	-	-	-	-	-
	15	**SHELL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	5	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 58.3%; Dolomite: 0.3%							
240	70	**SANDSTONE:** as above.	GVP	-	-	-	-	-	-
	20	**LOOSE SAND:** as above.	GIP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** as above.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 55.0%; Dolomite: 6.0%							
260	60	**SANDSTONE:** Light olive grey to olive grey, friable, abundant very fine to fine, sub-angular calcite, quartz and fine shell fragments, minor black lithics, highly calcareous, moderately well cemented, good visible porosity.	GVP	-	-	-	-	-	-
	30	**LOOSE SAND:** as above, trace granular < 4mm, sub-angular translucent to yellow quartz.	GIP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** very coarse to granular < 5mm to abundant fine, abundant bivalves, bryozoans, gastropods, common echinoderms, common microforaminifera, minor sponge spicules.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 64.3%; Dolomite: 6.2%							
280	70	**SHELL FRAGMENTS:** very coarse to granular < 5mm, abundant bivalves, bryozoans, gastropods, common echinoderms, common microforaminifera, minor sponge spicules.	FIP	-	Mnrl flu from shell frags only	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	25	**SANDSTONE:** Light olive grey to olive grey, friable, abundant very fine to fine, sub-angular quartz and fine shell fragments, minor black lithics, highly calcareous, moderately well cemented, good visible porosity.	GVP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above, trace granular < 4mm, sub-angular translucent to yellow quartz.	GIP	-	-	-	-	-	-
		Calcimetry: Calcite: 56.0%; Dolomite: 0.5%							
300	85	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace orange, yellow, rose, quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	10	**SANDSTONE:** Light olive grey to olive grey, friable, abundant very fine to fine, sub-angular quartz and minor calcite, fine shell fragments, minor black lithics, highly calcareous, moderately well cemented, good visible porosity.	GVP	-	-	-	-	-	-
	5	**SHELL FRAGMENTS:** Abundant fine to very coarse - granular < 2mm, abundant bivalves, bryozoans, gastropods, common echinoderms, common microforaminifera, minor sponge spicules.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 57.4%; Dolomite: 0.5%							
320	80	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace orange, yellow, rose, quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	20	**LOOSE SAND:** Abundant fine to very coarse quartz sand in part, sub-angular to sub-rounded in part, abundant translucent to transparent, common orange, yellow, rose, minor pale yellow to white sub-angular calcite, minor fine muscovite and biotite flakes (possibly derived from Calcarenite), trace black carbonaceous material.	GIP	-	-	-	-	-	-
	Tr	**SHELL FRAGMENTS:** Abundant fine to very coarse - granular < 2mm in part, abundant bivalves, bryozoans, gastropods, common echinoderms, common microforaminifera, minor sponge spicules.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite:75.8%; Dolomite: 0.8%							
340	65	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace orange, yellow, rose, quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	25	**SANDSTONE:** as above, soft in part, predominantly friable, hard in part.	GVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	10	**SHELL FRAGMENTS:** Abundant fine to very coarse - granular < 2mm in part, abundant bivalves, bryozoans, gastropods, sponge spicules, common echinoderms, common microforaminifera.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 71.7%; Dolomite: 7.3%							
360	70	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace orange, yellow, rose, quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	20	**SANDSTONE:** as above, soft in part, predominantly friable, hard in part.	GVP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** Abundant fine to very coarse - granular < 2mm in part, abundant bivalves, bryozoans, gastropods, sponge spicules, common echinoderms, common microforaminifera.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 64.3%; Dolomite: 5.9%							
380	75	**CALCARENITE:** Mottled very pale orange to white, hard, fine, translucent to transparent, subangular calcite and trace orange, yellow, rose, quartz, common fine muscovite and biotite flakes, highly calcareous, well cemented calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	15	**SANDSTONE:** as above, soft in part, predominantly friable, hard in part.	GVP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** Abundant fine to very coarse in part, abundant bivalves, bryozoans, gastropods, sponge spicules, common echinoderms, common microforaminifera, common skeletal fragments.	PIP	-	Mnrl flu from shell frags only	-	-	-	-
		Calcimetry: Calcite: 84.9%; Dolomite: 12.8%							
400	75	**CALCARENITE:** Yellowish grey to light olive grey to olive grey in part, moderately hard to hard calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor black lithics, minor microforaminifera with glauconite-replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement, poor porosity.	PVP			-	-	-	-
	15	**SHELL & SKELETAL FRAGMENTS:** Abundant fine to medium, abundant sponge spicules, common echinoderms, common microforaminifera, trace bryozoans, gastropods.	PVP			-	-	-	-
	10	**LOOSE SAND:** Abundant fine to medium quartz, sub-angular to angular and rounded fine in part, abundant translucent to transparent, common orange, yellow, rose, trace black carbonaceous material.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 86.7%; Dolomite: 5.7%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
420	80	**CALCARENITE:** Yellowish grey to light olive grey to white in part, moderately hard to hard, recrystallised calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor black lithics, minor micro-foraminifera with glauconite-replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain to grain contacts, poor visable porosity.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** as above.	FIP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 78.8%; Dolomite: 9.8%							
440	80	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** as above.	FIP	-	-	-	-	-	-
	10	**SHELL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 88.5%; Dolomite: 4.4%							
460	80	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** as above, trace cryptocrystalline pyrite.	FIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above, trace shell fragments.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 85.2%; Dolomite: 5.8%							
480	80	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** as above, trace cryptocrystalline pyrite.	FIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above, trace shell fragments.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 82.5%; Dolomite: 5.5%							
500	75	**CALCARENITE:** Yellowish grey to light olive grey to olive grey in part, moderately hard to hard calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor black lithics, minor microforaminifera with glauconite-replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	25	**SKELETAL FRAGMENTS:** Abundant fine to medium particles including abundant sponge spicules, common echinoderms, common micro-foraminifera, trace bryozoans.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 87.3%; Dolomite: 7.7%							
520	60	**CALCARENITE:** as above, locally traces containing common cryptocrystalline pyrite.	PVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	40	**SKELETAL FRAGMENTS:** Abundant fine to medium particles including abundant sponge spicules (commonly black), common echinoderms, common microforaminifera, trace bryozoans.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 88.9%; Dolomite: 3.9%							
540	50	**CALCARENITE:** as above, locally traces containing common cryptocrystalline pyrite.	PVP	-	-	-	-	-	-
	50	**SKELETAL FRAGMENTS:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 92.3%; Dolomite: 0.6%							
560	50	**CALCARENITE:** as above, locally with common crypto-crystalline pyrite (trace overall abundance).	PVP	-	-	-	-	-	-
	40	**SKELETAL FRAGMENTS:** as above.	-	-	-	-	-	-	-
	10	**LOOSE SAND:** Abundant fine to medium and coarse, sub-rounded in part, sub-angular to angular, abundant translucent to transparent, trace orange, yellow, and rose coloured grains.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 88.9%; Dolomite: 6.8%							
580	65	**CALCARENITE:** as above, coarsening slightly to medium to coarse sand in part and shows a porous texture due to partial dissolving of skeletal fragments.	FVP	-	-	-	-	-	-
	30	**SKELETAL FRAGMENTS:** as above.	FIP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 88.9%; Dolomite: 6.9%							
600	70	**CALCARENITE:** as above, locally trace medium green glauconite pellets.	FVP	-	-	-	-	-	-
	20	**SKELETAL FRAGMENTS:** as above.	-	-	-	-	-	-	-
	10	**LOOSE SAND:** Abundant fine to medium and coarse grains, sub-rounded in part, sub-angular to angular, abundant translucent to transparent, minor orange, yellow, trace cryptocrystalline pyrite.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 85.1%; Dolomite: 6.5%							
620	60	**CALCARENITE:** as above, locally trace medium green glauconite pellets.	FVP	-	-	-	-	-	-
	20	**SKELETAL FRAGMENTS:** Abundant fine to medium particles including abundant sponge spicules (commonly black), common echinoderms, common microforaminifera, trace bryozoans.	-	-	-	-	-	-	-
	15	**LOOSE SAND:** Abundant fine to medium and coarse grains, sub-rounded in part, sub-angular to angular, abundant translucent to transparent, minor orange, yellow, trace crypto-crystalline pyrite.	PIP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	5	**SANDSTONE:** White, very hard, translucent to white quartz, fine to medium in part, sub angular, trace fine skeletal fragments, slightly to moderately calcareous, well cemented (recrystallised, calcite cement), poor visible porosity.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 75.3%; Dolomite: 5.5%							
640	45	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	20	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	25	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 76.9%; Dolomite: 6.2%							
660	45	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	25	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
	15	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 82.5%; Dolomite: 7.5%							
680	60	**CALCARENITE:** Light olive grey to olive grey in part, moderately hard to hard, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor black lithics, minor microforaminifera with glauconite-replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement, poor porosity.	PVP	-	-	-	-	-	-
	20	**SANDSTONE:** White, very hard, translucent to white quartz, fine to medium in part, sub angular, trace fine skeletal fragments, slightly to moderately calcareous, well cemented (recrystallised, calcite cement), poor visible porosity.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** Abundant fine to medium and coarse grains, sub-rounded in part, sub-angular to angular, abundant translucent to transparent grains, minor orange, yellow, trace cryptocrystalline pyrite.	PIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 81.0%; Dolomite: 8.2%							
700	70	**CALCARENITE:** Light olive grey to olive grey in part, moderately hard to hard, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor black lithics, minor microforaminifera with glauconite- replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement, poor porosity.	PVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	15	**SANDSTONE:** White, very hard, translucent to white quartz, fine to medium in part, sub-angular, trace fine skeletal fragments, slightly to moderately calcareous, well cemented (recrystallised calcite cement), poor visible porosity.	PVP	-	-	-	-	-	-
	15	**LOOSE SAND:** Abundant fine to medium and coarse grains, sub-rounded in part, sub-angular to angular, abundant translucent to transparent grains, minor orange, yellow, trace cryptocrystalline pyrite.	PIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	Tr	**CALCILUTITE:** White, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.	PVP-NVP	-	-	-	-	-	-
		Calcimetry: Calcite: 81.3%; Dolomite: 9.6%							
720	80	**CALCARENITE:** as above, common white colour.	PVP	-	-	-	-	-	-
	10	**SANDSTONE:** as above, poor visible porosity	PVP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 82.6%; Dolomite: 13.6%							
740	75	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** Abundant very fine to medium, sub-angular to sub-rounded, abundant translucent to transparent grains, minor white, trace yellow.	PIP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 64.1%; Dolomite: 9.9%							
760	65	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	15	**LOOSE SAND:** as above.	GIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
	Tr	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 63.2%; Dolomite: 5.5%							
780	70	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	10	**LOOSE SAND:** as above.	GIP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	Tr	**CALCILUTITE:** White, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 67.3%; Dolomite: 6.2%							
800	70	**CALCARENITE:** White to light olive grey, moderately hard to hard to recrystallised calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, trace black lithics, minor microforaminifera with glauconite-replaced cement, trace fine skeletal fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain-to-grain contacts, poor visible porosity.	PVP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** abundant foraminifera, white and bluish black sponge spicules, echinoderm.	PIP	-	-	-	-	-	-
	10	**CALCILUTITE:** White to olive grey, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.	PVP	-	-	-	-	-	-
	5	**LOOSE SAND:** Translucent to transparent, very coarse to granular < 2mm and very fine, sub-rounded quartz.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 69.0%; Dolomite: 4.8%							
820	85	**CALCARENITE:** as above, white to light grey.	PVP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	Tr	**LOOSE SAND:** Translucent to transparent, very coarse to granular < 2mm and very fine, sub-rounded quartz.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 68.4%; Dolomite: 5.8%							
840	80	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** abundant foraminifera, white and bluish black sponge spicules, echinoderm.	PIP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
	Tr	**CALCILUTITE:** White to olive grey, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 71.1%; Dolomite: 3.8%							
860	65	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	10	**SANDSTONE:** Translucent to white, very hard, fine to medium in part, sub angular quartz, slightly to moderately calcareous, fine white inferred calcite cement in part (recrystallised), poor visible porosity.	PVP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
	5	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 62.9%; Dolomite: 4.4%							
880	60	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	15	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
	10	**SANDSTONE:** as above, locally with abundant cryptocrystalline pyrite (trace overall abundance).	PVP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 66.3%; Dolomite: 4.5%							
900	40	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	35	**CALCILUTITE:** White to light olive grey, soft, amorphous, locally trace with very fine transparent quartz.	NVP-PVP	-	-	-	-	-	-
	15	**SKELETAL FRAGMENTS:** as above, occasionally with local glauconite-infilled cement	PIP	-	-	-	-	-	-
	10	**SANDSTONE:** as above, locally with abundant cryptocrystalline pyrite (trace overall abundance).	PVP	-	-	-	-	-	-
	Tr	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 67.0%; Dolomite: 3.4%							
920	50	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	40	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
	10	**SKELETAL FRAGMENTS:** as above, occasional glauconite infilled cement.	PIP	-	-	-	-	-	-
	Tr	**SANDSTONE:** as above, locally with abundant cryptocrystalline pyrite in trace amounts as above.	PVP	-	-	-	-	-	-
	Tr	**CLAYSTONE:** medium grey, soft, amorphous to firm in part, homogeneous, slakey in part, highly calcareous, grades to MARL.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 68.4%; Dolomite: 6.8%							
940	50	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	40	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	5	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	Tr	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 75.9%; Dolomite: 7.1%							
		Provisional Top: Lakes Entrance Formation at 960.0m MDRT / -857.5m SS.							
960	60	**CALCILUTITE:** White to olive grey, soft, fine to medium, sub-angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix.	PVP	-	-	-	-	-	-
	30	**CALCARENITE:** White to olive grey, moderately hard to hard to recrystallised calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor microforaminifera with glauconite-replaced cement, trace black lithics, trace fine skeletal fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain-to-grain contacts, poor visible porosity.	PVP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** Abundant foraminifera, white and bluish black sponge spicules, echinoderm.	PIP	-	-	-	-	-	-
	5	**CLAYSTONE:** Medium grey, soft, amorphous to firm in part, homogenous, slakey in part, occasionally with glauconite infilled cement, highly calcareous, grades to MARL.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 45.5%; Dolomite: 8.2%							
980	45	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	25	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
	25	**LOOSE SAND:** Translucent to transparent, yellow in part, fine to very coarse, sub rounded to rounded, sub angular in part, poorly sorted.	PIP	-	-	-	-	-	-
	5	**SANDSTONE:** Translucent to white, very hard, fine to medium in part, sub angular quartz, slightly to moderately calcareous, fine white inferred calcite cement in part (recrystallised), poor visible porosity.	PVP	-	-	-	-	-	-
	Tr	**SKELETAL FRAGMENTS:** as above, occasionally with glauconite infilled cement, occasional shell fragments.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 69.7%; Dolomite: 4.4%							
1000	60	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	30	**CALCILUTITE:** as above.	PVP	-	-	-	-	-	-
	5	**LOOSE SAND:** as above.	PIP	-	-	-	-	-	-
	5	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	Tr	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 70.1%; Dolomite: 10.0%							
1020	60	**CALCARENITE:** as above.	PVP	-	-	-	-	-	-
	35	**CALCILUTITE:** White to olive grey, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix and grading to a CALCISILTITE in part.	PVP	-	-	-	-	-	-
	5	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
	Tr	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 62.7%; Dolomite: 11.6%							
1040	40	**CALCILUTITE:** as above, grading to a CALCISILTITE in part.	PVP	-	-	-	-	-	-
	40	**CALCARENITE:** White to olive grey, moderately hard to hard to recrystallised calcite, very fine to fine and medium in part, angular to sub-angular, translucent, pale yellow to occasionally orange, minor microforaminifera with glauconite-replaced cement, trace fine skeletal fragments, trace black lithics, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain-to-grain contacts, poor visible porosity.	PVP	-	-	-	-	-	-
	15	**CALCISILTITE:** Light olive grey to olive grey, firm to soft in part, common very fine, dominantly silt sized, transparent, sub angular quartz, trace black flecks (possible biotite), trace muscovite, trace skeletal material, argillaceous matrix.	PVP	-	-	-	-	-	-
	5	**SANDSTONE:** as above.	PVP	-	-	-	-	-	-
	Tr	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 53.1%; Dolomite: 10.0%							
1060	45	**CALCILUTITE:** White to olive grey, soft, fine to medium, sub-angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix and grading to a CALCISILTITE in part.	PVP	-	-	-	-	-	-
	30	**CALCISILTITE:** as above.	PVP	-	-	-	-	-	-
	20	**CALCARENITE:** as above, poor visible porosity	PVP	-	-	-	-	-	-
	5	**SANDSTONE:** White to light olive grey, very hard, translucent to white grains, fine to medium in part, sub angular, slightly calcareous, well calcite cemented (recrystallised) and pyrite-replaced cement in part, poor visible porosity.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 55.3%; Dolomite: 9.7%							
1080	45	**CALCISILTITE:** as above.	PVP	-	-	-	-	-	-
	35	**CALCILUTITE:** as above, grading to a CALCISILTITE in part.	PVP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	20	**CALCARENITE:** White in part to olive grey, moderately hard to hard, very fine to fine and medium in part, angular to sub-angular, translucen calcitet, pale yellow to occasionally orange, minor microforaminifera with glauconite-replaced cement, trace fine skeletal fragments, trace black lithics, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain-to-grain contacts, poor visible porosity.	PVP	-	-	-	-	-	-
	Tr	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 59.1%; Dolomite: 11.5%							
1100	60	**CALCISILTITE:** as above.	PVP	-	-	-	-	-	-
	20	**CALCILUTITE:** as above, grading to a CALCISILTITE in part.	PVP	-	-	-	-	-	-
	15	**CALCARENITE:** as above, poor visible porosity	PVP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 53.0%; Dolomite: 6.3%							
1120	65	**CALCISILTITE:** as above.	PVP	-	-	-	-	-	-
	25	**CALCILUTITE:** as above, grading to a CALCISILTITE in part.	NVP-PVP	-	-	-	-	-	-
	5	**CALCARENITE:** as above, poor visible porosity	PVP	-	-	-	-	-	-
	5	**SKELETAL FRAGMENTS:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 53.0%; Dolomite: 8.4%							
1123		Bottoms up sample not described.							
		TD of 444mm / 17½" hole section at 1123m MDRT / 1040m TVDRT reached at 22:00 hrs, 27 April 2008. CBU.							
		360mm / 13 3/8" casing set at 1117.0m MDRT / 1035.0m TVDRT							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		311 mm/12.25" hole section drilled from 1123 m MDRT commencing 13:15 hrs, 03 May 2008.							
		10 m Sample interval							
1123-1130	60	**CALCILUTITE:** Greenish grey to olive grey in part, soft, trace loose fine skeletal fragments, trace very fine black flecks (possibly biotite) and grading to a CALCISILTITE in part.	-	-	-	-	-	-	-
	40	**CALCISILTITE:** Light olive grey to olive grey, soft to hard in part, common very fine, dominantly silt sized, transparent to translucent, sub angular quartz, trace black flecks (possible biotite), trace silt sized mica specks, trace locally with argillaceous matrix.	-	-	-	-	-	-	-
	Tr	**CALCARENITE:** White to olive grey in part, moderately hard to hard, very fine to fine and occasional medium, sub-angular, translucent calcite, trace black lithics, moderately to well cemented in part, inferred calcite cement, fair visible porosity.	FVP	-	Trace pale to bright yellow mineral fluorescence	-	-	-	-
		Calcimetry: Calcite: 47.2% Dolomite: 9.5%							
1140	75	**CALCILUTITE:** as above, common olive grey.	-	-	-	-	-	-	-
	25	**CALCISILTITE:** as above.	-	-	-	-	-	-	-
	Tr	**CALCARENITE:** as above, occasional loose, translucent, sub angular to angular calcite grains.	FVP	-	Trace pale to bright yellow mineral fluorescence	-	-	-	-
		Calcimetry: Calcite: 46.5% Dolomite: 12.3%							
1150	95	**CALCILUTITE:** as above, trace loose, very coarse, translucent, angular calcite.		-	-	-	-	-	-
	5	**CALCISILTITE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 49.2% Dolomite: 8.8%							
1160	100	**CALCILUTITE:** as above, locally with trace very fine black carbonaceous material(?). **NOTE: Barablock (coal inhibitor) being added to mud system – may be contaminant.**		-	-	-	-	-	-
		Calcimetry: Calcite: 46.5% Dolomite: 12.3%							
1170	100	**CALCILUTITE:** Medium dark grey to olive grey to dark greenish grey, soft to firm to moderately hard, sub-blocky, grading locally silty, trace calcareous CLAYSTONE.		-	-	-	-	-	-
		Calcimetry: Calcite: 49.2% Dolomite: 8.8%							
1180	100	**CALCILUTITE:** as above, trace carbonaceous material as streaks and specks, trace micromicas.		-	-	-	-	-	-
		Calcimetry: Calcite: 49.2% Dolomite: 8.8%							
1190	100	**CALCILUTITE:** as above.		-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	Tr	**SANDSTONE:** Medium light grey, hard, very fine grained, sub-angular to sub-rounded, moderately sorted, well calcareous cemented, trace carbonaceous material, trace very fine grained disseminated pyrite, poor visual porosity, no show.	PVP	-	-	-	-	-	-
		Calcimetry: Calcite: 47.8% Dolomite: 9.0%							
1200	100	**CALCILUTITE:** as above, trace biotite flakes.		-	-	-	-	-	-
		Calcimetry: Calcite: 32.5% Dolomite: 12.3%							
1210	100	**CALCILUTITE:** Medium dark grey to olive grey to dark greenish grey, soft to firm to moderately hard, sub-blocky, grading locally silty, trace shell fragments, trace micromicas, trace carbonaceous specks, trace calcareous CLAYSTONE (increasing in abundance with depth).		-	-	-	-	-	-
		Calcimetry: Calcite: 25.9% Dolomite: 12.1%							
1220	100	**CALCILUTITE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 19.8% Dolomite: 3.3%							
1230	60	**CALCILUTITE:** as above, 20-40% argillaceous material, grading with depth to CALCAREOUS CLAYSTONE.		-	-	-	-	-	-
	40	**CALCAREOUS CLAYSTONE:** medium grey, soft to firm, sub-blocky, micromicaeous, trace carbonaceous material.		-	-	-	-	-	-
		Calcimetry: Calcite: 27.8% Dolomite: 0.5%							
1240	30	**CALCILUTITE:** as above.		-	-	-	-	-	-
	70	**CALCAREOUS CLAYSTONE:** Medium grey, olive grey, soft to firm, sub-blocky, 40% calcareous clay, micromicaeous, trace carbonaceous material.		-	-	-	-	-	-
		Calcimetry: Calcite: 23.4% Dolomite: 6.6%							
1250	20	**CALCILUTITE:** Greenish grey, soft, sub-blocky, trace glauconite.		-	-	-	-	-	-
	80	**CALCAREOUS CLAYSTONE:** Medium grey, olive grey, dark greenish grey, soft to firm, sub-blocky, 40% calcareous clay, micromicaeous, trace carbonaceous material, trace very fiine grained disseminated pyrite, trace glauconite.		-	-	-	-	-	-
		Calcimetry: Calcite: 30.8% Dolomite: 4.0%							
1260	20	**CALCILUTITE:** as above.		-	-	-	-	-	-
	80	**CALCAREOUS CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 30.3% Dolomite: 7.6%							
1270	10	**CALCILUTITE:** as above.		-	-	-	-	-	-
	90	**CALCAREOUS CLAYSTONE:** as above, increase in glauconite percentage.		-	-	-	-	-	-
		Calcimetry: Calcite: 17.2% Dolomite:1.6%							
1280	100	**CALCAREOUS CLAYSTONE:** as above, in part sub-fissile when dark greenish grey.		-	-	-	-	-	-
		Calcimetry: Calcite: 23.2% Dolomite: 8.2%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
1290	100	**CALCAREOUS CLAYSTONE:** Medium grey, medium dark grey, occasionally medium light grey, soft to firm, sub-blocky, 30% calcareous clay, trace glauconite, trace carbonaceous material.		-	-	-	-	-	-
		Calcimetry: Calcite: 30.3% Dolomite: 5.6%							
1300	100	**CALCAREOUS CLAYSTONE:** as above, trace foraminifera.		-	-	-	-	-	-
		Calcimetry: Calcite: 32.2% Dolomite: 1.3%							
1310	100	**CALCAREOUS CLAYSTONE:** as above, trace dark greenish grey.		-	-	-	-	-	-
		Calcimetry: Calcite: 28.3% Dolomite: 3.7%							
1320	100	**CALCAREOUS CLAYSTONE:** medium grey, medium dark grey, soft to firm, sub-blocky, 20% (decreasing with depth) calcareous clay, rare foraminifera, trace carbonaceous material.		-	-	-	-	-	-
		Calcimetry: Calcite: 23.1% Dolomite: 4.5%							
1330	100	**CALCAREOUS CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 19.5% Dolomite: 4.1%							
1340	100	**CALCAREOUS CLAYSTONE:** as above, trace very fine pyrite as burrow(?) replacement.		-	-	-	-	-	-
		Calcimetry: Calcite: 21.3% Dolomite: 3.0%							
1350	100	**CALCAREOUS CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 21.9% Dolomite: 3.8%							
1360	100	**CALCAREOUS CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 16.5% Dolomite: 3.4%							
1370	100	**CALCAREOUS CLAYSTONE:** Medium dark grey, olive grey, soft to firm, sub-blocky, 20% calcareous clay, trace carbonaceous, trace very fine pyrite as burrow(?) replacement.		-	-	-	-	-	-
		Calcimetry: Calcite: 21.9% Dolomite: 3.3%							
1380	100	**CALCAREOUS CLAYSTONE:** as above. **(Barablock contamination in sample)**		-	-	-	-	-	-
		Calcimetry: Calcite: 9.9% Dolomite: 3.9%							
1390	100	**CALCAREOUS CLAYSTONE:** as above, calcareous percentage decreasing, grading to CLAYSTONE.		-	-	-	-	-	-
		Calcimetry: Calcite: 13.1% Dolomite: 3.1%							
1400	100	**CLAYSTONE:** medium dark grey, dark greenish grey, soft to firm, sub-blocky, 10% calcareous clay, trace micromicas.		-	-	-	-	-	-
		Calcimetry: Calcite: 14.0% Dolomite: 0.7%							
1410	100	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 8.3% Dolomite: 8.5%							
1420	100	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 10.5% Dolomite: 7.3%							
1430	100	**CLAYSTONE:** as above, trace very fine pyrite aggregates.		-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		Calcimetry: Calcite:7.3% Dolomite: 8.7%							
1440	100	**CLAYSTONE:** Medium dark grey, dark greenish grey, medium grey in part, soft to firm, sub-blocky, 10% calcareous clay, trace micromicas.		-	-	-	-	-	-
		Calcimetry: Calcite: 19.6% Dolomite: 7.1%							
1450	100	**CLAYSTONE:** as above, grading lighter in part to medium light grey, more calcareous and trace biotite flakes.		-	-	-	-	-	-
		Calcimetry: Calcite: 22.4% Dolomite: 10.8%							
1460	90	**CLAYSTONE:** Medium light grey, soft, blocky, 15% calcareous clay, trace micromicas.		-	-	-	-	-	-
	10	**CLAYSTONE:** Dark greenish grey, soft, 15% calcareous clay, 10% glauconite grains (greenish black and green).		-	-	-	-	-	-
		Calcimetry: Calcite:13.4% Dolomite: 7.4%							
1470	40	**CLAYSTONE:** Medium light grey, as above.		-	-	-	-	-	-
	60	**CLAYSTONE:** Dark greenish grey, as above, 30% glauconite grains.		-	-	-	-	-	-
		Calcimetry: Calcite: 13.3% Dolomite: 2.7%							
		NOTE: End of 10m sample interval. Sample interval to TD at 3m (nominal). Where ROP was too high cuttings samples have been caught at larger spacing.							
1476	100	**CLAYSTONE:** Medium light grey, soft, sub-blocky, 15% calcareous clay, 10% glauconite, trace micromicas, trace foraminifera.		-	-	-	-	-	-
		Calcimetry: Calcite: 14.8% Dolomite: 8.0%							
1482	100	**CLAYSTONE:** as above, trace light olive grey, soft, sub-blocky, no longer glauconitic, rare coral fragments.		-	-	-	-	-	-
		Calcimetry: Calcite: 8.7% Dolomite: 5.5%							
1491	100	**CLAYSTONE:** Medium light grey, soft, sub-blocky, 15% calcareous clay, 5% glauconite, trace micromicas.		-	-	-	-	-	-
		Calcimetry: Calcite: 7.5% Dolomite: 9.6%							
1497	100	**CLAYSTONE:** Medium light grey, olive grey, soft to firm, sub-blocky, rarely sub-fissile,15% calcareous clay, 5% glauconite, rare foraminifera, trace very fine grained pyrite aggregates.		-	-	-	-	-	-
1500	100	**CLAYSTONE:** Medium light grey to brownish grey, soft to firm, 25% calcareous clay, 5% glauconite, trace pyrite.		-	-	-	-	-	-
		Calcimetry: Calcite: 16.5% Dolomite: 1.6%							
		NOTE: Definite colour change noted in cuttings.							
1506	100	**CLAYSTONE:** Brownish grey, medium light grey, very soft to soft, rarely firm, 10% calcareous clay, 15% glauconite.		-	-	-	-	-	-
		Calcimetry: Calcite: 6.8% Dolomite: 3.7%							
1512	100	**CLAYSTONE:** as above, grading to SILTSTONE in the brownish grey fraction.		-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		Calcimetry: Calcite: 6.0% Dolomite: 5.5%							
1518	30	**CLAYSTONE:** Medium light grey, soft to firm, sub-blocky, trace glauconite.		-	-	-	-	-	-
	70	**SILTSTONE:** Brownish grey, very soft to soft, sub-blocky, 30% glauconite, 10% calcareous clay.		-	-	-	-	-	-
	Tr	**CALCILUTITE:** Yellowish grey, soft.		-	-	-	-	-	-
		Calcimetry: Calcite: 11.9% Dolomite: 6.4%							
1524	90	**SILTSTONE:** Brownish grey, as above, trace very fine grained pyrite aggregates, trace shell fragments, trace foraminifera.		-	-	-	-	-	-
	10	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 5.5% Dolomite: 0.6%							
1530	90	**SILTSTONE:** as above, increased glauconite, 5% very fine grained pyrite aggregates.		-	-	-	-	-	-
	10	**CLAYSTONE:** as above.		-	-	-	-	-	-
	Tr	**SANDSTONE:** Loose quartz grains, clear and opaque, light grey, polished, fine to medium to coarse to very coarse grained, sub-angular to sub-rounded to rounded, poorly sorted, trace grey matrix on grain surfaces, poor inferred porosity, no show discernible.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 5.5% Dolomite: 0.6%							
1536	70	**SILTSTONE:** Brownish grey, very soft to soft, sub-blocky, 30% glauconite, 10% calcareous clay, 5% very fine grained pyrite aggregates, trace foraminifera.		-	-	-	-	-	-
	20	**CLAYSTONE:** Medium light grey, soft to firm, sub-blocky, trace glauconite.		-	-	-	-	-	-
	10	**SANDSTONE:** Loose quartz grains, as above, in part poorly siliceous cemented.	PIP	-	-	-	-	-	-
	Tr	**COAL:** Dark brown black, sub-fissile, soft, argillaceous, earthy.		-	-	-	-	-	-
		Calcimetry: Calcite: 5.5% Dolomite: 0.6%							
1542	70	**SILTSTONE:** as above, trace locally with minor fine muscovite flakes.		-	-	-	-	-	-
	10	**SANDSTONE:** Loose quartz grains, as above, grading coarser.	PIP	-	-	-	-	-	-
	20	**COAL:** Black, dark brown black, blocky, cleated, predominantly bright, trace very fine grained disemminated pyrite		-	-	-	-	-	-
	Tr	**CLAYSTONE:** as above, grading to SILTSTONE.		-	-	-	-	-	-
		Calcimetry: Calcite: 2.3% Dolomite: 0.2%							
1545	60	**COAL:** as above		-	-	-	-	-	-
	30	**SILTSTONE:** as above.		-	-	-	-	-	-
	10	**SANDSTONE:** Loose quartz grains, as above, grading coarser.	PIP	-	-	-	-	-	-
	Tr	**CLAYSTONE:** as above		-	-	-	-	-	-
		Calcimetry: Calcite: 2.3% Dolomite: 0.2%							
1551	85	**SILTSTONE:** as above.		-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	10	**SANDSTONE:** loose quartz grains, as above, grading coarser.	PIP	-	-	-	-	-	-
	5	**COAL:** as above.		-	-	-	-	-	-
	Tr	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 2.1% Dolomite: 0.2%							
1560	90	**SILTSTONE:** Brownish grey, very soft to soft, sub-blocky, 10% calcareous clay, 5% very fine grained pyrite aggregates and trace locally with abundant cryptocrystalline pyrite, trace fine to medium glauconite grains.		-	-	-	-	-	-
	5	**SANDSTONE:** Trace aggregates, pale yellow to yellowish grey, friable, very fine to fine, sub-angular to sub-rounded quartz, inferred silica cement, good visible porosity; Dominantly loose quartz grains as above.	GVP	-	Trace bright pale yellow fluorescence	Moderately fast streaming bright blue white	Good, moderately thick residual ring	Bright blue-yellow	Tr
	5	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	Tr	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 2.3% Dolomite: 0.2%							
1566	60	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	35	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	5	**SANDSTONE:** Trace aggregates, pale yellow to yellowish grey, friable, very fine to fine, sub-angular to sub-rounded quartz, inferred silica cement, good visible porosity; Dominantly **loose quartz grains** as above.	GVP	-	Trace bright pale yellow fluorescence	Slw to mod fast streaming bright blue white	Thin, weak residual ring	Bright blue-yellow	Tr
1572	50	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	45	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	5	**SANDSTONE:** as above, dominantly loose.	GVP		Trace bright pale yellow fluorescence	Slow streaming bright blue white	Thin, weak, spotty residual ring	Bright blu-yel	Tr
		Calcimetry: Calcite: 2.9% Dolomite: 0.7%							
1578	50	**CLAYSTONE:** Medium light grey, soft to firm, sub-blocky, trace glauconite.	-	-	-	-	-	-	-
	35	**SILTSTONE:** Brownish grey, soft to moderately hard, sub-blocky, trace to 10% calcareous clay, 5% very fine grained pyrite aggregates and trace locally with abundant cryptocrystalline pyrite.	-	-	-	-	-	-	-
	15	**SANDSTONE:** Trace aggregate, pale yellow to yellowish grey, friable, very fine to fine, sub-angular to sub-rounded quartz, inferred silica cement, good visible porosity; Dominantly **loose quartz grains** clear and opaque, light grey, polished, fine to medium to very coarse to granular grained, sub-angular to sub-rounded to rounded in part, poorly sorted, trace grey matrix on grain surfaces, poor inferred porosity.	GVP & PIP	-	Trace bright pale yellow fluorescence	Slow streaming bright blue white	Thin, weak, spotty, residual ring	Bright blue-yellow	Tr
		Calcimetry: Calcite: 2.9% Dolomite: 0.7%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
1584	50	**SANDSTONE:** Loose, transparent to translucent, medium grained, trace fine in part and trace very coarse in part, sub-angular to sub-rounded in part, moderately well sorted, trace fine forams, good inferred porosity.	GIP	-	-	-	-	-	-
	30	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	15	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	5	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 2.9% Dolomite: 0.7%							
1590	45	**COAL:** as above.	-	-	-	-	-	-	-
	20	**SANDSTONE:** Loose, transparent to translucent, fine to very coarse and granular in part, sub-angular to rounded, very poorly sorted, trace fine forams, poor inferred porosity.	PIP	-	-	-	-	-	-
	20	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	15	**CLAYSTONE:** Medium light grey, soft to firm, sub-blocky, trace glauconite.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 2.1% Dolomite: 1.0%							
1596	85	**COAL:** Black, dark brown black in part, blocky, cleated, sub conchoidal fracturing in part, predominantly bright, trace very fine grained disemminated pyrite in part.	-	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	-	-	-	-	-	-	-
	5	**SILTSTONE:** as above.	-	-	-	-	-	-	-
1599	70	**SANDSTONE:** Loose, generally as above, 15% aggregates, trace translucent to white, hard, medium to fine grained, sub-angular to angular quartz, moderately sorted, well cemented, recrystallised in part, poor visible porosity.	PVP	-	Trace bright pale yellow fluorescence	-	-	-	
	20	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	10	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	tr	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.5%							
1602	85	**SANDSTONE:** Loose as above, 10% aggregates, trace translucent to white, hard, medium to fine grained, sub-angular to angular, quartzose, moderately sorted, slightly calcareous, well cemented, inferred calcite cement in part, recrystallised in part, poor visible porosity.	PVP	-	Trace bright pale yellow fluorescence	-	-	-	-
	10	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	5	**SILTSTONE:** Brownish grey, soft to moderately hard, sub-blocky, trace to 10% calcareous clay, 5% very fine grained pyrite aggregates and trace locally with abundant cryptocrystalline pyrite.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.5%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
1608	70	**SANDSTONE:** Loose, clear and translucent ,very fine grained, sub-rounded to rounded and grading to very coarse sub-angular to angular granular grained, very poorly sorted, poor inferred porosity. Trace aggregates, translucent to white, hard, medium to fine grained, sub-angular to angular, quartzose, moderately sorted, slightly calcareous, well cemented, inferred calcite cement in part, recrystallised in part, poor visible porosity.	PIP & PVP	-	-	-	-	-	-
	25	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	5	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	Tr	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.5%							
1614	70	**SILTSTONE:** Olive grey to dark olive grey, soft to firm and hard in part, blocky to sub-blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks, trace locally with cryptocrystalline pyrite, trace loose medium pyrite nodules.	-	-	-	-	-	-	-
	25	**SANDSTONE:** as above.	PIP	-	-	-	-	-	-
	5	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.6%							
1620	70	**COAL:** as above.	-	-	-	-	-	-	-
	20	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PIP	-	-	-	-	-	-
	Tr	**CLAYSTONE:** as above.							
		Calcimetry: Calcite: 0.7% Dolomite: 0.6%							
1626	85	**SILTSTONE:** Olive grey to dark olive grey, soft to firm in part, blocky to sub-blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks, trace locally with cryptocrystalline pyrite, trace loose medium pyrite nodules.	-	-	-	-	-	-	-
	10	**SANDSTONE:** as above.	PIP	-	-	-	-	-	
	5	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.6%							
1632	95	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	5	**SANDSTONE:** as above.	PIP	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.6%							
1638	65	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	30	**SANDSTONE:** as above,coarsening in part to granular < 2mm.	PIP	-	-	-	-	-	-
	5	**COAL:** Black, dark brownish black in part, blocky, cleated, sub conchoidal fracturing in part, predominantly bright, trace very fine grained disemminated pyrite in part.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.6%							
1644	75	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	20	**SANDSTONE:** as above,coarsening in part to granular < 2mm.	PIP	-	Trace bright pale yellow	-	-	-	-
	5	**COAL:** as above.	-	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1650	40	**COAL:** as above.	-	-	-	-	-	-	-
	40	**SANDSTONE:** as above.	PIP	-	-	-	-	-	-
	20	**SILTSTONE:** as above, medium brown in part.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1656	80	**SANDSTONE:** Predominantly loose, translucent to transparent, very fine to medium grained, minor very coarse & angular (possible recrystallised sandstone aggregate) < 3 mm, sub-rounded to sub-angular and angular in part, poor inferred porosity. Trace Sandstone aggregates, as above.	PIP	-	Trace bright pale yellow	Very slow streaming bright blue-white	Thin, weak residual ring	Bright blue-yellow	Tr
	20	**SILTSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1662	100	**SANDSTONE:** Loose, translucent to transparent, very fine to medium grained and minor very coarse & angular < 3 mm, sub-rounded to sub-angular and angular in part, poor inferred porosity. Common Sandstone aggregates, predominantly recrystallised, as above.	PIP	-	Trace bright pale yellow	-	-	-	-
	Tr	**SILTSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1668	70	**SANDSTONE:** as above.	PIP	-	Trace bright pale yellow	-	-	-	-
	25	**COAL:** as above.	-	-	-	-	-	-	-
	5	**SILTSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1674	90	**SANDSTONE:** Loose, translucent to transparent, very fine to medium grained and minor very coarse & angular < 3 mm, sub-rounded to sub-angular and angular in part, poor inferred porosity. Common Sandstone aggregates, predominantly recrystallised, as above.	PIP	-	-	-	-	-	-
	10	**SILTSTONE:** Olive grey to dark olive grey, soft to firm in part, blocky to sub-blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks, trace locally with crypto-crystalline pyrite, trace well rounded fine glauconite, trace loose medium pyrite nodules.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1680	50	**SANDSTONE:** Translucent to white, hard, very coarse to granular grained, sub-angular to angular, quartzose, moderately well sorted, recrystallised, trace crypto-crystalline pyrite, poor visible porosity (within sandstone aggregate); minor loose quartz grains, as above.	PIP & PVP	-	Trace bright yellow – pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	35	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	15	**COAL:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
1686	95	**SANDSTONE:** as above.	FIP	-	5% bright yellow-pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	5	**SILTSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1692	90	**SANDSTONE:** as above.	FIP		Trace bright yellow – pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	5	**SILTSTONE:** as above.	-	-	-	-	-	-	-
	5	**CLAYSTONE:** Light grey to very pale orange and white in part, soft to firm in part, amorphous, slakey in part.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1698	95	**SANDSTONE:** Dominantly in aggregate, as above, trace loose fine to medium grained in part, sub-rounded to rounded, quartzose.	FIP	-	Trace bright yellow – pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	5	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1704	100	**SANDSTONE:** Translucent to white, hard, very coarse to granular grained, sub-angular to angular, moderately well sorted, recrystallised, quartzose, trace crypto-crystalline pyrite, poor visible porosity (within sandstone aggregates); trace loose quartz grains, as above.	PVP-FIP	-	Trace bright yellow – pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	Tr	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1710	100	**SANDSTONE:** as above.	PVP-FIP	-	Trace bright yellow – pale yellow	Very slow streaming bright blue-white	Thin, weak blotchy residual ring	Bright blue-yellow	Tr
	Tr	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1716	100	**SANDSTONE:** Translucent to white, hard, very coarse to granular grained, sub-angular to angular, moderately well sorted, recrystallised, quartzose, trace locally with cryptocrystalline pyrite, poor visible porosity (within sandstone aggregates); trace loose quartz grains, as above.	PVP-FIP	-	-	-	-	-	-
	Tr	**CLAYSTONE:** as above.	-	-	-	-	-	-	-
	Tr	**SILTSTONE:** Olive grey to dark olive grey, soft to firm in part, blocky to sub-blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks.	-	-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
1722	80	**SANDSTONE:** Light grey, dark yellowish brown, predominantly opaque, in part clear, predominantly loose quartz, in part hard when recrystallised, coarse to granular grained, dominantly very coarse to granular, angular (shattered) to sub-rounded, moderately sorted, trace very fine grained pyrite as aggregates and cement, 5% siliceous cement, white clay matrix adhering to grains surfaces and washing out, inferred fair to good porosity.	FIP-GIP	Dark brown black staining on some grain surfaces	-	-	-	-	-
	20	**COAL:** Black, greenish black, brittle to moderately hard, cleated to platy, earthy to bright, in part with conchoidal fracture.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1728	90	**SANDSTONE:** Generally as above, less dark yellowish brown, grading fine grained to granular, poorly sorted, inferred poor visual porosity.	PIP-FIP	Dk brn-blk on some grain surfaces	-	-	-	-	-
	10	**COAL:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1734	10	**SANDSTONE:** as above.	PIP	As above	-	-	-	-	-
	80	**SILTSTONE:** Olive grey, pale yellowish brown, soft, amorphous to sub-blocky, trace carbonaceous material.		-	-	-	-	-	-
	10	**CLAYSTONE:** Medium dark grey, firm, sub-blocky, micro-micaceous.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1740	60	**SANDSTONE:** Light grey, opaque, in part clear, loose quartz grains, predominantly medium grained, grading fine grained to granular, sub-angular to sub-rounded, moderately sorted, clay matrix washing out, trace very fine grained pyrite aggregates and cement, inferred fair visual porosity.	FIP	-	-	-	-	-	-
	10	**SILTSTONE:** as above.		-	-	-	-	-	-
	30	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1746	20	**SANDSTONE:** as above.	FIP	-	-	-	-	-	-
	30	**COAL:** Black, greenish black, brittle to moderately hard, cleated to platy, earthy to bright, in part with conchoidal fracture.		-	-	-	-	-	-
	50	**SILTSTONE:** Light grey, firm to hard, 15% clay, trace carbonaceous material, micromicaceous.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.7% Dolomite: 0.1%							
1752	20	**CLAYSTONE:** as above.		-	-	-	-	-	-
	20	**SANDSTONE:** as above.	FIP	-	-	-	-	-	-
	60	**SILTSTONE:** Light grey, light olive grey, as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1758	10	**CLAYSTONE:** as above.		-	-	-	-	-	-
	20	**SILTSTONE:** as above.		-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN	FLUOR	CUT	CUT FLUOR	RES COLOUR	SHOW QUAL
				DIST COLOUR	DIST INTEN COLOUR	INTEN COLOUR	INTEN COLOUR		
	70	**SANDSTONE:** Light grey, dark yellowish brown, predominantly opaque, in part clear, predominantly loose quartz, in part hard when recrystallised, coarse to granular grained, dominantly very coarse to granular, angular (shattered) to sub-rounded, moderately sorted, 5% siliceous cement, white clay matrix adhering to grain surfaces and washing out, inferred fair to good visual porosity.	FIP-GIP	Dark brown black staining on some grain surfaces	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1764	90	**SANDSTONE:** as above, trace very fine grained pyrite as aggregates and cement.	GIP	Dk brn-blk on some grain surfaces	-	-	-	-	-
	10	**CLAYSTONE:** as above.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1773	30	**COAL:** Black, greenish black, brittle to moderately hard, cleated to platy, earthy to bright, in part with conchoidal fracture, trace mica flakes.		-	-	-	-	-	-
	70	**SANDSTONE:** Light grey, opaque, in part clear, loose quartz grains, predominantly medium grained, grading fine grained to granular, sub-angular to sub-rounded, moderately sorted, clay matrix washing out, trace very fine grained pyrite aggregates and cement, inferred fair visual porosity.	FIP	-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1779	10	**COAL:** as above.		-	-	-	-	-	-
	50	**SANDSTONE:** as above, predominantly loose quartz, grading coarse to granular grained.	GIP	-	-	-	-	-	-
	40	**SILTSTONE**: Light olive grey, soft to firm, occasionally hard, 15% clay, grading locally to silty CLAYSTONE, trace carbonaceous material, micromicaceous.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1785	90	**CLAYSTONE:** Light olive grey, light grey, soft to firm, sub-blocky, locally silty to 10%, micromicaceous, rare carbonaceous material.		-	-	-	-	-	-
	10	**SANDSTONE:** as above.	GIP	-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1791	70	**CLAYSTONE:** as above, in part medium grey, firm, sub-blocky, trace micromicas.		-	-	-	-	-	-
	30	**SANDSTONE:** Generally as above, poorer sorted.	FIP	-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1797	90	**SANDSTONE:** Light grey, opaque, in part clear, loose quartz grains, predominantly medium grained, grading fine grained to granular, sub-angular to sub-rounded, moderately sorted, clay matrix washing out, trace very fine grained pyrite aggregates and cement, inferred fair visual porosity.	FIP	-	-	-	-	-	-

WELLSITE SAMPLE DESCRIPTION

DEPTH m	%	LITHOLOGY DESCRIPTION and COMMENTS (classification, colour, hardness, texture, mineralogy, modifiers, cement)	POR	STAIN DIST COLOUR	FLUOR DIST INTEN COLOUR	CUT INTEN COLOUR	CUT FLUOR INTEN COLOUR	RES COLOUR	SHOW QUAL
	10	**CLAYSTONE:** as above.		-	-	-	-	-	-
	Tr	**COAL:** Black, greenish black, brittle to moderately hard, cleated to platy, earthy to bright, in part with conchoidal fracture, trace very fine grained pyrite.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1803	90	**CLAYSTONE:** Light olive grey, light grey, soft to firm, sub-blocky, locally silty to 10%, micromicaceous, rare carbonaceous material.		-	-	-	-	-	-
	10	**SANDSTONE:** Loose quartz, as above.	FIP	-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
1810	40	**SILTSTONE:** Light olive grey, firm, sub-blocky, trace carbonaceous material as specks and laminae.		-	-	-	-	-	-
	10	**SANDSTONE:** Loose quartz, as above.	FIP	-	-	-	-	-	-
	50	**CLAYSTONE:** Light olive grey, light grey, medium grey, soft to firm, sub-blocky, micromicaceous, rare carbonaceous material, trace disseminated pyrite.		-	-	-	-	-	-
		Calcimetry: Calcite: 0.3% Dolomite: 0.1%							
		311 mm (12.25”) hole section reached TD of 1810 mMDRT at 1900 hours on 04 May 2008.							

Attachment 11

Daily Geological Reports

Report No. 01

REPORT PERIOD: 00:00 – 24:00 hrs, 24/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	125.0 mMDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	0 mMDRT
SPUD DATE:	24/04/2008 @ 04:15 hrs	**LAST CSG/LINER: (mMDRT)**	762mm (30") @ 122.0	**24HR. PROGRESS:**	125.0 mMDRT
DAYS FROM SPUD:	0.82	**MW (SG):**	1.06	**LAST SURVEY:**	0° @ 125m (Anderdrift)
BIT SIZE:	660mm (26") w/ 914 mm (36") HOP	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to make up 914mm (36") BHA. Ran in and tagged seabed @ 77.5m MDRT. Spud West Seahorse-3 at 04:15hrs. Drilled 914mm (36") hole from 77.5m to section TD at 125m. Pumped 200 bbl sweep to clean the hole and then displaced well with inhibited mud. Made a wiper trip back to the mudline. No fill seen on bottom. Displaced hole with inhibited mud. POOH. Rigged up and ran 762mm (30") conductor pipe to 122m. Suspended conductor at the CTU and rough cut the conductor 2m above the ICON clamp. Laid out top 2 joints of conductor. Rigged down casing running equipment.
CURRENT STATUS @ 06:00HRS: (25-04-2008)	Measuring (strapping) drill string while tripping out of hole after tagging the landing collar in 30" conductor.
EXPECTED NEXT ACTIVITY:	Make final cut on conductor above CTU. Install diverter and tension up conductor. Make up 445mm (17.5") directional BHA. RIH and drill ahead.

Cuttings Descriptions

DEPTH (MMDRT) Top	DEPTH (MMDRT) Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	BG GAS (%) Max.
			Drilled riserless – all returns to seabed.	-	-

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG

Mud Data @ 125 m

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
Seawater with PHG sweeps	1.02	110	13 / 56	-

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	74	39	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80	45				
Lakes Entrance Formation	959	860				
Top Latrobe Group						
- Gurnard Formation	1523	1357				
- Top N1	1567	1400				
- Top N2.3	1636	1468				
- Top N2.6	1657	1489				
- Top P1	1688	1520				
Total Depth	1871	1700				

*Prognosed depth (MDRT) assumes a RT elevation of 35m above MSL and is based on Directional Plan West Seahorse-3 Rev 05.

Comments

Wellsite Geologist on board on 24 April 2008.

Mudlogging crew change: 2 x Mudloggers on board on 24 April 2008.
Schlumberger D&M crew (2 x DD and 2 x MWD Engineers) on board 24 April 2008.

Final co-ordinates received for West Seahorse-3. The well is 4.35m @ 17.79°T from the intended location.

No LWD or Wireline tools on board as yet.

Report No. 02

REPORT PERIOD: 00:00 – 24:00 hrs, 25/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	125.0 mMDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	125.0 mMDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	762mm (30") @ 122.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	1.82	**MW (SG):**	1.06	**LAST SURVEY:**	0° @ 125.0m (Anderdrift)
BIT SIZE:	444 mm (17.5")	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Ran in with cement stinger and stung into conductor shoe. Cemented conductor in place (ROV observed returns to seabed during cement job). POOH with cement stinger. Ran in with 660mm (26") bit on drill pipe and tagged landing collar inside conductor at expected depth. Picked up the wellhead assembly and installed an adjuster nut. Laid out the wellhead assembly. Made final cut and dress on conductor pipe at 3.18m above CTU after confirming space out for diverter. Laid out pipe stub. Installed and function tested diverter and tensioned up conductor. Commenced making up 444mm / 17.5" directional BHA.
CURRENT STATUS @ 06:00HRS: (26-04-2008)	Drilling ahead in 444mm (17.5") hole at 143 mMDRT
EXPECTED NEXT ACTIVITY:	Drill ahead 444mm (17.5") hole.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
			Drilled riserless – all returns to seabed	-	-

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG

Mud Data @ 125 m

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.03	40	4 / 14	10,000

(Note - PHB mud is for the 444mm / 17.5" hole section)

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	
Flow Rate Range for Pulser Configuration	

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	74	39	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80	45				
Lakes Entrance Formation	959	860				
Top Latrobe Group						
- Gurnard Formation	1523	1357				
- Top N1	1567	1400				
- Top N2.3	1636	1468				
- Top N2.6	1657	1489				
- Top P1	1688	1520				
Total Depth	1871	1700				

*Prognosed depth (MDRT) assumes a RT elevation of 35m above MSL and is based on Directional Plan West Seahorse-3 Rev 05.

Comments

BHI has calibrated all Gas detection equipment.

Report No. 03

REPORT PERIOD: 00:00 – 24:00 hrs, 26/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	768.0 mMDRT 725.1 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	125.0 mMDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	762mm (30") @ 122.0	**24HR. PROGRESS:**	643.0 mMDRT
DAYS FROM SPUD:	2.82	**MW (SG):**	1.10	**LAST SURVEY:**	27.59° @ 740.9m MDRT, 61.96° Azi, 701.3 mTVDRT
BIT SIZE:	444 mm (17.5")	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY: Completed making up 444mm / 17.5" directional BHA. RIH and tagged top of shoe at 121m MDRT. Drilled out shoe and rathole to 125m MDRT. Displaced hole to pre-hydrated bentonite gel (PHG) mud system. Drilled ahead in 444 mm (17.5") hole from 125 mMDRT to 768.0 mMDRT, rotating and sliding as needed to meet directional requirements.

CURRENT STATUS @ 06:00HRS: (27-04-2008) Drilling ahead in 444mm (17.5") hole at 924 mMDRT (863 mTVDRT). Survey at 888.2m MDRT, 27.56°, 61.95° Azi, 831.8m TVDRT.

EXPECTED NEXT ACTIVITY: Drill ahead 444mm (17.5") hole to section TD at approx 1130m MDRT.

Cuttings Descriptions

DEPTH (MMDRT) Top	DEPTH (MMDRT) Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	BG GAS (%) Max.
125	768	15.81 min – 108 max 67.0 (Ave)	LOOSE SAND: (90 – 5%) Abundant fine to medium, sub angular to angular and rounded fine in part, abundant translucent to transparent, common orange, yellow, rose, trace black carbonaceous material. CALCARENITE: (80 – 10%) Mottled very pale orange to white, hard, fine, translucent to transparent, sub angular quartz, common fine muscovite and biotite flakes, microforaminifera with glauconite-replaced cement, trace fine shell fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain to grain contacts, poor visible porosity. SHELL FRAGMENTS: (80 – 5%) very coarse to granular < 5 mm and abundant to common fine, abundant bivalves, bryozoans, gastropods, minor echinoderms, abundant to occasional micro-foraminifera. SANDSTONE: (80 – 5%) Light olive grey to olive grey, friable to moderately hard in part, abundant very fine to fine, sub angular quartz and fine shell fragments, minor black lithics, highly calcareous, moderately well cemented, good visible porosity.	0.0012	0.0019

Gas Data

Depth (mMDRT)	Type	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
125 - 768	BG	0.0012 – 0.0019	1-8	-	-	-	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
125 – 768		No shows						

Mud Data @ 768 m

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.10	48	8 / 24	18,000

Note: Mud weight was 1.06 SG to 237 mMDRT then steadily increased to 1.1 – 1.2 SG while drilling ahead.

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	Telescope (D&I only)
Sub Type	MWD
Memory Sample Rate (sec)	N/A
Bit to Sensor Offset (m)	26.56 m
Flow Rate Range for Pulser Configuration	600 – 1200 GPM

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0				
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

Kick off point for 444 mm (17.5”) hole was at 172 m MDRT. End of build at 465m MDRT.
At midnight the actual well path was approximately 6m from the planned trajectory.

Schlumberger D&M installed laptop screen in BHI mud logging unit.

Report No. 04

REPORT PERIOD: 00:00 – 24:00 hrs, 27/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVD
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	768 mMDRT 725.1 mTVD
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	762mm (30") @ 122.0	**24HR. PROGRESS:**	355 mMDRT
DAYS FROM SPUD:	3.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVD
BIT SIZE:	444 mm (17.5")	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Drilled ahead in 444 mm (17.5") hole from 768 mMDRT to 1123 mMDRT (section TD), rotating and sliding as needed to meet directional requirements. Circulated the hole clean. Commenced POOH from 1123m to 1070m, back-reaming and working through tight spots from 1082m to 1076m MDRT.
CURRENT STATUS @ 06:00HRS: (28-04-2008)	POOH with 444 mm (17.5") BHA to surface.
EXPECTED NEXT ACTIVITY:	Finish POOH. Rig up and run 340 mm (13 3/8") casing. Cement casing in place. Lay out remaining 444mm (17.5") BHA.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
768	880	20 - 76 (35.9 Avg)	CALCARENITE: (60-85%) white to light olive grey, moderately hard to hard, recrystallised, very fine to fine and medium in part, angular to sub angular, translucent, pale yellow to occasional orange, trace black lithics, minor microforaminifera with glauconite replaced cement, trace fine skeletal fragments, highly calcareous, well cemented, inferred calcite cement in part and recrystallised grain to grain contacts, poor visible porosity. CALCILUTITE: (Trace-15%) White to olive grey, soft, fine to medium, sub angular quartz, common fine shell fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix. SKELETAL FRAGMENTS: (10-15%) abundant foraminifera, white and bluish black sponge spicules, echinoderms. SANDSTONE: (10%) Translucent to white, very hard recrystallised, fine to medium in part, sub angular quartz, slightly to moderately calcareous, fine white inferred calcite cement in part, poor visible porosity. LOOSE SAND: (Trace-10%) Translucent to transparent, very coarse to granular < 2 mm and very fine, sub rounded quartz.	.0009	.001

Cuttings Descriptions (Cont.)

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
880	1060	9 – 38	CALCARENITE: (30-60%) as above. CALCILUTITE: 25-60%) as above. LOOSE SAND: (5-25%) as above. CALCISILTITE: (15%) Light to olive grey to olive grey, firm to soft in part, common very fine, silt sized, transparent, sub angular quartz, trace black flecks (possible biotite), trace muscovite, trace skeletal material, argillaceous matrix. SKELETAL FRAGMENTS: (Trace-15%) as above. SANDSTONE: (Trace-10%) as above. **(Tentative top of Lake Entrance Fm @ 885 mMDRT)**	.0009	.007
1060	1123	10 – 20	CALCISILTITE: (45-65%) Light to olive grey to olive grey, firm to soft in part, common very fine, silt sized, transparent, sub angular quartz, trace black flecks (possible biotite), trace muscovite, trace skeletal material, argillaceous matrix. CALCILUTITE: (20–45%) White to olive grey, soft, fine to medium, sub angular quartz, common fine skeletal fragments, common foraminifera, trace medium green glauconite, highly calcareous, weak silty matrix and grading to a CALCISILTITE in part. CALCARENITE: (5-20%) as above. SKELETAL FRAGMENTS: (Trace – 5%) as above. LOOSE SAND: (Trace) as above.	.006	.06

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
768-880	BG	0.001-0.0009	3-7	-	-	-	-	-	-
880-1060	BG	0.007-0.0009	2-44	0-8	0-2	0-1	-	-	-
1060-1123	BG	0.06-0.002	12-52	1-4	0-2	0-1	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
768 - 1123		No show						

Mud Data @ 1063 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl^- (mg/l)
PHB	1.13	38	7/23	17,000

Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	Telescope (D&I only)
Sub Type	MWD
Memory Sample Rate (sec)	N/A
Bit to Sensor Offset (m)	26.56
Flow Rate Range for Pulser Configuration	600 – 1200 GPM

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	865	773.3	86.7 H	Tentative pick based on change in ROP and slight lithologic change
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

BHI set up to run Calcimetry testing from 960 mMDRT and will cover previous samples between 125 m and 960 mMDRT during the 13 3/8" casing run. Calcimeter calibrated to 14.63 psi using 1g of $CaCO_3$ and 20% HCl acid.

Actual well path is 2.50m to the right of the line, 4.5m below the line. Centre to centre is 5.25m at 1094.42 mMDRT (1014 mTVDRT).

Report No. 5

REPORT PERIOD: 00:00 – 24:00 hrs, 28/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	762mm (30") @ 122.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	4.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVDRT
BIT SIZE:	N/A	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to POOH with 444mm (17.5") BHA from 1070m to surface, working string through several tight spots between 994m and 543mMDRT (up to 35 kips overpull). Laid out 209mm (8¼") drill collars, 444mm (17.5") bit and stabiliser. Made up jetting assembly. Ran in to 87m and jetted the landing collar. POOH. Rigged up to run 340mm (13 3/8") casing. Made up casing shoetrack joints and checked float. Ran casing to 854m MDRT.
CURRENT STATUS @ 06:00HRS: (29-04-2008)	Picking up wellhead assembly to make up on 340 mm (13 3/8") casing.
EXPECTED NEXT ACTIVITY:	Land out 340 mm (13 3/8") casing. Circulate hole clean and cement casing in place. Prepare to install BOP stack.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.

No drilling during this 24 hour period

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
125-140*	21.9	16.7	**38.6**	620-640	76.9	6.2	**83.1**
160	48.5	16.5	**65**	660	82.5	7.5	**90.0**
180	60.8	16.4	**77.2**	680	81.0	8.2	**89.2**
200	82.2	0.2	**82.4**	700	81.3	9.6	**90.9**
220	58.3	0.3	**58.5**	720	82.6	13.6	**96.2**
240	55.0	6.0	**61.0**	740	64.1	9.9	**74.0**
260	64.3	6.2	**70.5**	760	63.2	5.5	**68.7**
280	56.0	0.5	**56.5**	780	67.3	6.2	**73.5**
300	57.4	0.5	**57.9**	800	69.0	4.8	**73.8**
320	75.8	0.8	**76.6**	820	68.4	5.8	**74.2**
340	71.7	7.3	**79.0**	840	71.1	3.8	**74.9**
360	64.3	5.9	**70.2**	860	62.9	4.4	**67.3**
380	84.9	12.8	**97.7**	880	66.3	4.5	**70.8**
400	86.7	5.7	**92.4**	900	67.0	3.4	**70.4**
420	78.8	9.8	**88.6**	920	68.4	6.8	**75.2**
440	88.5	4.4	**92.9**	940	75.9	7.1	**83.0**
460	85.2	5.8	**91.0**	960	45.5	8.2	**53.7**
480	82.5	5.5	**88.0**	980	69.7	4.4	**74.1**
500	87.3	7.7	**95.0**	1000	70.1	10.0	**80.1**
520	88.9	3.9	**92.8**	1020	62.7	11.6	**74.3**
540	92.3	0.6	**92.9**	1040	53.1	10.0	**63.1**
560	88.9	6.8	**95.7**	1060	55.3	9.7	**65.0**
580	88.9	6.9	**95.8**	1080	59.1	11.5	**70.6**
600	85.1	6.5	**91.6**	1100	53.0	6.3	**59.3**
600-620	75.3	5.5	**80.8**	1100-1120	53.0	8.4	**61.4**

*20m sample interval. First sample 15m only.

Mud Data @ 1123 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.13	40	5/15	16,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

A revised pick for the Lake Entrance Formation top is provided in the Provisional Formation Tops table above.

BHI have completed calcimetry results for 444mm (17.5") hole section to 1123 mMDRT.

Schlumberger D&M LWD equipment for the 12.25" hole section is due on location on the *Pacific Valkyrie* on Tuesday (29 April).

Schlumberger Wireline tools will be loaded on the *Pacific Battler* in Geelong on Wednesday. Petrotech (Expro) gear for MDT sample transfer will also be on this boat.

Report No. 6

REPORT PERIOD: 00:00 – 24:00 hrs, 29/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	5.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVDRT
BIT SIZE:	N/A	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued running 340mm (13 3/8") casing to 1091m MDRT. Made up wellhead assembly to casing. Hole sticky while lowering wellhead. Made up TDS and circulated and reciprocated the casing string until hole condition improved. Washed casing down to 1115m MDRT. Made up cement head and landed out casing in MLS hanger with shoe at 1117.0m MDRT. Circulated hole clean and then cemented casing in place (did not bump plug, floats held). Wellhead running tool would not come free. Made up TDS and made another attempt to back out – running tool came free with 15 kips overpull. Pulled running tool to surface with wellhead still attached. String backed-off at first 340mm (13 3/8") BTC connection below the wellhead. Laid out landing string and wellhead. Displaced riser to seawater. Rigged up to pull diverter.
CURRENT STATUS @ 06:00HRS: (30-04-2008)	Laying down 444mm (17.5") BHA.
EXPECTED NEXT ACTIVITY:	RIH to retrieve 340mm (13 3/8") landing string above the mudline hanger. Re-run the 13 3/8" casing landing string and screw back into 340mm (13 3/8") mudline hanger. Retrieve wellhead running tool. Run BOP stack.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.

No drilling during this 24 hour period

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1091 / 1115*	BG	0.0005-0.0006	-	-	-	-	-	-	-
1123**	BG	0.0005-0.0009	-	-	-	-	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

*Circulating back-ground gas while washing casing to bottom and circulating prior to cement job.
** Circulating back-ground gas while cementing (Maximum gas 0.0009%).

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1123 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.13	40	5/15	16,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

3D Oil geologist, Wen Long Zang came on board the West Triton 29 April 2008.

MSE data has been added to the Drill Log and Drill ASCII file.

Schlumberger D&M LWD tools (Powerpulse and GVR8 with back-up ARC8 tool) for the 12¼" hole section are on board.

Report No. 7

REPORT PERIOD: 00:00 – 24:00 hrs, 30/04/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	6.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVDRT
BIT SIZE:	N/A	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to lay out diverter assembly. Picked up wellhead assembly, broke out running tool and inspected the connection. Made up running tool to wellhead and function tested the tool – OK. Laid out wellhead assembly. Laid out mud motor and excess 444mm (17.5") BHA. Made up 340mm (13 3/8") waterhead bushing on drillpipe and RIH. Screwed into top of landing string and continued to turn right until indications that string had possibly backed out of MLS running tool. POOH and recovered 2 joints of 340mm (13 3/8") casing. Made up 340mm (13 3/8") casing spear and bumper sub. RIH with casing spear and latched onto fish at 48.19m after seven attempts. Backed out MLS running tool from landing ring. Pulled back to surface, recovering all remaining joints of 340mm (13 3/8") casing and MLS running tool. Unable to disengage spear from damaged casing. Laid out bumper sub and crossover.
CURRENT STATUS @ 06:00HRS: (01-05-2008)	RIH with MLS running tool and 340mm (13 3/8") landing string.
EXPECTED NEXT ACTIVITY:	Re-run the 340mm (13 3/8") casing landing string. Re-run wellhead. Install BOP stack.

Cuttings Descriptions

DEPTH (MMDRT)		ROP (M/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.

No drilling during this 24 hour period

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1123 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.13	40	5/15	16,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

Calcimetry data has been added to the Mudlogs.

Report No. 8

REPORT PERIOD: 00:00 – 24:00 hrs, 01/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	7.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVDRT
BIT SIZE:	N/A	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to recover fished 340mm (13 3/8") landing string and MLS running tool. Picked up back-up MLS running tool. Ran back in with MLS running tool and 340mm (13 3/8") landing string. Made up wellhead assembly to landing string and washed down to the mudline hanger. Engaged threads and made up landing string onto MLS hanger. Attempted to pressure test 340mm (13 3/8") casing/MLS hanger to 2500 psi but only able to hold 1200 psi. Made up adjustable landing ring on wellhead. Backed-out and laid down wellhead running tool. Installed and nippled up BOP stack on Texas deck. Prepared to run Diverter.
CURRENT STATUS @ 06:00HRS: (02-05-2008)	Pressure testing BOP.
EXPECTED NEXT ACTIVITY:	Complete pressure testing the BOP stack. Make up 311mm (12.25") BHA. Run in and drill out cement shoe track. Conduct FIT. Drill ahead.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
No drilling during this 24 hour period					

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1123 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.13	40	5/15	16,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

Wellsite Geologist, Dennis Archer, due on board 2 May 2008.

Report No. 9

REPORT PERIOD: 00:00 – 24:00 hrs, 02/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Dennis Archer, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1123 mMDRT 1040 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	8.82	**MW (SG):**	1.13	**LAST SURVEY:**	27.05 @ 1094.4m MDRT, 63.32° Azi 1014.8 mTVDRT
BIT SIZE:	N/A	**LAST LOT (SG):**	N/A	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Completed pressure testing the BOP stack and surface equipment. Installed wear bushing in the wellhead. Made up 311mm (12.25") rotary steerable BHA. Ran in hole. Performed shallow test on LWD tools. Pressure tested lower pipe rams. Continued to run in hole from 200m and tagged up on cement at 285 mMDRT. Connected Top Drive System. Washed and reamed down through patchy cement to 468m MDRT.
CURRENT STATUS @ 06:00HRS: (03-05-2008)	Drilling on float collar at 1104 mMDRT.
EXPECTED NEXT ACTIVITY:	Drill out shoe track. Drill 3 metres of new hole, conduct FIT. Directionally drill ahead in 311mm (12.25") hole section.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
No drilling of new formation during this 24 hour period					

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1123 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
PHB	1.13	40	5/15	16,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	RAB8-Telescope		
Sub Type	GR (Gamma)	Resistivity	Survey (D&I)
RT Memory Sample Rate (sec)	1 sec	5 sec	N/A
Bit to Sensor Offset (m)	10.49	10.75 / 10.96 / 11.13 / 11.26	17.32
Flow Rate Range for Pulser Configuration	600 – 1200 gpm		

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

LWD: Shallow pulse test OK.

Mudlogging: Gas detection equipment calibrated 2 May 08.

Report No. 10

REPORT PERIOD: 00:00 – 24:00 hrs, 03/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Dennis Archer, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1392 mMDRT 1280.5 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1123 mMDRT 1040 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	269 m
DAYS FROM SPUD:	9.82	**MW (SG):**	1.13	**LAST SURVEY:**	28.20 @ 1362.3 m MDRT, 62.55° Azi 1253.7 mTVDRT
BIT SIZE:	N/A	**LAST FIT (SG):**	1.64	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to wash and ream through patchy cement inside casing from 468m to top of plugs at 1103m MDRT. Drilled out plugs and float collar from 1103m to 1104m MDRT. Displaced hole to new mud system while drilling on plugs. Drilled out ratty cement inside shoe track. Drilled out casing shoe to 1117m and cleaned out rathole to 1123m MDRT. Drilled 3 metres of new hole to 1126m MDRT. Conducted FIT to 1.64 SG (13.65 ppg) EMW – no leak-off. Directionally drilled ahead in 311mm (12.25") hole section from 1126m to 1392m MDRT.
CURRENT STATUS @ 06:00HRS: (04-05-2008)	Circulating bottoms up at 1559 mMDRT after detecting and investigating possible pit gain.
EXPECTED NEXT ACTIVITY:	Directionally drill ahead in 311 mm (12.25") hole section to well TD.

Cuttings Descriptions

DEPTH (MMDRT) Top	Btm	ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%) Ave.	Max.
1123	1230	15.0-91.9 (41.1)	**CALCILUTITE:** Medium dark grey to olive grey to dark greenish grey, soft to firm to moderately hard, sub-blocky, grading locally silty, trace shell fragments, trace micromicas, trace carbonaceous specks, trace calcareous CLAYSTONE (increasing with depth).	0.0032	0.0057
1230	1380	26.1-73.7 (57.7)	**CALCAREOUS CLAYSTONE:** Medium grey, olive grey, dark greenish grey, soft to firm, sub-blocky to rarely sub-fissile, 40-20% calcareous clay with depth, nil to trace micromicaceous, trace carbonaceous material, nil to trace very fine grained disseminated pyrite, nil to trace-5% glauconite.	0.0037	0.0113

Gas Data

Depth (mMDRT)	Type	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1123-1230	BG	0.0018-0.0057 (0.0032)	21	-	-	-	-	-	-
1230-1380	BG	0.0020-0.0113 (0.0037)	22	-	-	-	-	-	-
1345-1353	P	0.113	41	7	1	-	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
1123-1380		Trace	Mineral only				N/A	0.0035

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1392 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
KCl/PHPA	1.13	48	11 / 26	41,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	RAB8-Telescope		
Sub Type	GR (Gamma)	Resistivity	Survey (D&I)
RT Memory Sample Rate (sec)	1 sec	5 sec	N/A
Bit to Sensor Offset (m)	10.49	10.75 / 10.96 / 11.13 / 11.26	17.32
Flow Rate Range for Pulser Configuration	600 – 1200 gpm		

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0				
- Top N1	1559.4	1399.5				
- Top N2.3	1628.8	1468.0				
- Top N2.6	1650.0	1489.0				
- Top P1	1681.4	1520.0				
Total Depth	1863.8	1700.0				

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

Carbide lag check at 1321 mMDRT, hole size 325mm / 12.8” equivalent.

Actual well path is 2.50m to the left of the line, 4.5m below the line. Centre to centre is 5.15m at 1392 mMDRT (1280.5 mTVDRT).

Mud Properties 0416 hrs (Bit at 997 mMDRT)

K	4.4	%	
Rmf	0.0889	@	18.5°C
Rm	0.097	@	19.0°C
Rmc	0.167	@	19.4°C

Mud Properties 1637 hrs (Bit at 1014 mMDRT)

K%	3.9059	%	
Rmf	0.1052	@	19.1°C
Rm	0.1086	@	19.5°C
Rmc	0.1101	@	19.9°C

Wireline crew on board. All tools and back-up tools have been ops checked.

Report No. 11

REPORT PERIOD: 00:00 – 24:00 hrs, 04/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Dennis Archer, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1810 mMDRT 1684.1 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1392 mMDRT 1280.5 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	418 m
DAYS FROM SPUD:	10.82	**MW (SG):**	1.16	**LAST SURVEY:**	8.75° @ 1789.3 m MDRT, 55.97° Azi 1663.7 mTVDRT
BIT SIZE:	N/A	**LAST FIT (SG):**	1.64	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Directionally drilled 311 mm (12.25") hole to 1559m MDRT. Driller observed possible pit gain. Shut well in – no pressure. Flow checked – negative. Circulated bottoms up with maximum gas of 0.13%. Directionally drilled 311mm (12.25") hole to well TD at 1810m MDRT. Circulated hole clean. Commenced pulling out of hole to run logs.
CURRENT STATUS @ 06:00HRS: (05-05-2008)	Laying out 311 mm (12.25") BHA
EXPECTED NEXT ACTIVITY:	Lay out LWD tools, download recorded data offline. Rig up Schlumberger equipment and conduct wireline logging as per program.

Cuttings Descriptions

DEPTH (MMDRT)		ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	**Btm**			**Ave.**	**Max.**
1380	1462	22-67 (50)	**CLAYSTONE:** Medium dark grey, dark greenish grey, medium grey in part, soft to firm, sub-blocky, 10% calcareous clay, trace micromica.	0.0073	0.0116
1462	1500	34-67 (51)	**CLAYSTONE:** Medium light grey, olive grey, soft to firm, sub-blocky, rarely sub-fissile, 15% calcareous clay, 5-30% glauconite, rare foraminifera, trace very fine grained pyrite aggregates.	0.01	0.015
1500	1535	9-40 (28)	**INTERBEDDED SILTSTONE AND CLAYSTONE** **SILTSTONE (0-90%):** Brownish grey, very soft to soft, sub-blocky, 30% glauconite, 10% calcareous clay, trace shell fragments, trace very fine grained pyrite aggregates. **CLAYSTONE (10-100%):** Brownish grey, medium light grey, very soft to soft, rarely firm, 10% calcareous clay, 15-0% glauconite with depth.	0.016	0.0461

Cuttings Descriptions (Cont.)

DEPTH (MMDRT)		ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
1535	1710	3-61 (41)	**INTERBEDDED SANDSTONE AND SILTSTONE, OCCASIONAL COAL INTERBEDS AND MINOR CLAYSTONES.** **SANDSTONE (10-100%):** Loose quartz grains, light grey, predominantly opaque, in part clear and translucent, in part dark yellowish brown, predominantly medium to granular, grading very fine to granular, angular (shattered) to sub-angular to sub-rounded, variably poor to moderately well sorted, white clay matrix adhering to grains surfaces and washing out, 5% siliceous cement, trace very fine grained pyrite as aggregates and cement, poor to good visual porosity inferred. Local aggregates, translucent to white, hard, medium to fine grained, sub-angular to angular, moderately sorted, well siliceous cemented, inferred calcite cement in part, recrystallised in part, poor to fair visual porosity. **SILTSTONE (30-70%):** Olive grey to dark olive grey, soft to firm and hard in part, blocky to sub blocky, abundant black carbonaceous material, trace to minor fine micaceous flecks, trace cryptocrystalline pyrite, trace loose medium pyrite nodules. **COAL (0-60%):** Black, dark brownish black in part, blocky, cleated, sub conchoidal fracturing in part, predominantly bright, traces very fine grained disseminated pyrite in part. **CLAYSTONE (Trace-30%):** Medium light grey, soft to firm, sub-blocky, trace glauconite.	0.0502	0.3001
1710	1810	15-67 (36)	**INTERBEDDED SANDSTONE, SILTSTONE, CLAYSTONE AND COAL INTERBEDS.** **SANDSTONE (20-80%):** Light grey, opaque, in part clear, loose quartz grains, predominantly medium grained, grading fine grained to granular, sub-angular to sub-rounded, moderately sorted, clay matrix washing out, trace very fine grained pyrite aggregates and cement, inferred fair visual porosity **SILTSTONE (20-50%):** Olive grey, pale yellowish brown, soft, amorphous to sub-blocky, traces carbonaceous material**.** **CLAYSTONE (10-70%):** Light olive grey, light grey, medium grey, soft to firm, sub-blocky, micromicaceous, rare carbonaceous material, traces disseminated pyrite. **COAL (0-30%):** Black, greenish black, brittle to moderately hard, cleated to platy, earthy to bright, in part with conchoidal fracture.	0.013	0.0221

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1380-1462	BG	0.003-0.0116 (0.007)	57	1	-	-	-	-	-
1462-1500	BG	0.006-0.015 (0.01)	83	1	-	-	-	-	-
1500-1535	BG	0.007-0.046 (0.02)	113	4	2	-	-	-	-
1534	P	0.0429	344	16	12	3	2	1	-

Gas Data (Cont.)

Depth (mMDRT)	Type	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1535-1710	BG	0.0116-0.300 (0.05)	246	16	14	4	5	3	3
1542	P	0.273	614	41	27	9	9	6	4
1565	P	0.300	1193	80	95	48	52	35	30
1591	P	0.104	1021	43	19	6	7	7	6
1710-1810	BG	0.008-0.022 (0.01)	23	1	3	1	-	1	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
1380-1567	Nil	Trace	Mineral only				0.0429 0.2725 0.3001	0.0087
1560-1578	Nil	Tr bri yel – pl yel		Slw to mod fast strmng bri blu- wh		Thn, ptchy, br blu -yel		0.0502
1596-1602	Nil	Tr bri - pl yel		-		-	0.1040	0.0502
1650-1710	Nil	Tr-5% bri pl yel		V slw strmng bri blu-wh		Thn, wk bri blu-yel		0.0502
1710-1734	Dk brn-blk stain on some grains	Nil		-		-		0.0130

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1810 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
KCl/PHPA	1.16	44	10/25	36,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	RAB8-Telescope		
Sub Type	GR (Gamma)	Resistivity	Survey (D&I)
RT Memory Sample Rate (sec)	1 sec	5 sec	N/A
Bit to Sensor Offset (m)	10.49	10.75 / 10.96 / 11.13 / 11.26	17.32
Flow Rate Range for Pulser Configuration	600 – 1200 gpm		

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0	1462.0	1305.5	51.5 H	Lithology change, resistivity increase
- Top N1	1559.4	1399.5	1559.4	1398.6	0.9 H	Lithology
- Top N2.3	1628.8	1468.0	1628.8	1466.2	1.8 H	LWD
- Top N2.6	1650.0	1489.0	1659.0	1496.9	7.9 L	LWD
- Top P1	1681.4	1520.0	1684.0	1521.6	1.6 L	LWD
Total Depth	1863.8	1700.0	1810.0	1646.1		

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

Wireline: Main tools checked OK. No backup tools for PEX run. Sufficient spares available if repairs necessary on MDT and/or MSCT.

Petrotech: Rigging up.

TD of 1810 mMDRT reached at 1900 hours 4 May 2008.

Mud Properties 0453 hrs (Bit at 1644 mMDRT)

K	3.78	%	
Rmf	0.1015	@	18.7°C
Rm	0.1167	@	19.0°C
Rmc	0.22	@	19.1°C

Mud Properties 1643 hrs (Bit at 1750 mMDRT)

K%	3.82	%	
Rmf	0.1086	@	22.0°C
Rm	0.1203	@	22.0°C
Rmc	0.1666	@	22.4°C

Report No. 12

REPORT PERIOD: 00:00 – 24:00 hrs, 05/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Dennis Archer, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1810 mMDRT 1684.1 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1810 mMDRT 1684.1 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	11.82	**MW (SG):**	1.16	**LAST SURVEY:**	8.75° @ 1789.3 m MDRT, 55.97° Azi 1663.7 mTVDRT
BIT SIZE:	N/A	**LAST FIT (SG):**	1.64	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:	Continued to pull out of hole from 1530m MDRT to surface, racking BHA in the derrick. Laid out Schlumberger D&M rotary steerable tools and LWD tools and downloaded recorded data offline. Rigged up Schlumberger wireline for Suite #1 (TD Logging). Conducted Run #1: PEX-HRLT-BHC. Unable to pass 1775m (HUD, Logger) despite several attempts to work tools past. Logged out main pass from 1775m to casing shoe. Logged GR to surface through casing. Rigged down Run #1 tools. Rigged up and ran in with Run #2: MDT-GR configured for pretests and pump-out/sampling. Completed 27 pretest stations by midnight (see "Comments" below).
CURRENT STATUS @ 06:00HRS: (06-05-2008)	Rigging down operations from Suite #1, Run #2: MDT-GR and preparing for sample transfer to Petrotech chambers (offline).
EXPECTED NEXT ACTIVITY:	Rigging up tools for final wireline run (MCST-GR).

Cuttings Descriptions

DEPTH (MMDRT)		ROP (M/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.

No drilling during this 24 hour period.

Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Oil Show

Depth (mMDRT)	Oil stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
N/A							

Mud Data @ 1810 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
KCl/PHPA	1.16	45	10/25	36,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type	N/A
Sub Type	
RT Memory Sample Rate (sec)	
Bit to Sensor Offset (m)	

Flow Rate Range for Pulser Configuration

Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.49	2.51 H	Tentative pick based on change lithology and calcimetry results
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0	1462.0	1305.5	51.5 H	Lithology change, resistivity increase
- Top N1	1559.4	1399.5	1559.4	1398.6	0.9 H	Lithology
- Top N2.3	1628.8	1468.0	1628.8	1466.2	1.8 H	LWD
- Top N2.6	1650.0	1489.0	1659.0	1496.9	7.9 L	LWD
- Top P1	1681.4	1520.0	1684.0	1521.6	1.6 L	LWD
Total Depth	1863.8	1700.0	1810.0	1646.1		

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

Comments

2 BHI Mudloggers left the Rig 05 May 08

Wireline Logging: Suite 1

Run 1: PEX-HRLT-BHC.

Main log: 1776 – 1117 mMDRT, GR to 100 m. BHT: 68°C.

Repeat section: 1690-1517 mMDRT.

Tool held up at 1775m (Logger) – unable to reach TD.

Run 2 (until midnight): MDT-GR. Attempted 27 points, 22 good tests, 2 tight/low permeability, 2 lost seal, 1 supercharged. Note that one additional pretest was aborted after setting the probe so no pretest information was obtained.

Static mud losses during logging approximately 0.67 bbls/hr.

Mud Resistivity Data:
Rm = 0.113 ohm-m @ 22.6°C
Rmf = 0.101 ohm-m @ 22.2°C
Rmc = 0.166 ohm-m @ 23.0°C

BHT from 3 maximum reading thermometers: 68.0°C, 68.0°C, 69.0°C

Report No. 13

REPORT PERIOD: 00:00 – 24:00 hrs, 06/05/2008

WELLSITE GEOLOGISTS: Mel Ngatai, Dennis Archer, Wen-Long Zang

RIG:	West Triton	**RT-ML (m):**	77.5	**DEPTH @ 24:00 HRS:**	1810 mMDRT 1684.1 mTVDRT
RIG TYPE:	Jack-up	**RT ELEV. (m, AMSL):**	38.0	**DEPTH LAST REPORT :** (@ 24:00 HRS)	1810 mMDRT 1684.1 mTVDRT
SPUD DATE:	24/04/2008 @ 04:15hrs	**LAST CSG/LINER: (mMDRT)**	340mm (13 ⅜") @ 1117.0	**24HR. PROGRESS:**	0 m
DAYS FROM SPUD:	12.82	**MW (SG):**	1.16	**LAST SURVEY:**	8.75° @ 1789.3 m MDRT, 55.97° Azi 1663.7 mTVDRT
BIT SIZE:	N/A	**LAST FIT (SG):**	1.64	**EST. PORE PRESSURE:**	

Operations Summary

24HRS. DRILLING SUMMARY:

Continued with TD wireline logging operations, Run #2: MDT-GR. Performed pump-outs at 1638m (aborted as too tight) and 1638.5m for reservoir fluid ID. Performed pump-out at 1567m and filled 4 x MPSR chambers with clean reservoir fluid (segregated samples). Attempted a further 5 pressure pretests above 1567m, no valid pressures, 2 lost seals, 2 tight, 1 supercharged point. POOH and rigged down MDT-GR (**see "Comments" below**). Transferred 3 x MPSR fluid samples to Petrotech chambers (offline). Rigged up Run #3 MCST-GR. Ran in hole. Unable to obtain any cores (made 3 attempts) due to a tool mechanical failure. Pulled out of hole with MCST-GR to check the tool. Tool was jammed with cuttings preventing its operation. Serviced the MSCT tool and ran back in hole for Run #4: MCST-GR. Cut 14 cores between 1561.5m and 1694m (12 cores recovered at surface). Pulled out of hole and rigged down Schlumberger wireline equipment. Made up mule shoe on drill pipe and tripped in hole to 1565m MDRT.

CURRENT STATUS @ 06:00HRS: (07-05-2008)

Cementing second stage of bottom cement plug.

EXPECTED NEXT ACTIVITY:

Continue well suspension operations as per program.

Cuttings Descriptions

DEPTH (MMDRT)		ROP (M/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.

No drilling during this 24 hour period.

Gas Data

Depth (mMDRT)	Type	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1770*	BG	0.006-0.008	-	-	-	-	-	-	-
1567**	P	1.09	2994	200	250	161	176	158	137
1770***	BG	0.04-0.06	-	-	-	-	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, *P-Pumps off, SWG-Swab Gas

Notes:
*Circulating back-ground gas level prior to peak.
****Peak recorded while CBU prior to setting cement plug #1A. Gas peak arrival was lagged to the MDT pump-out station depth in the N1 reservoir.**
***Circulating back-ground gas level after the gas peak.

Oil Show

Depth (mMDRT)	Oil Stain	Fluor% / Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
N/A								

Calcimetry Data

Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)	Sample Depth (mMDRT)	Calcite (%)	Dolomite (%)	Total Carbonate (%)
1123-1130	47.2	9.5	**56.7**	1518	11.9	6.4	**18.3**
1160	46.5	12.3	**58.8**	1536	5.5	0.6	**6.2**
1180	49.2	8.8	**58.0**	1551	2.1	0.2	**2.3**
1190	47.8	9.0	**56.9**	1560	2.3	0.2	**2.5**
1200	32.5	12.3	**44.8**	1584	2.9	0.7	**3.6**
1220	33.1	9.0	**42.1**	1590	2.1	1.0	**3.0**
1260	41.6	0.8	**42.4**	1608	0.7	0.5	**1.2**
1290	37.7	0.3	**37.9**	1638	0.7	0.6	**1.3**
1320	32.2	1.3	**33.5**	1656	0.7	0.6	**1.3**
1380	19.3	1.5	**20.8**	1674	0.7	0.6	**1.3**
1410	18.8	1.8	**20.6**	1684	0.7	0.1	**0.8**
1440	32.7	1.5	**34.2**	1728	0.7	0.1	**0.8**
1470	28.6	0.8	**29.4**	1748	0.7	0.1	**0.8**
1500	16.5	1.6	**18.0**	1810	0.3	0.1	**0.4**

Note: Sized $CaCO_3$ ("CIRCAL") was added to the mud system during the 12.25" section. These Calcimetry values may therefore be affected by the presence of this mud additive, although screening of cuttings samples suggested that little mud additive contamination was present in general.

Mud Data @ 1810 mMDRT

Mud Type	MW (SG)	Viscosity (sec/qt)	PV / YP	Cl^- (mg/l)
KCl/PHPA	1.16	46	10/24	36,000

Tracer Data

Depth	Type	Concentration	Additions Started (Depth / Date)
N/A			No tracer in use

MWD / LWD Tool Data

Tool Type N/A
Sub Type
RT Memory Sample Rate (sec)
Bit to Sensor Offset (m)
Flow Rate Range for Pulser Configuration

Provisional Final Formation Tops**

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	965.9	860.0	960	857.7	2.3 H	Calcimetry, lithology
Top Latrobe Group						
- Gurnard Formation	1516.1	1357.0	1529.0	1368.9	11.9 L	Wireline Logs
- Top N1	1559.4	1399.5	1562.0	1401.1	1.6 L	Wireline Logs
- Top N2.3	1628.8	1468.0	1637.5	1475.6	7.6 L	Wireline Logs
- Top N2.6	1650.0	1489.0	1660.0	1497.8	8.8 L	Wireline Logs
- Top P1	1681.4	1520.0	1684.0	1521.5	1.5 L	Wireline Logs
Total Depth	1863.8	1700.0	1810.0	1646.1	-	Pipe tally

*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan West Seahorse-3 Rev 06**.

**The “final” tops are based on Wireline Log depths and Final Demag MWD Survey results and may change.

Comments

2 x Anadrill LWD Engineers departed the rig on 06 May 08.

2 x BHI Mudloggers departed the rig on 06 May 08.

2 x WSG and 1 x 3D Oil Geologist will be leaving the rig on 07 May 08.

Wireline Runs:

Run #2: MDT-GR. Attempted 3 pump-out stations. 1 discontinued because of high drawdown pressures. Second pumped out to identify formation fluid. Third station pumped out until clean fluid, collected 4 MPSR samples (3 kept for later analysis). 5 additional pretest pressure points were attempted, 2 lost seal, 2 low permeability/tight, 1 supercharged. **A low level of H_2S gas (10-15ppm) was detected by Draeger tube when the MDT tool vent line was opened at surface. A high concentration of H_2S gas was measured during the MDT sample chamber transfer process (see below)**.

Run #3: MCST-GR. Ran in hole and checked the coring device at casing shoe before running in hole to the first depth correlation point at 1720 – 1640m (logger). No depth correction was required. The first core sample at 1694m was attempted twice but was unsuccessful due to a mechanical failure in the coring device. A third coring attempt was made at the second core depth of 1686m with the same result. The tool was pulled to surface for troubleshooting. The Wellsite Geologist witnessed the tool to surface and confirmed that rock debris and clay had prevented the tool's coring mechanism from opening and therefore Run #3 was declared a misrun. The tool was thoroughly cleaned, re-zeroed at the surface and run back in hole as Run #4

Run #4: MCST-GR: 14 cores were cut between 1561.5m and 1694m (logger). 12 cores were recovered at surface. Note: Rotary core samples were collected in reverse order from shallow to deep.

Static mud losses during logging were approximately 1 bbl/hr.

H_2S and CO_2 Content of MDT Fluid Samples:

The following values were measured by Draeger tube during the sample transfer process:

CO_2 content of all samples was 0%vol.
H_2S was 240ppm, 280ppm and 280ppm for chambers 1 to 3 respectively.

A light coloured oil was present in all 3 sample chambers. The PVT samples will be sent to CoreLab in Perth for further analysis.

This is the FINAL Daily Geological Report for West Seahorse-3.

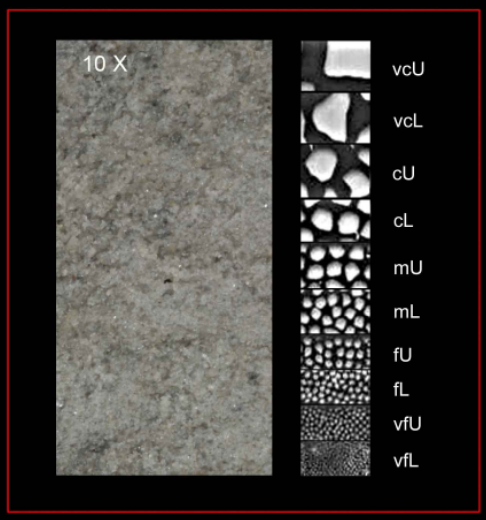
----------END OF REPORT----------

Attachment 12

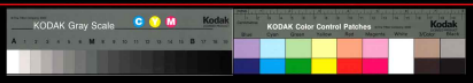
MSCT Photography

MSCT Photography
West Seahorse-3

Sample 3 1564.0m

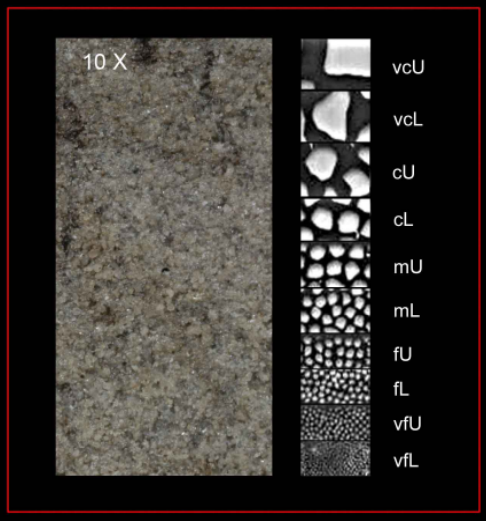


Silty Sandstone: 100% medium grey, massive, moderately to well sorted, fine grained, minor flourescence, petroliferous odour

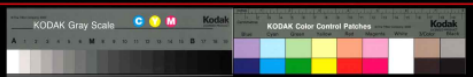


MSCT Photography
West Seahorse-3

Sample 4 1566.5m

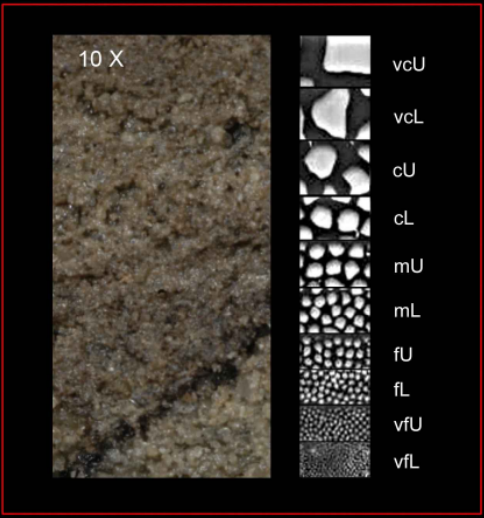


Silty Sandstone: 100% medium grey, massive, moderately to well sorted, fine grained, carbonaceous laminations, minor flourescence, petroliferous odour

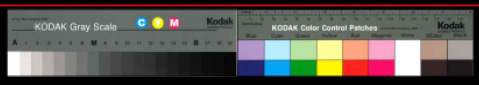


MSCT Photography
West Seahorse-3

Sample 5 1568.0m

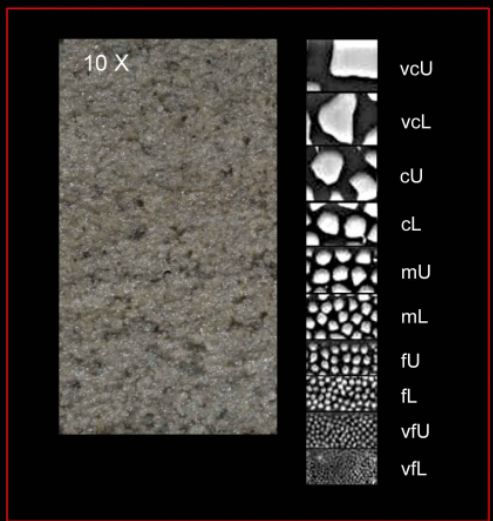


Calcareous Sandstone: 50% medium grey, 40% dirty white, 10% black, massive, moderately sorted, medium to fine grained, moderately calcareous, carbonaceous laminations, minor flourescence, petroliferous odour

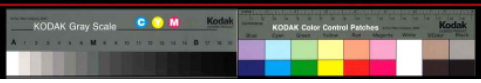


MSCT Photography
West Seahorse-3

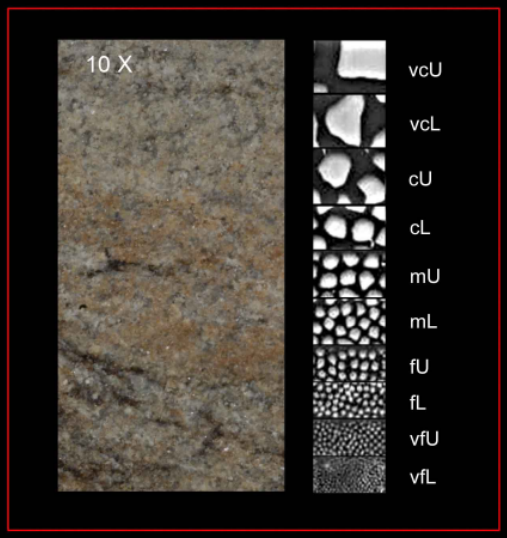
Sample 6 1568.9m



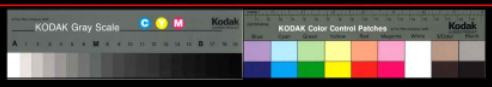
Silty Sandstone: 100% medium grey, massive, moderately well sorted, fine grained, carbonaceous laminations, minor flourescence, petroliferous odour



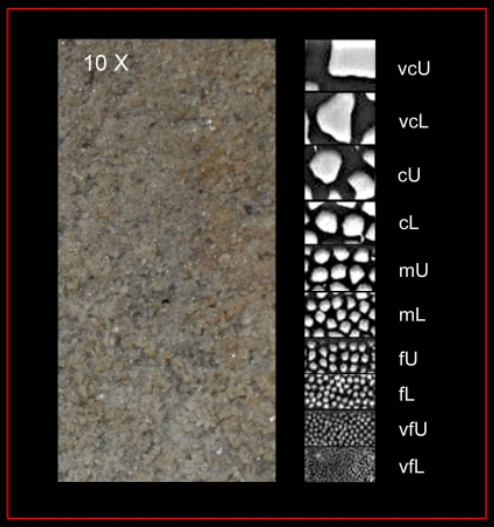
MSCT Photography
West Seahorse-3
Sample 7 1570.0m



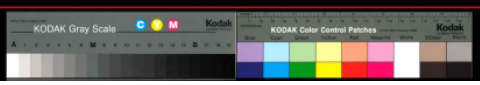
Sandstone: 100% medium grey, massive, moderately sorted, fine grained, carbonaceous laminations, minor flourescence, petroliferous odour



MSCT Photography
West Seahorse-3
Sample 8 1571.0m

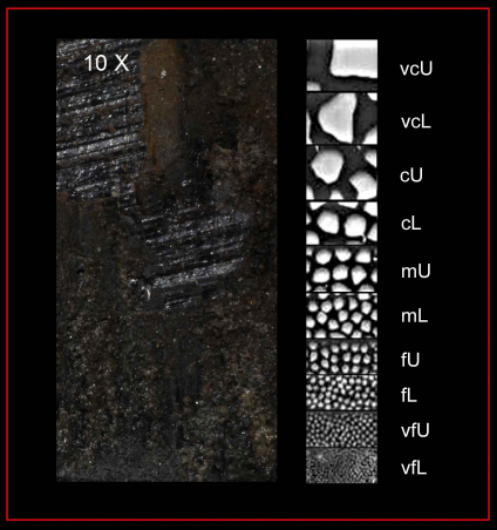


Silty Sandstone: 100% medium grey, massive, moderately to well sorted, fine grained, carbonaceous, laminations, minor flourescence, weak petroliferous odour

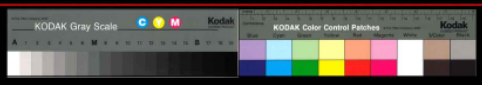


MSCT Photography
West Seahorse-3

Sample 9 1634.0m

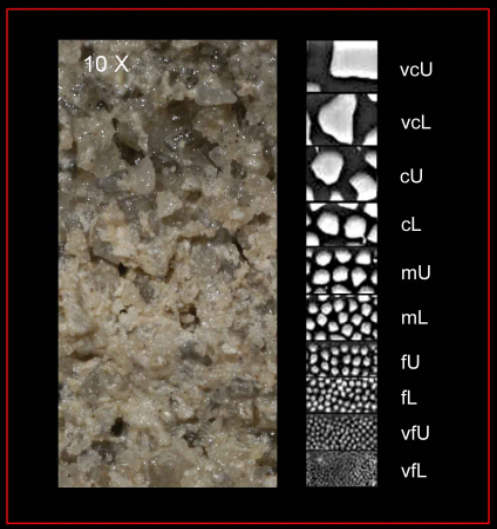


Coal: 100% Black, 10 - 40% bright, fractured, no cleating

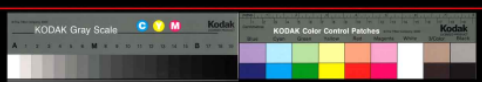


MSCT Photography
West Seahorse-3

Sample 10 1661.0m

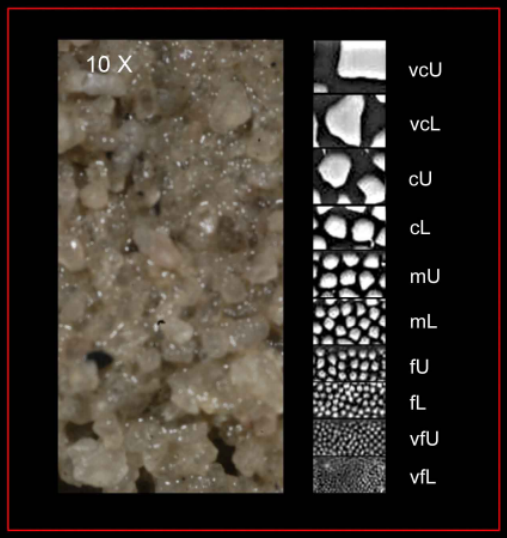


Sandstone: 100% medium grey, poor to moderately sorted, angular to sub-angular, coarse grained, relatively friable, siliceous, <50% quartz, poorly cemented, minor clay matrix

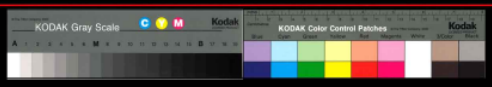


MSCT Photography
West Seahorse-3

Sample 12 1665.0m

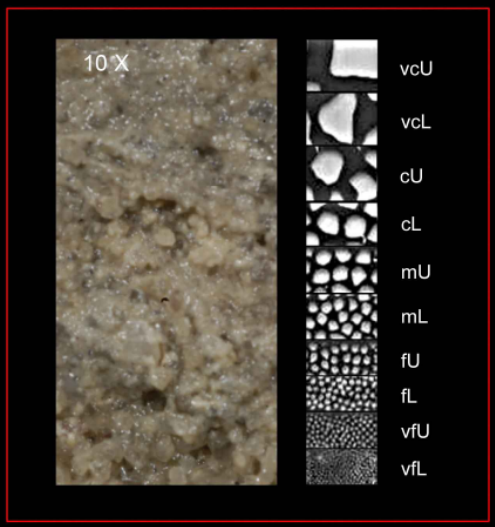


Sandstone: 90% medium grey, 10% white, poorly sorted, angular, coarse grained, friable, siliceous, <70% quartz, poorly cemented, minor clay matrix

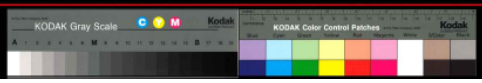


MSCT Photography
West Seahorse-3

Sample 11 1668.5m

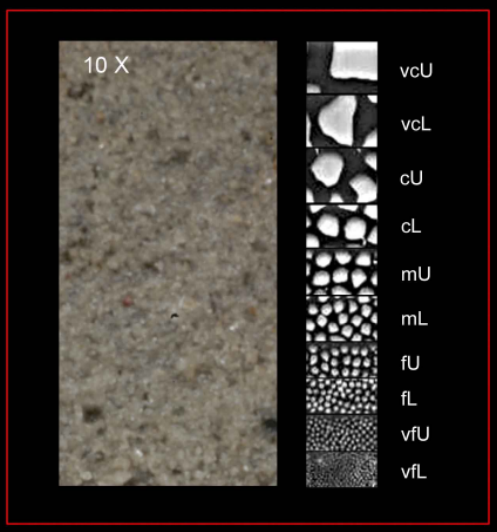


Sandstone: 60% light grey, 40% off white, poorly sorted, angular, coarse grained, relatively friable, siliceous, <50% quartz

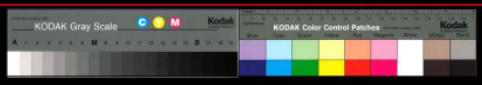


MSCT Photography
West Seahorse-3

Sample 13 1686.0m

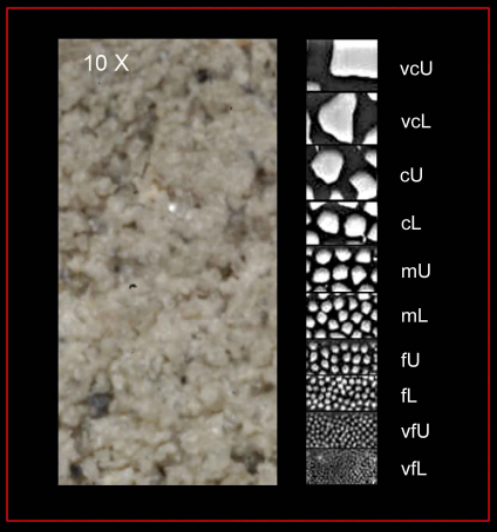


Silty Sandstone: 100% light grey, massive, moderately sorted, fine grained, minor flourescence, petroliferous odour.

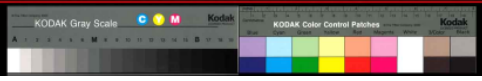


MSCT Photography
West Seahorse-3

Sample 14 1694.0m



Sandstone: 100% light grey, massive, moderately sorted, medium to fine grained, moderately calcareous



Attachment 13

Validity Checks and Analyses of MDT Samples

Final Report Prepared For
3D Oil Limited

Well: West Seahorse - 3

Validity Checks and Analyses
Of MDT Samples

6th May 2008

Ref: 57016

WELL FLOW MANAGEMENT™

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Australia

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www.exprogroup.com

WELL: WEST SEAHORSE-3

VALIDITY CHECKS AND ANALYSES OF MDT SAMPLES

REPORT TYPE: Final

Client	:	3D Oil Limited
Well	:	West Seahorse-3
Permit	:	Vic-P/57
Date	:	6th May 2008
Client Representative	:	Robyn Tamke
Date of reporting	:	July 2008
Project number	:	57016
Project co-ordinator	:	Brian Toole
Participants	:	Andrew O'Donnell Daniel Edwards
Report prepared by	:	Andrew O'Donnell
Report reviewed by	:	Jude Louis
Number of issues	:	5
Distribution Expro	:	1
Distribution 3D Oil Ltd.	:	4

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PO Box 1522
CANNING VALE WA
AUSTRALIA 6970
Phone: +61 8 9456 7600
Fax: +61 8 9456 7699

SUMMARY

To validate the quality of samples taken by the Schlumberger MDT Wireline Formation Sampling tool, Petrotech performed a programme of validity checks and analysis on the retrieved samples.

The contents of the successfully retrieved chambers were transferred to Petrotech PVT sampling bottles and sent onshore to Core Laboratories for further analysis.

TABLE OF CONTENTS

1. INTRODUCTION

In this report, Petrotech presents the validity checks and basic on-site analysis for samples retrieved from the MDT tool during logging for the West Seahorse-3 well. The analyses were carried out on the 6th and 18th of May 2008.

In order to obtain the highest quality of well-site data from the MDT tool, Petrotech confirmed the quality of MDT samples retrieved by carrying out opening pressure measurements. Pressurised single-phase transfers of samples to Petrotech shipping bottles were performed to provide PVT samples for onshore analysis.

A total of four segregated samples were collected from a depth of 1567mMDRT (1406.1m TDVSS) using the Schlumberger MDT tool.
Single-phase transfers were performed on three samples and the fourth sample was flashed for offshore analysis.

2. OFFSHORE ANALYSIS PROGRAMME

Wire line Fluid Sampling

Following collection of the Wireline Fluid Samples, the tools were brought back to the surface. The chambers were prepared for transfer by pressurising them to 1450psi above the reservoir pressure supplied from the Schlumberger logging data. The buffer fluid volume added to the chamber was recorded at all significant points with sample validity verified by non-invasive opening pressure measurement of the sample from the buffer side of the chamber (see Table 1).

Once the required pressure was reached, the sample was maintained in this condition for one hour with regular agitation to promote sample homogeneity, whilst constant pressure monitoring ensured sample stability and confirmed the absence of leaks. At the end of this period, sample transfer commenced at a minimum of 1450psi above reservoir pressure with the sample introduced into the Petrotech shipping bottle at a slow, constant rate (around 20cc per minute) so as to minimise disruption to the pressure equilibrium.

3. RESULTS

Table 1: WFS Sample Data

Client	3D Oil Limited
Well	West Seahorse-3
Project No.	57016

Sampling Depth (mMDRT)	WFS Chamber No.	WFS Chamber Vol (cc)	Downhole Sampling Date	Downhole Sampling Time	Opening Pressure (psig)	Opening Temperature (°C)
1567	3452	450	6/05/08	02:12 hrs	1624	16.0
1567	3353	450	6/05/08	02:22 hrs	1088	18.0
1567	3358	450	6/05/08	02:26 hrs	1595	18.0
1567	3453	450	6/05/08	02:16 hrs	1555	17.0

Table 2: PVT Transfer Data

Client	3D Oil Limited
Well	West Seahorse-3
Project No.	57016

Petrotech Sample No.	Sample Depth (mMDRT)	WFS Chamber No.	Transfer Date	Transfer Time	Petrotech Cylinder No.	Transfer Volume (mL)	Transfer Pressure (psig)	Transfer Temp. (°C)	Comments
T.01	1567	3452	06.05.08	11:00	PT-3001	380	4000	65.0	-
T.02	1567	3353	06.05.08	12:20	PT-3153	375	4000	65.0	-
T.03	1567	3358	06.05.08	14:15	PT-3184	390	4000	65.0	-
T.04	1567	3453	18.05.08	-	Flashed	-	-	18.0	-

Table 3: Non-Pressurised Sample List

Client	3D Oil Limited
Well	West Seahorse-3
Project No.	57016

Petrotech Sample No.	Sample Depth (mMDRT)	WFS Chamber No.	Sample Nature	Sample Volume (mL)	Comments
A.01	1567	3452.0	Oil	40	Sent to Petrotech, Perth
A.02	1567	3353.0	Oil	40	Sent to Petrotech, Perth
A.03	1567	3358.0	Oil	40	Sent to Petrotech, Perth
A.04	1567	3453.0	Oil	395	Flashed for Analysis. 18/5/08

Table 4: Pressurised Sample List

Client	3D Oil
Well	West Seahorse-3
Project No.	57016

Transferred Samples

Petrotech Sample No.	Sample Depth (mMDRT)	WFS Chamber No.	Sample Nature	Petrotech Cylinder No.	Shipping Volume (cc)	Shipping Pressure (psig)
T.01	1567	3452	Oil	PT-3001	380	1500
T.02	1567	3353	Oil	PT-3153	375	2000
T.03	1567	3358	Oil	PT-3184	390	2000

Table 5: WFS Flash Data

Client	3D Oil Limited
Well	West Seahorse-3
Project No.	57016

Petrotech Sample No.	Sample Depth (mRT)	MDT Chamber No.	Stabilised Oil Volume (mL)	Measured Gas Volume (L)	Measured Water Vol. (L)	Barometric Pressure (mBar)	Ambient Temperature (^{0}C)	Gas-Oil Ratio (scf/bbl)
Not Transferred	1567	3453	395	20.0	-	1073	17.0	286.28

Table 6: Sample Analysis Data

Client	3D Oil
Well	West Seahorse-3
Project No.	57016

Petrotech Sample No.	Sample Depth (mRT)	WFS Chamber No.	Oil Density (g/cm^3 @ 15°C)	Oil Gravity (°API @ 60°F)	Draeger Tube		Viscosity		
					CO_2 (%vol)	H_2S (ppm)	Kinematic (mm2/sec)	Dynamic (cp)	Temperature (°C)
PT-3001	1567	3452	-	-	-	240	-	-	-
PT-3153	1567	3353	-	-	-	280	-	-	-
PT-3184	1567	3358	-	-	-	280	-	-	-
Flashed	1567	3453	0.799	45.6	2	280	-	-	17.0

4. DISCUSSION

The logging run was performed on the 5th and 6th May 2008. The Schlumberger MDT tool successfully recovered a total of four segregated samples from a depth of 1567mMDRT.

The opening pressure measurements suggested that all four samples were of acceptable quality. The opening pressures showed generally good consistency and the chambers remained intact until transfer.

Three MPSRs were transferred to Petrotech shipping bottles and the fourth was flashed to atmosphere on the 18th May. During all transfers, the MPSR chambers were oriented such that sample was removed from the highest point. On completion of the transfers and analysis, the pressurised and dead samples were dispatched to Petrotech for onward shipment to Core Laboratories (Perth) as instructed by 3D Oil personnel.

The MPSRs were rinsed with Toluene to extract any residual ashphaltenes.

The density of the oil from the flashed MPSR was measured and appears in this report in Table 6. The GOR was also determined and is reported in Table 5.

5. APPENDICES: PVT SHEETS

WIRELINE FLUID SAMPLE TRANSFER SHEET

Client	3D Oil Limited
Well	West Seahorse-3
Rig	West Triton
Sampling Tool	MDT

SAMPLING DATA		
Sample number	T.01	
Chamber number	3452	
Sampled by	Schlumberger	
Sample depth	1567.0	mMDRT
Sample nature	Oil	
Date	06.05.08	
Transferred by	Daniel/Andrew	
Transfer commenced	11:00	
Transfer completed	11:32	
Cylinder number	PT-3001	
Cylinder coupled with	-	

TRANSFER CONDITIONS		
Transfer fluid	Glycol	
Cylinder volume	700	cc
Sample volume	380	cc
Transfer fluid remaining	320	cc
Transfer pressure	4000.0	psig
Shipping pressure	1500.0	psig
Ambient temperature	18.0	°C

BOTTOM HOLE CONDITIONS		
Reservoir pressure	1968.0	psig
Reservoir temperature	65.0	°C

COMMENTS

WIRELINE FLUID SAMPLE TRANSFER SHEET

Client	3D Oil Limited
Well	West Seahorse-3
Rig	West Triton
Sampling Tool	MDT

SAMPLING DATA		
Sample number	T.02	
Chamber number	3353	
Sampled by	Schlumberger	
Sample depth	1567.0	mMDRT
Sample nature	Oil	
Date	06.05.08	
Transferred by	Daniel/Andrew	
Transfer commenced	12:20	
Transfer completed	13:04	
Cylinder number	PT-3153	
Cylinder coupled with	-	

TRANSFER CONDITIONS		
Transfer fluid	Glycol	
Cylinder volume	700	cc
Sample volume	375	cc
Transfer fluid remaining	325	cc
Transfer pressure	4000.0	psig
Shipping pressure	2000.0	psig
Ambient temperature	18.0	°C

BOTTOM HOLE CONDITIONS		
Reservoir pressure	1968.0	psig
Reservoir temperature	65.0	°C

COMMENTS

WIRELINE FLUID SAMPLE TRANSFER SHEET

Client	3D Oil Limited
Well	West Seahorse-3
Rig	West Triton
Sampling Tool	MDT

SAMPLING DATA		
Sample number	T.03	
Chamber number	3358	
Sampled by	Schlumberger	
Sample depth	1567.0	mMDRT
Sample nature	Oil	
Date	06.05.08	
Transferred by	Daniel/Andrew	
Transfer commenced	14:15	
Transfer completed	14:50	
Cylinder number	PT-3184	
Cylinder coupled with	-	

TRANSFER CONDITIONS		
Transfer fluid	Glycol	
Cylinder volume	700	cc
Sample volume	390	cc
Transfer fluid remaining	310	cc
Transfer pressure	4000.0	psig
Shipping pressure	2000.0	psig
Ambient temperature	18.0	°C

BOTTOM HOLE CONDITIONS		
Reservoir pressure	1968.0	psig
Reservoir temperature	65.0	°C

COMMENTS

Attachment 14

Reservoir Fluid Study

Core Lab™

RESERVOIR OPTIMIZATION

Reservoir Fluid Study

for

3D Oil

West Seahorse-3

AFL 20080022

CORE LABORATORIES AUSTRALIA PTY LTD

Reservoir Fluids Group

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Web: http://www.corelab.com

16th September 2008

3D Oil Limited
Level 5,
164 Flinders Lane,
Melbourne
VIC 3000

Attention: Jon Keall

Dear Jon,

Subject: Reservoir Fluid Study: Well: West Seahorse-3; Our file: AFL 20080022

Three sub-surface oil samples were forwarded to our Perth laboratory on 22nd May 2008 for initial validation, compositional analysis and a PVT analysis program. Presented in the following report are the results of the requested analyses.

Core Laboratories Australia Pty Ltd are very pleased to have been of service to 3D Oil Limited in this work. Should any questions arise concerning the data presented in this report, or if we may be of assistance in any other matter, please do not hesitate to contact us.

Yours Faithfully,
For CORE LABORATORIES AUSTRALIA PTY LTD

Murray Macleod
Laboratory Supervisor

Table of Contents

Section A - Summary of Analysis Methods

Summary of Analysis Methods

Sample Validation

The opening pressures of the three sub-surface oil samples were recorded at ambient temperature. They were then stabilised at 5000 psig and heated to 100°C for 24 hours. The samples were agitated thoroughly to ensure they were completely single phase and homogenous. A check for free water was made and the sample volume determined.

Compositional Analysis

The fluid composition of each oil sample was determined using a combination of flash separation and gas chromatography techniques. Each fluid was flashed at a controlled temperature (50°C) and separated into oil and gas phases.

The gas was analysed using extended gas chromatography with compositions determined by a GPA 2286 method using a multi-column gas chromatograph system. A temperature programme was utilised to obtain optimum detection and separation of dodecanes plus components.

The flashed oil was analysed by temperature programmed high resolution capillary gas chromatography. The two analyses were then mathematically recombined to the flash gas-oil ratio.

Constant Composition Expansion

A portion of the reservoir fluid sample was charged to a high pressure visual cell maintained at the reservoir temperature of 66.0°C. A constant composition expansion was carried out during which the bubble point pressure of 1227 psig was determined and pressure-volume data for the single phase and two phase fluid were measured. The density of the single phase fluid was determined by weighing measured volumes pumped from the cell at 5000 psig. Density data for other pressures were calculated using the volumetric data.

Differential Vaporisation

This was perfomed in the high pressure visual cell at reservoir temperature following the constant composition expansion. At several pressure stages, below the observed saturation pressure, the sample was stabilised. The gas evolved was then pumped out of the cell and the volume, compressibility and composition were determined. The final stage was carried out at atmospheric pressure when the residual liquid was pumped out of the cell and its density and composition were determined.

Viscosity

This was measured in an electro-magnetic viscometer at reservoir temperature. Viscosity determinations were carried out over a wide range of pressures from above the reservoir pressure to atmospheric pressure.

Separator Test

A two-stage separator test was carried out using a pressurised test separator cell. A portion of the reservoir fluid sample, at a pressure above saturation pressure, was pumped into the separator cell and stabilised at the pressure and temperature required for the first stage separation. The gas evolved was pumped out of the cell and the volume and composition were determined. The final stage was carried out at atmospheric pressure and the density and composition of the residual liquid was determined.

Compositional Analysis Databases

For all compositions reported in this study, the properties used, eg Molecular Weight and Density of the individual components are tabulated in Section D of the Appendix.

Summary of PVT Analysis Data

Constant Composition Expansion		
Saturation pressure (bubble-point)	1227	psig
Average single phase compressibility (From 1968 psig to 1227 psig)	13.74 x 10^{-6}	psi^{-1}
Density at saturation pressure	0.7034	g cm^{-3}
Differential Vaporisation		
Solution gas-oil ratio at saturation pressure	391	scf/bbl of residual oil at 15.6°C
Relative oil volume at saturation pressure	1.245	vol/vol of residual oil at 15.6°C
Reservoir Fluid Viscosity		
Viscosity at reservoir pressure	0.549	centipoise at 1968 psig
Viscosity at saturation pressure	0.518	centipoise at 1227 psig
Separator Test		
Solution gas-oil ratio at saturation pressure	325	scf/bbl of residual oil at 15.6°C
Relative oil volume at saturation pressure	1.195	vol/vol of residual oil at 15.6°C

Section B - Summary of Samples Received and Validation Data

Reported Well and Sampling Information - MDTs

Reservoir and Well Information

Field	
Well	West Seahorse-3
Reservoir Fluid	Oil
Formation	
Reservoir Pressure	1968.0 psig
Reservoir Temperature	66.0 °C
Installation	
Test	
Perforations	

Sampling Information

Date sampled	
Time sampled	
Type of samples	MDT
Sampling company	Schlumberger
Sampling point	
Sampling Depth	1567.0 mMDRT
Choke	
Status of well	
Bottomhole pressure	1968.0 psig
Bottomhole temperature	66.0°C
Wellhead flowing pressure	
Wellhead flowing temperature	
Separator pressure	
Separator temperature	
Pressure base	14.696 psia
Temperature base	60°F
Water flowrate	
Gas gravity (Air = 1)	
H2S	
CO2	
BS&W	
Oil gravity at 60°F	

Comments:
Other details not supplied

Summary of MDT Samples Received and Validation Data

MDT Samples

Sample Number	Cylinder Number	Sample Depth (m MDRT)	Type	Sampling :- Pressure (psig)	Sampling :- Temp. (°C)	Laboratory opening :- Pressure (psig)	Laboratory opening :- Temp. (°C)	Water Volume (cm^3)	Sample Volume (cm^3)
T.01	PT-3001	1567.0	Oil	1968	65.0	1671	18.2	15	385
T.02	PT-3153	1567.0	Oil	1968	65.0	2126	16.5	13	370
T.03	PT-3184	1567.0	Oil	1968	65.0	1562	15.3	15	390

Notes:

Sample Volumes at 5000 psig and 94°C

Sampling pressure and temperature information from Expro sampling sheets

Sample T.01, Expro cylinder PT-3001 is transferred from Schlumberger chamber No. 3452
Sample T.02, Expro cylinder PT-3153 is transferred from Schlumberger chamber No. 3353
Sample T.03, Expro cylinder PT-3184 is transferred from Schlumberger chamber No. 3358

Section C - Compositional Analysis Data

Compositional Analysis of Sample T.01, Cylinder No. PT-3001 to C36+

	Component	Mole %	Weight %
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	0.75	0.30
N_2	Nitrogen	0.26	0.06
C_1	Methane	26.62	3.83
C_2	Ethane	1.95	0.53
C_3	Propane	2.84	1.12
iC_4	i-Butane	2.00	1.04
nC_4	n-Butane	2.16	1.12
C_5	Neo-Pentane	0.08	0.05
iC_5	i-Pentane	2.15	1.39
nC_5	n-Pentane	1.93	1.25
C_6	Hexanes	4.96	3.83
	M-C-Pentane	1.11	0.84
	Benzene	0.01	0.01
	Cyclohexane	0.94	0.71
C_7	Heptanes	5.70	5.12
	M-C-Hexane	4.11	3.62
	Toluene	0.02	0.02
C_8	Octanes	6.97	7.13
	E-Benzene	0.13	0.12
	M/P-Xylene	0.33	0.31
	O-Xylene	0.08	0.07
C_9	Nonanes	4.68	5.39
	1,2,4-TMB	0.17	0.19
C_{10}	Decanes	3.78	4.83
C_{11}	Undecanes	2.81	3.70
C_{12}	Dodecanes	2.27	3.28
C_{13}	Tridecanes	2.41	3.78
C_{14}	Tetradecanes	2.01	3.42
C_{15}	Pentadecanes	2.25	4.17
C_{16}	Hexadecanes	1.93	3.84
C_{17}	Heptdecanes	1.91	4.05
C_{18}	Octadecanes	1.90	4.27
C_{19}	Nonadecanes	1.45	3.42
C_{20}	Eicosanes	1.22	3.01
C_{21}	Heneicosanes	1.00	2.62
C_{22}	Docosanes	0.84	2.31
C_{23}	Tricosanes	0.71	2.04
C_{24}	Tetracosanes	0.59	1.74
C_{25}	Pentacosanes	0.49	1.51
C_{26}	Hexacosanes	0.38	1.22
C_{27}	Heptacosanes	0.32	1.06
C_{28}	Octacosanes	0.24	0.85
C_{29}	Nonacosanes	0.21	0.77
C_{30}	Triacontanes	0.17	0.63
C_{31}	Hentriacontanes	0.14	0.56
C_{32}	Dotriacontanes	0.11	0.42
C_{33}	Tritriacontanes	0.09	0.39
C_{34}	Tetratriacontanes	0.07	0.31
C_{35}	Pentatriacontanes	0.06	0.25
$C_{36}+$	Hexatriacontanes Plus	0.69	3.50
	Totals :	100.00	100.00

Note: 0.00 means < 0.005.

Compositional Analysis of sample T.01, cylinder No. PT-3001 to C36+

Calculated Residue Properties		
C_7+	Mole%	54.30
	Molecular Weight (g mol-1)	175
	Density at 15.6°C (g cm-3)	0.8046
C_{11}+	Mole%	26.27
	Molecular Weight (g mol-1)	242
	Density at 15.6°C (g cm-3)	0.8512
C_{20}+	Mole%	7.33
	Molecular Weight (g mol-1)	352
	Density at 15.6°C (g cm-3)	0.8878
C_{36}+	Mole %	0.69
	Molecular Weight (g mol-1)	561
	Density at 15.6°C (g cm-3)	0.9288

Calculated Whole Sample Properties		
	Average mole weight (g mol-1)	111

Chromatogram of sample T.01, cylinder No. PT-3001 to C36+

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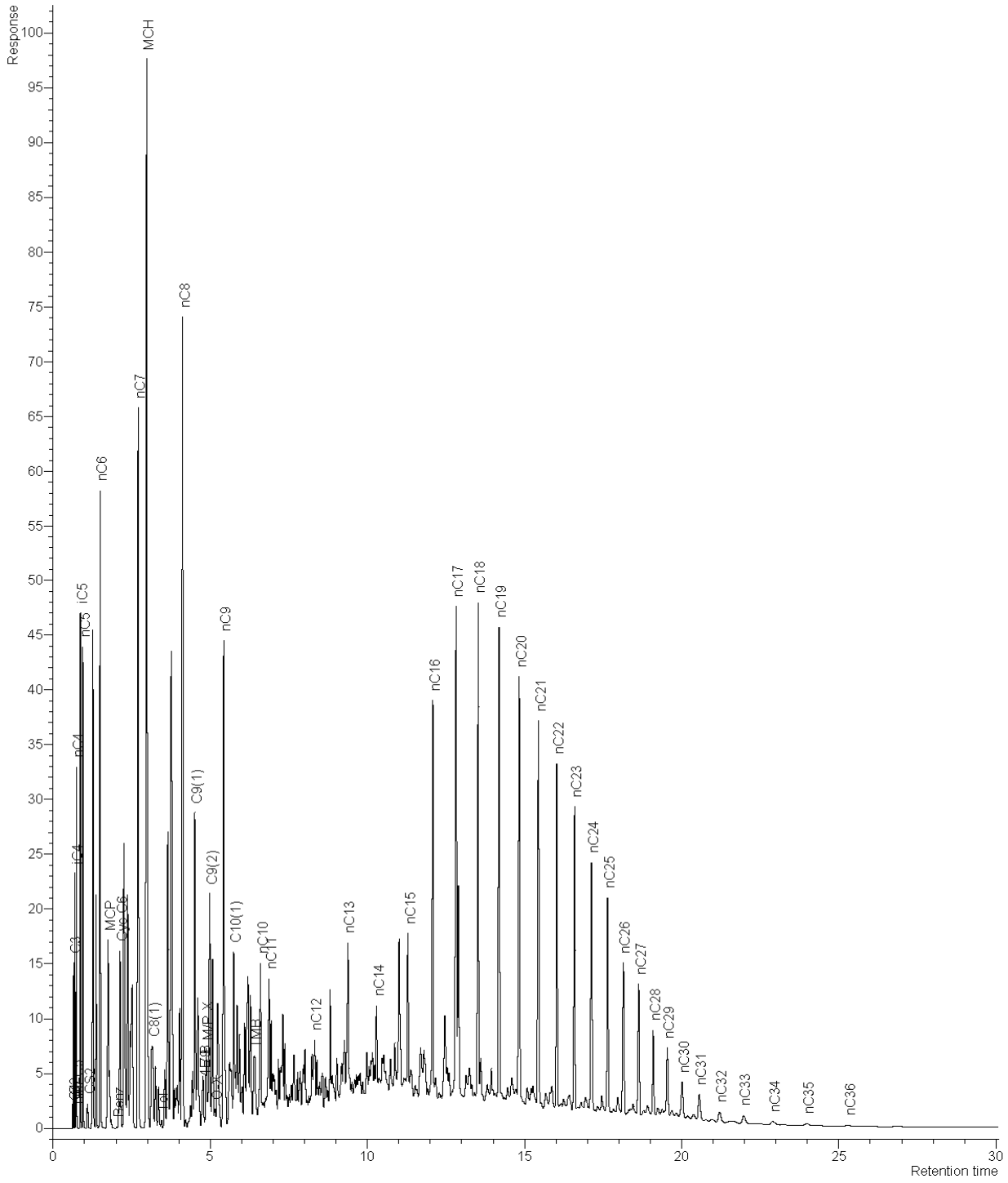


Compositional Analysis of Sample T.02, Cylinder No. PT-3153 to C36+

	Component	Mole %	Weight %
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	0.72	0.28
N_2	Nitrogen	0.22	0.05
C_1	Methane	26.08	3.71
C_2	Ethane	1.92	0.51
C_3	Propane	2.79	1.09
iC_4	i-Butane	1.95	1.01
nC_4	n-Butane	2.10	1.08
C_5	Neo-Pentane	0.08	0.05
iC_5	i-Pentane	2.18	1.40
nC_5	n-Pentane	1.97	1.26
C_6	Hexanes	5.06	3.87
	M-C-Pentane	1.13	0.84
	Benzene	0.01	0.01
	Cyclohexane	0.98	0.73
C_7	Heptanes	5.79	5.15
	M-C-Hexane	4.19	3.65
	Toluene	0.02	0.02
C_8	Octanes	7.05	7.15
	E-Benzene	0.12	0.11
	M/P-Xylene	0.33	0.31
	O-Xylene	0.07	0.07
C_9	Nonanes	4.69	5.33
	1,2,4-TMB	0.18	0.19
C_{10}	Decanes	3.83	4.84
C_{11}	Undecanes	2.84	3.70
C_{12}	Dodecanes	2.24	3.20
C_{13}	Tridecanes	2.46	3.81
C_{14}	Tetradecanes	2.02	3.40
C_{15}	Pentadecanes	2.25	4.12
C_{16}	Hexadecanes	1.98	3.90
C_{17}	Heptdecanes	1.90	4.00
C_{18}	Octadecanes	1.90	4.24
C_{19}	Nonadecanes	1.45	3.39
C_{20}	Eicosanes	1.23	3.01
C_{21}	Heneicosanes	1.00	2.59
C_{22}	Docosanes	0.85	2.29
C_{23}	Tricosanes	0.72	2.02
C_{24}	Tetracosanes	0.59	1.74
C_{25}	Pentacosanes	0.49	1.49
C_{26}	Hexacosanes	0.38	1.21
C_{27}	Heptacosanes	0.32	1.06
C_{28}	Octacosanes	0.25	0.85
C_{29}	Nonacosanes	0.22	0.77
C_{30}	Triacontanes	0.17	0.62
C_{31}	Hentriacontanes	0.15	0.55
C_{32}	Dotriacontanes	0.11	0.42
C_{33}	Tritriacontanes	0.09	0.38
C_{34}	Tetratriacontanes	0.07	0.31
C_{35}	Pentatriacontanes	0.06	0.25
$C_{36}+$	Hexatriacontanes Plus	0.80	3.97
	Totals :	100.00	100.00

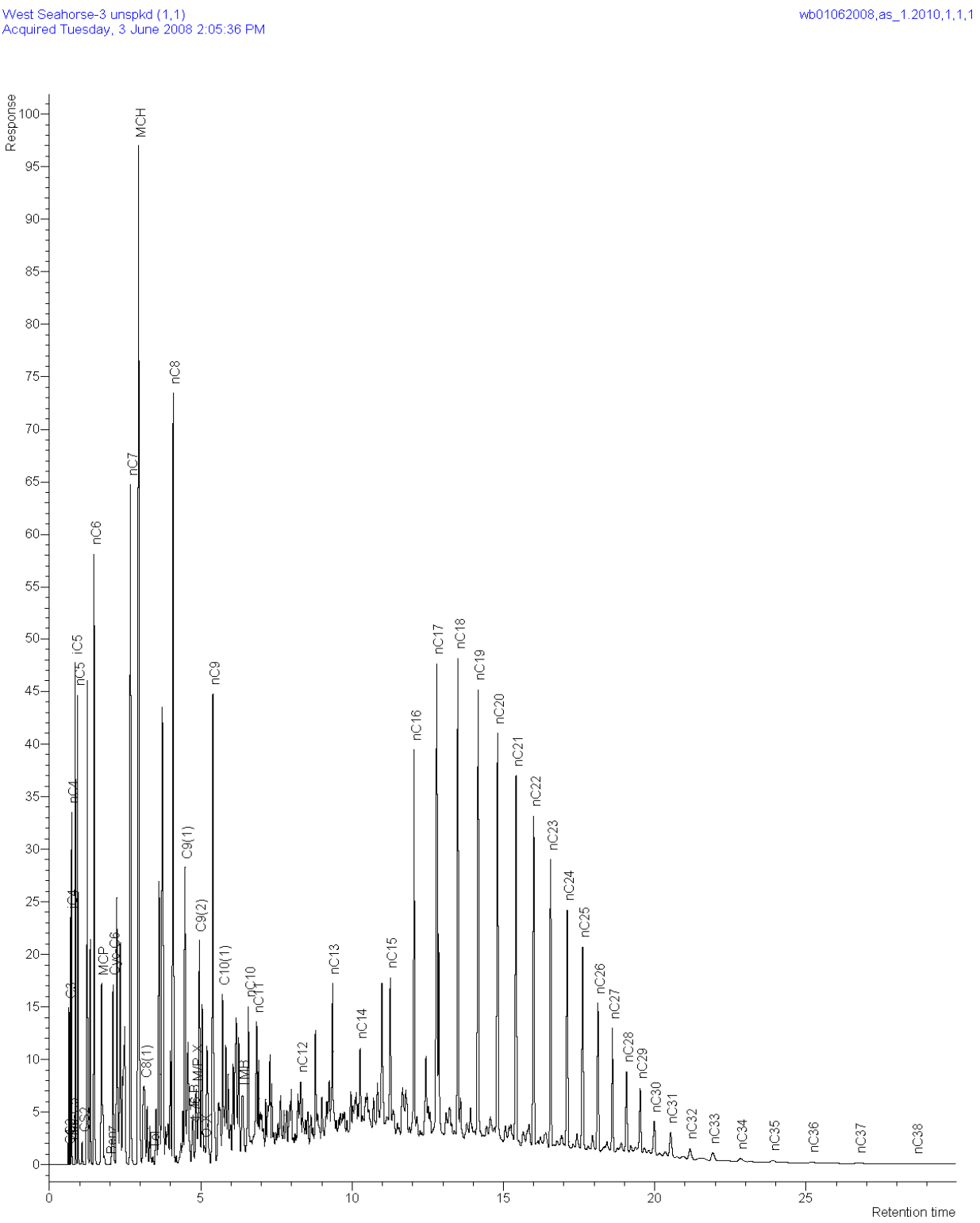
Note: 0.00 means < 0.005.

Compositional Analysis of Sample T.02, Cylinder No. PT-3153 to C36+

Calculated Residue Properties		
C_7+	Mole%	54.93
	Molecular Weight (g mol-1)	176
	Density at 15.6°C (g cm-3)	0.8051
C_{11}+	Mole%	26.54
	Molecular Weight (g mol-1)	243
	Density at 15.6°C (g cm-3)	0.8518
C_{20}+	Mole%	7.50
	Molecular Weight (g mol-1)	354
	Density at 15.6°C (g cm-3)	0.8886
C_{36}+	Mole %	0.80
	Molecular Weight (g mol-1)	561
	Density at 15.6°C (g cm-3)	0.9289

Calculated Whole Sample Properties		
	Average mole weight (g mol-1)	113

Chromatogram of Sample T.02, Cylinder No. PT-3153 to C36+



Compositional Analysis of Sample T.03, Cylinder PT-3184 to C36+

	Component	Mole %	Weight %
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	0.76	0.30
N_2	Nitrogen	0.24	0.06
C_1	Methane	26.49	3.81
C_2	Ethane	1.94	0.52
C_3	Propane	2.82	1.11
iC_4	i-Butane	1.96	1.02
nC_4	n-Butane	2.15	1.12
C_5	Neo-Pentane	0.05	0.03
iC_5	i-Pentane	2.13	1.38
nC_5	n-Pentane	1.92	1.24
C_6	Hexanes	4.96	3.83
	M-C-Pentane	1.11	0.84
	Benzene	0.02	0.02
	Cyclohexane	0.95	0.72
C_7	Heptanes	5.75	5.16
	M-C-Hexane	4.17	3.67
	Toluene	0.03	0.02
C_8	Octanes	7.04	7.18
	E-Benzene	0.13	0.12
	M/P-Xylene	0.33	0.31
	O-Xylene	0.07	0.07
C_9	Nonanes	4.72	5.42
	1,2,4-TMB	0.17	0.19
C_{10}	Decanes	3.81	4.86
C_{11}	Undecanes	2.81	3.71
C_{12}	Dodecanes	2.28	3.29
C_{13}	Tridecanes	2.41	3.77
C_{14}	Tetradecanes	2.04	3.47
C_{15}	Pentadecanes	2.21	4.09
C_{16}	Hexadecanes	1.95	3.88
C_{17}	Heptdecanes	1.89	4.01
C_{18}	Octadecanes	1.89	4.25
C_{19}	Nonadecanes	1.46	3.43
C_{20}	Eicosanes	1.21	2.99
C_{21}	Heneicosanes	1.01	2.63
C_{22}	Docosanes	0.84	2.30
C_{23}	Tricosanes	0.71	2.03
C_{24}	Tetracosanes	0.59	1.74
C_{25}	Pentacosanes	0.49	1.51
C_{26}	Hexacosanes	0.38	1.22
C_{27}	Heptacosanes	0.32	1.06
C_{28}	Octacosanes	0.24	0.85
C_{29}	Nonacosanes	0.21	0.76
C_{30}	Triacontanes	0.17	0.63
C_{31}	Hentriacontanes	0.14	0.56
C_{32}	Dotriacontanes	0.11	0.42
C_{33}	Tritriacontanes	0.09	0.37
C_{34}	Tetratriacontanes	0.07	0.30
C_{35}	Pentatriacontanes	0.06	0.24
$C_{36}+$	Hexatriacontanes Plus	0.70	3.49
	Totals :	100.00	100.00

Note: 0.00 means < 0.005.

Compositional Analysis of Sample T.03, Cylinder PT-3184 to C36+

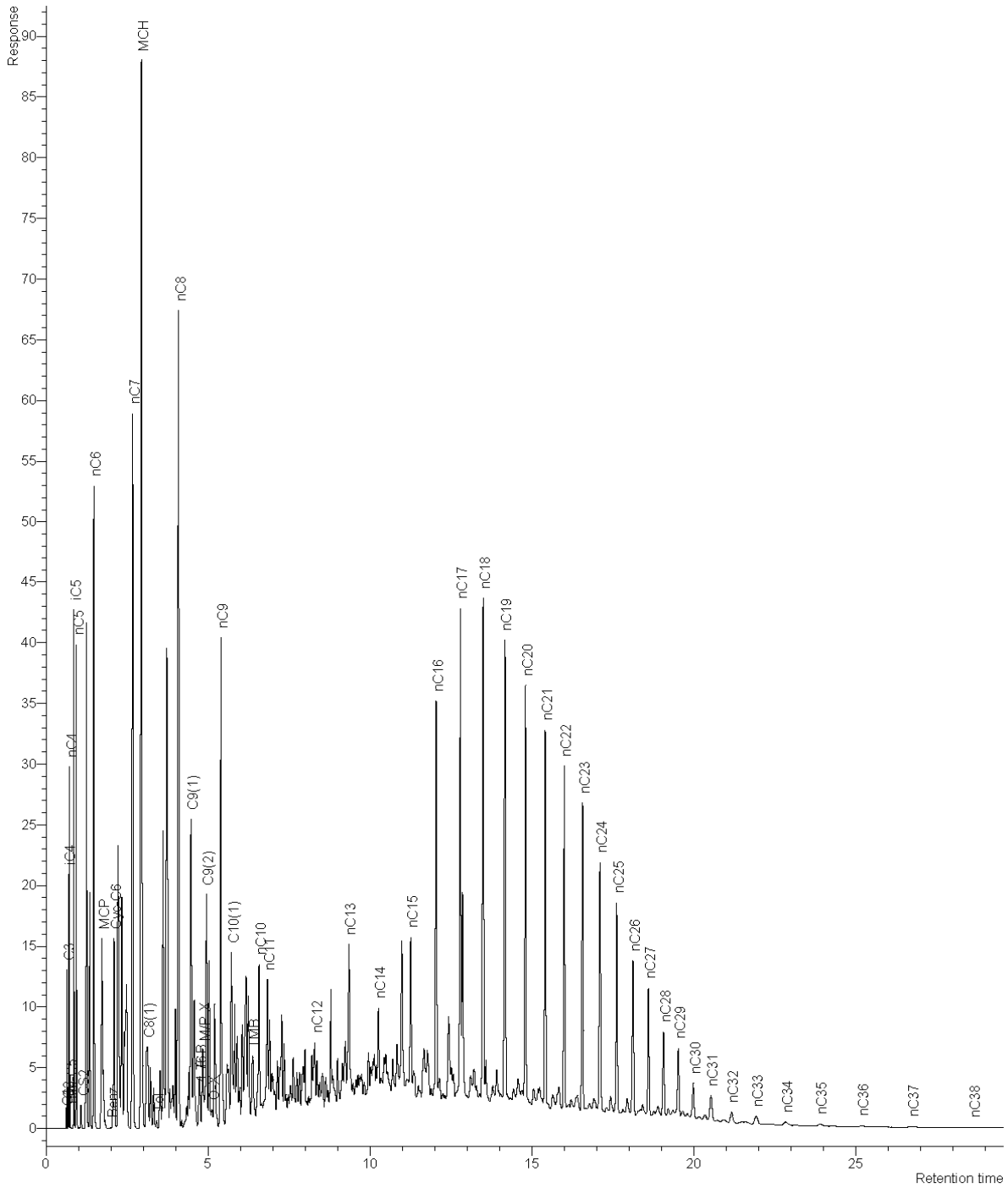
Calculated Residue Properties		
C_7+	Mole%	54.58
	Molecular Weight (g mol-1)	175
	Density at 15.6°C (g cm-3)	0.8043
C_{11}+	Mole%	26.28
	Molecular Weight (g mol-1)	242
	Density at 15.6°C (g cm-3)	0.8511
C_{20}+	Mole%	7.34
	Molecular Weight (g mol-1)	352
	Density at 15.6°C (g cm-3)	0.8877
C_{36}+	Mole %	0.70
	Molecular Weight (g mol-1)	560
	Density at 15.6°C (g cm-3)	0.9287

Calculated Whole Sample Properties		
	Average mole weight (g mol-1)	112

Chromatogram of Sample T.03, Cylinder PT-3184 to C36+

West Seahorse -3 S/F (1,1)
Acquired Tuesday, 3 June 2008 7:06:29 PM

wb01062008,as_1.2012,1,1,1



Section D - Constant Composition Expansion - PT-3184 (Sample No.: T.03)

Constant Composition Expansion at 66.0°C

Single-phase Fluid Properties

Saturation pressure (bubble-point pressure)	1227	psig
Average single phase compressibility (From 1968 psig to 1227 psig)	13.74 x 10^{-6}	psi^{-1}
Density at saturation pressure	0.7034	g cm^{-3}

Mean Single-phase Compressibilities

Pressure Range Initial Pressure (psig)	Final Pressure (psig)	Mean Compressibility (psi-1) (1)
5000	4000	7.51 x 10^{-6}
4000	3000	8.57 x 10^{-6}
3000	1800	10.60 x 10^{-6}
1800	1227	14.23 x 10^{-6}

(1) Mean compressibility = (V2-V1) / [(V1+V2)/2] x 1/(P1 - P2)

Constant Composition Expansion at 66.0°C

Pressure (psig)		Relative Volume (1)	Density (g cm-3)	Instantaneous Compressibility (psi-1 x 10-6) (2)	Y-function (3)
5000		0.9637	0.7299	7.10	
4500		0.9672	0.7272	7.49	
4000		0.9710	0.7244	7.96	
3500		0.9750	0.7214	8.54	
3000		0.9793	0.7182	9.28	
2500		0.9841	0.7148	10.25	
2200		0.9873	0.7125	11.02	
2100		0.9884	0.7117	11.32	
2000		0.9895	0.7109	11.65	
1968	**Reservoir pressure**	**0.9899**	**0.7106**	**11.76**	
1900		0.9907	0.7100	12.01	
1800		0.9919	0.7092	12.41	
1700		0.9931	0.7083	12.86	
1600		0.9944	0.7073	13.38	
1500		0.9958	0.7064	14.00	
1400		0.9972	0.7054	14.77	
1300		0.9988	0.7043	15.93	
1227	**Saturation pressure**	**1.0000**	**0.7034**		
1219		1.0029			
1220		1.0026			
1219		1.0029			
1218		1.0033			
1212		1.0056			
1197		1.0113			
1164		1.0246			
1096		1.0553			2.133
1019		1.0963			2.089
923		1.1593			2.035
824		1.2429			1.978
711		1.3715			1.914
595		1.5610			1.848
480		1.8472			1.782
374		2.2743			1.722
284		2.8895			1.671
203		3.8951			1.625

(1) Relative Volume = V / Vsat ie. volume at indicated pressure per volume at saturation pressure.
(2) Instantaneous compressibility = (V2-V1) / V1 x 1/(P1-P2)
(3) Y-function = (Psat - P) / ((Pabs)(V/Vsat - 1)).

Section E - Differential Vaporisation Data - PT-3184 (Sample No.: T.03)

Differential Vaporisation at 66.0°C

Pressure (psig)	Solution Gas-Oil Ratio Rs(1)	Relative Oil Volume Bod(2)	Relative Total Volume Btd(3)	Density (g cm-3)	Deviation Factor (Z)	Gas Formation Volume Factor (4)	Incremental Gas Gravity (Air = 1.000)
1227	**391**	**1.245**	**1.245**	**0.7034**		**Saturation Pressure**	
1000	336	1.222	1.377	0.7103	0.920	0.01565	0.649
800	283	1.201	1.580	0.7163	0.930	0.01971	0.656
600	235	1.182	1.917	0.7222	0.942	0.02646	0.666
400	185	1.162	2.624	0.7280	0.955	0.03977	0.694
200	132	1.140	4.747	0.7342	0.970	0.07799	0.761
100	104	1.127	8.665	0.7382	0.978	0.14715	0.874
0	0	1.053		0.7526	0.987		1.760
	At 15.6°C =	1.000					

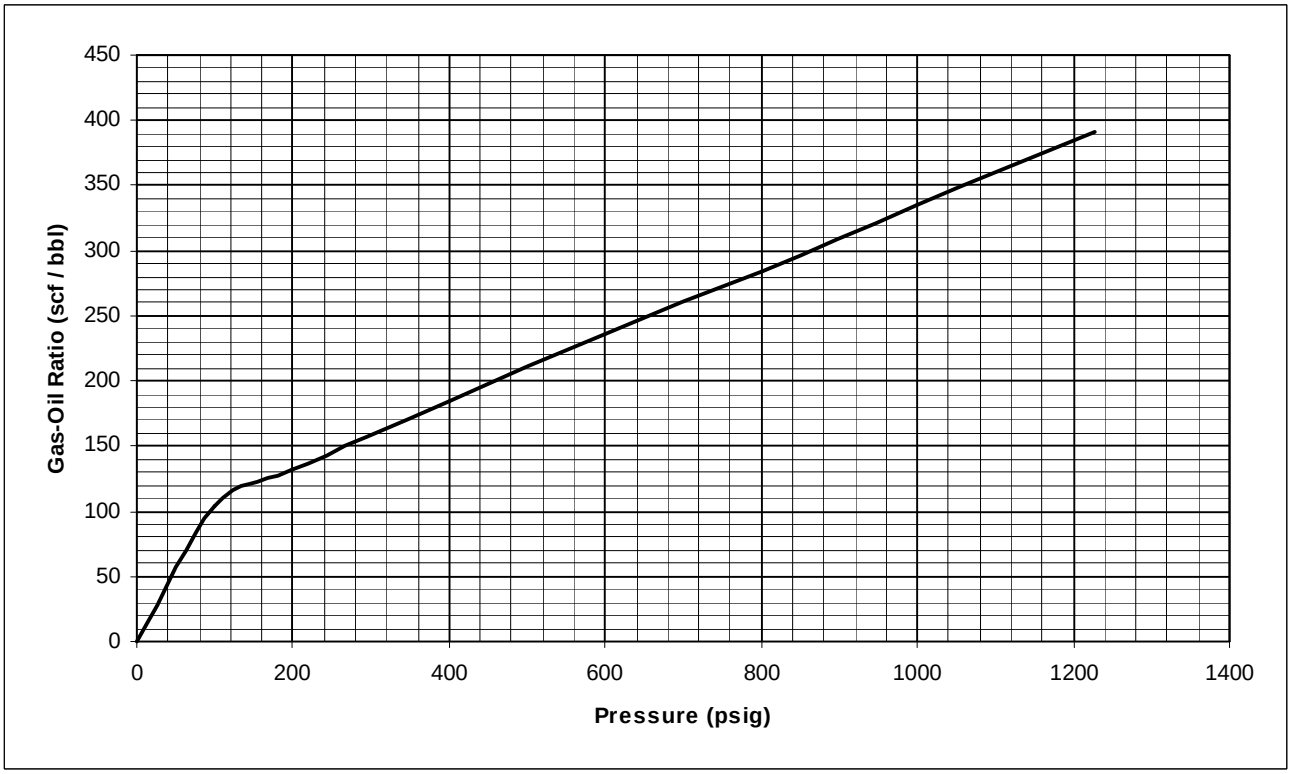
Residual Oil Properties

Density of residual oil	0.7921	g cm^{-3} at 15.6°C
°API	47.0	

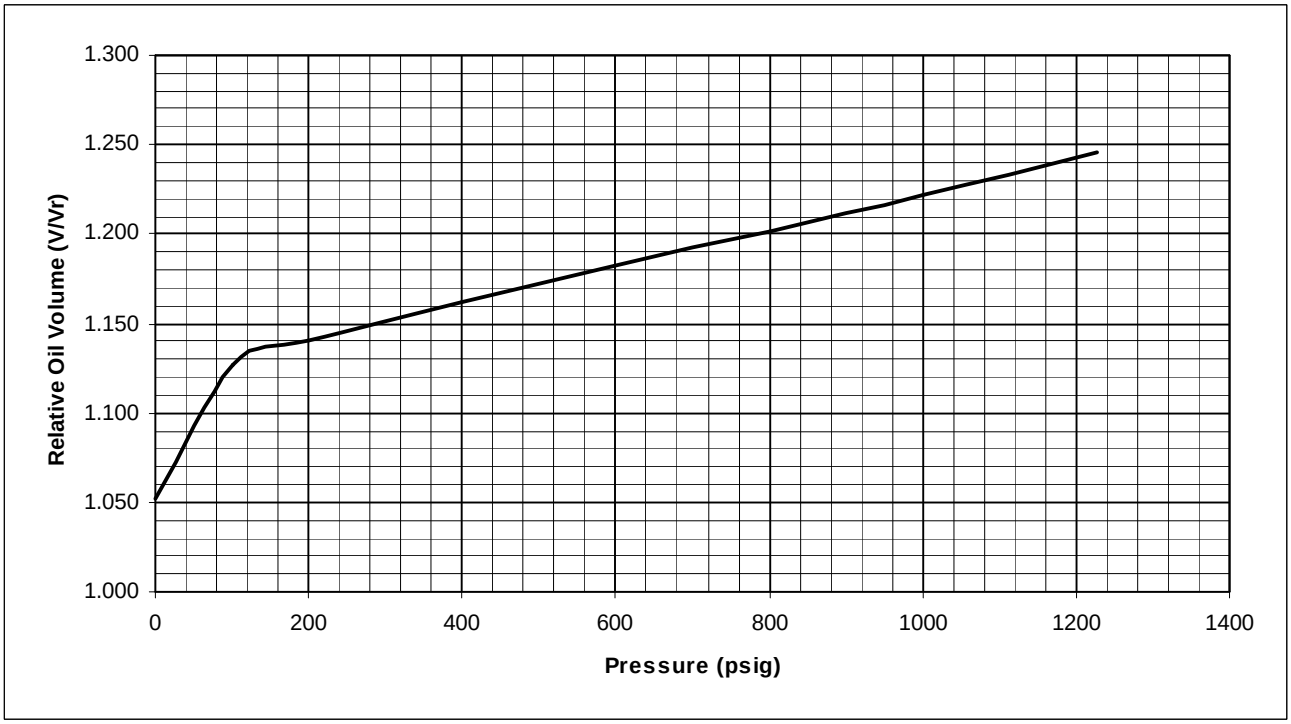
(1) GOR in cubic feet of gas at 14.70 psia and 15.6°C per barrel of residual oil at 15.6°C.
(2) Volume of oil at indicated pressure and temperature per volume of residual oil at 15.6°C.
(3) Volume of oil plus liberated gas at indicated pressure and temperature per volume of residual oil at 15.6°C.
(4) Volume of gas at indicated pressure and temperature per volume at 14.70 psia and 15.6°C.

Graphs of Differential Vaporisation

Solution Gas-Oil Ratio v Pressure



Relative Oil Volume v Pressure



Compositional Analysis of Differential Vaporisation Gases to C11+

	Sample I.D.							
	Test Stage	1	2	3	4	5	6	7
	Stage Pressure (psig)	1000	800	600	400	200	100	0
	Component (Mole%)							
H_2	Hydrogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO_2	Carbon Dioxide	1.47	1.59	1.76	2.02	2.51	2.97	1.52
N_2	Nitrogen	1.77	1.24	0.84	0.47	0.21	0.12	0.05
C_1	Methane	90.53	90.25	89.44	87.28	81.29	72.11	24.52
C_2	Ethane	2.24	2.50	2.92	3.69	5.54	7.98	8.51
C_3	Propane	1.52	1.72	1.98	2.63	4.34	6.95	17.46
iC_4	i-Butane	0.62	0.67	0.83	1.02	1.82	2.76	10.88
nC_4	n-Butane	0.52	0.57	0.67	0.86	1.48	2.37	10.62
C_5	Neo-Pentane	0.02	0.02	0.03	0.02	0.04	0.06	0.26
iC_5	i-Pentane	0.31	0.34	0.38	0.51	0.75	1.24	6.45
nC_5	n-Pentane	0.23	0.25	0.28	0.37	0.54	0.90	4.81
C_6	Hexanes	0.33	0.35	0.40	0.50	0.68	1.16	6.31
	M-C-Pentane	0.04	0.05	0.05	0.06	0.09	0.15	0.85
	Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Cyclohexane	0.06	0.07	0.07	0.09	0.12	0.20	1.01
C_7	Heptanes	0.14	0.15	0.15	0.20	0.26	0.44	2.43
	M-C-Hexane	0.09	0.10	0.09	0.12	0.15	0.26	1.46
	Toluene	0.00	0.00	0.00	0.00	0.00	0.01	0.03
C_8	Octanes	0.07	0.08	0.07	0.10	0.13	0.22	1.25
	E-Benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	M/P-Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	O-Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.01
C_9	Nonanes	0.03	0.04	0.03	0.04	0.04	0.08	0.47
	1,2,4-TMB	0.00	0.00	0.00	0.00	0.00	0.00	0.01
C_{10}	Decanes	0.01	0.01	0.01	0.02	0.01	0.02	0.22
$C_{11}+$	Undecanes plus	0.00	0.00	0.00	0.00	0.00	0.00	0.88
	Totals :	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Calculated Gas Properties							
	Gas Gravity (Air = 1.000)	0.649	0.656	0.666	0.694	0.761	0.874	1.760

Note: 0.00 means less than 0.005.

Compositional Analysis of Differential Vaporisation Residue to C36+

	Component	Mole %	Weight %
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	0.00	0.00
N_2	Nitrogen	0.00	0.00
C_1	Methane	0.00	0.00
C_2	Ethane	0.05	0.01
C_3	Propane	0.41	0.11
iC_4	i-Butane	0.84	0.30
nC_4	n-Butane	1.29	0.46
C_5	Neo-Pentane	0.07	0.03
iC_5	i-Pentane	2.08	0.92
nC_5	n-Pentane	2.13	0.94
C_6	Hexanes	6.63	3.50
	M-C-Pentane	1.65	0.85
	Benzene	0.00	0.00
	Cyclohexane	1.26	0.65
C_7	Heptanes	8.85	5.43
	M-C-Hexane	6.37	3.83
	Toluene	0.02	0.01
C_8	Octanes	11.18	7.82
	E-Benzene	0.20	0.13
	M/P-Xylene	0.54	0.35
	O-Xylene	0.12	0.08
C_9	Nonanes	7.46	5.86
	1,2,4-TMB	0.30	0.22
C_{10}	Decanes	6.10	5.31
C_{11}	Undecanes	4.56	4.10
C_{12}	Dodecanes	3.62	3.57
C_{13}	Tridecanes	3.90	4.18
C_{14}	Tetradecanes	3.23	3.76
C_{15}	Pentadecanes	3.58	4.51
C_{16}	Hexadecanes	3.14	4.27
C_{17}	Heptadecanes	3.06	4.44
C_{18}	Octadecanes	3.06	4.70
C_{19}	Nonadecanes	2.33	3.75
C_{20}	Eicosanes	1.96	3.30
C_{21}	Heneicosanes	1.62	2.88
C_{22}	Docosanes	1.35	2.53
C_{23}	Tricosanes	1.15	2.24
C_{24}	Tetracosanes	0.95	1.92
C_{25}	Pentacosanes	0.79	1.66
C_{26}	Hexacosanes	0.61	1.34
C_{27}	Heptacosanes	0.51	1.17
C_{28}	Octacosanes	0.40	0.94
C_{29}	Nonacosanes	0.34	0.84
C_{30}	Triacontanes	0.27	0.70
C_{31}	Hentriacontanes	0.24	0.62
C_{32}	Dotriacontanes	0.17	0.46
C_{33}	Tritriacontanes	0.15	0.42
C_{34}	Tetratriacontanes	0.12	0.34
C_{35}	Pentatriacontanes	0.09	0.28
$C_{36}+$	Hexatriacontanes plus	1.25	4.27
	Totals :	100.00	100.00

Note: 0.00 means less than 0.005.

Compositional Analysis of Differential Vaporisation Residue to C36+

Calculated Residue Properties		
C_7+	Mole%	86.50
	Molecular Weight (g mol-1)	177
	Density at 15.6°C (g cm-3)	0.8056
C_{11}+	Mole%	42.45
	Molecular Weight (g mol-1)	243
	Density at 15.6°C (g cm-3)	0.8517
C_{20}+	Mole%	11.97
	Molecular Weight (g mol-1)	354
	Density at 15.6°C (g cm-3)	0.8884
C_{36}+	Mole %	1.25
	Molecular Weight (g mol-1)	560
	Density at 15.6°C (g cm-3)	0.9287

Calculated Whole Sample Properties	
Average mole weight (g mol-1)	163
Density at 15.6°C (g cm-3) [Measured]	0.7921
API	47.0

Differential Vaporisation Data Converted to Production Separator Conditions

Pressure (psig)		Oil Density (g cm-3)	Solution Gas/Oil (scf / bbl) Rs(1)	Formation Volume Factor Bo(1)	Gas Formation Volume Factor Bg(2)
5000		0.7299		1.152	
4500		0.7272		1.156	
4000		0.7244		1.160	
3500		0.7214		1.165	
3000		0.7182		1.170	
2500		0.7148		1.176	
2200		0.7125		1.180	
2100		0.7117		1.181	
2000		0.7109		1.182	
1968	**Reservoir pressure**	**0.7106**		**1.183**	
1900		0.7100		1.184	
1800		0.7092		1.185	
1700		0.7083		1.187	
1600		0.7073		1.188	
1500		0.7064		1.190	
1400		0.7054		1.192	
1300		0.7043		1.194	
1227		0.7034		1.195	
1227	**Saturation pressure**	**0.7034**	**325**	**1.195**	
1000		0.7103	272	1.173	0.01565
800		0.7163	221	1.153	0.01971
600		0.7222	175	1.134	0.02646
400		0.7280	127	1.115	0.03977
200		0.7342	76	1.094	0.07799

Notes:

(1) Differential data corrected to surface separator conditions of :-

Stage 1 150 psig and 15.0°C
Stage 2 0 psig and 15.0°C

Rs = Rsfb - (Rsdb - Rsd) x (Bofb / Bodb)

Bo = Bod x (Bofb/Bodb)

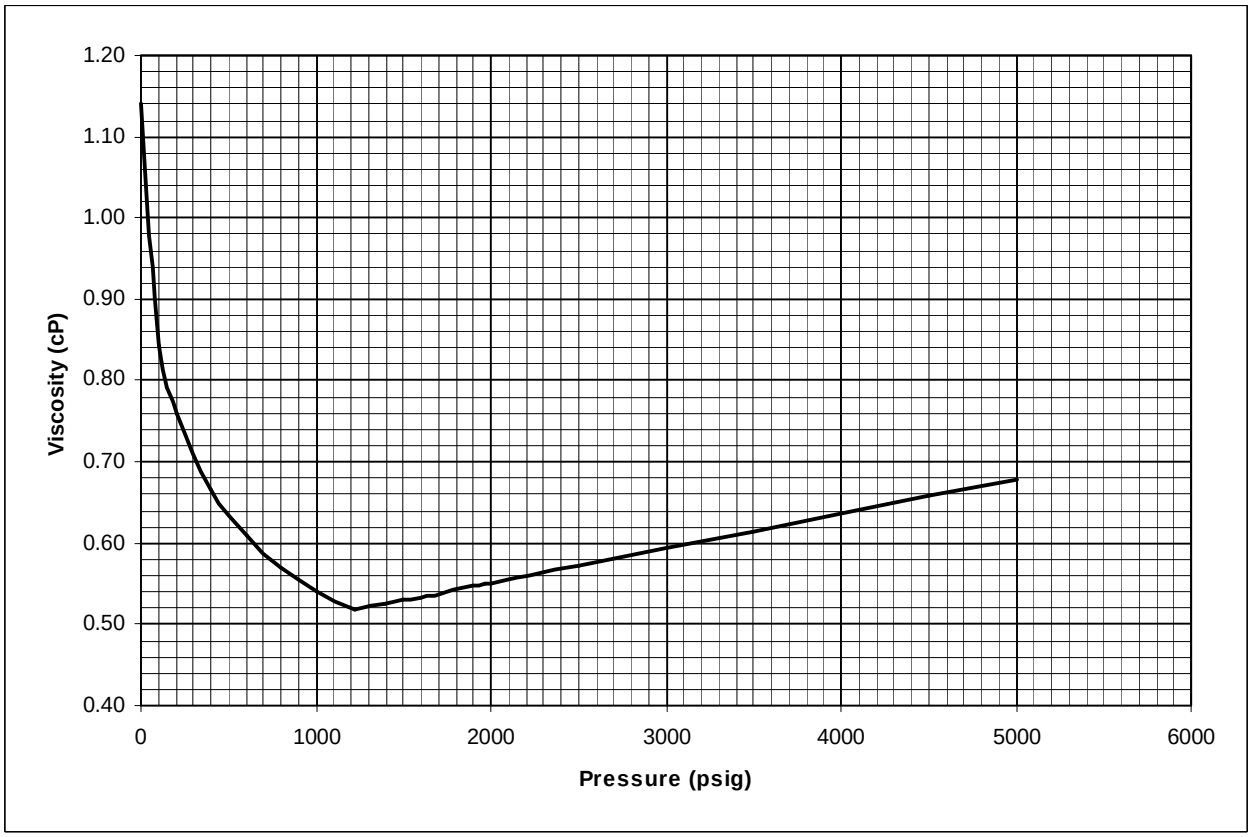
(2) Volume of gas at indicated pressure and temperature per volume at 14.70 psia and 15.6°C.

Section F - Viscosity Data - PT-3184 (Sample No.: T.03)

Reservoir Fluid Viscosity Data at 66°C

Pressure (psig)		Oil Viscosity (cP)	Calculated Gas Viscosity (cP) (1)	Oil/Gas Viscosity Ratio
5000		0.679		
4500		0.657		
4000		0.636		
3500		0.615		
3000		0.593		
2500		0.572		
2000		0.551		
1968	**Reservoir pressure**	**0.549**		
1600		0.534		
1500		0.529		
1400		0.525		
1227	**Saturation pressure**	**0.518**		
1000		0.541	0.0139	38.9
800		0.569	0.0135	42.3
600		0.608	0.0131	46.6
400		0.666	0.0126	52.8
200		0.760	0.0120	63.2
100		0.842	0.0114	73.8
0		1.140		

Reservoir Fluid Viscosity v Pressure at 66°C



(1) Calculated using the method of Lee, Gonzales and Eakin, JPT, Aug 1966.

Section G - Separator Test Data - PT-3184 (Sample NO.: T.03)

Separator Test Data

Pressure (psig)	Temperature (°C)	Gas-Oil Ratio (1)	Gas-Oil Ratio Rsfb (2)	Oil Density (g cm-3)	Formation Volume Factor Bofb (3)	Separation Volume Factor (4)	Gas Gravity of flashed gas (Air = 1.000)
1227	**66.0**	**-**	**325**	**0.7034**	**1.195**	**Saturation Pressure**	
150	15.0	239	248	0.7785		1.036	0.646
0	15.0	77	77	0.7925 (°API = 48.0)		0.999	1.101

Note

Evolved gas collected and analysed to Undecanes plus.
Stocktank oil collected and analysed to Hexatriacontanes plus.

(1) GOR in cubic feet of gas at 14.70 psia and 15.6°C per barrel of oil at indicated pressure and temperature.
(2) GOR in cubic feet of gas at 14.70 psia and 15.6°C per barrel of stocktank oil at 15.6°C.
(3) Volume of saturated oil at 1227 psig and 66.0°C per volume of stocktank oil at 15.6°C.
(4) Volume of oil at indicated pressure and temperature per volume of stocktank oil at 15.6°C.

Compositional Analysis of Separator Test Gases to C11+

	Sample I.D.		
	Test Stage	1	2
	Stage Pressure (psig)	150	0
	Component (Mole%)		
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	1.84	2.54
N_2	Nitrogen	0.98	0.15
C_1	Methane	89.68	52.92
C_2	Ethane	3.53	11.13
C_3	Propane	2.08	14.39
iC_4	i-Butane	0.70	6.41
nC_4	n-Butane	0.51	5.27
C_5	Neo-Pentane	0.02	0.13
iC_5	i-Pentane	0.23	2.47
nC_5	n-Pentane	0.15	1.63
C_6	Hexanes	0.15	1.64
	M-C-Pentane	0.02	0.19
	Benzene	0.00	0.00
	Cyclohexane	0.02	0.22
C_7	Heptanes	0.03	0.45
	M-C-Hexane	0.03	0.26
	Toluene	0.00	0.00
C_8	Octanes	0.02	0.15
	E-Benzene	0.00	0.00
	M/P-Xylene	0.00	0.00
	O-Xylene	0.00	0.00
C_9	Nonanes	0.01	0.04
	1,2,4-TMB	0.00	0.00
C_{10}	Decanes	0.00	0.01
$C_{11}+$	Undecanes plus	0.00	0.00
	Totals :	100.00	100.00
	Gas Properties		
	Gas Gravity (Air = 1.000)	0.646	1.101

Compositional Analysis of Stocktank Oil to C36+

	Component	Mole %	Weight %
H_2	Hydrogen	0.00	0.00
H_2S	Hydrogen Sulphide	0.00	0.00
CO_2	Carbon Dioxide	0.04	0.01
N_2	Nitrogen	0.00	0.00
C_1	Methane	0.00	0.00
C_2	Ethane	0.26	0.05
C_3	Propane	1.67	0.47
iC_4	i-Butane	1.78	0.66
nC_4	n-Butane	2.32	0.86
C_5	Neo-Pentane	0.02	0.01
iC_5	i-Pentane	2.74	1.26
nC_5	n-Pentane	2.60	1.20
C_6	Hexanes	7.05	3.88
	M-C-Pentane	1.62	0.87
	Benzene	0.02	0.01
	Cyclohexane	1.27	0.68
C_7	Heptanes	8.52	5.45
	M-C-Hexane	6.11	3.83
	Toluene	0.02	0.01
C_8	Octanes	10.52	7.69
	E-Benzene	0.19	0.13
	M/P-Xylene	0.52	0.35
	O-Xylene	0.10	0.07
C_9	Nonanes	6.94	5.68
	1,2,4-TMB	0.26	0.20
C_{10}	Decanes	5.79	5.26
C_{11}	Undecanes	4.26	4.00
C_{12}	Dodecanes	3.38	3.47
C_{13}	Tridecanes	3.65	4.08
C_{14}	Tetradecanes	3.03	3.67
C_{15}	Pentadecanes	3.39	4.46
C_{16}	Hexadecanes	2.93	4.15
C_{17}	Heptadecanes	2.84	4.30
C_{18}	Octadecanes	2.86	4.59
C_{19}	Nonadecanes	2.19	3.68
C_{20}	Eicosanes	1.83	3.22
C_{21}	Heneicosanes	1.51	2.81
C_{22}	Docosanes	1.27	2.47
C_{23}	Tricosanes	1.08	2.20
C_{24}	Tetracosanes	0.88	1.86
C_{25}	Pentacosanes	0.74	1.64
C_{26}	Hexacosanes	0.57	1.31
C_{27}	Heptacosanes	0.48	1.14
C_{28}	Octacosanes	0.37	0.91
C_{29}	Nonacosanes	0.32	0.82
C_{30}	Triacontanes	0.26	0.68
C_{31}	Hentriacontanes	0.22	0.60
C_{32}	Dotriacontanes	0.16	0.45
C_{33}	Tritriacontanes	0.14	0.41
C_{34}	Tetratriacontanes	0.11	0.33
C_{35}	Pentatriacontanes	0.09	0.27
$C_{36}+$	Hexatriacontanes plus	1.08	3.85
	Totals :	100.00	100.00

Note: 0.00 means < 0.005.

Compositional Analysis of Stocktank Oil to C36+

Calculated residue properties		
C_7+	Mole%	81.52
	Molecular Weight (g mol-1)	176
	Density at 15.6°C (g cm-3)	0.8048
C_{11}+	Mole%	39.64
	Molecular Weight (g mol-1)	243
	Density at 15.6°C (g cm-3)	0.8513
C_{20}+	Mole%	11.11
	Molecular Weight (g mol-1)	352
	Density at 15.6°C (g cm-3)	0.8879
C_{36}+	Mole %	1.08
	Molecular Weight (g mol-1)	560
	Density at 15.6°C (g cm-3)	0.9287
Whole sample properties		
	Average mole weight (g mol-1)	156.6
	Density at 15.6°C (g cm-3) [Measured]	0.7925
	API	48.0

Section H - Appendix

Data Used in Gas Compositional Calculations

Component		Mole Weight (g mol-1)	Density (g cm-3 at 60°F)	Component		Mole Weight (g mol-1)	Density (g cm-3 at 60°F)
Hydrogen	*	2.016	N/A	33DMC5	*	100.20	0.6954
Oxygen/(Argon)	**	31.999	1.1410	Cyclohexane	*	84.16	0.7827
Nitrogen (Corrected)	**	28.013	0.8086	2MC6/23DMC5	*	100.20	0.6917
Methane	**	16.043	0.2997	11DMCYC5/3MC6	*	99.20	0.7253
Carbon Dioxide	**	44.010	0.8172	t13DMCYC5	*	98.19	0.7528
Ethane	**	30.070	0.3558	c13DMCYC5/3EC5	*	99.20	0.7262
Hydrogen Sulphide	**	34.080	0.8006	t12DMCYC5	*	98.19	0.7554
Propane	**	44.097	0.5065	Heptanes (nC7)	*	100.20	0.6875
i-Butane	**	58.123	0.5623	22DMC6	*	114.23	0.6994
n-Butane	**	58.123	0.5834	MCYC6	*	98.19	0.7740
Neo-Pentane	*	72.15	0.5968	ECYC5	*	98.19	0.7704
i-Pentane	**	72.150	0.6238	223TMC5/24&25DMC6	*	114.23	0.7060
n-Pentane	**	72.150	0.6305	ctc124TMCYC5	*	112.21	0.7511
22DMC4	*	86.18	0.6529	ctc123TMCYC5	*	112.21	0.7574
23DMC4/CYC5	*	78.16	0.7129	Toluene	*	92.14	0.8734
2MC5	*	86.18	0.6572	Octanes (nC8)	*	114.23	0.7063
3MC5	*	86.18	0.6682	E-Benzene	*	106.17	0.8735
Hexanes (nC6)	*	86.18	0.6631	M/P-Xylene	*	106.17	0.8671
22DMC5	*	100.20	0.6814	O-Xylene	*	106.17	0.8840
M-C-Pentane	*	84.16	0.7533	Nonanes (nC9)	*	128.26	0.7212
24DMC5	*	100.20	0.6757	Decanes	***	134	0.778
223TMC4	*	100.20	0.6947	Undecanes	***	147	0.789
Benzene	*	78.11	0.8820	Dodecanes	***	161	0.800

Data Source Refs :

* ASTM Data Series Publication DS 4B (1991) - Physical Constants of Hydrocarbon and Non-Hydrocarbon Compounds.

** GPA Table of Physical Constants of Paraffin Hydrocarbons and Other Components of Natural Gas, GPA 2145-96.

*** Journal of Petroleum Technology, Nov 1978, Pages 1649-1655.
Predicting Phase Behaviour of Condensate/Crude Oil Systems Using Methane Interaction Coefficients - D.L. Katz & A. Firoozabadi.

Note :
The gas mole % compositions were calculated from the measured weight % compositions using the most detailed analysis results, involving as many of the above components as were identified. The reported component mole % compositions were then sub-grouped into the generic carbon number components.

Data Used in Liquid Compositional Calculations

Component		Mole Weight (g mol-1)	Density (g cm-3 at 60°F)	Component		Mole Weight (g mol-1)	Density (g cm-3 at 60°F)
Hydrogen	*	2.016	N/A	Undecanes	***	147	0.789
Hyd. sulphide	**	34.080	0.8006	Dodecanes	***	161	0.800
Carbon Dioxide	**	44.010	0.8172	Tridecanes	***	175	0.811
Nitrogen	**	28.013	0.8086	Tetradecanes	***	190	0.822
Methane	**	16.043	0.2997	Pentadecanes	***	206	0.832
Ethane	**	30.070	0.3558	Hexadecanes	***	222	0.839
Propane	**	44.097	0.5065	Heptadecanes	***	237	0.847
i-Butane	**	58.123	0.5623	Octadecanes	***	251	0.852
n-Butane	**	58.123	0.5834	Nonadecanes	***	263	0.857
i-Pentane	**	72.150	0.6238	Eicosanes	***	275	0.862
n-Pentane	**	72.150	0.6305	Heneicosanes	***	291	0.867
Hexanes	**	86.177	0.6634	Docosanes	***	305	0.872
Me-cyclo-pentane	*	84.16	0.7533	Tricosanes	***	318	0.877
Benzene	*	78.11	0.8820	Tetracosanes	***	331	0.881
Cyclo-hexane	*	84.16	0.7827	Pentacosanes	***	345	0.885
Heptanes	**	100.204	0.6874	Hexacosanes	***	359	0.889
Me-cyclo-hexane	*	98.19	0.7740	Heptacosanes	***	374	0.893
Toluene	*	92.14	0.8734	Octacosanes	***	388	0.896
Octanes	**	114.231	0.7061	Nonacosanes	***	402	0.899
Ethyl-benzene	*	106.17	0.8735	Triacontanes	***	416	0.902
Meta/Para-xylene	*	106.17	0.8671	Hentriacontanes	***	430	0.906
Ortho-xylene	*	106.17	0.8840	Dotriacontanes	***	444	0.909
Nonanes	**	128.258	0.7212	Tritriacontanes	***	458	0.912
1-2-4-T-M-benzene	*	120.19	0.8797	Tetratriacontanes	***	472	0.914
Decanes	**	142.285	0.7334	Pentatriacontanes	***	486	0.917

Data Source Refs :

* ASTM Data Series Publication DS 4B (1991) - Physical Constants of Hydrocarbon and Non-Hydrocarbon Compounds.

** GPA Table of Physical Constants of Paraffin Hydrocarbons and Other Components of Natural Gas GPA 2145-96.

*** Journal of Petroleum Technology, Nov 1978, Pages 1649-1655.
Predicting Phase Behaviour of Condensate/Crude Oil Systems Using Methane Interaction Coefficients - D.L. Katz & A. Firoozabadi.

Note :
The residue mole weight and density values (eg heptanes plus, undecanes plus, eicosanes plus) are calculated so that the calculated average mole weights and densities correspond with the measured values. This can lead to anomalous residue mole weights and densities where the Katz and Firoozabadi values may not be suitable for the isomer groups detected.

Report prepared by	**Report approved by**
Damien Gerard **Senior Reservoir Fluids Analyst**	**Murray Macleod** **Laboratory Supervisor**

Enclosure 1

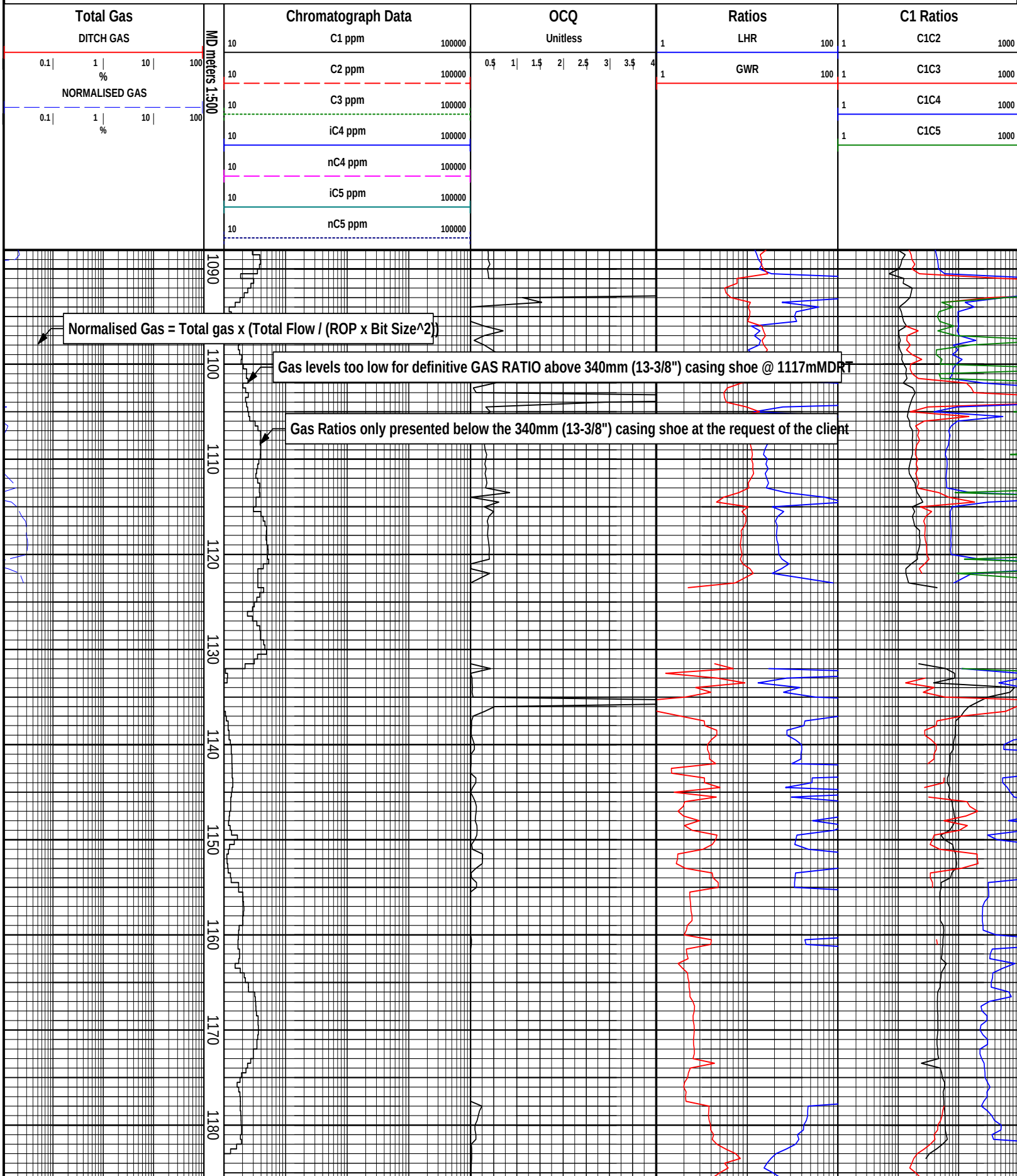
Gas Log Plot

BAKER HUGHES
INTEQ

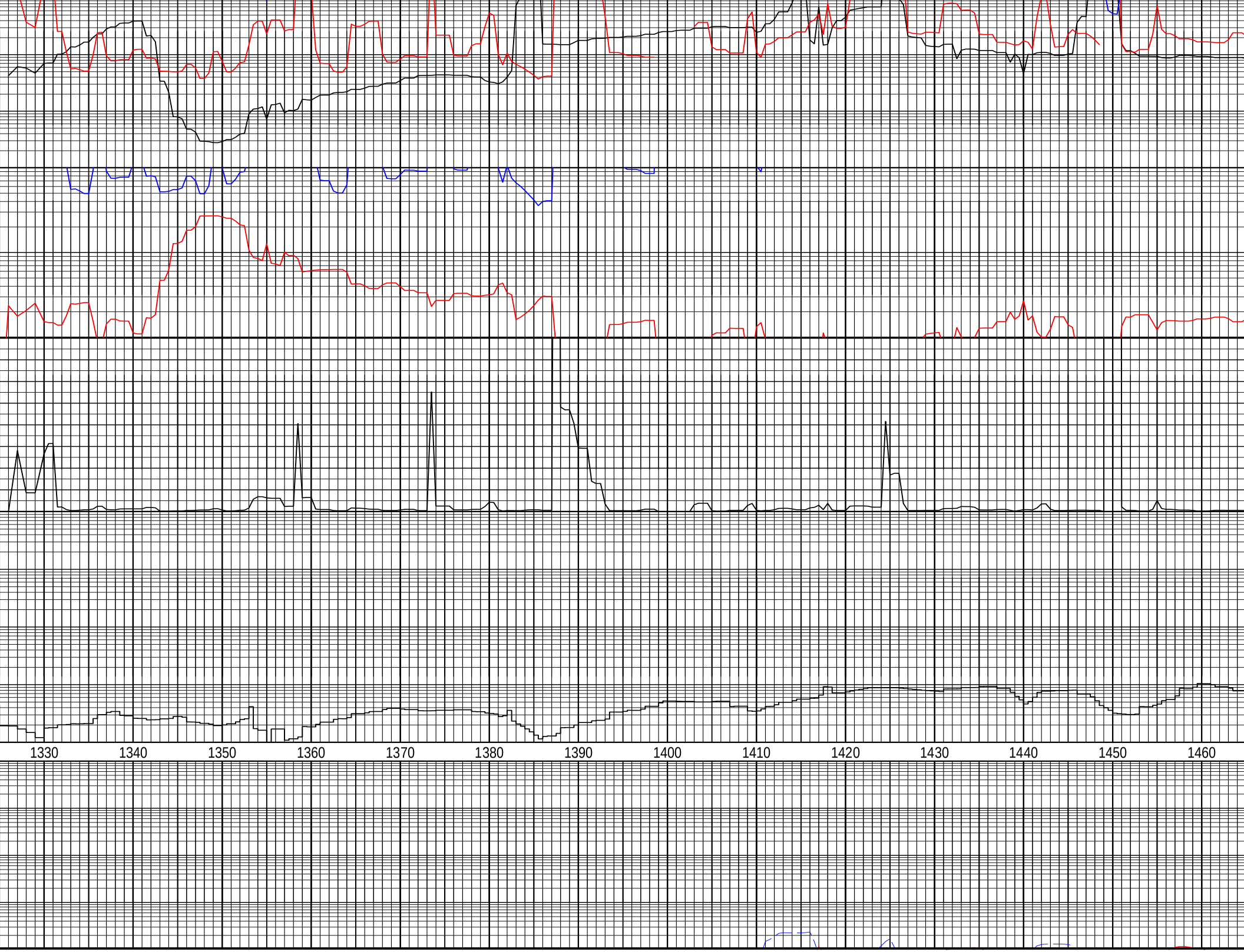
Company : 3D Oil Ltd
Well : West Seahorse-3
Interval : 1088.00 - 1820.38 meters
Created : 8/25/2008 11:36:05 AM

3D OIL

GAS RATIO PLOT




1190
1200
1210
1220
1230
1240
1250
1260
1270
1280
1290
1300
1310
1320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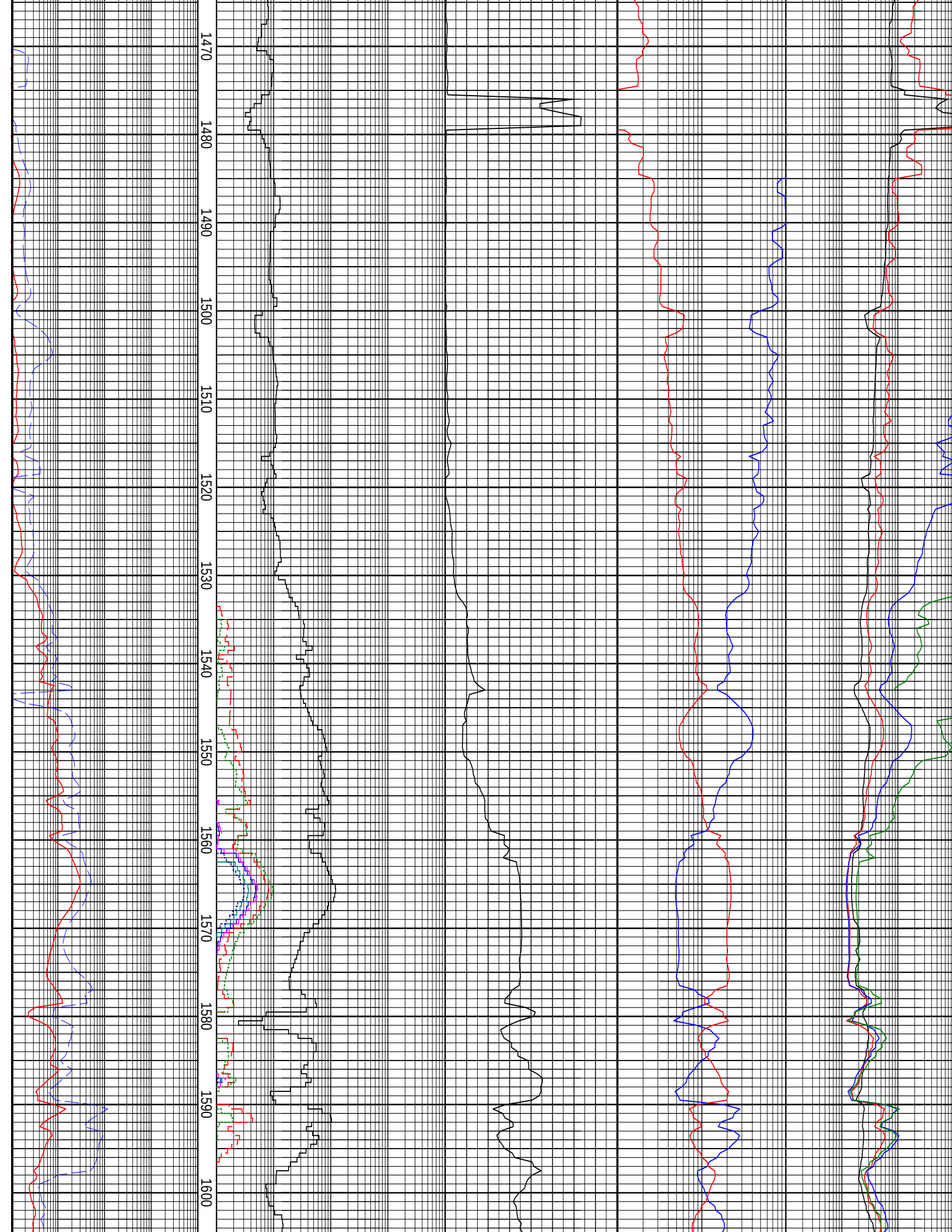
1350
1360
1370
1380
1390
1400
1410
1420
1430
1440
1450
1460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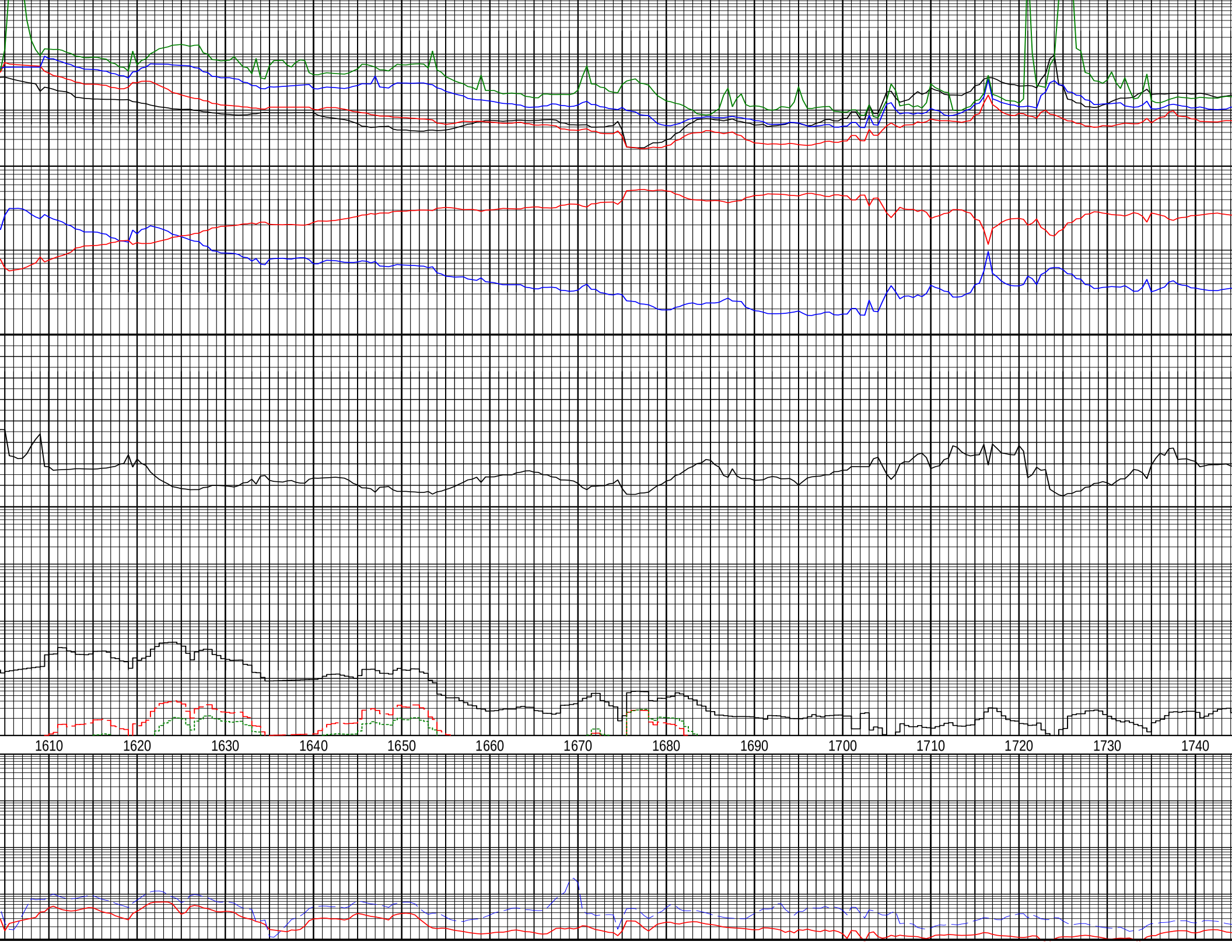
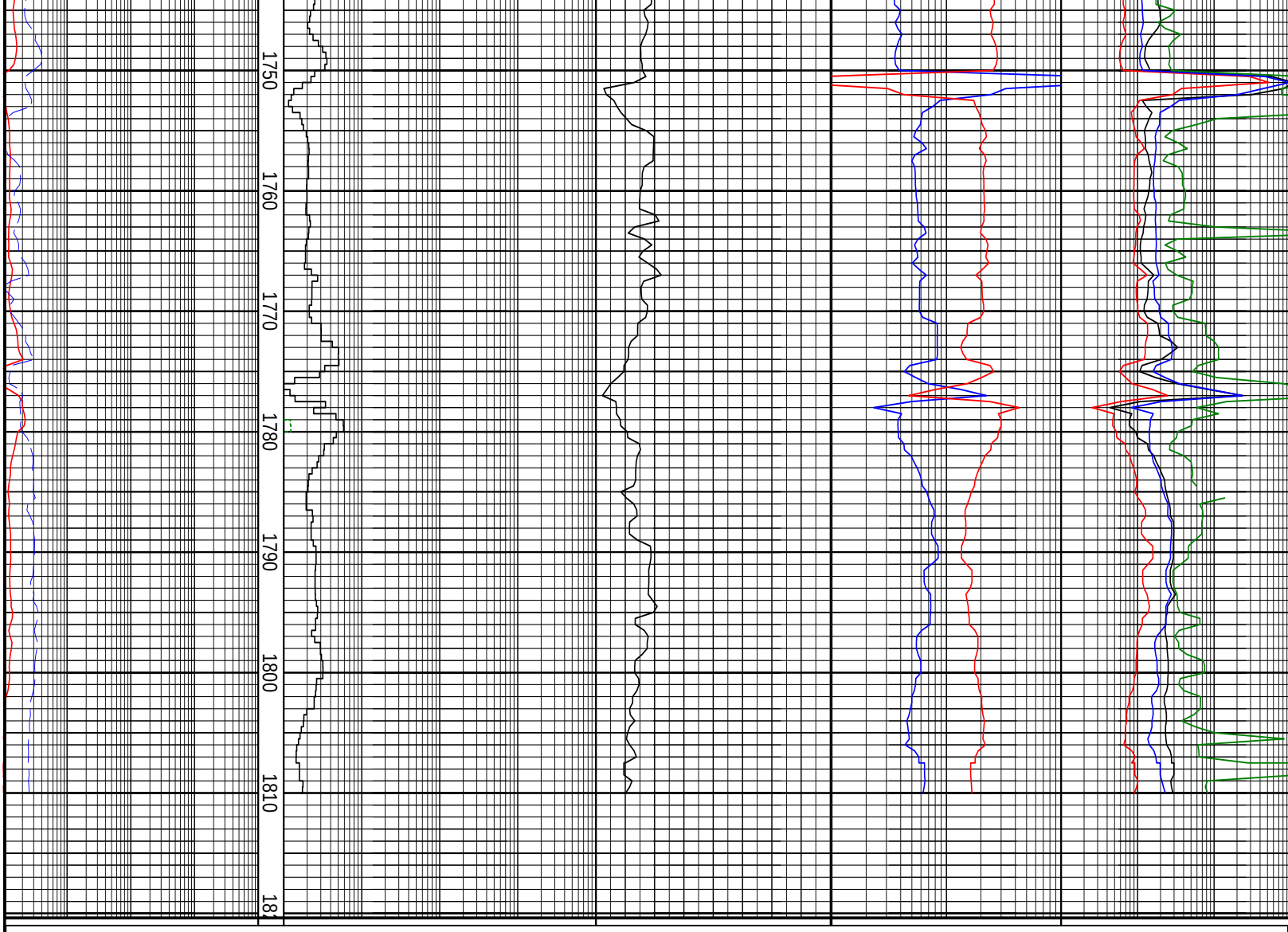
1480
1490
1500
1510
1520
1530
1540
1550
1560
1570
1580
1590
1600


1610
1620
1630
1640
1650
1660
1670
1680
1690
1700
1710
1720
1730
1740



GAS RATIO PLOT

Total Gas

DITCH GAS

0.1 | 1 | 10 | 100

%

NORMALISED GAS

0.1 | 1 | 10 | 100

%

MD meters 1:500

Chromatograph Data

C1 ppm	10	100000
C2 ppm	10	100000
C3 ppm	10	100000
iC4 ppm	10	100000
nC4 ppm	10	100000
iC5 ppm	10	100000
nC5 ppm	10	100000

OCQ

Unitless

0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4

Ratios

LHR	1	100
GWR	1	100

C1 Ratios

C1C2	1	1000
C1C3	1	1000
C1C4	1	1000
C1C5	1	1000

Enclosure 2

Drilling Data Plot

BAKER HUGHES
INTEQ

Company : 3D Oil Ltd
Well : West Seahorse-3
Interval : 59.00 - 1838.05 meters
Created : 9/2/2008 5:03:07 PM

3D OIL

DRILLING DATA PLOT

ROP (m/hr) 400 375 350 325 300 275 250 225
ROP (m/hr)
200 175 150 125 100 75 50 25
Gamma Ray 0 200
GAPI

MD meters 1:1000

FLOW IN (gpm) 300 600 900 1200 1500
STANDPIPE (psi) 1000 2000 3000 4000 5000

TOTAL RPM 70 140 210 280 350
WOB Avg (klbs) 16 32 48 64 80
MSE (MPa) 100 200 300 400 500

TORQUE Max (kft-lb) 5 10 15 20 25
TORQUE Avg (kft-lb) 5 10 15 20 25

DXC 0.3 3
MW IN (sg)
1.1 1.2 1.3 1.4 1.5
MW OUT (sg)
1.1 1.2 1.3 1.4 1.5

INTERPRETED LITHOLOGY

MW In was monitored manually as the sensor was not in the active pit.

NB1: 660 mm (26") with 914 mm (36") H/Opener
Type: Rock / Reed Y11C
Jets: 3x22, 1x16
Depth In: 77.5 m
Depth Out : 125.0 m
Drilled 47.5 m in 2.3 hrs
Grade: 0-0-RR-0-0-I-0-TD

Set 30" x 20" Csg @ 122.0 mMDRT

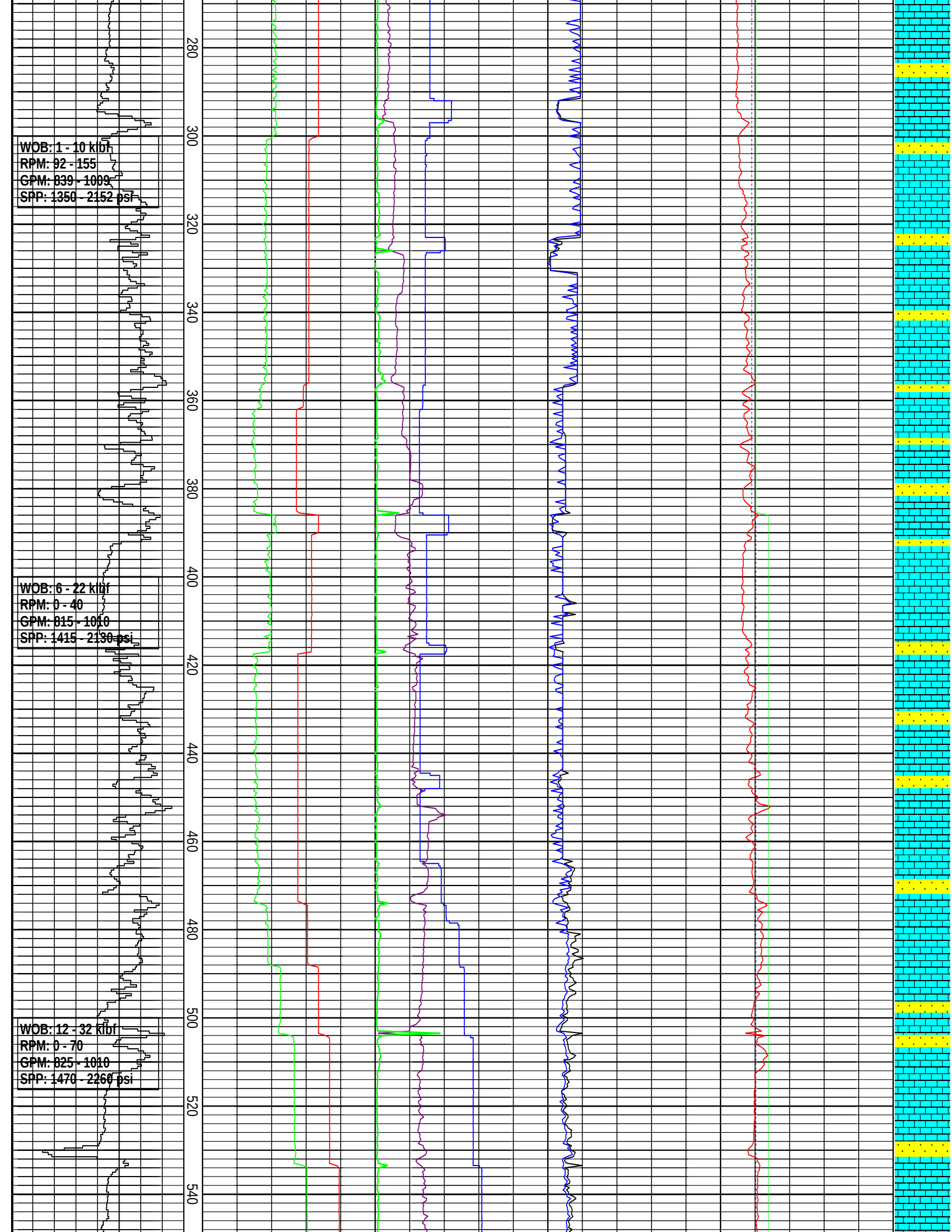
25/04/2008

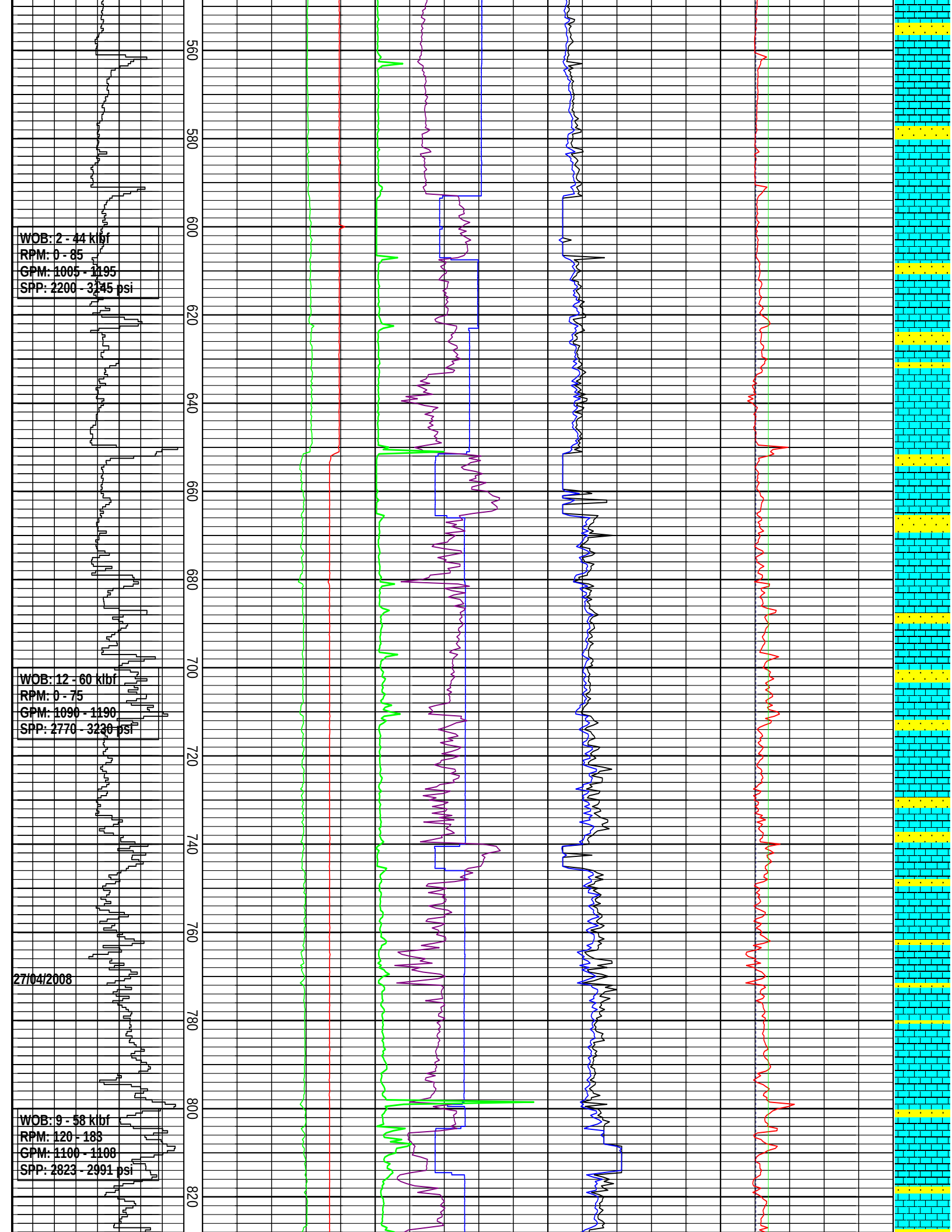
WOB: 5 - 12 klbf
RPM: 64
GPM: 593 - 1026
SPP: 182 - 698 psi

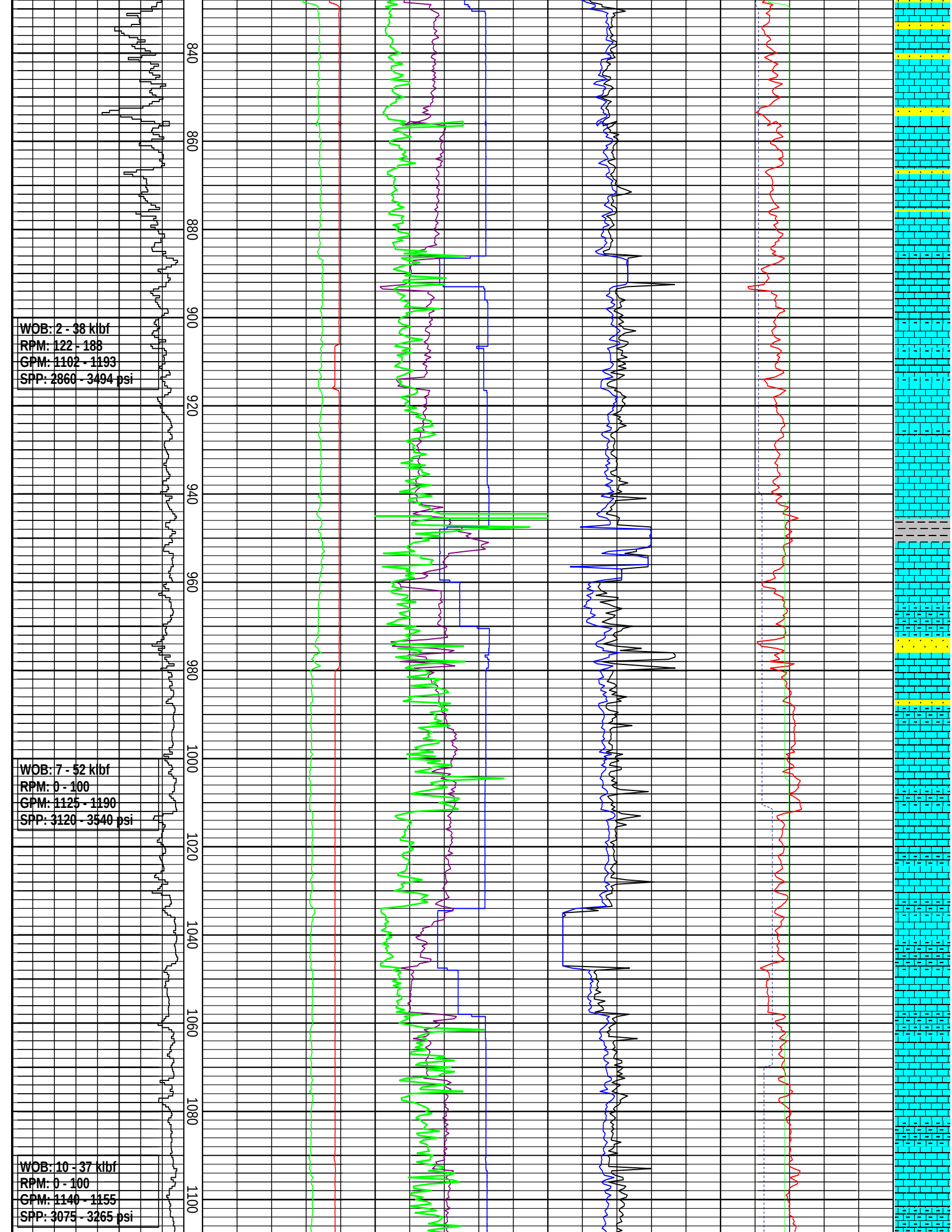
NB2: 444 mm (17.5")
Type: Rock / Hughes MXL-T1V
Jets: 3x20
Depth In: 125.0 m
Depth Out : 1123.0 m
Drilled 998.0 m in 27.8 hrs
Grade:2-2-WT-A-E-I-BT-TD

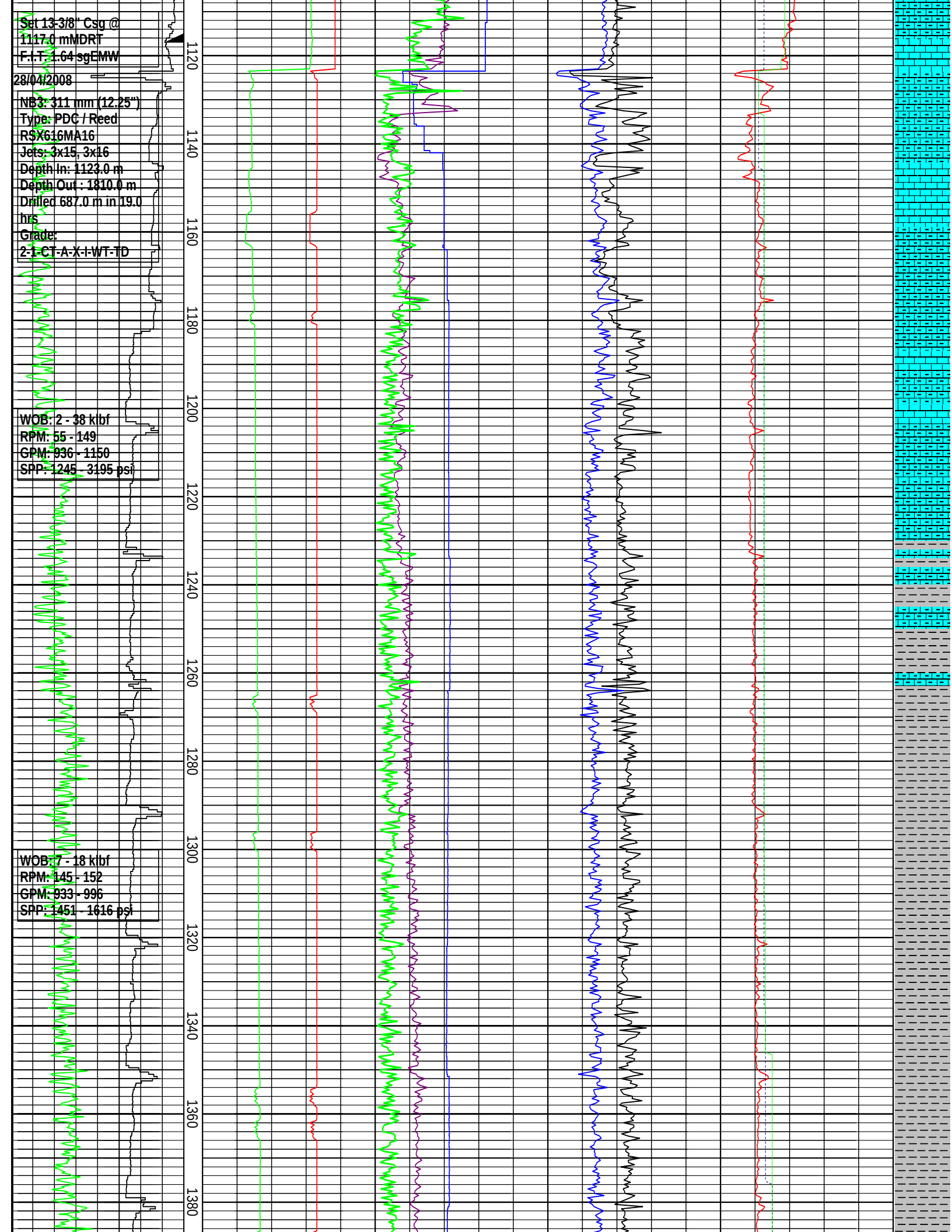
WOB: 1 - 13 klbf
RPM: 65 - 174
GPM: 728 - 1184
SPP: 756 - 1674 psi

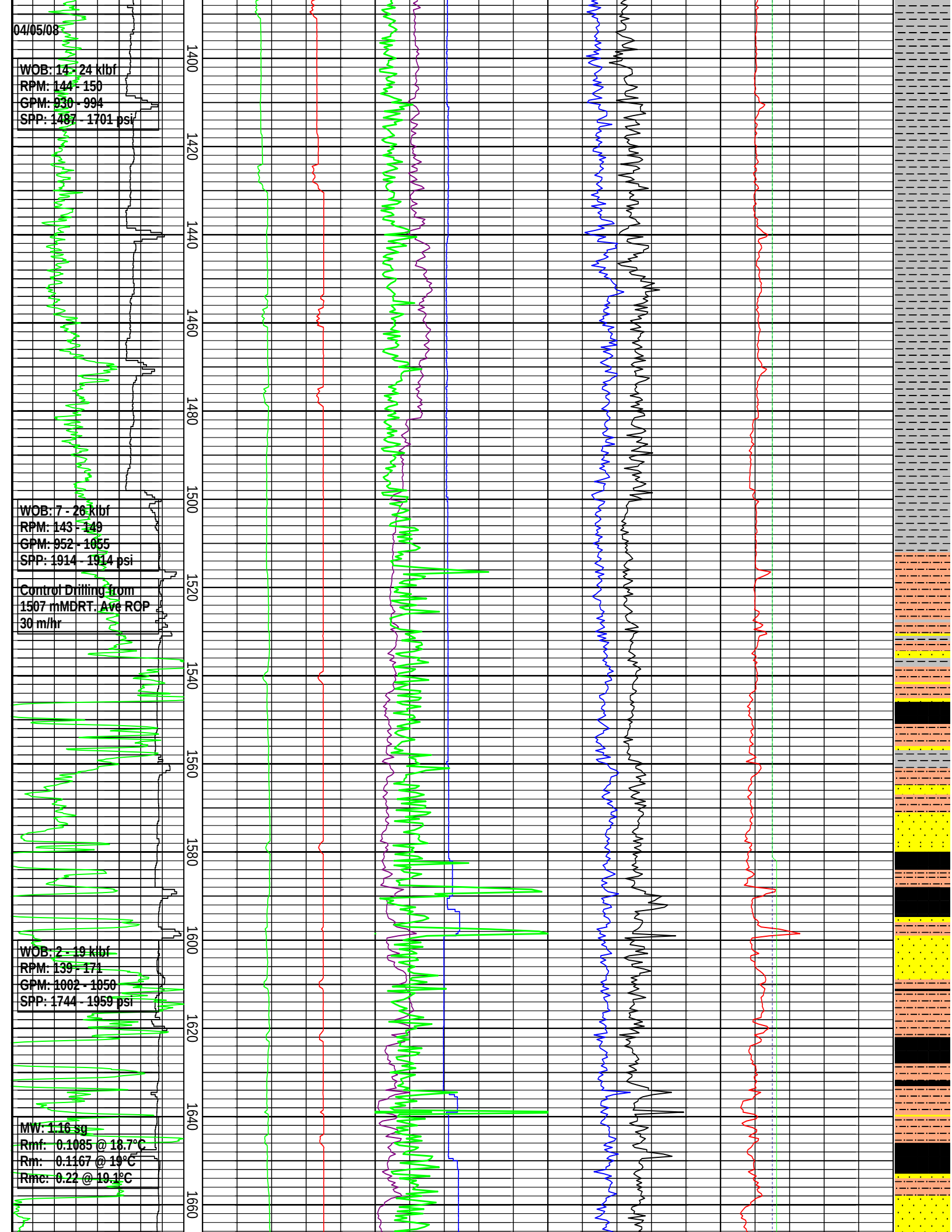
60 80 100 120 140 160 180 200 220 240 260

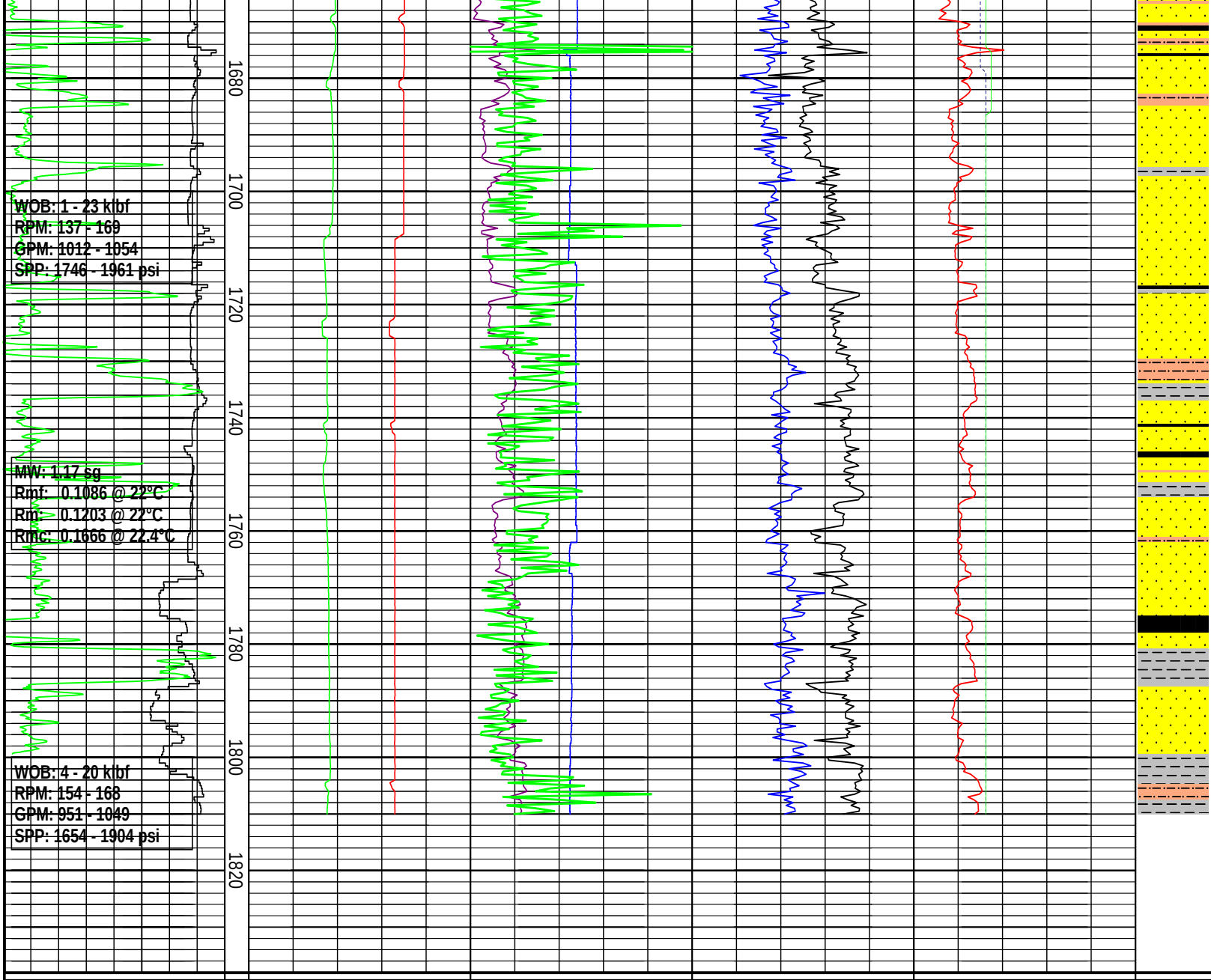

WOB: 1 - 10 klbf
RPM: 92 - 155
GPM: 839 - 1009
SPP: 1350 - 2152 psi
WOB: 6 - 22 klbf
RPM: 0 - 40
GPM: 815 - 1010
SPP: 1415 - 2130 psi
WOB: 12 - 32 klbf
RPM: 0 - 70
GPM: 825 - 1010
SPP: 1470 - 2260 psi
280
300
320
340
360
380
400
420
440
460
480
500
520
540


560
580
600
620
640
660
680
700
720
740
760
780
800
820
WOB: 2 - 44 klbf
RPM: 0 - 85
GPM: 1005 - 1195
SPP: 2200 - 3145 psi
WOB: 12 - 60 klbf
RPM: 0 - 75
GPM: 1090 - 1190
SPP: 2770 - 3230 psi
27/04/2008
WOB: 9 - 58 klbf
RPM: 120 - 183
GPM: 1100 - 1108
SPP: 2823 - 2991 psi


840
860
880
900
920
940
960
980
1000
1020
1040
1060
1080
1100
WOB: 2 - 38 klbf
RPM: 122 - 188
GPM: 1102 - 1193
SPP: 2860 - 3494 psi
WOB: 7 - 52 klbf
RPM: 0 - 100
GPM: 1125 - 1190
SPP: 3120 - 3540 psi
WOB: 10 - 37 klbf
RPM: 0 - 100
GPM: 1140 - 1155
SPP: 3075 - 3265 psi


Set 13-3/8" Csg @
1117.0 mMDRT
F.I.T. 1.64 sgEMW
28/04/2008
NB3: 311 mm (12.25")
Type: PDC / Reed
RSX616MA16
Jets: 3x15, 3x16
Depth In: 1123.0 m
Depth Out : 1810.0 m
Drilled 687.0 m in 19.0
hrs
Grade:
2-1-CT-A-X-I-WT-TD
WOB: 2 - 38 klbf
RPM: 55 - 149
GPM: 936 - 1150
SPP: 1245 - 3195 psi
WOB: 7 - 18 klbf
RPM: 145 - 152
GPM: 933 - 996
SPP: 1451 - 1616 psi
1120
1140
1160
1180
1200
1220
1240
1260
1280
1300
1320
1340
1360
1380


04/05/08
WOB: 14 - 24 klbf
RPM: 144 - 150
GPM: 930 - 994
SPP: 1487 - 1701 psi
WOB: 7 - 26 klbf
RPM: 143 - 149
GPM: 952 - 1055
SPP: 1914 - 1914 psi
Control Drilling from 1507 mMDRT. Ave ROP 30 m/hr
WOB: 2 - 19 klbf
RPM: 139 - 171
GPM: 1002 - 1050
SPP: 1744 - 1959 psi
MW: 1.16 sg
Rmf: 0.1085 @ 18.7°C
Rm: 0.1167 @ 19°C
Rmc: 0.22 @ 19.1°C
1400
1420
1440
1460
1480
1500
1520
1540
1560
1580
1600
1620
1640
1660



DRILLING DATA PLOT

ROP (m/hr) 400 375 350 325 300 275 250 225
ROP (m/hr)
200 175 150 125 100 75 50 25
Gamma Ray
0 200
GAPI

MD meters 1:1000

FLOW IN (gpm)
300 600 900 1200 1500
STANDPIPE (psi)
1000 2000 3000 4000 5000

TOTAL RPM
70 140 210 280 350
WOB Avg (klbs)
16 32 48 64 80
MSE (MPa)
100 200 300 400 500

TORQUE Max (kft-lb)
5 10 15 20 25
TORQUE Avg (kft-lb)
5 10 15 20 25

0.3 DXC 3
MW IN (sg)
1.1 1.2 1.3 1.4 1.5
MW OUT (sg)
1.1 1.2 1.3 1.4 1.5

INTERPRETED LITHOLOGY

Enclosure 3

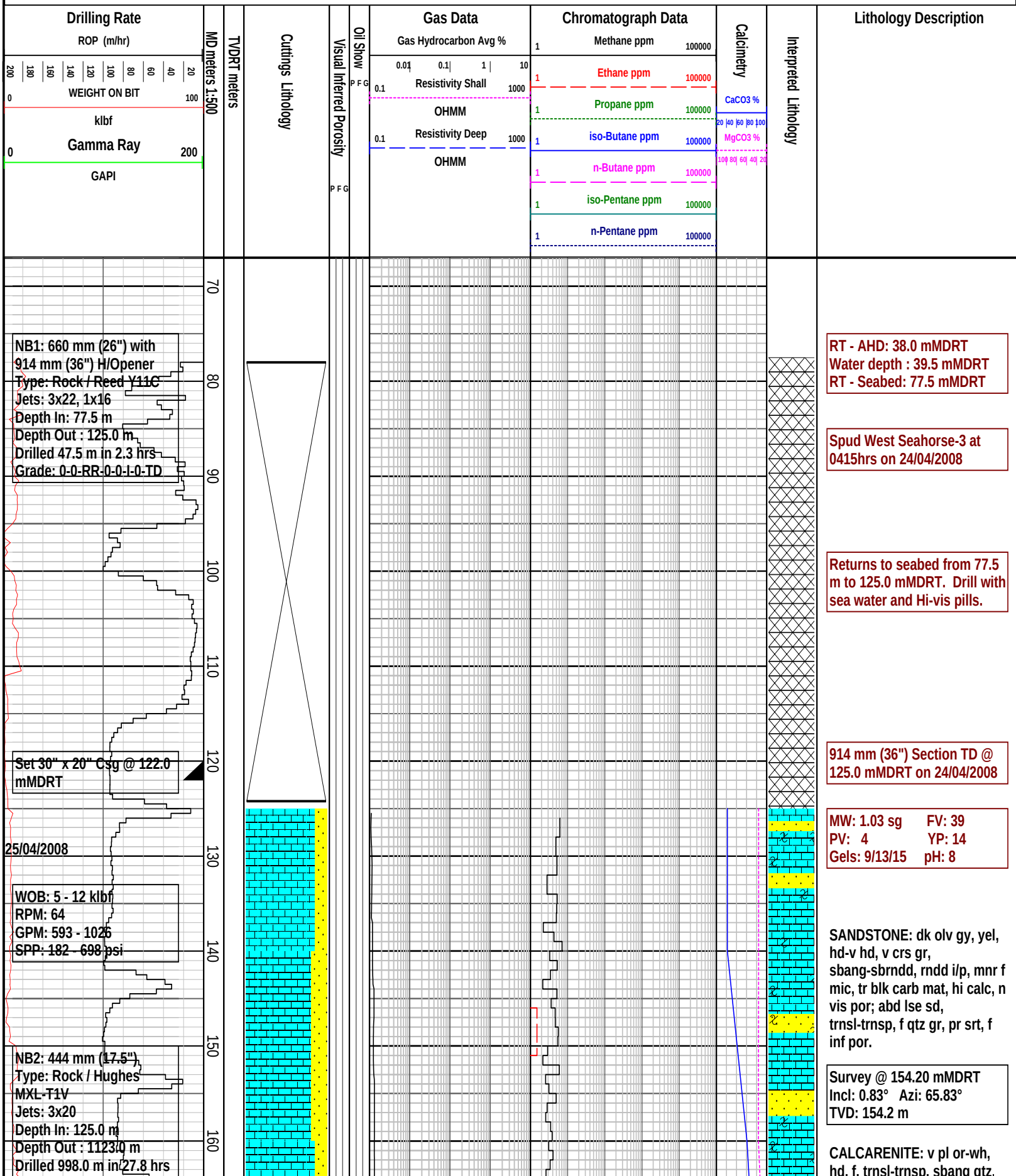
Mud Log Plot

BAKER HUGHES INTEQ

Company : 3D Oil Ltd
Well : West Seahorse-3
Interval : 67.00 - 1820.90 meters
Created : 24/Sep/2008 4:14:42 PM

3D OIL

FORMATION EVALUATION LOG



RT - AHD: 38.0 mMDRT
Water depth : 39.5 mMDRT
RT - Seabed: 77.5 mMDRT

Spud West Seahorse-3 at 0415hrs on 24/04/2008

Returns to seabed from 77.5 m to 125.0 mMDRT. Drill with sea water and Hi-vis pills.

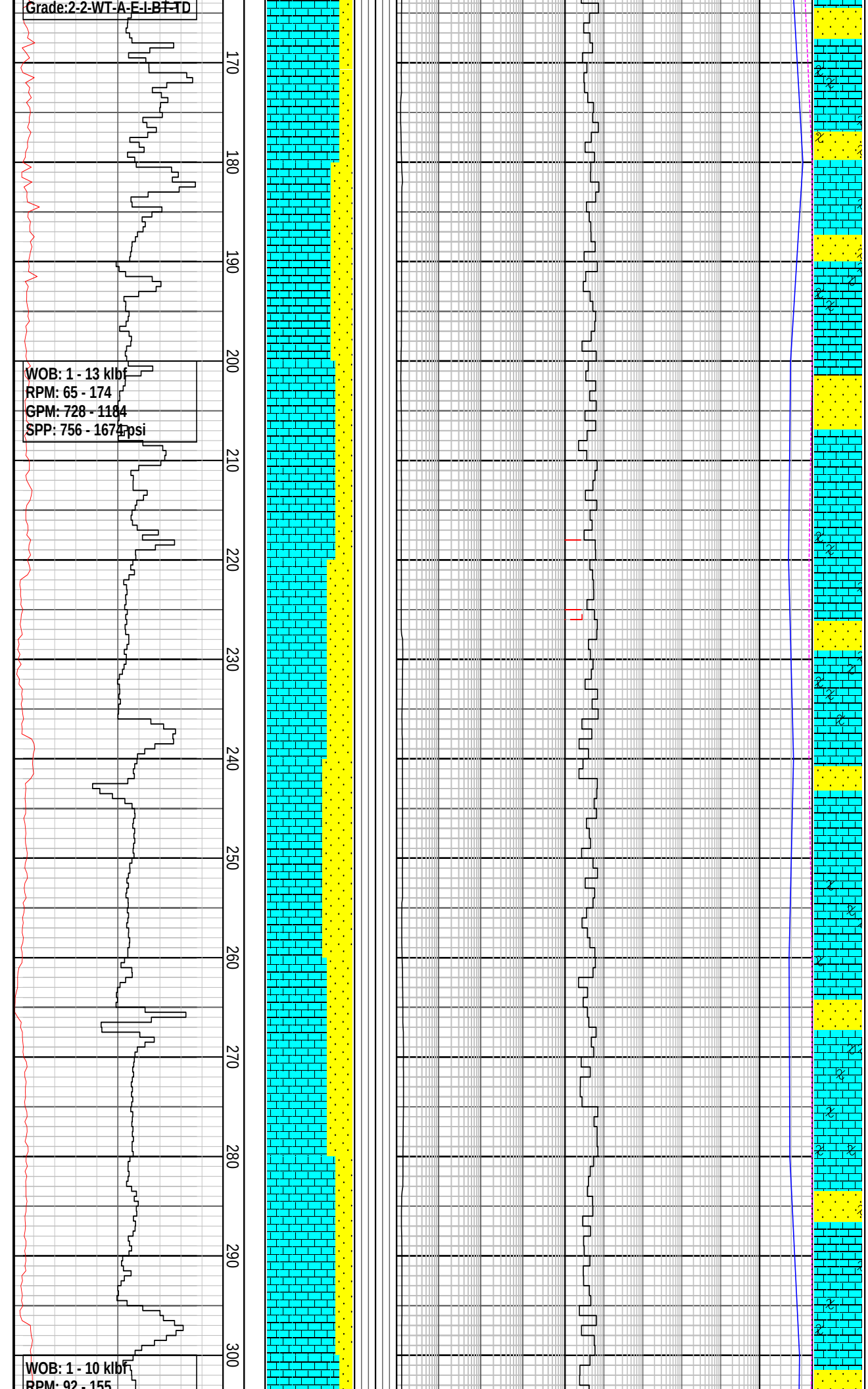
914 mm (36") Section TD @ 125.0 mMDRT on 24/04/2008

MW: 1.03 sg FV: 39
PV: 4 YP: 14
Gels: 9/13/15 pH: 8

SANDSTONE: dk olv gy, yel, hd-v hd, v crs gr, sbang-sbrndd, rndd i/p, mnr f mic, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, f qtz gr, pr srt, f inf por.

Survey @ 154.20 mMDRT
Incl: 0.83° Azi: 65.83°
TVD: 154.2 m

CALCARENITE: v pl or-wh, hd, f, trnsl-trnsp, sbang qtz,



com f musc & biot flk, wl cmt calc cmt, pr por.

SANDSTONE: dk olv gy, yel, hd- v hd, v crs gr, sbang-sbrndd, rndd i/p, mnr f musc & biot flks, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, f qtz gr, pr srt.

Survey @ 182.420 mMDRT
Incl: 2.72° Azi: 71.56°
TVD: 182.4 m

CALCARENITE: v pl or-wh, trnsl-trnsp, hd, tr f qtz gr, sbang calct, calc frag, mnr shl frag, mnr-com foss, wl calc cmt, p vis por.

Survey @ 210.69 mMDRT
Incl: 4.37° Azi: 68.83°
TVD: 210.6 m

SANDSTONE: dk olv gy, yel, hd-v hd, v crs calc gr, sbang-sbrndd, rndd i/p, mnr f mic flks, tr blk carb mat, hi calc, n vis por; abd lse sd, trnsl-trnsp, vf-f qtz,

pr srt, g inf por.

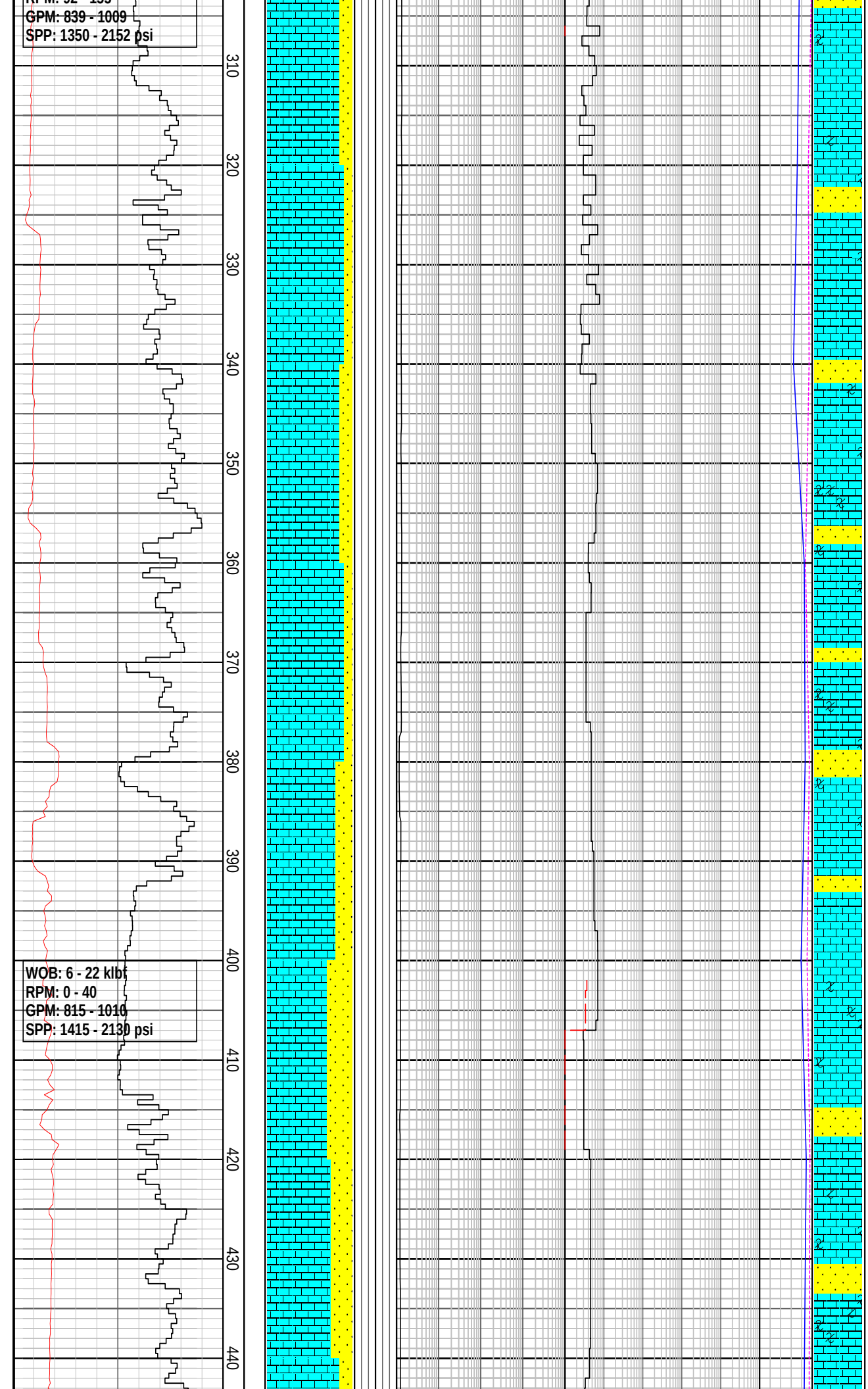
Survey @ 240.38 mMDRT
Incl: 6.29° Azi: 66.14°
TVD: 240.2 m

CALCARENITE: v pl or-wh, trnsl-trnsp, hd, tr f qtz gr, sbang calct gr, mnr shl frag, rr foss, rr calc frag, wl calc cmt, vp- p vis por

Survey @ 269.55 mMDRT
Incl:8.46° Azi: 64.16°
TVD: 269.1 m

CALCARENITE: v pl or-wh, trnsl, f gr, m-crs gr, sbang calct, hd, abd shl frag, rr foss, rr calc frag, calc cmt, n vis por, f inf por

Survey @ 299.18 mMDRT
Incl: 10.92° Azi: 63.65°



TVD: 298.3 m

SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, sbang-sbrndd, pr srt, mnr calct gr, mnr f mic, tr blk carb mat, hi calc, abd lse sd, trnsp, f-m crs qtz gr, g vis por

Survey @ 328.89 mMDRT
Incl: 13.72° Azi: 61.80°
TVD: 327.3 m

CALCARENITE: v pl org-wh, trnsl, hd, f-m & crs calct gr, tr sbang qtz gr, mnr shl frag, rr foss, rr calc frag, calc cmt, p vis por

Survey @ 358.27 mMDRT
Incl: 17.82° Azi: 63.93°
TVD: 355.6 m

SANDSTONE: lt olv gy-olv gy, yel, abd trnsl-trnsp, hd-v hd, f-v crs gr , sbang- sbrnd, pr srt, tr blk carb mat, v calc, pr cmt, com lse sd, m qtz gr, mnr calc gr, g vis por

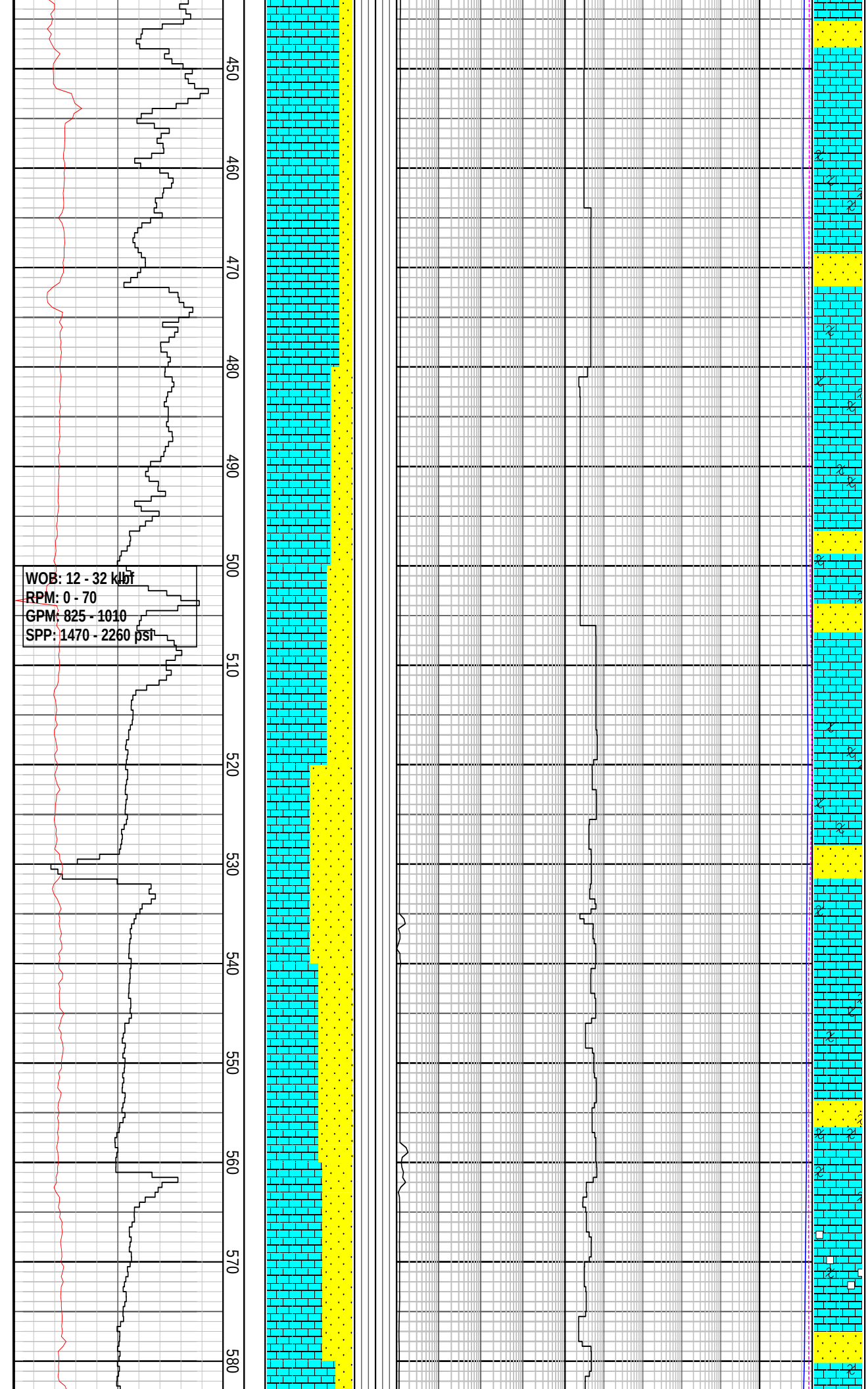
CALCARENITE: v pl or-wh, med hd-hd, abd trnsl-trnsp, m-crs calc gr, mnr f-m shl frag, rr foss, tr sbang qtz gr, calc cmt, p vis por

Survey @ 388.46 mMDRT
Incl:17.84° Azi: 64.65°
TVD: 384.30 m

MW: 1.11 sg FV: 40
PV: 4 YP: 14
Gels: 9/13/15 pH: 8

Survey @ 417.21 mMDRT
Incl: 21.76° Azi: 64.94°
TVD: 411.4 m

SANDSTONE: lt olv gy, yel, trnsl-trnsp, hd-v hd, f qtz gr, pred lse qtz gr, ang-sbang, rndd i/p, pr srt, mnr calct gr, mnr f musc, biot flk, tr blk carb mat, hi calc, p inf por



Survey @ 446.30 mMDRT
Incl: 26.49° Azi: 63.72°
TVD: 437.9 m

CALCARENITE: m gy-brnsh gy, lt olv gy, org-wh, m hd-v hd, m-crs calc gr, sbang-sbrndd, f-m shl frag, rr foss, abd calc frag, n vis por.

SAND: abd lse qtz, trnsl-trnsp, f-v crs gr, sbang, v calc, p inf por.

Survey @ 476.28 mMDRT
Incl: 27.59° Azi: 64.07°
TVD: 464.6 m

SAND: adb lse qtz, trnsp-trnsl, f-m gr, ang-sbang, sbrndd i/p, pr srt, tr carb mat, tr pyr, p inf por.

Survey @ 505.67 mMDRT
Incl: 26.62° Azi: 62.93°
TVD: 490.8 m

CALCARENITE: yel gy-lt gy, or-wh, m hd-v hd, vf-f calct gr, v crs calct i/p, ang-sbang, mnr-com f-m shl frag, rr foss, mrn blk lit, wl cmt, inf calct cmt, p inf por.

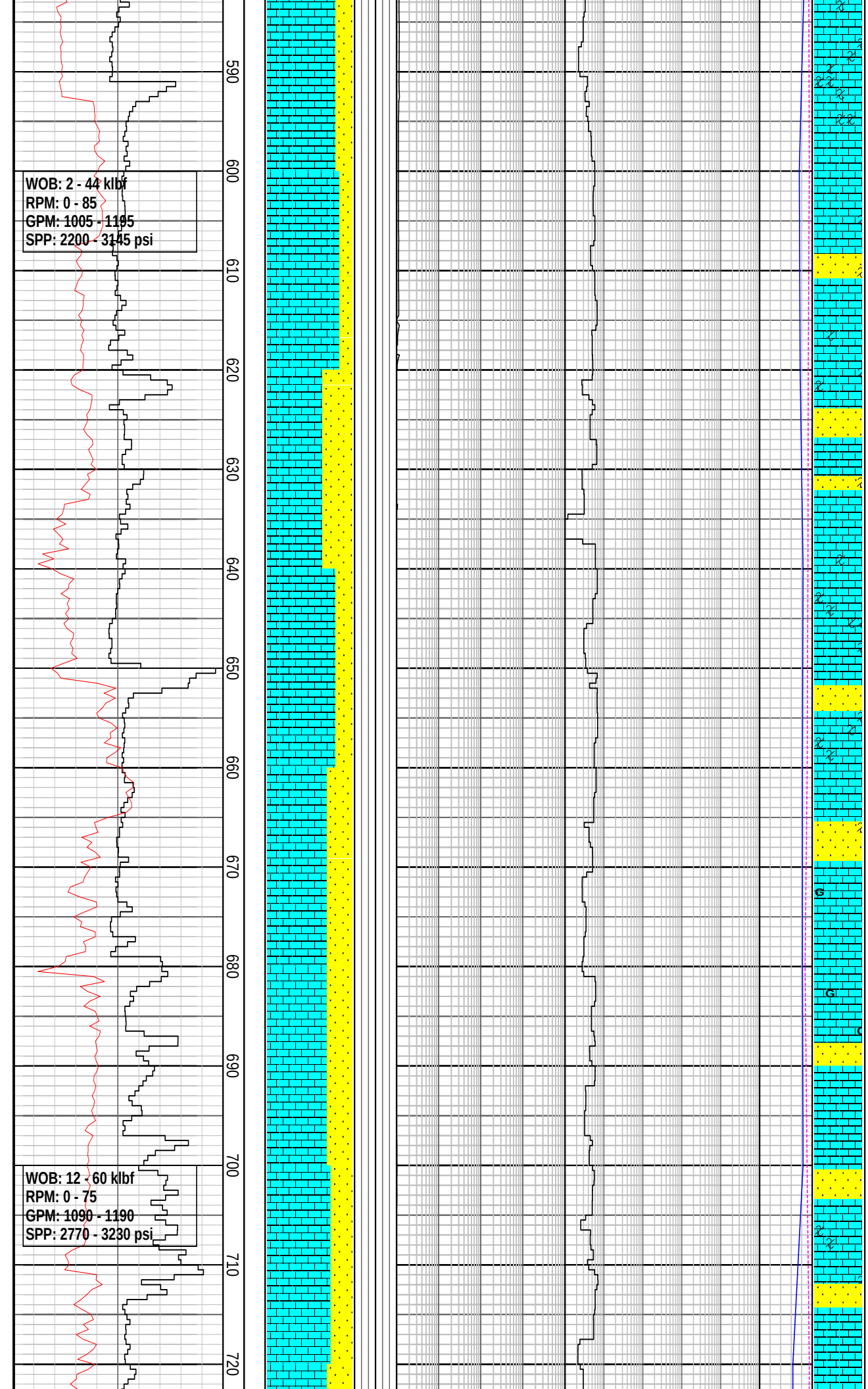
Survey @ 534.94 mMDRT
Incl: 25.98° Azi: 64.99°
TVD: 517.0 m

CALCARENITE: yel gy-lt gy, lt olv gy, m hd-v hd, vf-m calct, ang-sbrndd, abd shl frag, rr foss, mnr blk lit, rr pyr, tr glau, wl cmt, inf calc. cmt, p inf por.

SAND: abd lse qtz, or-wh, trnsl, pl yel or, trnsl, vf-f gr, mod calc, f inf por.

Survey @ 564.20 mMDRT
Incl: 25.09° Azi: 64.81°
TVD: 543.4 m

CALCARENITE: m gy, yel gy, lt olv gy, m hd-v hd, m-crs calct, ang-sbang, com-abd



f-m shl frag, rr foss, tr glau, f vis por (moldic por i/p)

MW: 1.14 sg FV: 41
PV: 8 YP: 24
Gels: 10/12/15 pH: 8

CALCARENITE: m gy, yel gy, lt olv gy, m hd-v hd, m-crs calct, ang-sbang, abd shl frag, rr foss, tr glau, n vis por.

SAND: or-wh, trnsl-trnsp, lse qtz, f-m & crs gr, ang-sbang, tr pyr, p inf por.

Survey @ 622.88 mMDRT
Incl: 26.34° Azi: 65.72°
TVD: 596.3 m

SANDSTONE: lt olv gy, wh, trnsl-trnsp, f-m, sbang, pr srt, tr foss, tr pyr, wl cmt (calct cmt), sl-mod calc, p vis por.

Survey @ 653.06 mMDRT
Incl: 26.88° Azi: 63.47°
TVD: 623.3 m

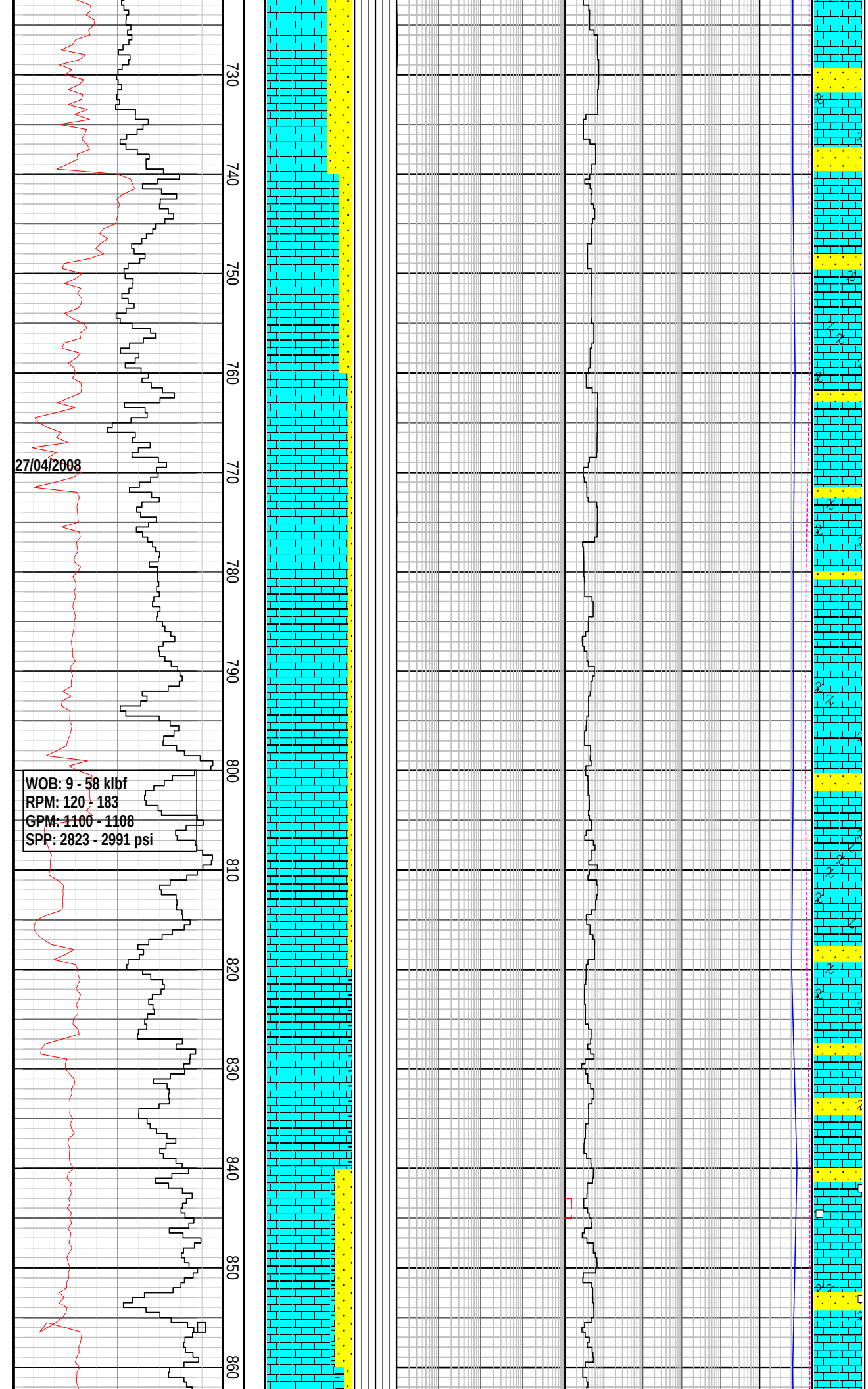
CALCARENITE: yel gy-lt gy, lt olv gy, or-wh, m hd- hd, v f-m calct gr, mnr f-m shl frag, rr foss, mnr blk lit, tr-rr glau, wl cmt, p inf por.

Survey @ 682.2 mMDRT
Incl: 27.67° Azi: 62.3°
TVD: 649.2 m

SANDSTONE: lt olv gy, wh, trnsl-trnsp, m hd-hd, f-m qtz, sbang, pr srt, tr pyr, sl-mod calc, wl cmt (calct), p vis por.

Survey @ 711.65 mMDRT
Incl: 27.35° Azi: 62.78°
TVD: 675.3 m

CALCARENITE: lt olv gy-olv



gy, v f-f & m calct gr, m hd-hd, ang-sbang, mnr f-m shl frag, rr foss, mnr blk lit, tr glau, wl cmt, pr vis por.

Survey @ 740.89 mMDRT
Incl: 27.59° Azi: 61.96°
TVD: 701.2 m

CALCARENITE: lt olv gy-gnsh gy, trnsl, opq i/p, hd-v hd, fri i/p, m-v crs calct gr, ang-sbang, sbrndd i/p, tr foss frag, tr glau, p vis por.

MW: 1.10 sg FV: 48
PV: 8 YP: 24
Gels: 10/12/15 pH: 8.5

Survey @ 771.14 mMDRT
Incl: 27.57° Azi: 61.42°
TVD: 728.10 m

CALCARENITE: lt olv gy-gn gy, dk gy i/p, trnsl-opq i/p, hd-v hd, fri i/p, vf-m calct gr, ang-sbang, mnr shl frag, tr foss, tr glau, grad to CLCLT, p vis por.

CALCILUTITE: wh, lt olv gy, sft, calc slty mtx, com foram, tr glau, tr vf qtz gr.

Survey @ 800.56 mMDRT
Incl: 27.44° Azi: 61.28°
TVD: 754.20 m

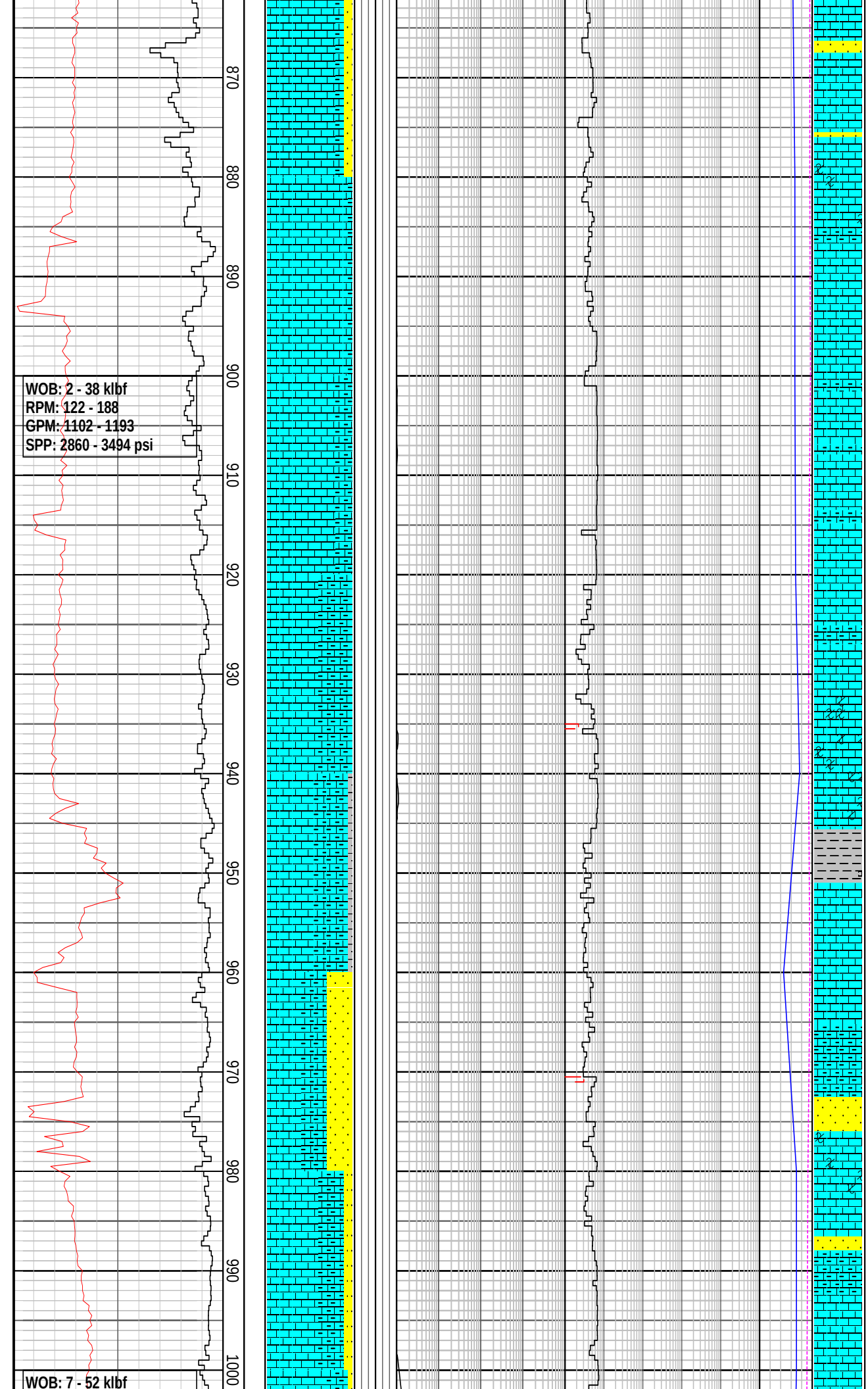
CALCARENITE: lt olv gy-gn gy, dk gy i/p, trnsl, occ opq, m hd-hd, fri i/p, vf-m calct, ang-sbang, mnr foss frag, tr qtz gr, tr glau, grad to CLCLT, p vis por.

CALCILUTITE: wh, lt olv gy, sft, calc slty mtx, vf qtz gr i/p, com foss, tr glau.

Survey @ 829.48 mMDRT
Incl: 27.87° Azi: 61.73°
TVD: 779.80 m

CALCARENITE: lt olv gy, gn gy, dk gy ip, trnsl-opq, m hd-hd, fri i/p, f-m calct gr, ang-sbang, sbrndd i/p, mnr m qtz gr, tr foss frag, tr glau, grad to CLCLT, p vis por

Survey @ 858.79 mMDRT
Incl: 27.34° Azi: 61.53°



TVD: 805.70 m

SANDSTONE: wh, olv gr, v hd, f-m qtz gr, sbang, sl-mod calc, wl cmt (calct), rr pyr i/p, p vis por.

CALCILUTITE: lt gy-m lt gy, sft, amor, tr glau, tr qtz gr i/p.

Survey @ 888.16 mMDRT
Incl: 27.56° Azi: 61.95°
TVD: 831.80 m

CALCARENITE: wh, olv gy, trnsl pl yel, m hd-hd, vf-f & m calct, rextal, mnr forams, rr blk lith, tr glau, wl cmt, p vis por.

Survey @ 917.34 mMDRT
Incl: 27.22° Azi: 62.80°
TVD: 857.70 m

CLAYSTONE: lt gy-m gy, sft-fm, amor, homog, mod calc, grad from CLCLT, grad to MARL.

CALCILUTITE: lt olv gy, lt gy-m lt gy, sft-fm, amor, wk slty mtx, com foram, tr glau, grad to CLCSLT i/p.

Survey @ 947.31 mMDRT
Incl: 27.19° Azi: 62.99°
TVD: 884.4 m

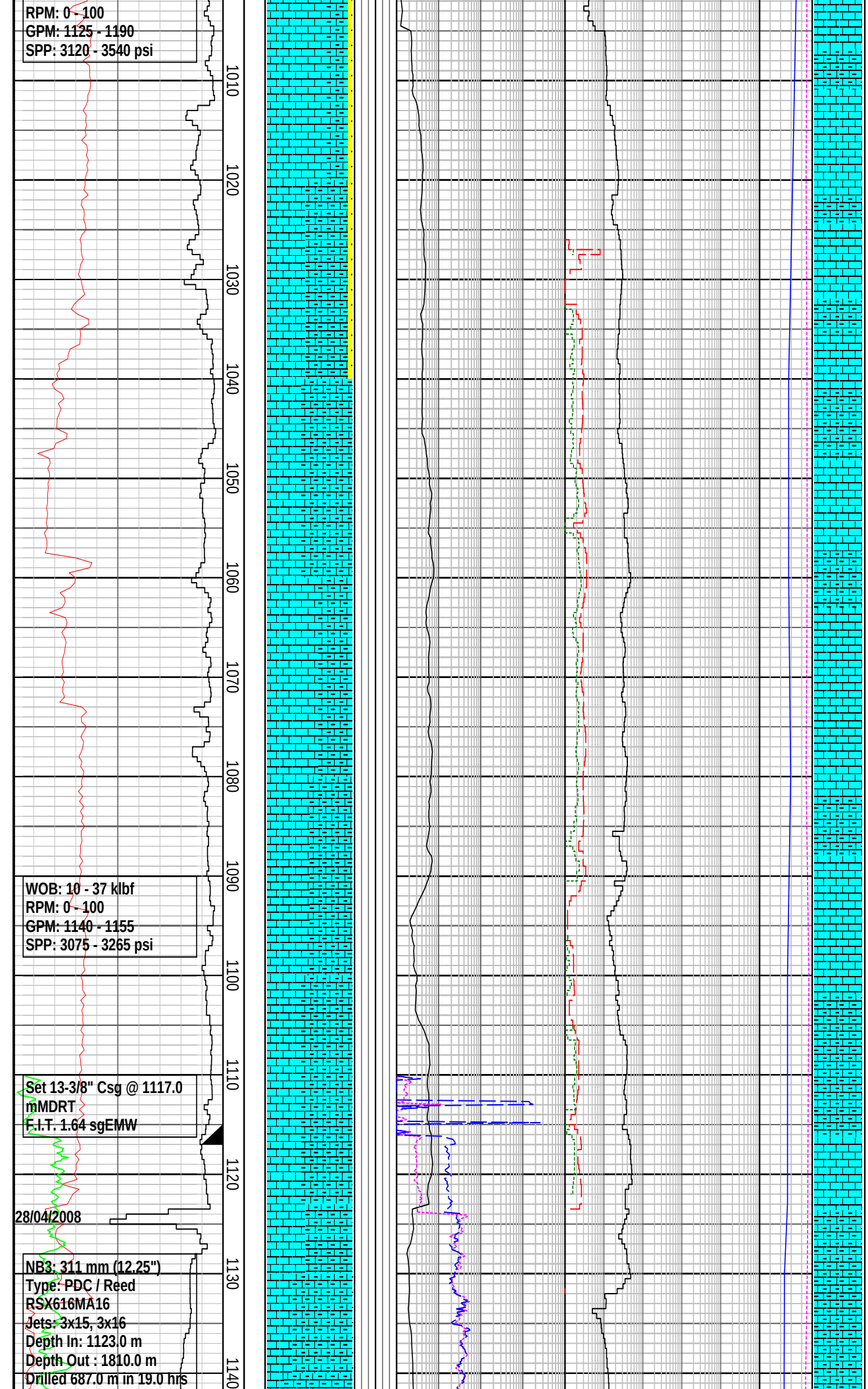
CLAYSTONE: lt gy, m gy, sft-fm, amor, tr glau, mod calc, grad to MARL.

CALCILUTITE: lt olv gy, lt gy-m lt gy, sft-fm, amor, wk slty mtx, com foram, tr glau, grad to CLCSLT i/p.

Survey @ 975.78 mMDRT
Incl: 28.07° Azi: 63.33°
TVD: 909.60 m

SANDSTONE: wh, trnsl-trnsp, v hd aggs, f-m qtz, sbang-rndd, sli calc, p vis por. Com f-vc lse qtz gr, sbrndd-rndd, pr srt.

CALCARENITE: wh, lt olv gy, brn gy, trnsl, mod hd-hd, vf gr, m i/p, ang-sbang, mnr



foss frag, tr glau, wl cmt, grad to CLCLT, p vis por.

MW: 1.13 sg FV: 36
PV: 7 YP: 23
Gels: 10/12/13 pH: 8

CALCILUTITE: wh-olv gy, lt olv gy, sft-fm, amor, slty mtx, com f skel frag, tr slty qtz gr, grad to CLCSLT i/p

Survey @ 1034.76 mMDRT
Incl: 27.23° Azi: 63.27°
TVD: 961.9 m

CALCARENITE: wh, lt olv gy, brn gy, trnsl, mod hd-hd, vf-f calct gr, m i/p, sbang-ang, tr foss frag, tr glau, tr blk lit, wl cmt, grad to CLCLT, p vis por.

CALCISILTITE: lt olv gy, frm, sft i/p, arg mtx, com sbang slty-vf qtz gr, tr foss, tr mic.

Survey @ 1064.7 mMDRT
Incl: 27.88° Azi: 62.07°
TVD: 988.4 m

CALCILUTITE: wh-olv gy, sft, tr sbang qtz, com f skel frag,com forams, tr m glau, wk slty mtx, grd to CLCSLT i/p

CALCARENITE: wh-lt olv gy, brnsh gy, mod hd-hd, vf-f gr, m i/p, ang-sbang, tr blk lit, tr foss frag, tr glau, tr qtz gr, wl cmt, grad to CLCLT, p vis por

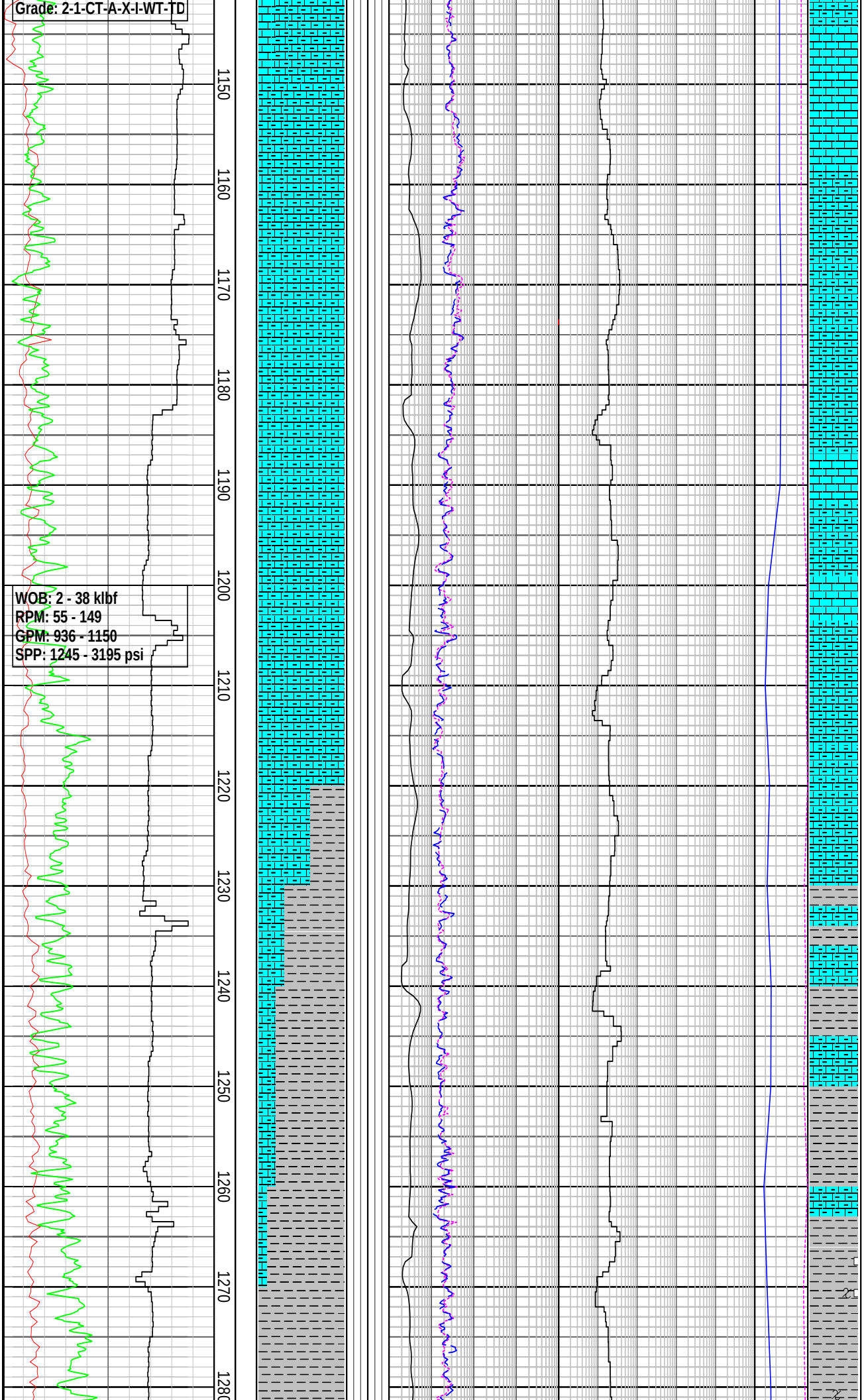
Survey @ 1094.42 mMDRT
Incl: 27.05° Azi: 63.32°
TVD: 1014.8 m

CALCILUTITE: wh, olv gy, sft-fm, amor, slty mtx, tr glau, tr sbang qtz gr, grad to CLCSLT.

440 mm (17.5') Section TD @ 1123.0 m MDRT @ 27/04/2008

CALCISILTITE: lt olv gy, sft-fm, arg mtx, com slty- vf qtz, trsnp-trnsl, tr mic.

MW: 1.12 sg FV: 48



MW: 1.12 sg PV: 40
PV: 11 YP: 26
Gels: 10/14/16 pH: 8.5
Rmf = 0.105 @ 19.1°C
Rm = 0.109 @ 19.5°C
Rmc= 0.110 @ 19.9°C

Survey @ 1143.32 mMDRT
Incl: 25.87° Azi: 63.90°
TVD: 1058.6 m

CALCILUTITE: m lt gy, gn gy, olv gy, sft-fm, blky, tr foss, tr mic, grad to calc CLST/MARL.

Survey @ 1184.95 mMDRT
Incl: 25.36° Azi: 62.41°
TVD: 1096.2 m

CALCILUTITE: m dk gy, olv gy, dk gn gy, sft-fm, mod hd i/p, sbblky, loc slty, tr shl frag, tr micro mic, tr carb spk, grad to calc CLST/MARL.

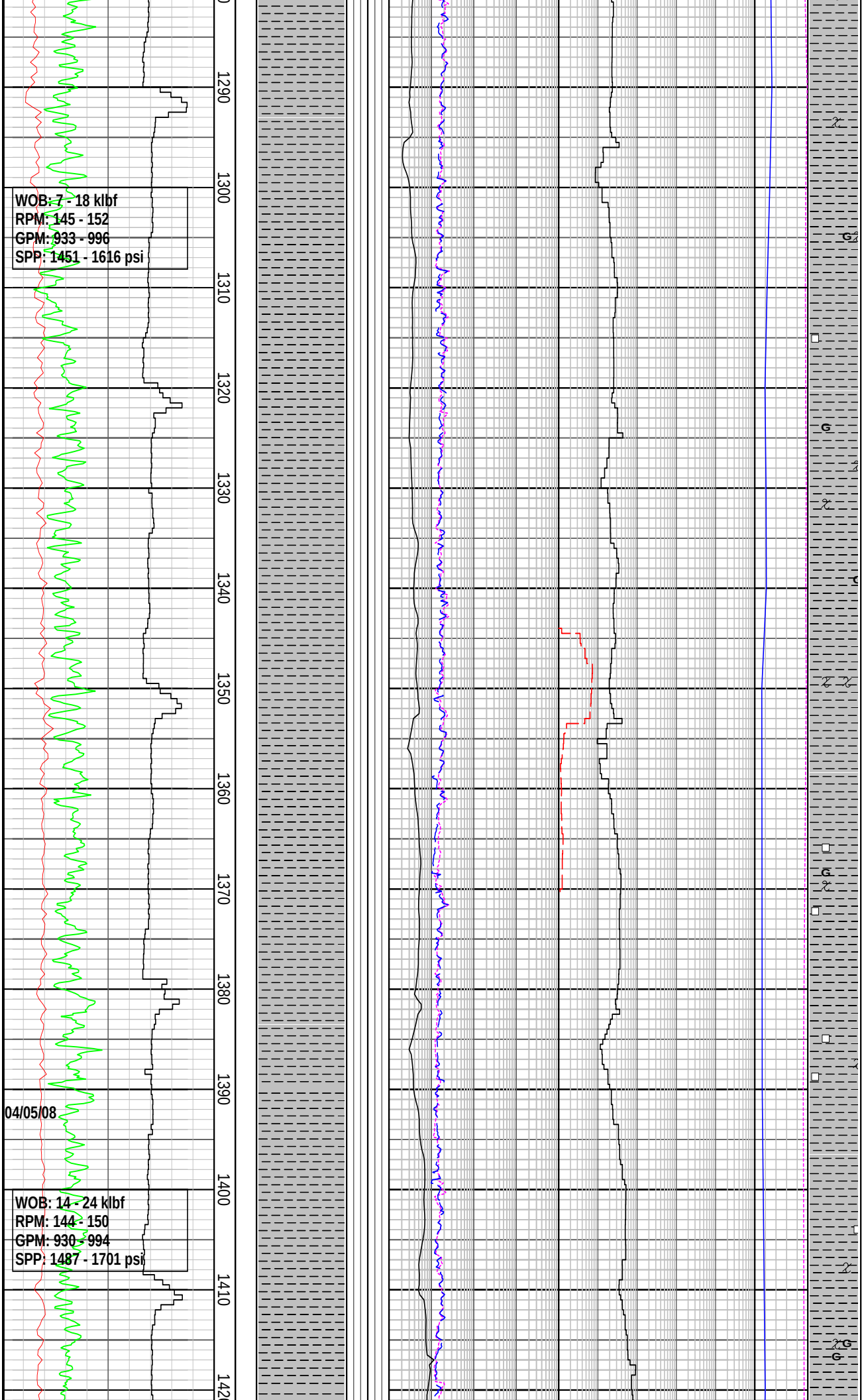
Survey @ 1214.47 mMDRT
Incl: 26.03° Azi: 61.94°
TVD: 1122.8 m

CALCAREOUS CLAYSTONE: m gy, olv gy, sft-fm, sbblky, micr mic, tr carb mat, grad from CLCLT.

Survey @ 1244.37 mMDRT
Incl: 26.97° Azi: 60.72°
TVD: 1149.6 m

CALCAREOUS CLAYSTONE: m gy, olv gy, dk gn gy, sft-fm, sbblky, micr mic, tr carb mat, tr v f dissem pyr, tr glau.

Survey @ 1273.71 mMDRT
Incl: 27.88° Azi: 59.68°
TVD: 1175.6 m



CALCAREOUS CLAYSTONE: m gy, olv gy, dk gn gy, sft-fm, sbblky, sbfiss i/p, micr mic, tr carb mat, tr v f dissem pyr, tr glau (incr w/depth)

MW: 1.12 sg FV: 48
PV: 11 YP: 26
Gels: 10/14/16 pH: 8.5

Survey @ 1303.22 mMDRT
Incl: 28.77° Azi: 60.45°
TVD: 1201.6 m

Carbide Run @ 1321 mMDRT
Theo: 5650 stks
Actual: 5800 stks
Hole washout: 2.7 %

CALCAREOUS CLAYSTONE: m gy, m dk gy, sft-fm, sbblky, micr mic, rr forams, tr carb mat, tr glau.

Survey @ 1333.07 mMDRT
Incl: 28.34° Azi: 61.52°
TVD: 1227.9 m

CALCAREOUS CLAYSTONE: m gy, m dk gy, sft-fm, sbblky, micr mic, tr carb mat, tr v f dissem pyr.

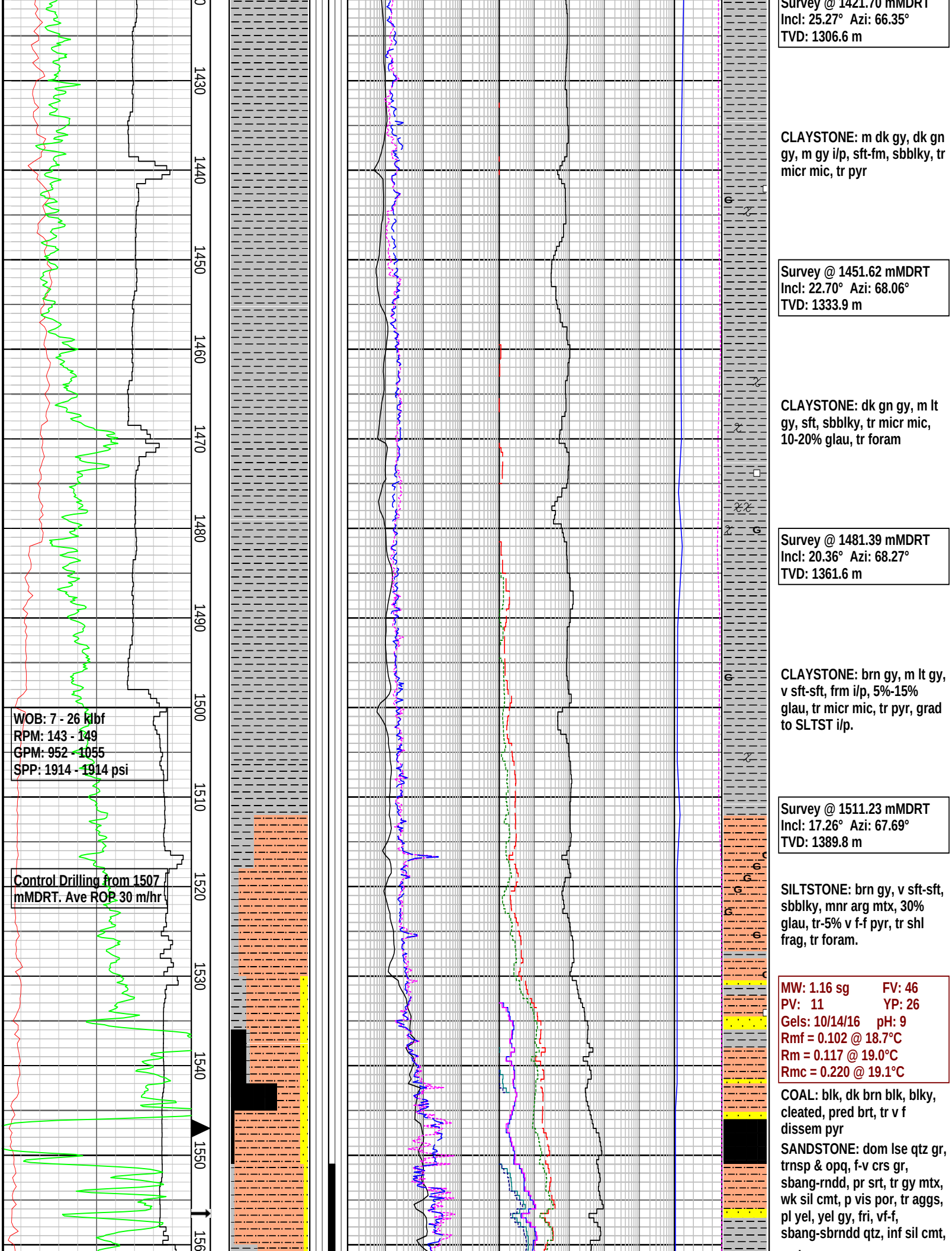
Survey @ 1362.30 mMDRT
Incl: 28.20° Azi: 62.55°
TVD: 1253.7 m

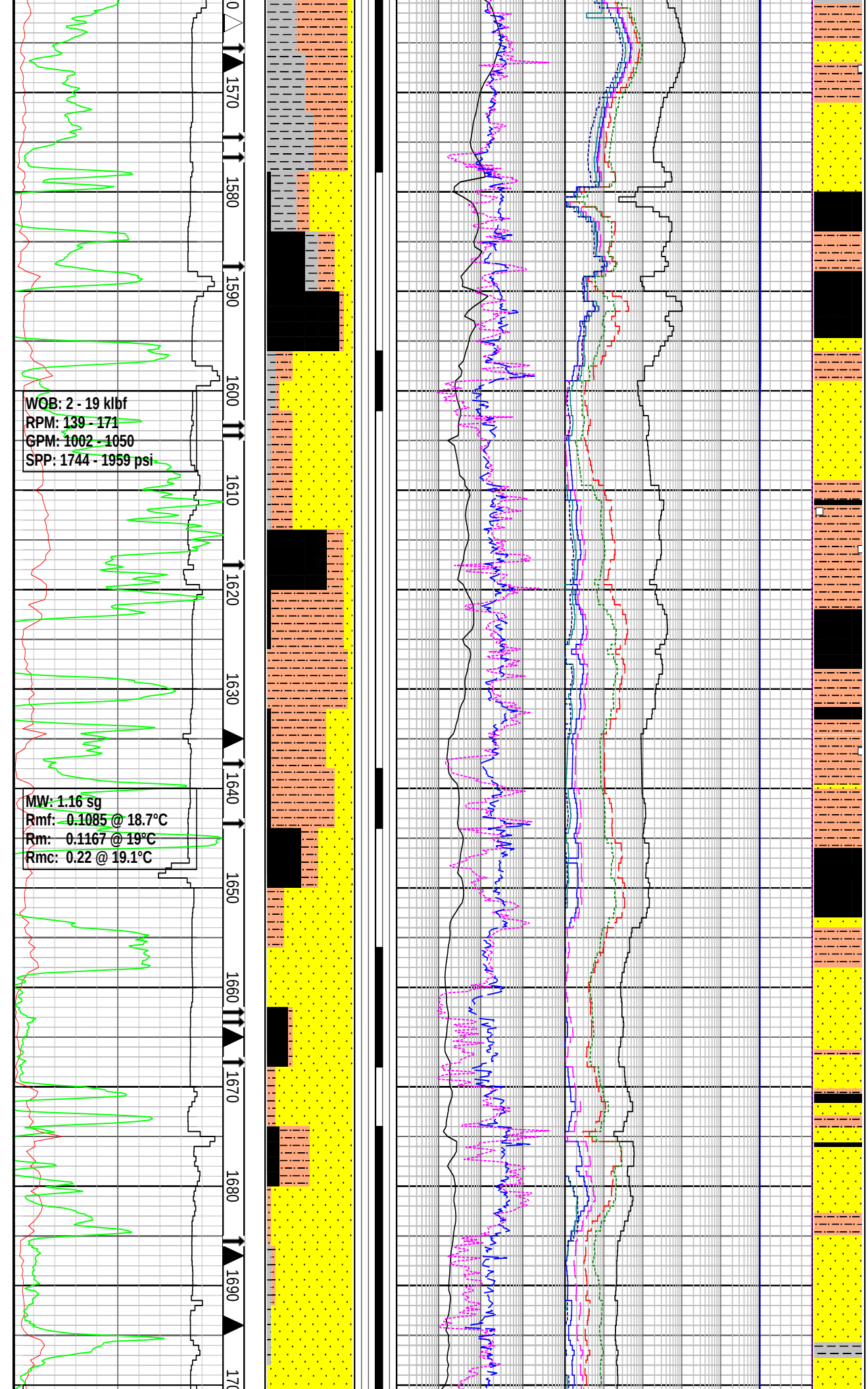
CALCAREOUS CLAYSTONE: m dk gy, olv gy, sft-fm, sbblky, micr mic, tr carb mat, tr v f dissem pyr, grad to CLST.

Added sized CaCO3 to mud system from 1380.0 m until TD

Survey @ 1392.46 mMDRT
Incl: 27.26° Azi: 63.55°
TVD: 1280.4 m

CLAYSTONE: m dk gy, dk gn gy, sft-fm, sbblky, tr micr mic, tr carb mat, sl calc


1430
1440
1450
1460
1470
1480
1490
1500
1510
1520
1530
1540
1550
WOB: 7 - 26 klbf
RPM: 143 - 149
GPM: 952 - 1055
SPP: 1914 - 1914 psi
Control Drilling from 1507 mMDRT. Ave ROP 30 m/hr
Survey @ 1421.70 mMDRT
Incl: 25.27° Azi: 66.35°
TVD: 1306.6 m
CLAYSTONE: m dk gy, dk gn gy, m gy i/p, sft-fm, sbblky, tr micr mic, tr pyr
Survey @ 1451.62 mMDRT
Incl: 22.70° Azi: 68.06°
TVD: 1333.9 m
CLAYSTONE: dk gn gy, m lt gy, sft, sbblky, tr micr mic, 10-20% glau, tr foram
Survey @ 1481.39 mMDRT
Incl: 20.36° Azi: 68.27°
TVD: 1361.6 m
CLAYSTONE: brn gy, m lt gy, v sft-sft, frm i/p, 5%-15% glau, tr micr mic, tr pyr, grad to SLTST i/p.
Survey @ 1511.23 mMDRT
Incl: 17.26° Azi: 67.69°
TVD: 1389.8 m
SILTSTONE: brn gy, v sft-sft, sbblky, mnr arg mtx, 30% glau, tr-5% v f-f pyr, tr shl frag, tr foram.
MW: 1.16 sg FV: 46
PV: 11 YP: 26
Gels: 10/14/16 pH: 9
Rmf = 0.102 @ 18.7°C
Rm = 0.117 @ 19.0°C
Rmc = 0.220 @ 19.1°C
COAL: blk, dk brn blk, blky, cleated, pred brt, tr v f dissem pyr
SANDSTONE: dom lse qtz gr, trnsp & opq, f-v crs gr, sbang-rndd, pr srt, tr gy mtx, wk sil cmt, p vis por, tr aggs, pl yel, yel gy, fri, vf-f, sbang-sbrndd qtz, inf sil cmt,



g vis por.

FLUORESCENCE (1554-1578m): tr brt pl yel, mod fast stmg brt bl wh cut, mod thk res ring, bec thn & sptty w/depth

Survey @ 1570.48 mMDRT
Incl: 10.60° Azi: 59.53°
TVD: 1447.4 m

SANDSTONE: tr aggs, pl yel-yel gy, fri, vf-f, sbang-sbrndd qtz, inf sil cmt, g vis por. Dom lse qtz gr, trnsp-opq, lt gy, f-m & v crs-gran, sbang-rndd, p srt, tr gy mtx, p inf por.

FLUORESCENCE (1596-1602): tr brt pl yel.

SILTSTONE: brn gy, sft-mod hd, sbblky, sl calc, 5% vf pyr aggs.

Survey @ 1600.19 mMDRT
Incl: 8.72° Azi: 58.21°
TVD: 1476.7 m

SANDSTONE: lse qtz, vf-crs & gran, v pr srt, tr trnsl-wh aggs, hd, f-m gr, ang-sbang, mod srt, sl calc, wl cmt (calct), p vis por, no shw.
COAL: blk, dk brn blk, a/a.

Survey @ 1629.88 mMDRT
Incl: 8.74° Azi: 68.10°
TVD: 1506.1 m

SILTSTONE: olv gy-olv blk, sft-fm, blky-sbblky, abd carb mat, tr-mnr mic, tr crpxln pyr, tr nod pyr.

FLUORESCENCE (1638-1644m, in SST): tr brt pl yel.

MW: 1.15 sg FV: 49
PV: 11 YP: 26
Gels: 11/15/17 pH: 8.8

Survey @ 1658.96 mMDRT
Incl: 8.55° Azi: 72.75°
TVD: 1534.8 m

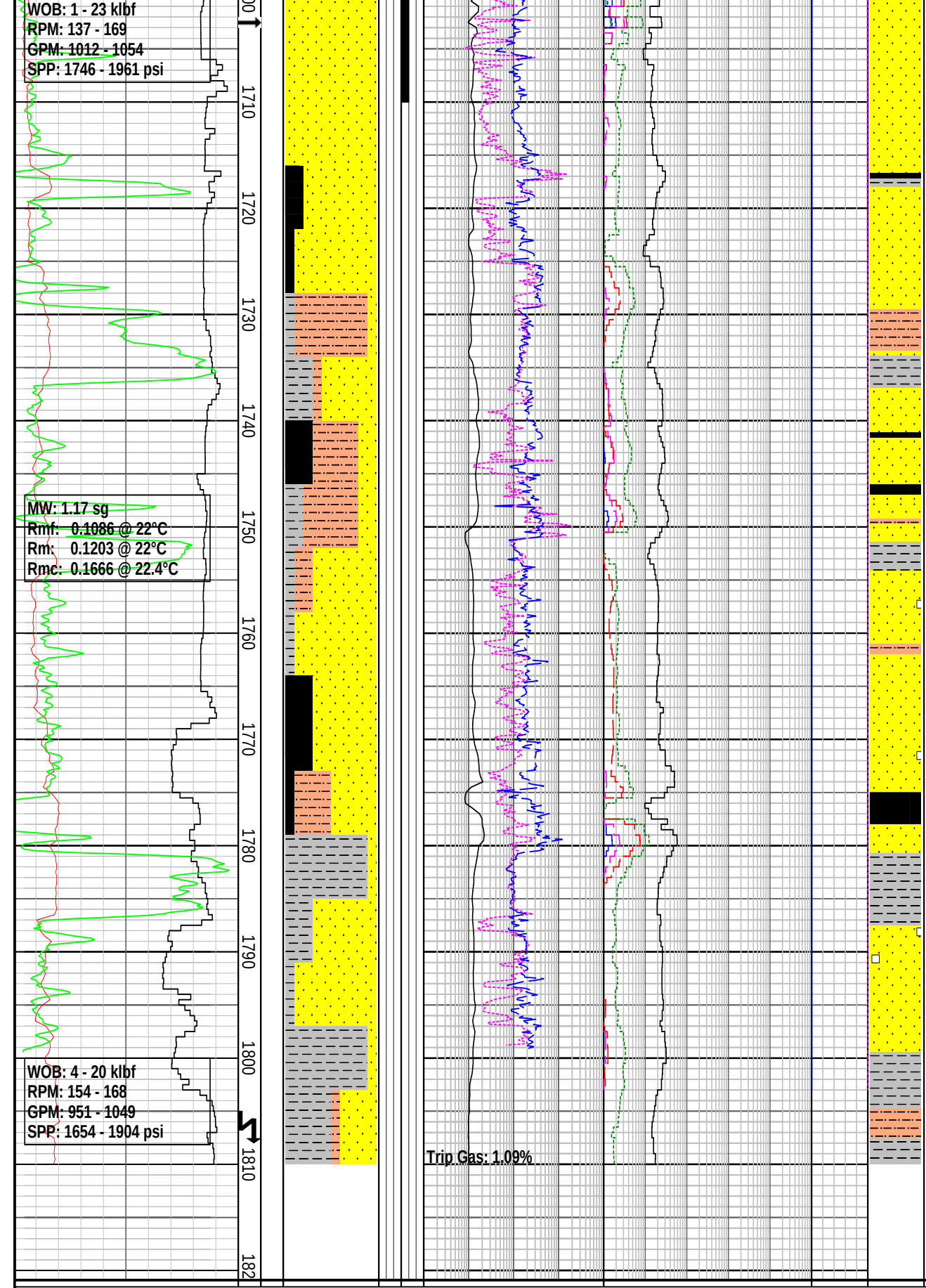
SANDSTONE: lse, trnsl-trnsp, v f-m gr, mnr v crs gr, sbrndd to sbang-ang i/p, p inf por, com SST agg, pred a/a.

FLUORESCENCE (1656-1668m): tr brt pl yel, v slw strmg brt bl-wh cut, thn res rng.

MW: 1.15 sg FV: 49
PV: 11 YP: 26
Gels: 11/15/17 pH: 8.8

Survey @ 1688.35 mMDRT
Incl: 8.90° Azi: 69.00°
TVD: 1563.9 m

SANDSTONE: trnsl-wh, hd, v



crs-gran, mod srt, sbang-ang qtz, tr crypxln pyr, tr lse qtz gr, a/a, p vis por

FLUORESCENCE (1674-1710m): tr brt pl yel, v slw stmg brt bl wh cut, thn ptchy wk res ring

Survey @ 1717.96 mMDRT
Incl: 8.56° Azi: 61.34°
TVD: 1593.1 m

SILTSTONE: olv gy, pl yelsh brn, sft, amor-sbblky, tr carb mat

CLAYSTONE: med dk gy, frm, sbblky, micr mic
COAL: a/a

MW: 1.16 sg FV: 44
PV: 10 YP: 25
Gels: 10/14/16 pH: 9.0

Survey @ 1747.50 mMDRT
Incl: 8.59° Azi: 54.77°
TVD: 1622.3 m

SANDSTONE: lt gy,dk yel brn, opq, rr trnsp, pred lse qtz, f-gran gr, dom v crs-gran, pr-mod srt, sbang-sbrndd, disp wh cly mtx, 5% sil cmt, f-g inf por, no shw.
Note: dk brn blk stn on some qtz gr surf from 1752-1764m, no flu.

Survey @ 1777.39 mMDRT
Incl: 8.68° Azi: 54.87°
TVD: 1651.9 m

SANDSTONE: lt gy, opq, lse qtz gr, f-gran gr, pred m, mod srt, sbang-sbrndd, disp cly mtx, tr vf pyr aggs & cmt, f inf vis por, no show.

CLAYSTONE: lt olv gy, lt gy, m gy, sft-fm, sbblky, micr mic, r carb mat, tr dissem pyr

Reached TD of 1810m MDRT at 19:00hrs, 4 May 2008.

Rmf = 0.101 @ 22.2°C
Rm = 0.113 @ 22.6°C
Rmc = 0.166 @ 23.0°C

FORMATION EVALUATION LOG

Drilling Rate
ROP (m/hr)
200 180 160 140 120 100 80 60 40 20
WEIGHT ON BIT
0 100
klbf
Gamma Ray
0 200

MD meters 1:500

TVDRT meters

Cuttings Lithology

Visual Inferred Porosity

Oil Show
P F G

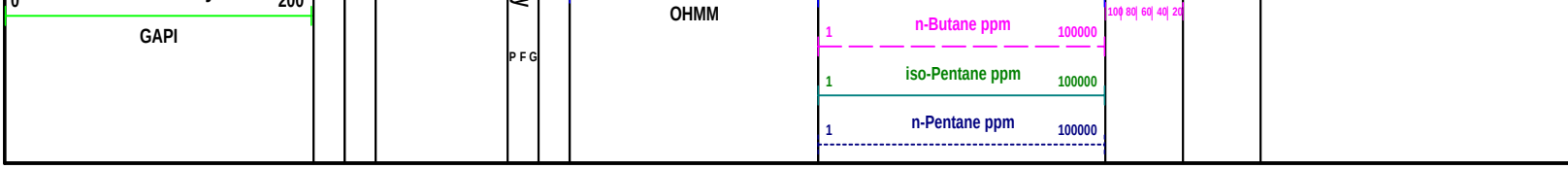
Gas Data
Gas Hydrocarbon Avg %
0.01 0.1 1 10
Resistivity Shall
0.1 1000
OHMM
Resistivity Deep
0.1 1000

Chromatograph Data
Methane ppm 1 100000
Ethane ppm 1 100000
Propane ppm 1 100000
iso-Butane ppm 1 100000

Calcimetry
CaCO3 %
20 40 60 80 100
MgCO3 %

Interpreted Lithology

Lithology Description


0
200
GAPI
P F G
OHMM
1
n-Butane ppm
100000
1
iso-Pentane ppm
100000
1
n-Pentane ppm
100000
100 80 60 40 20

Enclosure 4

LWD Log Plot
1:500

Schlumberger

Company: **3D Oil Limited**

12.25 in. Section

Well: **West Seahorse-3**

Field: **West Seahorse**

Rig: **West Triton** State: **Victoria**

Rig: West Triton
Field: West Seahorse
Location: Bass Strait
Well: West Seahorse-3
Company: 3D Oil Limited

geoVISION* 825 Resistivity
1:500 Measured Depth
Recorded Mode

Location

Total depth:	1810 m
Spud date:	24-Apr-2008
Run:	2

Elevation

K.B.	Top Drive
G.L.	-39.5m m
D.F.	38.0m m

Permanent datum:	Mean Sea Level	Elev.:	0 m
Log measured from:	Rotary Table	38.0 m	above Perm. datum
Depth reference:	Driller's Pipe Tally		

Service Order no.	N 5771044.135 m	Longitude	Latitude
08ASQ0005	E 554229.358 m	E 147°37' 9.865"	S 37°12' 24.942"

Depth logged:	1117.0 m	To	1799.5 m	Mag decl:	12.844 deg.
Date logged:	2-May-08	To	5-May-08	Mag dip:	-68.778 deg.

Other services: See Remarks

Bore hole record

Hole size	from	to
36 in.	0 m	125 m
17.5 in.	125 m	1123 m
12.25 in.	1123 m	1810 m

Casing record

Size	Density	from	to
30 in.	1017 lbm/m	0 m	125 m
13.375 in.	223 lbm/m	0 m	1117 m

Mud record

Type	from	to
Sea Water	0 m	125 m
Seawater PHG	125 m	1123 m
WBM	1123 m	1810 m

Borehole deviation record

Min	Max	from	to
0 deg.	0 deg.	0 m	125 m
2.71 deg.	28.05 deg.	125 m	1123 m
8.56 deg.	28.34 deg.	1123 m	1810 m

Surface equipment

Unit	OLU_KC_0702
Depth system	PDA

Software record

IDEAL Wis	ID13_0c_08
SPM	HSPM13_0c_08
LWD	GVR V9.1
MWD	PUP V9.2C02

Bit Run Summary

Run number		2
Bit size	in	12.25
Bit start depth	m	1123
Bit end depth	m	1810
Top interval logged	m	1117
Bottom interval logged	m	1799.5
Begin log: time		15:39
Begin log: date		3-May-08
End log: time		18:56
End log: date		4-May-08
Mud data		
Depth	m	1810
Type		KCL/PHPA
Mud weight	ppg	9.65
Solids	%	2.2
Chlorides	mg/L	36000
Rm	ohmm@℃	0.11@19.0
Rmf	ohmm@℃	0.10@18.7
Rmc	ohmm@℃	0.22@19.1

Potassium	%	3.78									
Environmental data											
GR											
Mud weight	ppg	9.65									
Bit size	in	12.25									
Resistivity											
Neutron porosity											
Hole Size	in	12.25									
Mud weight	ppg	9.65									
Temperature	℃	58									
Mud salinity	ppm	N/A									
Formation salinity	ppm	N/A									
Recording rate 1	SEC	10 (Sec)									
Recording rate 2	SEC	5 (Sec)									
Filtering GR		3pt									
Filtering density		N/A									
Filtering Neutron		N/A									
Company representative		M. Ngatai									
Anadrill personnel		Jun Ikeda									

OTHER SERVICES FOR RUN2

Directional Surveys
Directional Drilling

REMARKS: RUN NUMBER 2

Depth is referenced to Driller's Pipe Tally.

Run 1 was a MWD D&I run only.

geoVISION* 825 Gamma Ray is corrected for mud weight, bit size, and tool collar size.

KCL content of the mud was reported as 7.5% by vol and Potassium content of 40,000 mg/l (Daily Mud Report 11, 4 May 2008).

GR is NOT corrected for Potassium content.

POOH due to well TD.

EQUIPMENT DESCRIPTION

RUN2

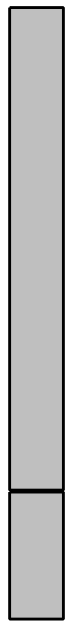
DOWNHOLE EQUIPMENT

8 -1/4" TeleScope* 22.03

SN#VA77

DHS: 9.2C02

D&I 17.32

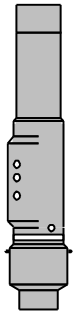


geoVISION*825 13.54

SN#034

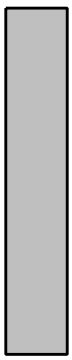
DHS: 9.1

Shallow 11.26
Medium 11.13
Deep 10.96
Ring Res 10.75
GR 10.49
R-O port 10.46



PDX5*900 Flex Collar w/float 9.32

SN#51767



PowerDrive X5* 900 4.50

SN#51330

DHS: 8.21BNM

12-1/4 in Hycalog PDC Bit 0.00 0.30

Model: RSX616 MA 16

SN# 218662

Maximum string diameter 12-1/4 in.

All lengths in Meters

Variable Name	Variable Description	Run Name & Value		
	Run Number			2
	General Information			
BHT_RM	Bottom Hole Temperature (RM)		DEGC	56.000
BSAL_RM	Mud Salinity (RM)		PPK	0.000
BS_RM	Bit Size (RM)		IN	12.250
COEF_M	User Defined FEXP in Clean Sand		----	1.650
C_WS	Overpressure correction to Sw and M		----	1.000
FEXP	Formation Factor Exponent(RM)		----	2.000
FNUM	Formation Factor Enumerator(RM)		----	1.000
FPHI_RM	Formation Factor Porosity Source (RM)		----	XPLOT
MST_RM	Mud Sample temperature (RM)		DEGC	19.000
MW_RM	Mud Weight (RM)		LB/G	9.600
OBMF_RM	Oil Based Mud (RM)		----	NO
RHOF_RM	Mud Filtrate Density (RM)		G/C3	1.000
RHOM_RM	Matrix density (RM)		G/C3	2.710
RMS_RM	Resistivity of Mud Sample (RM)		OHMM	0.167
RWA_COMP_M	Rwa computation model			
RWA_DEN_AD	Rwa Density Input ADN			
RWA_DEN_CD	Rwa Density Input CDN			
RWA_DEN_IN	Rwa Density Input			
RWA_FORM_M	Rwa computation formation model			
RWA_RES_IN	Rwa computation resistivity input			
RWS_RM	Resistivity of Connate Water (RM)		OHMM	1.000
SHT_RM	Ground Level Temperature (Mud-Line When Offshore) (RM)		DEGC	10.000
TD_RM	Total Measured Depth (RM)		M	1810.000
TWS_RM	Temperature of Connate Water (RM)		DEGC	23.889
VF_ILLI	Fraction of illite in shales		----	0.500
VF_KAOL	Fraction of kaolinite in shales		----	0.500
VF_MONT	Fraction of montmorillonite in shales		----	0.000
XPDM_RM	Cross plot density porosity multiplier		----	0.675
XPNM_RM	Cross plot neutron porosity multiplier		----	0.325
	RAB			
RAB/BTN_SLV_SIZE/PARAMETE	IN -- RAB: Button Sleeve Diameter		IN	11.875
RAB/STAB_SIZE/PARAMETER	RAB: Stabilizer Diameter		IN	12.25
BDBHCA	RAB: Button Deep Borehole A Factor		----	-0.035
BDBHCB	RAB: Button Deep Borehole B Factor		----	-0.019
BHA_COEF_VER	RAB: BHA Coef Generator Version		----	80012.000
BITBHCA	RAB: Bit A Borehole Factor		----	0.101
BITBHCB	RAB: Bit B Borehole Factor		----	-0.074
BIT_K_FACTOR	RAB: Bit K Factor		----	14.024
BMBHCA	RAB: Button Medium Borehole A Factor		----	0.006
BMBHCB	RAB: Button Medium Borehole B Factor		----	-0.020
BSBHCA	RAB: Button Shallow Borehole A Factor		----	-0.009
BSBHCB	RAB: Button Shallow Borehole B Factor		----	-0.036
BUT_KIMP_A	RAB: Button Impedance Coeff A		----	0.002
BUT_KIMP_B	RAB: Button Impedance Coeff B		----	0.000
DBUTTON_K_FACTO	RAB: Button Deep K factor		----	0.003
DHS_VERSION	RAB: DownHole Software Version		----	9.100
GR_BHC_TOOLSIZE	RAB: Gamma-Ray Borehole Coeff 1		----	8.250
HI_CSDEPTH_OUT	RAB: Allow Hi-Resolution CS_DEPTH Image Data Output		----	NO
HI_DLIS_OUT	RAB: Allow Hi-Resolution DLIS Image Data Output		----	NO
HI_RIVER_OUT	RAB: Allow Hi-Resolution River for Image Data Output		----	NO
IMAGE_MAX_GR	RAB: GR Image Maximum Scale Value		GAPI	120.000
IMAGE_MAX_RES	RAB: Image Maximum Resistivity Value		OHMM	100.000
IMAGE_MIN_GR	RAB: GR Image Minimum Scale Value		GAPI	20.000
IMAGE_MIN_RES	RAB: Image Minimum Resistivity Value		OHMM	1.000
JSD_RAB	RAB Acquisition start date		OHMM	1.000
KPER	Potassium Concentration (RM)		----	0.000
MAG_DECL_RAB	RAB: Magnetic Declination		DEG	12.840
MAG_INCL_RAB	RAB: Magnetic Dip		DEG	-68.780
MBUTTON_K_FACTO	RAB: Button Medium K Factor		----	0.004
OBM	RAB: Oil base Mud		----	NO
ORIENTATION_RM	Rab Image Orientation		----	TOH
RABBDA0	RAB: Button Deep A0 Coeff		----	-0.122
RABBDA1	RAB: Button Deep A1 Coeff		----	0.116
RABBDA2	RAB: Button Deep A2 Coeff		----	-0.050
RABBDA3	RAB: Button Deep A3 Coeff		----	0.010
RABBDA4	RAB: Button Deep A4 Coeff		----	-0.001
RABBDA5	RAB: Button Deep A5 Coeff		----	0.000
RABBDMIN	RAB: Button Deep Minimum Value		----	0.038
RABBITA0	RAB: Bit A0 Coeff		----	3.851
RABBITA1	RAB: Bit A1 Coeff		----	-10.910
RABBITA2	RAB: Bit A2 Coeff		----	27.436
RABBITA3	RAB: Bit A3 Coeff		----	-30.307
RABBITA4	RAB: Bit A4 Coeff		----	16.137
RABBITA5	RAB: Bit A5 Coeff		----	-3.339
RABBITMIN	RAB: Bit Minimum Value		----	22.440
RABBMA0	RAB: Button Medium A0 Coeff		----	-0.121
RABBMA1	RAB: Button Medium A1 Coeff		----	0.107
RABBMA2	RAB: Button Medium A2 Coeff		----	-0.045
RABBMA3	RAB: Button Medium A3 Coeff		----	0.009
RABBMA4	RAB: Button Medium A4 Coeff		----	-0.001
RABBMA5	RAB: Button Medium A5 Coeff		----	0.000
RABBMMIN	RAB: Button Medium Minimum Value		----	0.041
RABBSA0	RAB: Button Shallow A0 Coeff		----	-0.127
RABBSA1	RAB: Button Shallow A1 Coeff		----	0.105
RABBSA2	RAB: Button Shallow A2 Coeff		----	-0.043

RABBSA3	RAB: Button Shallow A3 Coeff	----	0.008
RABBSA4	RAB: Button Shallow A4 Coeff	----	-0.001
RABBSA5	RAB: Button Shallow A5 Coeff	----	0.000
RABBSMIN	RAB: Button Shallow Minimum Value	----	0.055
RABDHS	RAB Down Hole Software	----	4.000
RABEC	RAB: Resistivity Env-Cor	----	YES
RABRNGA0	RAB: RING A0 Coeff	----	-0.119
RABRNGA1	RAB: RING A1 Coeff	----	0.116
RABRNGA2	RAB: RING A2 Coeff	----	-0.051
RABRNGA3	RAB: RING A3 Coeff	----	0.010
RABRNGA4	RAB: RING A4 Coeff	----	-0.001
RABRNGA5	RAB: RING A5 Coeff	----	0.000
RABRNGMIN	RAB: Ring Minimum Value	----	1.150
RAB_BIT_ECAL	Bit Resistivity for ECAL_RAB?	----	YES
RAB_BIT_INVERSI	Input Bit Resistivity for Inversion? (Recommended at the bit)	----	YES
RAB_CALIPER_CAL	Compute ECAL_RAB?	----	NO
RAB_DATA_FIX	RAB: Create A Corrected RAB Time Data File	----	NO
RAB_DATA_LTB	RAB: Create An RAB LTB Data File	----	NO
RAB_DEEPBTN_ECA	Deep Button Resistivity for ECAL_RAB?	----	YES
RAB_DEEPBTN_INV	Input Deep Button Resistivity for Inversion?	----	YES
RAB_INVERSION	Perform Rt Inversion?	----	NO
RAB_INVERSION_B	RAB Bit Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_B	Ending Depth for GR Cutoff in Zone1 (default through the whole well)	M	30480.000
RAB_INVERSION_B	Ending Depth of Zone10	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone2	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone3	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone4	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone5	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone6	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone7	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone8	M	-304.571
RAB_INVERSION_B	Ending Depth of Zone9	M	-304.571
RAB_INVERSION_C	Continuity Multiplier[0,1]	----	0.500
RAB_INVERSION_D	RAB Deep Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_D	RAB inversion for Dh?	----	YES
RAB_INVERSION_D	RAB inversion for Di?	----	YES
RAB_INVERSION_G	GR Cutoff for Shale Formation	----	75.000
RAB_INVERSION_G	GR Cutoff for Shale Formation in Zone1(default through the whole well)	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone10	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone2	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone3	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone4	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone5	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone6	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone7	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone8	GAPI	75.000
RAB_INVERSION_G	GR Cutoff in Zone9	GAPI	75.000
RAB_INVERSION_M	RAB Medium Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_R	Resistivity Cutoff for Shale Formation	OHMM	2.000
RAB_INVERSION_R	Resistive Invasion Allowed	----	NO
RAB_INVERSION_R	RAB Ring Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_R	RAB inversion for Rmud?	----	NO
RAB_INVERSION_R	RAB inversion for Rt?	----	YES
RAB_INVERSION_R	Rt to R-deepest separation penalty multiplier[0,1]	----	0.500
RAB_INVERSION_R	RAB inversion for Rxo?	----	YES
RAB_INVERSION_S	GR of Clean Sand Formation	----	-999.250
RAB_INVERSION_S	GR of Shale Formation	----	-999.250
RAB_INVERSION_S	RAB Shallow Button Sensor Weight for Inversion[0,1]	----	1.000
RAB_INVERSION_T	Inversion Threshold[0, 0.3]	----	0.010
RAB_INVERSION_W	Formation Water Resistivity	OHMM	0.100
RAB_INVERSION_W	Formation Water Temperature	----	150.000
RAB_MEDIUMBTN_E	Medium Button Resistivity for ECAL_RAB?	----	YES
RAB_MEDIUMBTN_I	Input Medium Button Resistivity for Inversion?	----	YES
RAB_QUAD	RAB: Process Quadrant data ?	----	YES
RAB_RIGMODE_ECA	Bit on Bottom?	----	YES
RAB_RING_ECAL	Ring Resistivity for ECAL_RAB?	----	YES
RAB_RING_INVERS	Imput RING Resistivity for Inversion?	----	YES
RAB_SHALLOWBTN_	Shallow Button Resistivity for ECAL_RAB?	----	YES
RAB_SHALLOWBTN_	Input Shallow Button Resistivity for Inversion?	----	YES
RAB_TAB	RAB: Compute TAB ?	----	YES
RAB_TECHLOG	RAB: Generate Techlog ?	----	YES
RAB_TEMP_SELECT	RAB Temperature Selection	----	MEASURED
RAB_TICKS	RAB: Generate Ticks ?	----	YES
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	M	10.460
RINGBHCA	RAB: Ring Borehole A Factor	----	0.298
RINGBHCB	RAB: Ring Borehole B Factor	----	-0.112
RING_KIMP_A	RAB: Ring Impedance Coeff A	----	0.000
RING_KIMP_B	RAB: Ring Impedance Coeff B	----	0.000
RING_K_FACTOR	RAB: Ring K Factor	----	0.102
RWA_COMP_MOD	Rwa computation model	----	BASIC
RWA_DEN_ADN	Rwa Density Input	----	RHOB
RWA_DEN_CDN	Rwa Density Input	----	RHOB
RWA_DEN_INPUT	Rwa Density Input	----	RHOB
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	----	RT
SBUTTON_K_FACTO	RAB: Button Shallow K Factor	----	0.005
SCALE_IMAGES	RAB: Process Image Data	----	YES
STAB	RAB: Run with Stabilizer	----	YES
TFF_OFFSET_RAB	RAB Time-Frame File Time Offset	S	0.000
TIMEFRAME_FILE_	RAB: Time Frame File Name	S	0.000
TOOLTYPE	RAB: Azimuthal Tool	----	YES
TS_VERSION	RAB: ToolScope Software Version	----	0.000
VRAB6	Rab Tool type (ENP/PILOT)	----	RAB8_ENP
WIN_SIZE_DYN_IM	RAB: Window Size for Scaling Dynamic Image	M	0.914
WRK	to Report Potassium Concentration (RM)	----	K by Wgt %

IDEAL Version: ID12_0C_13

IDF

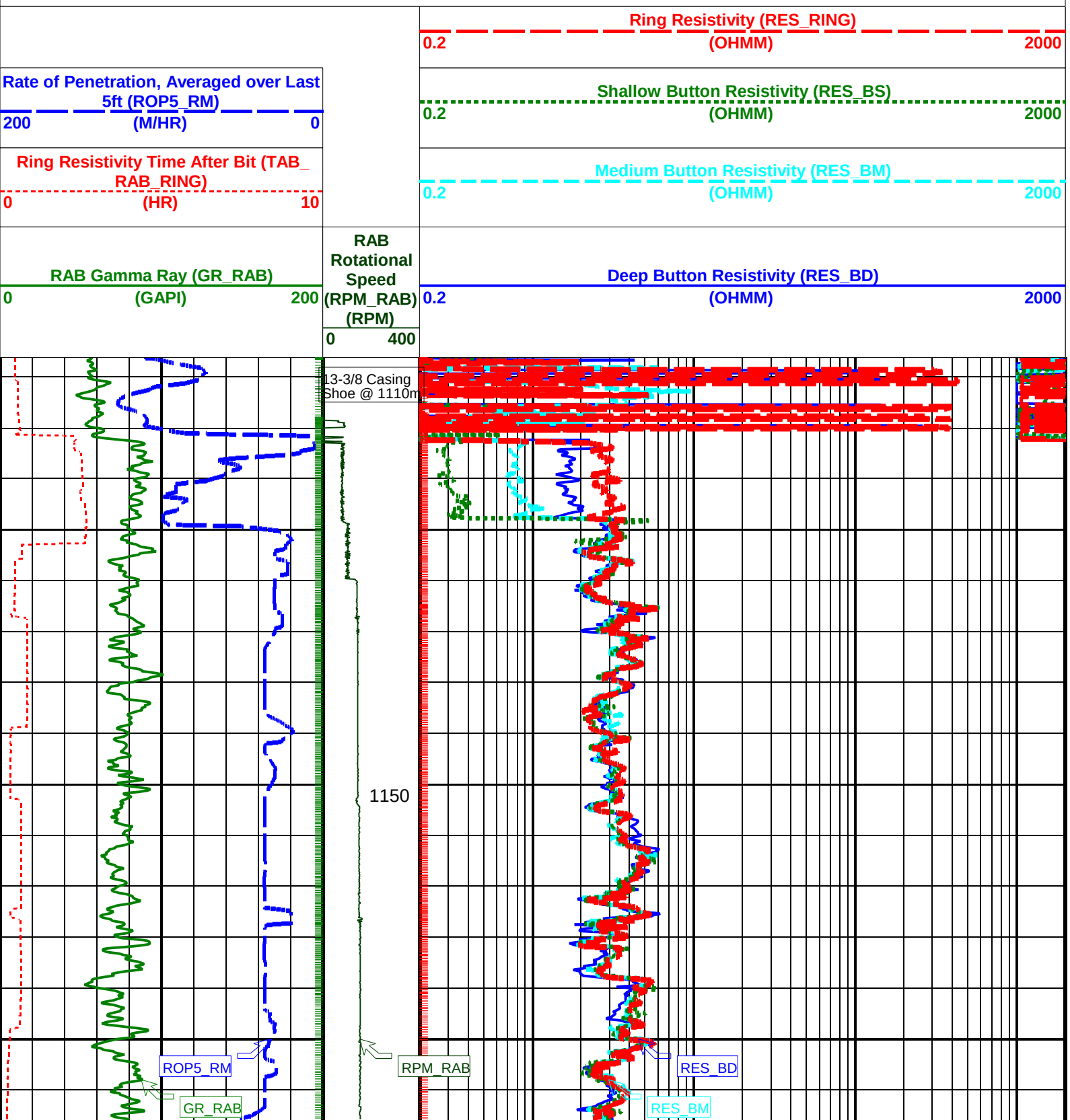
RAB id12_0c_01

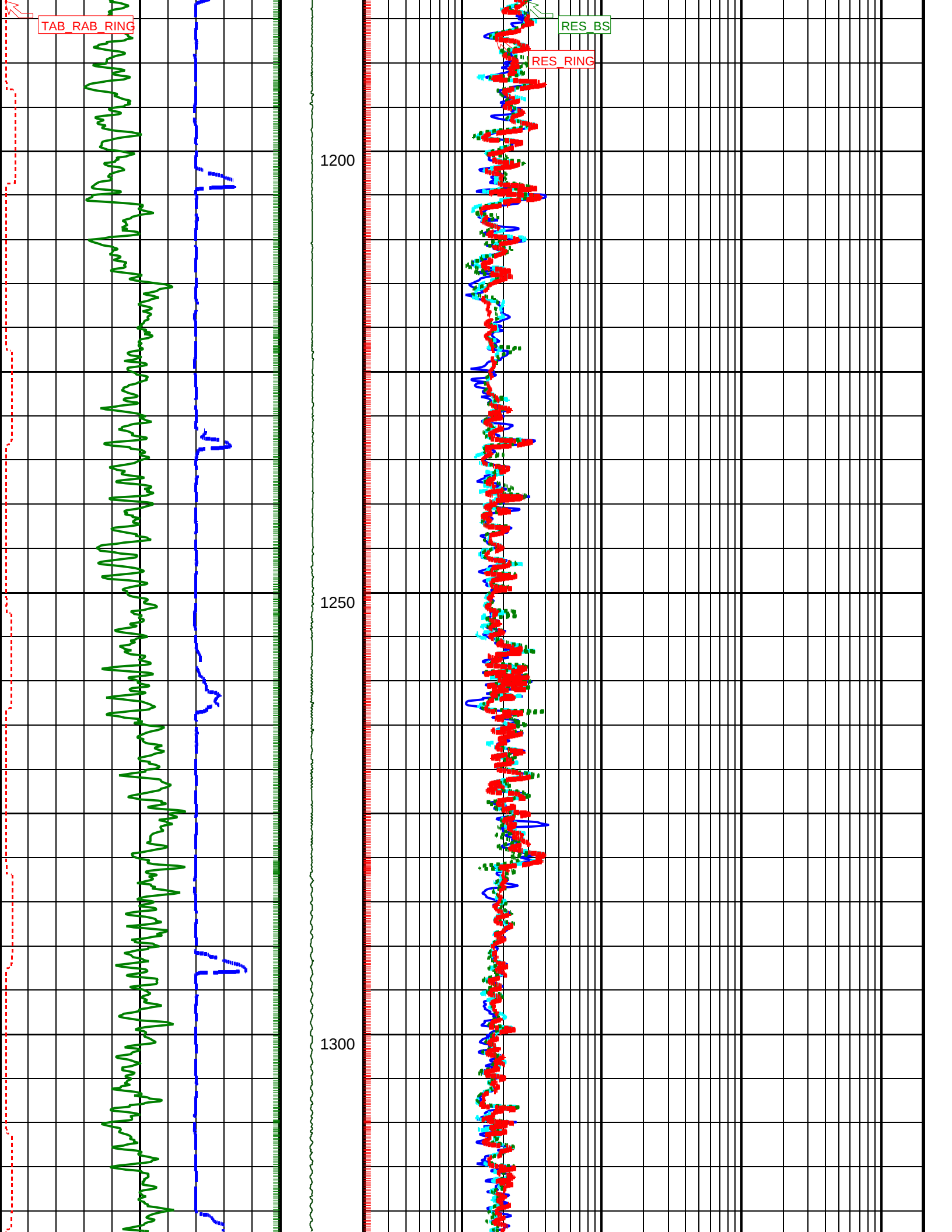
Format: GeoVISION Resistivity Log **Vertical Scale: 1:500** **Graphics File Created: 30-Jun-2008 15:24**

PIP SUMMARY

Gamma Ray Samples

Ring Samples

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RES_BS
RES_RING
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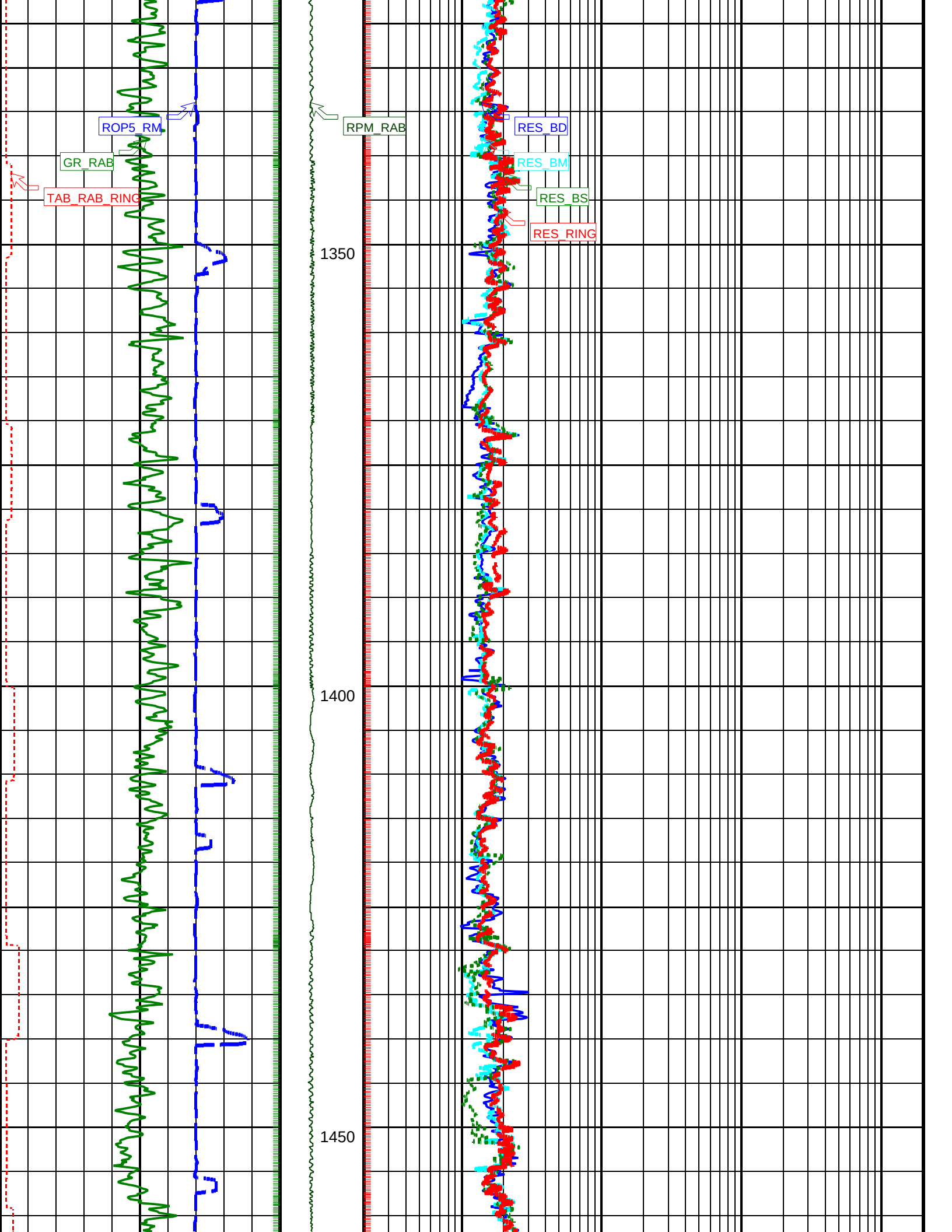
1250
1300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RES_BD
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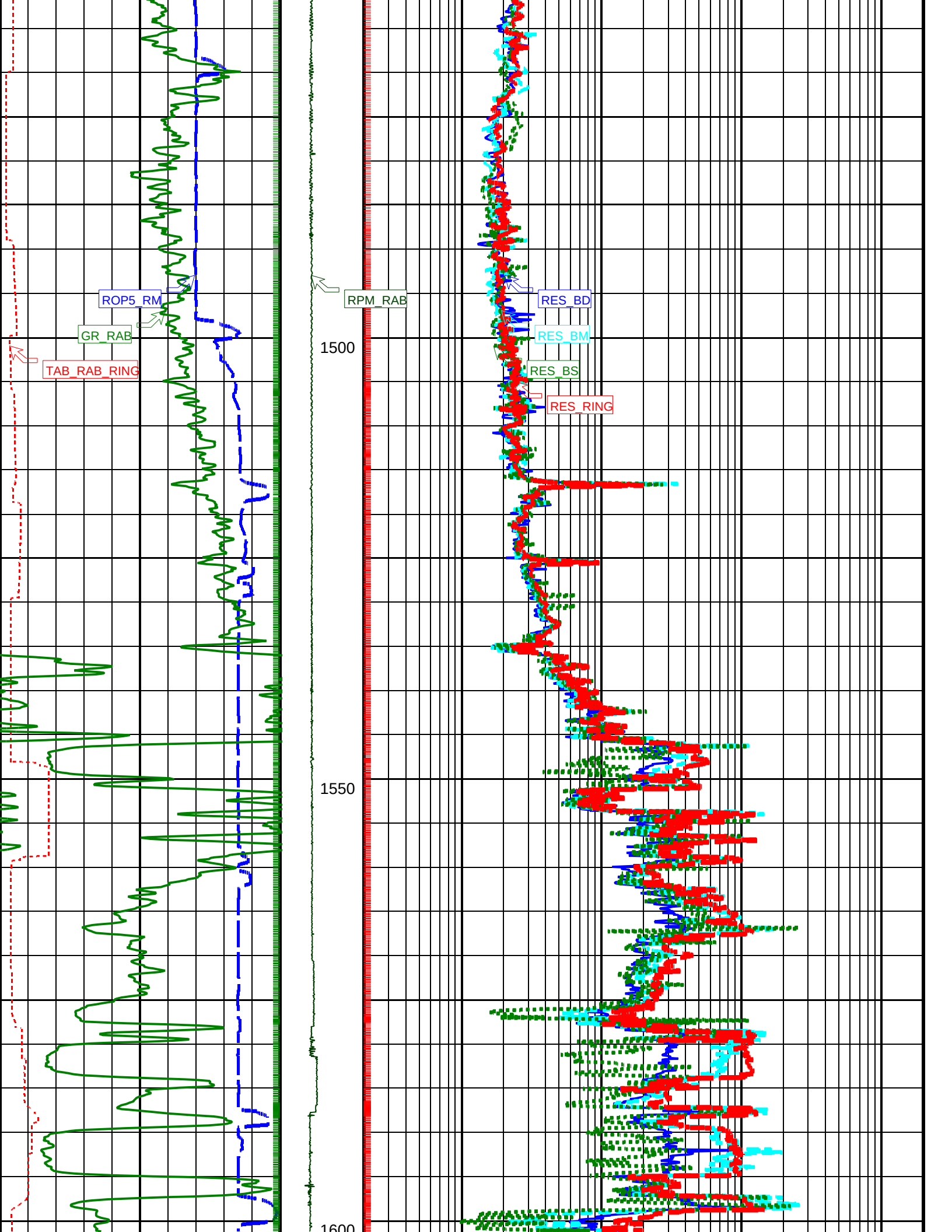
1350
1400
1450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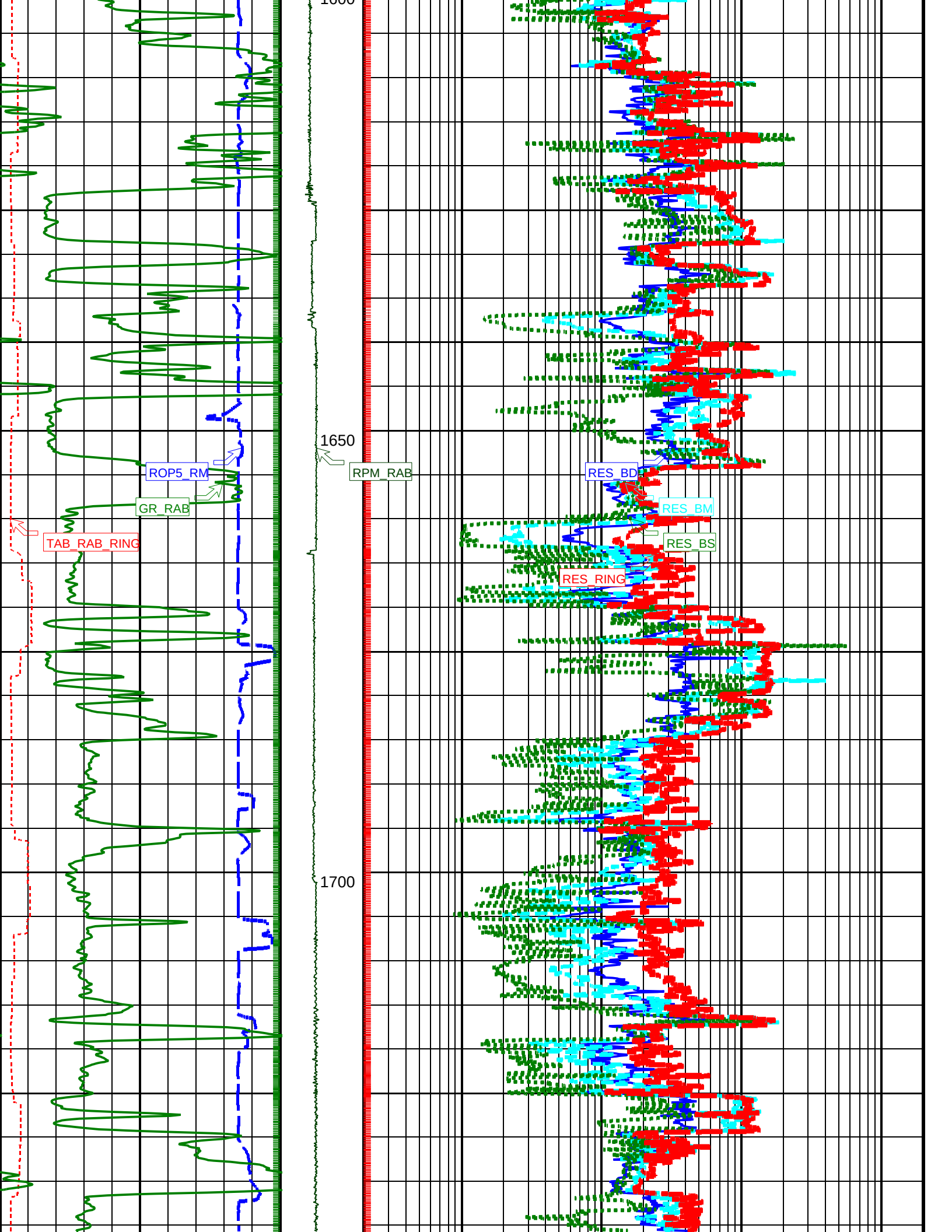
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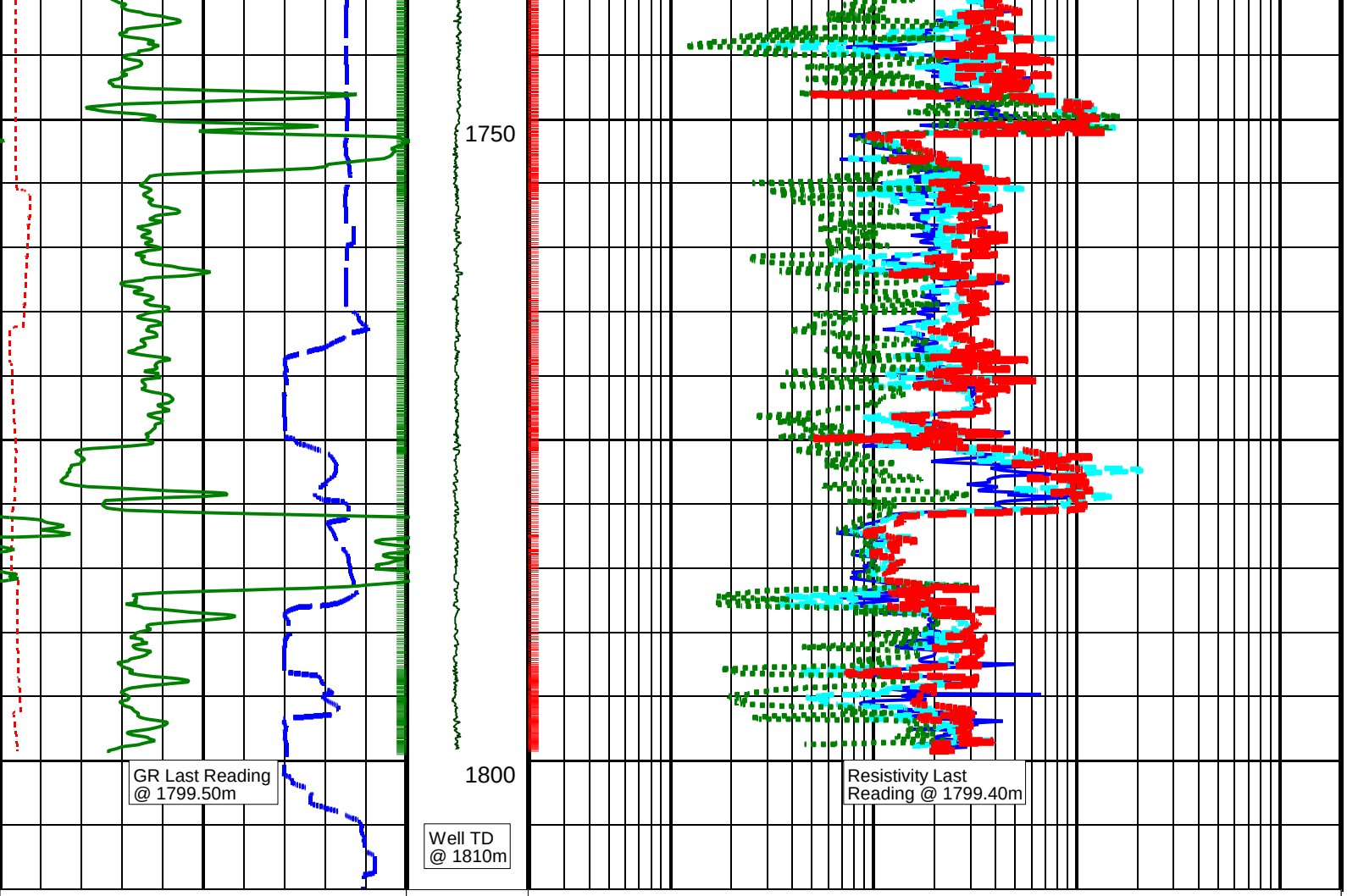
RES_BD
RES_BM
RES_BS
RES_RING



RAB Gamma Ray (GR_RAB)
0 (GAPI) 200

RAB Rotational Speed (RPM_RAB) (RPM)
0 400

Deep Button Resistivity (RES_BD)
0.2 (OHMM) 2000

Ring Resistivity Time After Bit (TAB_RAB_RING)
0 (HR) 10

Medium Button Resistivity (RES_BM)
0.2 (OHMM) 2000

Rate of Penetration, Averaged over Last 5ft (ROP5_RM)
200 (M/HR) 0

Shallow Button Resistivity (RES_BS)
0.2 (OHMM) 2000

Ring Resistivity (RES_RING)
0.2 (OHMM) 2000

PIP SUMMARY

Gamma Ray Samples

Ring Samples

IDEAL Version: ID12_0C_13

IDF

RAB **id12_0c_01**

8.25-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	RAB8 - AA	876
Calibration Status	VALID	

Master: 2-Apr-2008 10:14

8.25-in. Resistivity At-the-Bit Calibration

Resistivity: Fixture

Phase	Ring/T1 factor ----	Value
Master		0.01090
	0.009500 (Minimum) 0.01100 (Nominal) 0.01250 (Maximum)	

Phase	Ring/T2 factor ----	Value
Master		0.01093
	0.009500 (Minimum) 0.01100 (Nominal) 0.01250 (Maximum)	

Phase	M0/T1 factor ----	Value
Master		1.055
	0.9000 (Minimum) 1.050 (Nominal) 1.200 (Maximum)	

Phase	M0/T2 factor ----	Value
Master		1.042
	0.9000 (Minimum) 1.050 (Nominal) 1.200 (Maximum)	

Phase	M2/T1 factor ----	Value
Master		0.9832
	0.8500 (Minimum) 1.000 (Nominal) 1.150 (Maximum)	

Phase	M2/T2 factor ----	Value
Master		0.9552
	0.8500 (Minimum) 1.000 (Nominal) 1.150 (Maximum)	

Phase	BTN shallow/T1 factor ----	Value
Master		0.0006639
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Phase	BTN shallow/T2 factor ----	Value
Master		0.0006665
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Phase	BTN medium/T1 factor ----	Value
Master		0.0006641
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Phase	BTN medium/T2 factor ----	Value
Master		0.0006662
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Phase	BTN deep/T1 factor ----	Value
Master		0.0006589
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Phase	BTN deep/T2 factor ----	Value
Master		0.0006598
	0.0005700 (Minimum) 0.0006700 (Nominal) 0.0007700 (Maximum)	

Master: 2-Apr-2008 11:06

8.25-in. Resistivity At-the-Bit Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor ----	Value
Master		9.065
	6.500 (Minimum) 8.000 (Nominal) 9.500 (Maximum)	

SCHLUMBERGER

Survey report 7-May-2008 15:42:14

```
Client...................: 3D Oil Limited
Field....................: West Seahorse

Well.....................: West Seahorse-3
Service Order Number.....: 08ASQ0005
Engineer.................: J. Ikeda/S. Aung

Rig:.....................: West Triton
STATE:...................: Victoria

----- Survey calculation methods-------------
Method for positions.....: Minimum curvature
Method for DLS...........: Mason & Taylor

----- Depth reference -----------------------
Permanent datum..........: Mean Sea Level
Depth reference..........: Driller's Pipe Tally
GL above permanent.......:    -39.50 m
KB above permanent.......:     38.00 m
DF above permanent.......:     38.00 m

----- Vertical section origin----------------
Latitude (+N/S-).........:      0.00 m
Departure (+E/W-)........:      0.00 m

----- Platform reference point---------------
Latitude (+N/S-).........:
Departure (+E/W-)........:

Azimuth from Vsect Origin to target:   62.96 degrees

Spud date................: 24-Apr-08
Last survey date.........: 04-May-08
Total accepted surveys...: 58
MD of first survey.......:     0.00 m
MD of last survey........:  1810.00 m

----- Geomagnetic data ----------------------
Magnetic model...........: BGGM version 2007
Magnetic date............: 02-May-2008
Magnetic field strength..:    1198.93 HCNT
Magnetic dec (+E/W-).....:      12.84 degrees
Magnetic dip.............:     -68.78 degrees

----- MWD survey Reference Criteria ---------
Reference G..............:    1000.02 mGal
Reference H..............:    1198.93 HCNT
Reference Dip............:     -68.78 degrees
Tolerance of G...........: (+/-) 2.50 mGal
Tolerance of H...........: (+/-) 6.00 HCNT
Tolerance of Dip.........: (+/-) 0.45 degrees

----- Corrections ---------------------------
Magnetic dec (+E/W-).....:      12.84 degrees
Grid convergence (+E/W-).:      -0.38 degrees
Total az corr (+E/W-)....:      13.22 degrees
  (Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:
   I=Sag Corrected Inclination
   M=Schlumberger Magnetic Correction
   S=Shell Magnetic Correction
   F=Failed Axis Correction
   R=Magnetic Resonance Tool Correction
   D=Dmag Magnetic Correction
```


SCHLUMBERGER Survey Report

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	77.50	0.00	0.00	77.50	77.50	0.00	0.00	0.00	0.00	0.00	0.00	Mudline	None
3	182.42	2.71	71.37	104.92	182.38	2.45	0.79	2.35	2.48	71.37	0.79	DMAG	None
4	210.69	4.37	68.61	28.27	210.60	4.19	1.40	3.99	4.23	70.67	1.80	DMAG	None
5	240.38	6.29	65.93	29.69	240.16	6.94	2.47	6.53	6.98	69.23	1.99	DMAG	None
6	269.55	8.46	63.88	29.17	269.08	10.68	4.07	9.91	10.72	67.67	2.28	DMAG	None
7	299.18	10.91	63.41	29.63	298.29	15.66	6.29	14.38	15.69	66.38	2.52	DMAG	None
8	328.89	13.72	61.49	29.71	327.31	22.00	9.23	19.99	22.02	65.22	2.91	DMAG	None
9	358.27	17.82	63.61	29.38	355.58	29.98	12.89	27.08	29.99	64.55	4.29	DMAG	None
10	388.46	17.83	64.35	30.19	384.32	39.22	16.94	35.38	39.23	64.41	0.23	DMAG	None
11	417.21	21.75	64.50	28.75	411.37	48.95	21.14	44.16	48.96	64.42	4.16	DMAG	None
12	446.30	26.47	63.34	29.09	437.91	60.83	26.38	54.83	60.84	64.31	4.97	DMAG	None
13	476.28	27.58	63.58	29.98	464.62	74.45	32.46	67.01	74.46	64.15	1.13	DMAG	None
14	505.67	26.63	62.50	29.39	490.78	87.84	38.53	78.95	87.85	63.99	1.11	DMAG	None
15	534.94	25.97	64.51	29.27	517.02	100.80	44.32	90.55	100.82	63.92	1.15	DMAG	None
16	564.20	25.07	64.48	29.26	543.43	113.41	49.75	101.93	113.42	63.99	0.94	DMAG	None
17	622.88	26.33	65.24	58.68	596.30	138.84	60.55	124.97	138.87	64.15	0.68	DMAG	None
18	653.06	26.86	63.15	30.18	623.29	152.34	66.44	137.13	152.38	64.15	1.09	DMAG	None
19	682.20	27.68	61.89	29.14	649.19	165.69	72.60	148.97	165.72	64.02	1.05	DMAG	None
20	711.65	27.35	62.23	29.45	675.31	179.30	78.97	160.99	179.32	63.87	0.38	DMAG	None
21	740.89	27.59	61.54	29.24	701.25	192.78	85.33	172.89	192.80	63.73	0.42	DMAG	None
22	771.14	27.55	61.08	30.25	728.07	206.78	92.05	185.17	206.79	63.57	0.22	DMAG	None
23	800.56	27.43	60.89	29.42	754.17	220.35	98.64	197.05	220.36	63.41	0.15	DMAG	None
24	829.48	27.85	61.35	28.92	779.78	233.76	105.12	208.79	233.76	63.28	0.49	DMAG	None
25	858.79	27.32	61.21	29.31	805.76	247.32	111.64	220.70	247.33	63.17	0.56	DMAG	None
26	888.16	27.56	61.54	29.37	831.83	260.85	118.12	232.58	260.85	63.07	0.29	DMAG	None
27	917.34	27.23	62.29	29.18	857.74	274.28	124.44	244.42	274.28	63.02	0.50	DMAG	None
28	947.31	27.18	62.67	29.97	884.39	287.98	130.77	256.57	287.98	62.99	0.18	DMAG	None
29	975.78	28.05	62.94	28.47	909.62	301.18	136.81	268.31	301.18	62.98	0.94	DMAG	None
30	1005.05	27.38	63.78	29.27	935.53	314.79	142.91	280.48	314.79	63.00	0.81	DMAG	None
31	1034.76	27.21	62.92	29.71	961.93	328.41	149.02	292.65	328.41	63.01	0.44	DMAG	None
32	1064.70	27.86	61.70	29.94	988.48	342.25	155.45	304.91	342.25	62.99	0.88	DMAG	None
33	1094.42	27.04	62.76	29.72	1014.85	355.95	161.84	317.03	355.95	62.96	0.98	DMAG	None
34	1143.32	25.87	63.39	48.90	1058.63	377.73	171.70	336.45	377.73	62.96	0.79	DMAG	None
35	1155.24	25.60	63.14	11.92	1069.37	382.91	174.03	341.07	382.91	62.97	0.81	DMAG	None
36	1184.95	25.36	62.55	29.71	1096.19	395.69	179.87	352.45	395.69	62.96	0.57	DMAG	None
37	1214.47	26.04	61.37	29.52	1122.79	408.49	185.88	363.74	408.49	62.93	0.72	DMAG	None
38	1244.37	26.98	60.10	29.90	1149.55	421.82	192.41	375.38	421.82	62.86	1.11	DMAG	None
39	1273.71	27.90	59.30	29.34	1175.59	435.32	199.23	387.06	435.32	62.76	1.07	DMAG	None
40	1303.22	28.28	59.93	29.51	1201.62	449.19	206.26	399.04	449.20	62.67	0.55	DMAG	None
41	1333.07	28.34	61.42	29.85	1227.90	463.34	213.19	411.38	463.35	62.61	0.52	DMAG	None
42	1362.30	28.22	62.76	29.23	1253.64	477.18	219.68	423.62	477.19	62.59	0.53	DMAG	None
43	1392.46	27.26	63.75	30.16	1280.33	491.22	225.99	436.16	491.23	62.61	1.06	DMAG	None
44	1421.70	25.28	65.76	29.24	1306.55	504.15	231.52	447.86	504.16	62.66	2.44	DMAG	None
45	1451.62	22.71	67.51	29.92	1333.89	516.29	236.35	459.02	516.30	62.76	2.71	DMAG	None
46	1481.39	20.37	68.53	29.77	1361.58	527.18	240.45	469.15	527.18	62.86	2.40	DMAG	None
47	1511.23	17.28	67.57	29.84	1389.82	536.77	244.04	478.08	536.77	62.96	3.17	DMAG	None
48	1540.81	13.06	64.38	29.58	1418.36	544.49	247.16	485.16	544.49	63.00	4.45	DMAG	None
49	1570.48	10.61	59.84	29.67	1447.40	550.57	249.99	490.55	550.57	63.00	2.68	DMAG	None
50	1600.19	8.73	58.08	29.71	1476.68	555.55	252.55	494.83	555.55	62.96	1.94	DMAG	None
51	1629.88	8.74	67.66	29.69	1506.03	560.04	254.60	498.83	560.04	62.96	1.54	DMAG	None
52	1658.96	8.56	72.15	29.08	1534.78	564.38	256.10	502.93	564.38	63.01	0.76	DMAG	None
53	1688.35	8.90	69.06	29.39	1563.83	568.80	257.59	507.13	568.80	63.07	0.69	DMAG	None
54	1717.96	8.56	61.83	29.61	1593.10	573.28	259.45	511.22	573.28	63.09	1.25	DMAG	None
55	1747.50	8.58	55.23	29.54	1622.31	577.66	261.74	514.97	577.67	63.06	1.01	DMAG	None
56	1777.39	8.69	54.55	29.89	1651.86	582.11	264.32	518.64	582.11	62.99	0.09	DMAG	None
57	1789.31	8.74	56.02	11.92	1663.64	583.90	265.35	520.12	583.90	62.97	0.46	DMAG	None
58	1810.00	8.74	56.02	20.69	1684.09	587.02	267.11	522.73	587.02	62.93	0.01	Projected to TD	

Company: **3D Oil Limited**

Schlumberger

Well: **West Seahorse-3**

Field: **West Seahorse**

Rig: **West Triton**

State: **Victoria**

12.25 in. Section

State:	Victoria
	geoVISION*825 Resistivity **1:500 Measured Depth** **Recorded Mode Log**

Data Quality Report

Geomarket	APG	Location	Sale
Job Date	24-April-2008	Customer	3D Oil limited
Rig	West Triton	Field/Well	West Seahorse
Engineer	J. Ikeda, S. T. Aung	Job Number	08ASQ0005

Type of Measurement

Res	GR			

When data does not meet standards, put a number in the colum corresponding to the measurement with a corresponding number and remark below. Use additional pages for remarks

Positive remarks are welcome; do not append them with a number.

Remarks

Presentation

Description of Well - Names, Geometry, Services, Location and References; General Content
Header, user of trademarks, directional data, well plot, order of components, spelling and style, units sensor to toolface angle recorded

Equiment and Software Description
Tool sketch, equipment numbers, software versions, data rates, filtering weights

Processing Traceability and Environment Description
Acquisition environment, parameters and key constants for each run or zone, complete and relavant remarks

Annotations, Presented Formats, QC Curves, Print Quality
Documented splice points; data gap explanations, mud changes, movement indicator, color selection

Calibration and Verifications

Calibration / Before survey verification / After survey verification
Validity, completeness (includes equipment number), timeliness, unedited, descrepency explained

Operating Procedures

Depth Control
Comparison with driller's depth, other logs, other bit runs, between RT and RM. Depth summary listing

Logging speed and sampling rates
As recommended in reference manual or job planner. No loss of data or spatial resolution

Data Comparison
Between runs and passes, with data from nearby wells, other conveyance, mud log and markers

Operating Anomalies/Failure/Missing Data/Sensor Orientation/Transmission Losses
Absence of noise and spurious variations, anomaly repeated, corrected, reported or explained.

Digital Delivery

Digital Products
Labeled, verification listing with complete digital record, backup for archival; record matches hard copy.

Job Quality Rating (JQR)
Number of boxes without number X 10

Irregular Operation
Excessive ROP or speed, high deviation, shocks, vibrations, sticking conditions

Borehole Geometry
Shape (caves, etc), rugosity, spiralled hole, mud induced fractures. Casing, tubing conditions

Borehole Fluid
Barite, KCl, salinity, additives, gas cut, unstable

Interferences
External noise, nearby casing or drillpipe, debris, unusual formation composition

Operation Outside Tool Specifications
GeomarketTemperature, pressure, hole size, hole deviation, dog-leg severity, flow rate, rpm, solids value of parameter

Environmental Quality Rating (EQR)
Number of boxes without number X 20

GR is not corrected for Potassium content due to errors in measurements in mud report

Cell Manager: J. Ikeda FSM: M. McDermott

DQR Header Utility ver 1.1c

Schlumberger Drilling & Measurements

Revised January 2002

Enclosure 5

Wireline Log Plot
1:500

Schlumberger

Company: **3D Oil Limited**

Well: **West Seahorse 3**
Field: **West Seahorse**
Rig: **West Triton** Country: **Australia**

BHC−HRLA−PEX−G
Sonic−Resistivity−Density−Neutron−G
Suite 1 Run 1 − Scale 1:500 (MD)

Rig: West Triton
Field: West Seahorse
Location: Vic P/57, Bass Strait
Well: West Seahorse 3
Company: 3D Oil Limited

LOCATION

Vic P/57, Bass Strait
N 5771044.135 m, E 554229.358 m

Elev.:
G.L. −39.50 m
D.F. 38.00 m

Permanent Datum: MSL — Elev.: 0.00 m
Log Measured From: Drill Floor — 38.00 m above Perm. Datum
Drilling Measured From: Drill Floor

State:	Max. Well Deviation	Longitude	Latitude
Victoria	28.3 deg	E 147 37 9.865	S 38 12 24.942

	Run 1	Run 2	Run 3
Logging Date	5−May−2008		
Run Number	1		
Depth Driller	1810 m		
Schlumberger Depth	1775.5 m		
Bottom Log Interval	1773 m		
Top Log Interval	1116.8 m		
Casing Driller Size @ Depth	13.375 in @ 1117 m	@	
Casing Schlumberger	1116.8 m		
Bit Size	12.250 in		
Type Fluid In Hole	KCl Polymer		
MUD Density / Viscosity	1.16 g/cm3 / 44 s		
MUD Fluid Loss / PH	5.8 cm3 / 9		
MUD Source Of Sample	Flow Line		
RM @ Measured Temperature	0.113 ohm.m @ 23 degC	@	
RMF @ Measured Temperature	0.101 ohm.m @ 22 degC	@	
RMC @ Measured Temperature	0.166 ohm.m @ 23 degC	@	
Source RMF / RMC	Press / Press		
RM @ MRT / RMF @ MRT	0.056 @ 68 / 0.050 @ 68	@ / @	
Maximum Recorded Temperatures	68 degC / 68 / 69		
Circulation Stopped / Time	4−May−2008 / 22:10		
Logger On Bottom / Time	5−May−2008 / 10:52		
Unit Number / Location	41 / AUSL		
Recorded By	A. Dandi , K. Aung		
Witnessed By	M. Ngatai , D. Archer		

	Run 1	Run 2	Run 3
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity	/		
MUD Fluid Loss / PH	/		
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC	/		
RM @ MRT / RMF @ MRT	@ / @		
Maximum Recorded Temperatures	/ /		
Circulation Stopped / Time	/		
Logger On Bottom / Time	/		
Unit Number / Location	/		
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 7−MAY−2008 6:55:27

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−H	Type:	CMTD−B/A	Type:	7−46ZV−XS
Serial Number:	796	Serial Number:	1721	Serial Number:	77178
Calibration Date:	29−Jan−2008	Calibration Date:	27−Feb−2008	Length:	7584.95 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1051		
Calibration Cable Type:	7−46ZV−XS	Calibration Gain:	0.81	Conveyance Method:	Wireline
Wheel Correction 1:	−5	Calibration Offset:	−610.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	−5				

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	77.16 M
Rig Up Length At Bottom:	77.12 M
Rig Up Length Correction:	0.04 M
Stretch Correction:	1.10 M
Tool Zero Check At Surface:	0.60 M

Depth Control Remarks

1. Schlumberger Depth control policy followed.
2. IDW used as primary depth control, Z−chart as secondary.
3.
4.
5.
6.

OTHER SERVICES1
OS1: MDT−GR
OS2: MSCT−GR
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

Tool String run as per tool sketch with 7 x 1.5" standoffs and a bowspring.

Maximum recorded temperature was 68 degC sourced from HGNS sensor.

Neutron porosity corrected for hole size and mud weight.

Density corrected for bit size.

Logs were recorded on 2 separate DLIS files because of software problem during logging. 1st pass from 1778.4m to 1513.2m MDRT,

2nd pass from 1562m to 100m MDRT. DLIS files from both passes were spliced @ 1513m MDRT.

Tool stood up @ 1775.5m MDRT, several attempts to pass were unsuccessful. Did not tag TD. Logged up main pass from HUD.

No thermometers available to run on tool, so no confirmation of BHT available.

GR logged through casing to Mudline.

The use of 1.5" Standoff instead of the recommended 2.5" for this hole size resulted in Unreliable RLA1, RLA2 curves, and hence they were not presented.

Mud properties taken from Daily Mud Report #11 for 4−May−2008:

Chlorides = 36,000 mg/l; KCl = 7.5 (% by weight).

Barite = 2.2 (% by vol); K+ ion = 40,000 mg/l.

Density log spiking evident at 1577−80m, 1671−73m, 1716−18m, 1725−27m, possibly due to hole conditions.

Spiking is not evident on the repeat section.

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		16C0−147	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

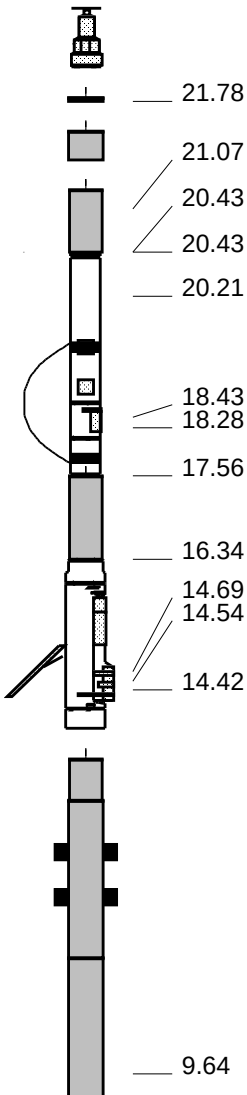
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

GSR−J 6750
NCT−B
CNB−AB
NCS−YC 5375
WITM (DTS)−A

DOWNHOLE EQUIPMENT



LEH−QT 23.08
LEH−QT 1181

BSP 22.19
AH−369 21.78

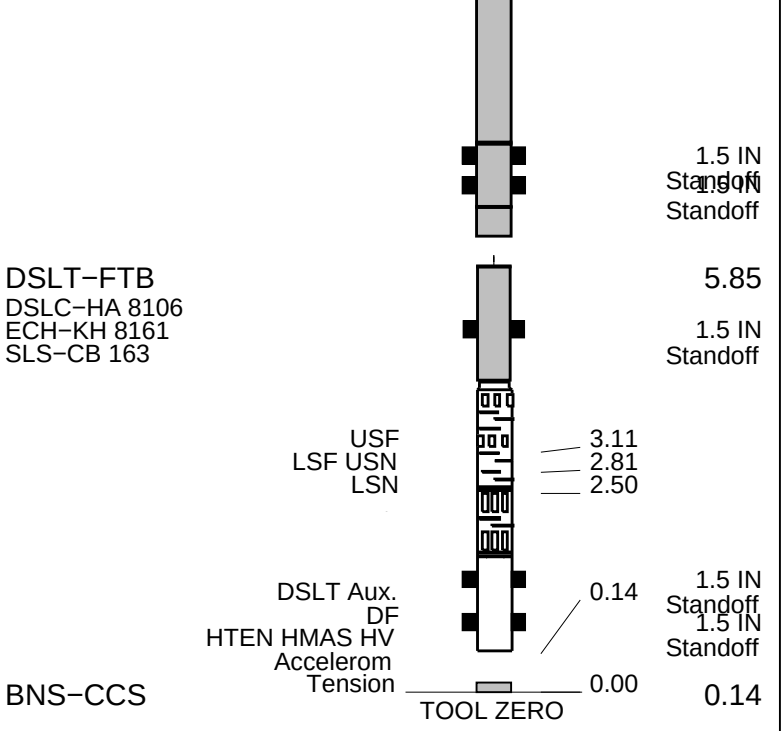
DTC−H 21.35
ECH−KC 10020
DTCH0−A

HILTB−FTB 20.43
HGNSD−B 856
HMCA
HGNH−H 3915
NLS−KL
NSR−F 5224
HACCZ 379
HCNT
HGR
HRCC−B 868
HRMS−B 788
HRGD−BC 1806
GLS−J 5334
MCFL Device
HILT Nucl. LS 28356
HILT Nucl. SS 14120
HILT Nucl. BS 26468
BOW−SPR
NPV−MF 5224

AH−107 13.83
AH−107

HRLT−B 13.22
HRUH−B 1741
HRUC−B 1780
HRLS−B 1745
HRLH−B 1792
HRLC−B 1745
AH−270 1792

1.5 IN Standoff
1.5 IN Standoff

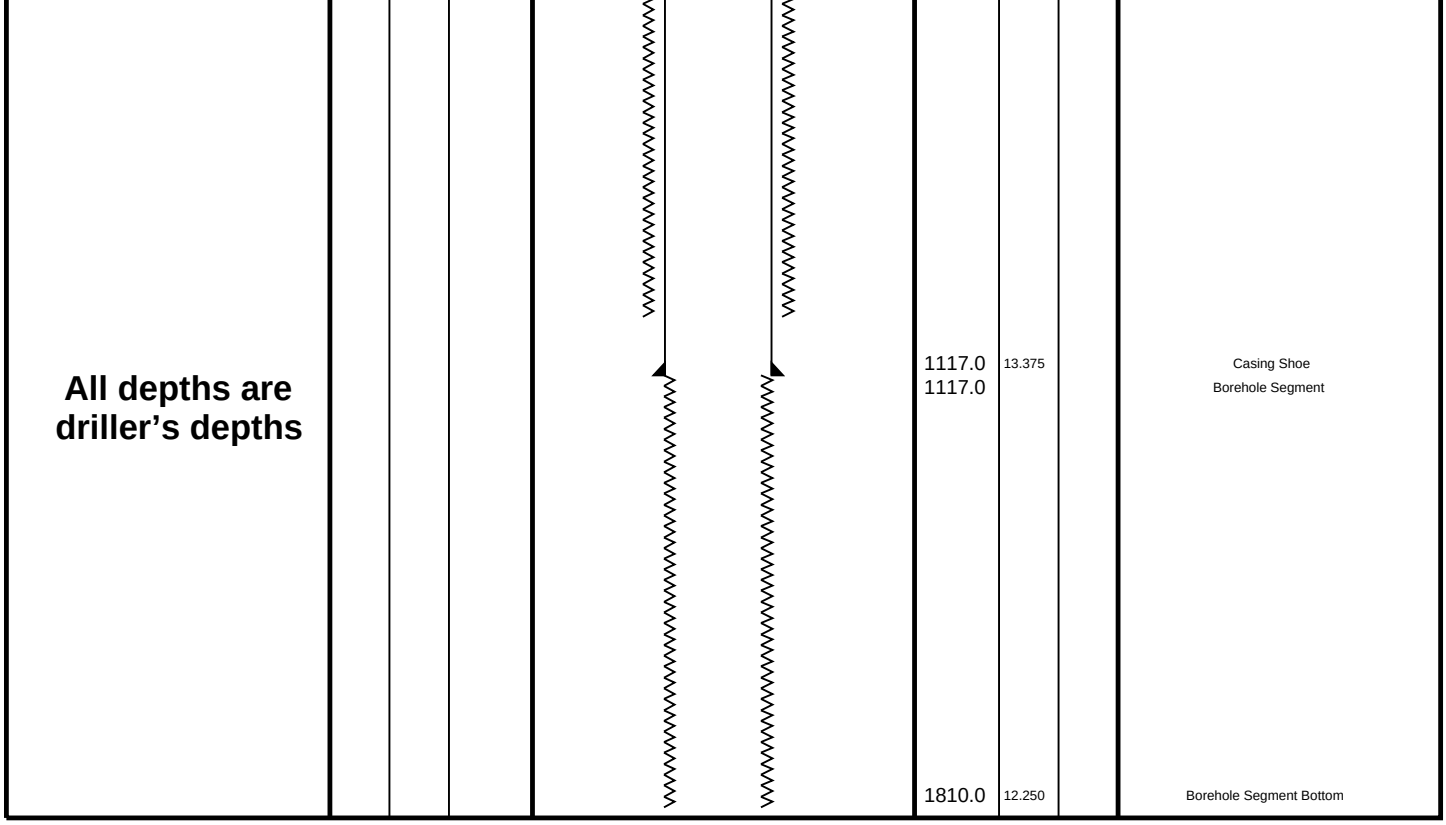


MAXIMUM STRING DIAMETER 6.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: 3D Oil
Well: West Seahorse 3
Field: West Seahorse
State: Victoria
Country: Australia

Rig Name: West Triton
Reference Datum: Mean Sea Level
Elevation: 38.0 m

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String
Kelly Bushing Elevation			38.0					
Mean Sea Level			0.0					
					39.0	36.000		Borehole Segment
					122.0	30.000	13.375	Casing Shoe



Schlumberger

Standard Resolution Pass
1:500

MAXIS Field Log

Company: 3D Oil **Well: West Seahorse 3**

Input DLIS Files

	Splice_SONIC_HRLA_006CUP	FN:1		07−May−2008 21:02	1778.4 M	101.5 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10−May−2008 15:46	1778.4 M	102.1 M
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10−May−2008 15:46	1778.4 M	102.1 M

Integrated Hole/Cement Volume Summary

Hole Volume = 56.92 M3

Cement Volume = 26.64 M3 (assuming 9.63 IN casing O.D.)

Computed from 1761.0 M to 1116.0 M using data channel(s) HCAL

OP System Version: 15C0−309

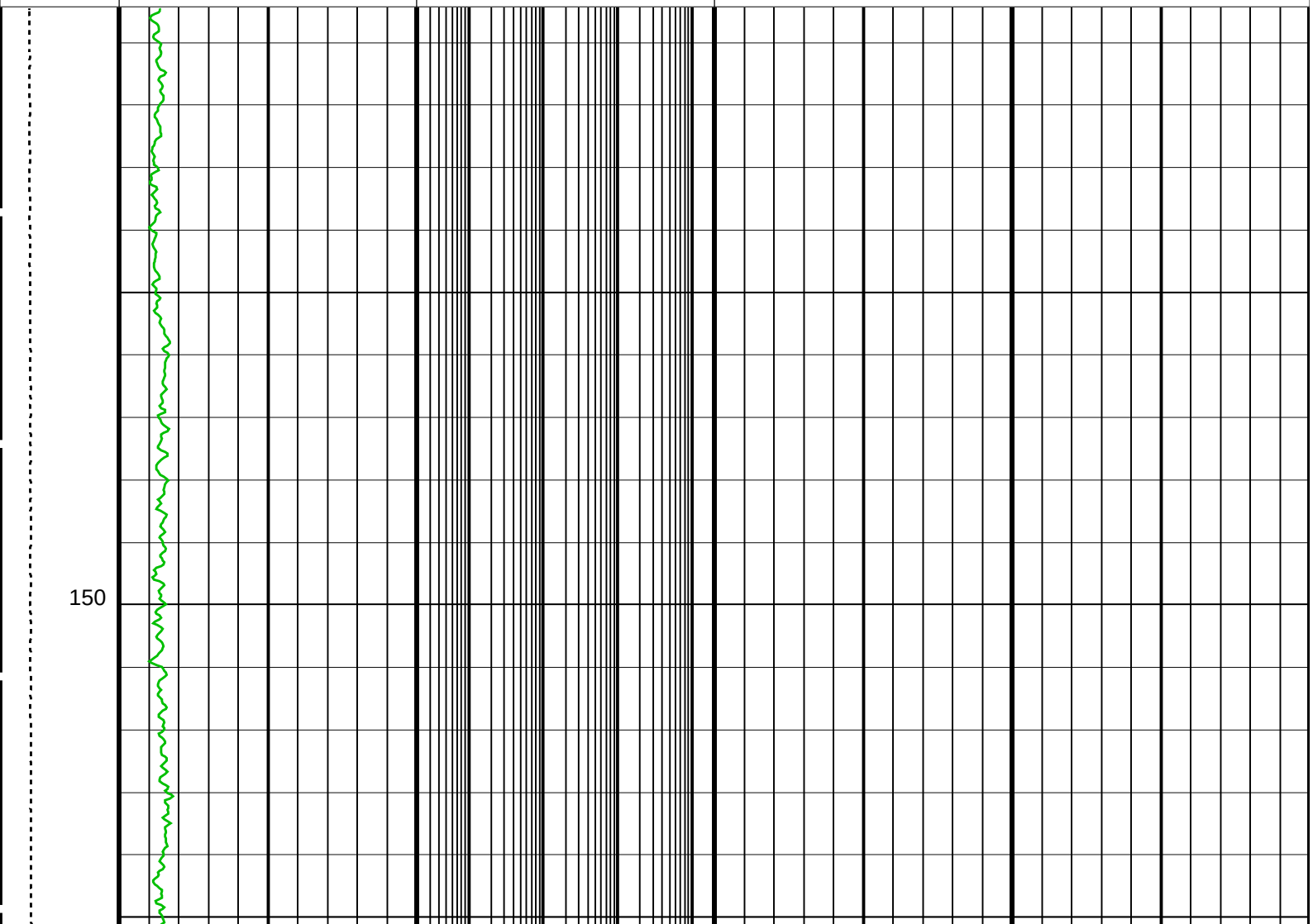
MCM

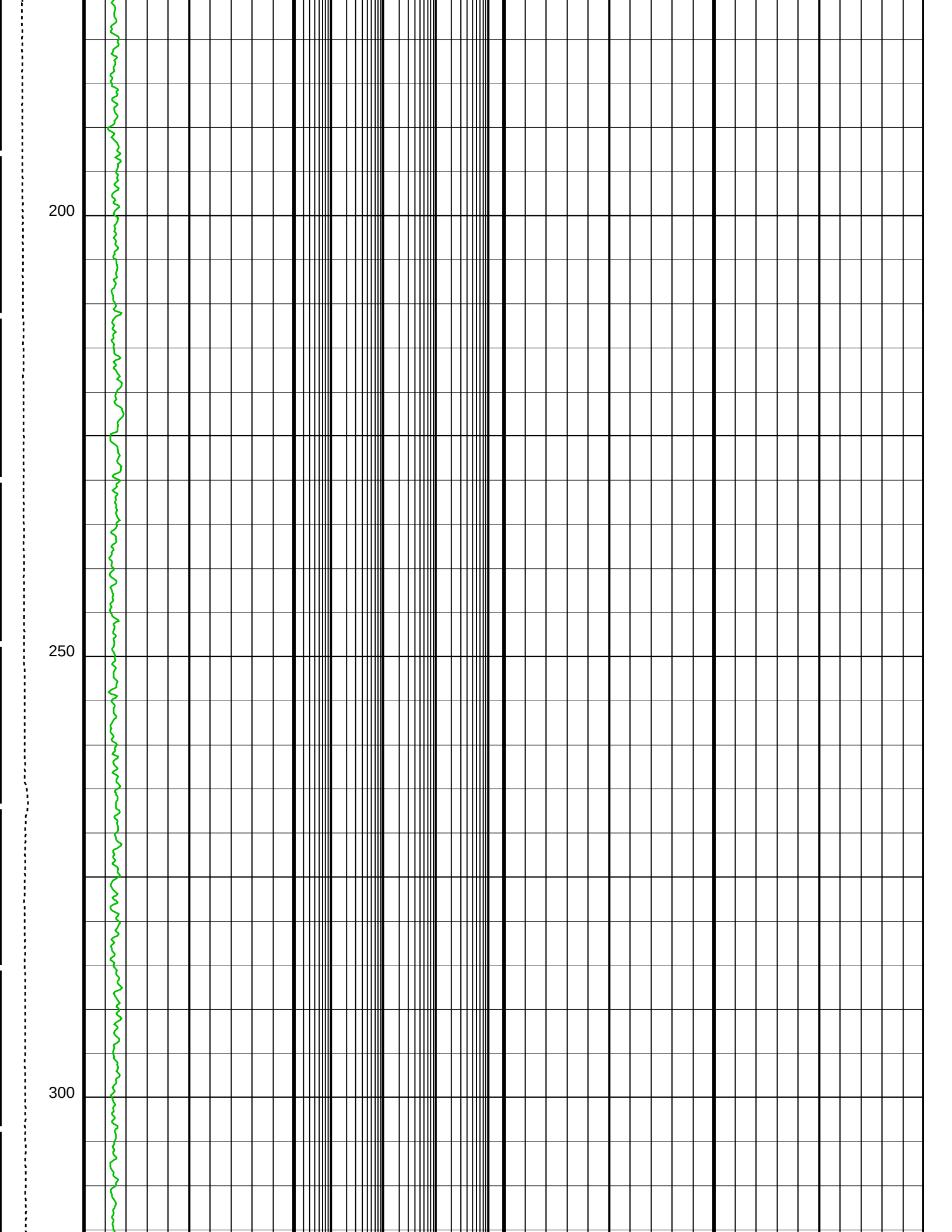
DSLT−FTB	SKK−3562−MAST_b	HRLT−B	SRPC−3546−Q1_2008_OP15_b
HILTB−FTB	SRPC−3546−Q1_2008_OP15_b	DTC−H	SKK−3493−EDTCB_b
BSP	SRPC−3546−Q1_2008_OP15_b		

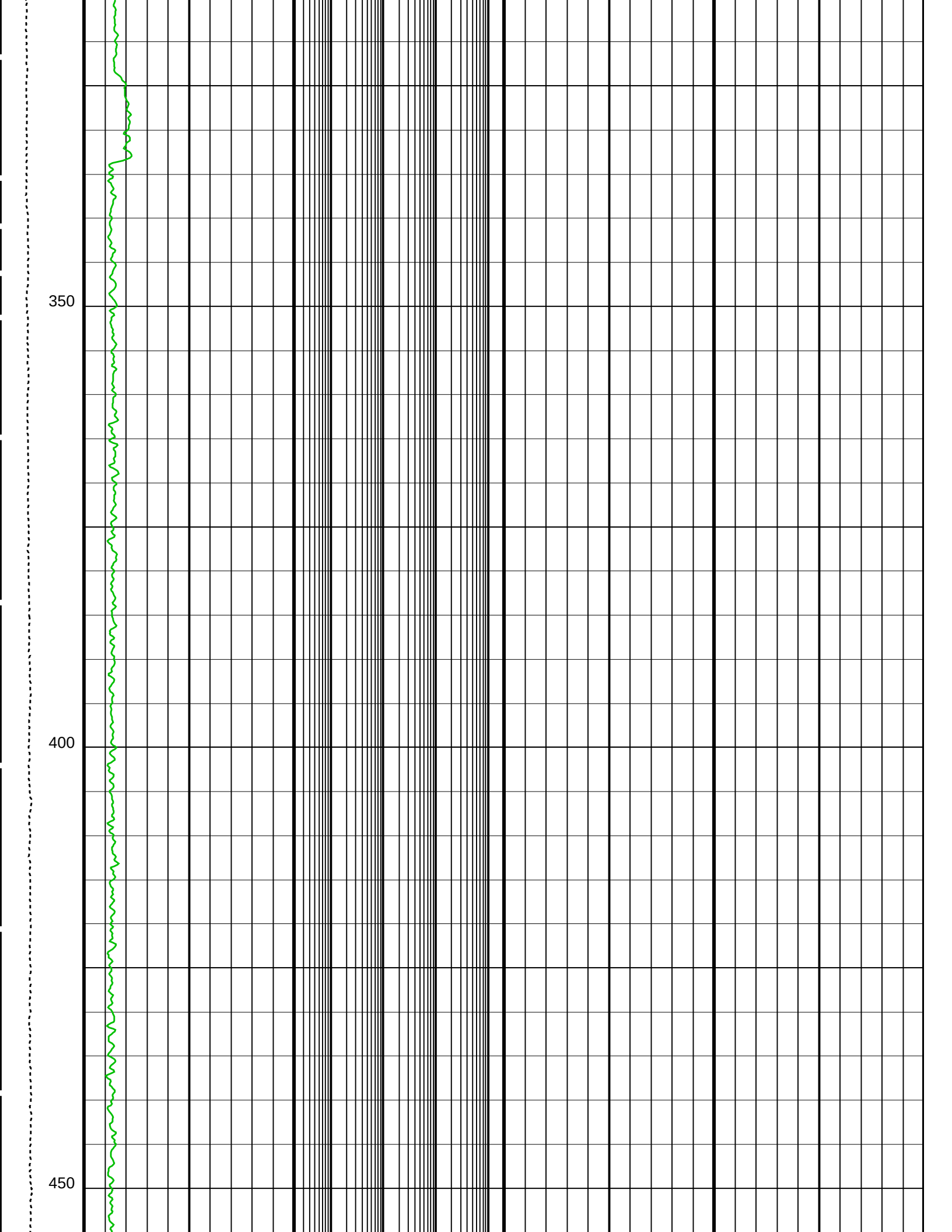
PIP SUMMARY

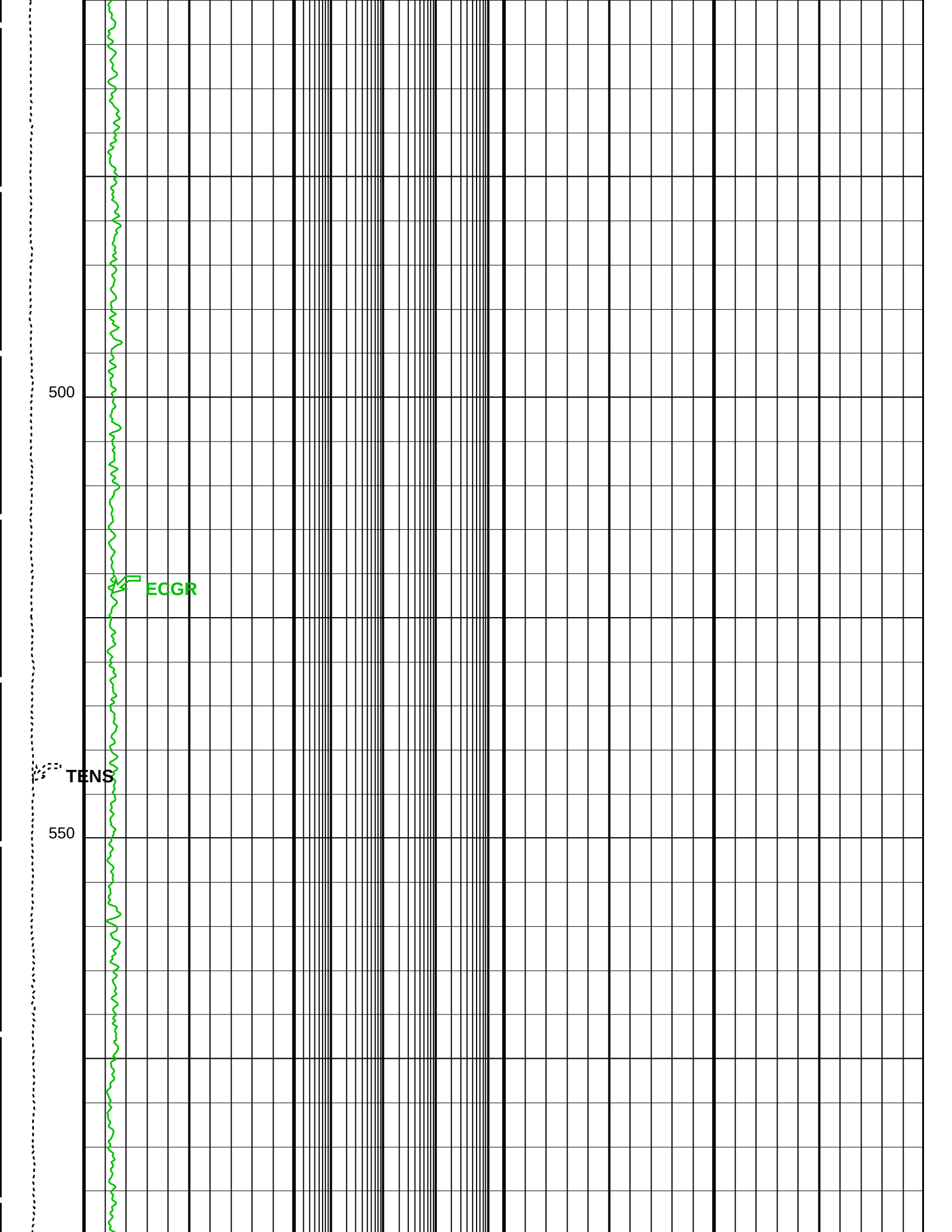
- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

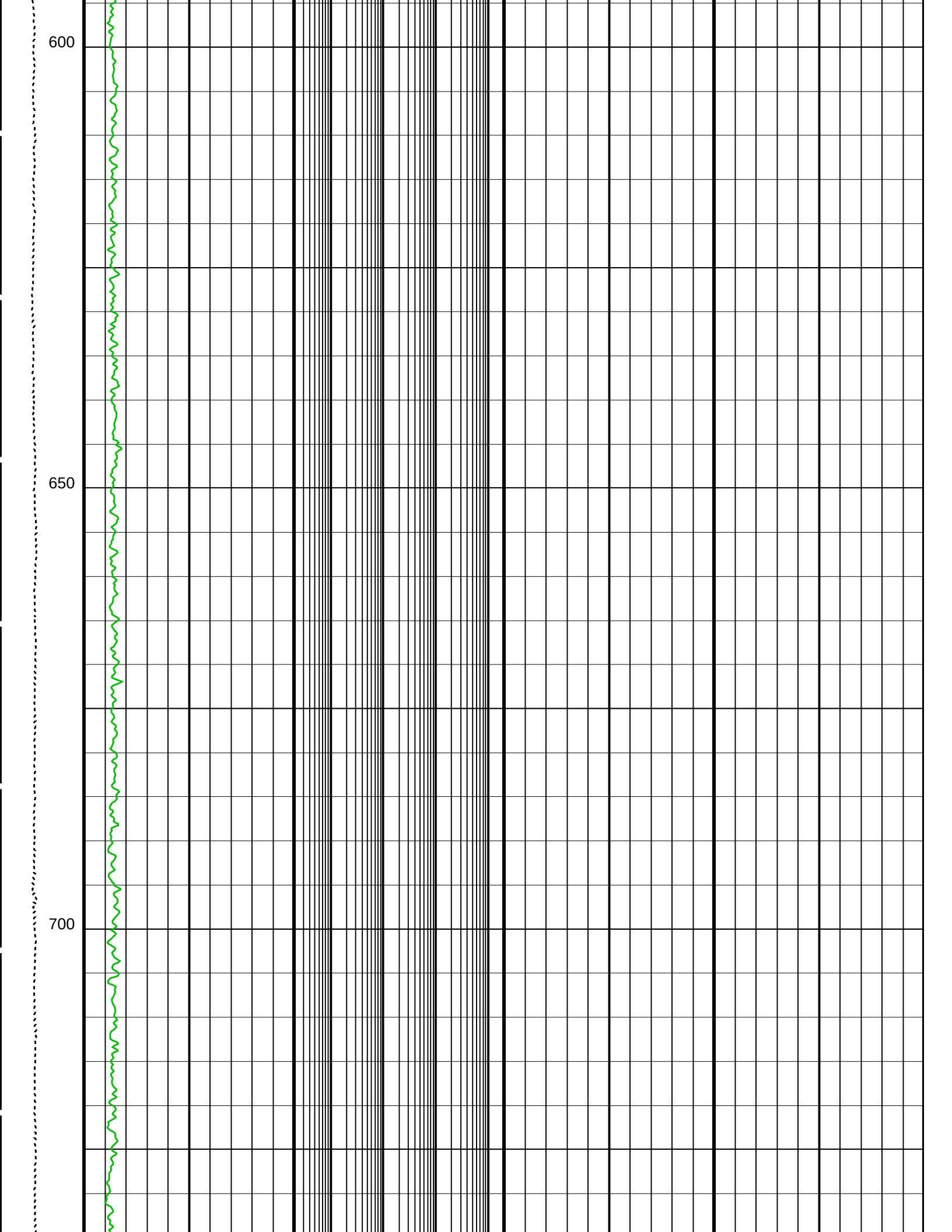
	Area From HCAL to BS		Env.Corr.Thermal Neutron Porosity (TNPH) 0.45 (V/V) −0.15	
	SP (SP) −80 (MV) 20	Std. Res. Invaded Zone Resistivity (RXOZ) 0.2 (OHMM) 2000	Std. Res. Formation Density (RHOZ) 1.95 (G/C3) 2.95	
	Gamma Ray (ECGR) 0 (GAPI) 200	HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000	Std. Res. Formation Pe (PEFZ) 0 (---- 10	Density Correction (HDRA) −0.25 (G/C3) 0.25
	HILT Caliper (HCAL) 6 (IN) 16	HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000	Sand From RHOZ to TNPH	
Tension (TENS) (LBF) 0 5000	Bit Size (BS) 6 (IN) 16	HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000	Delta−T (DT) 140 (US/F) 40	

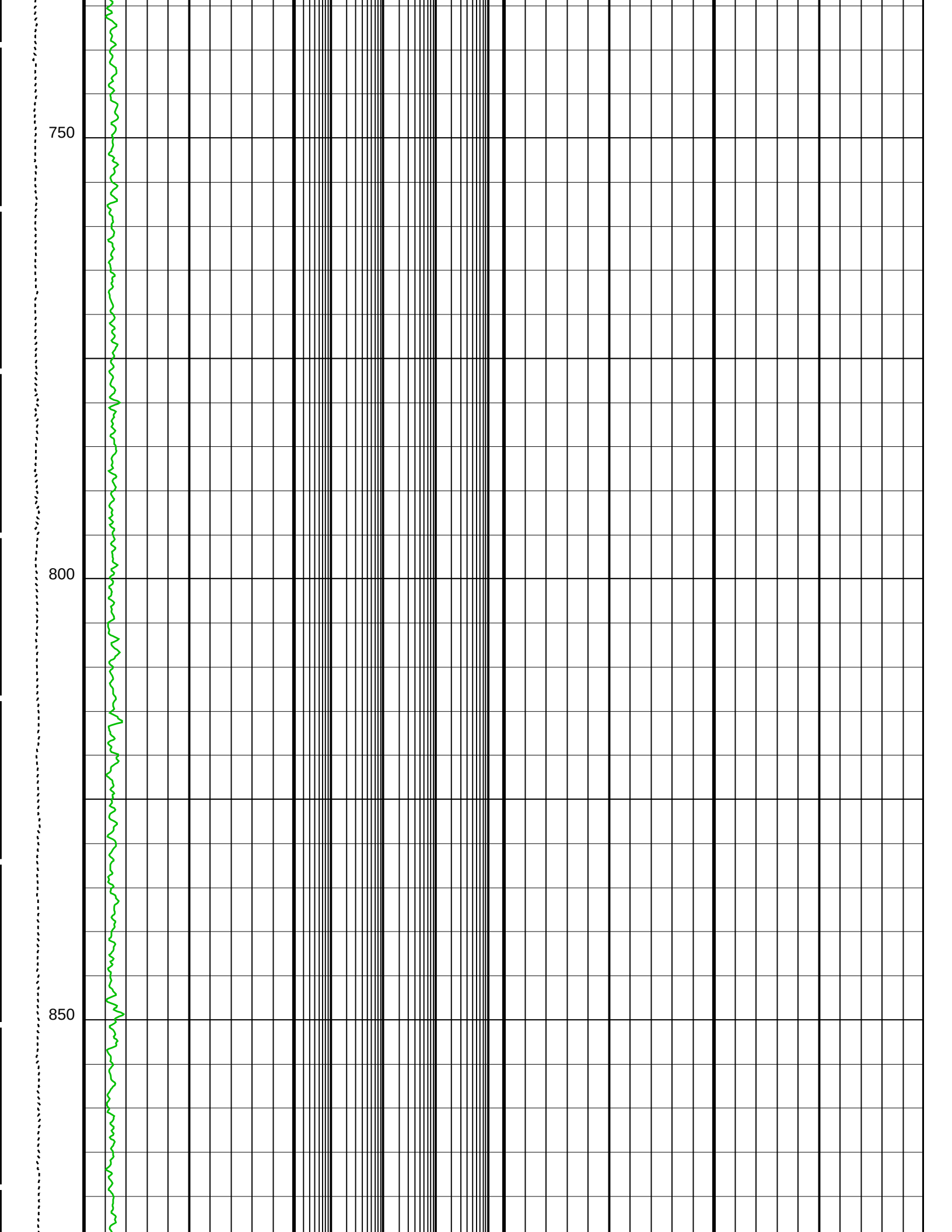


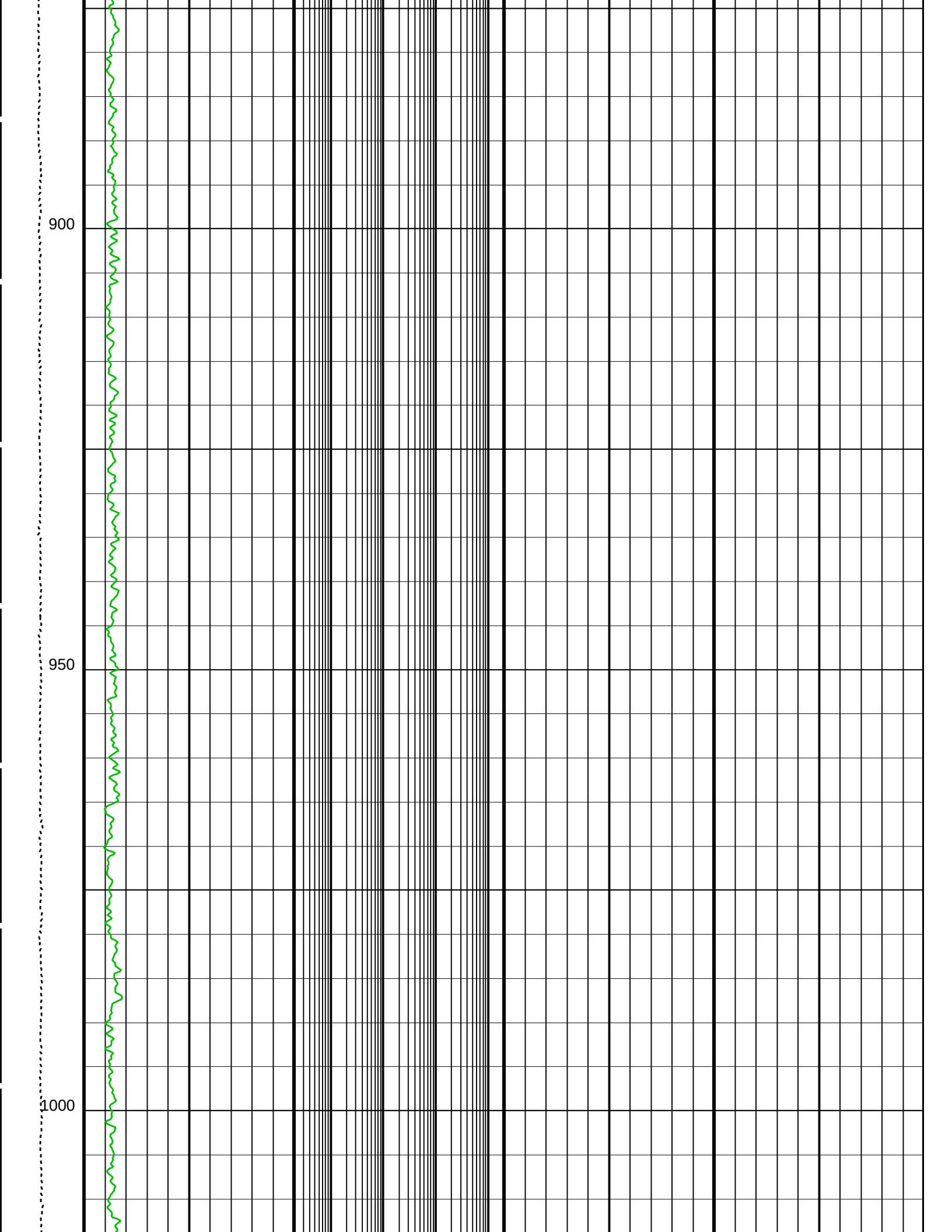

200
250
300

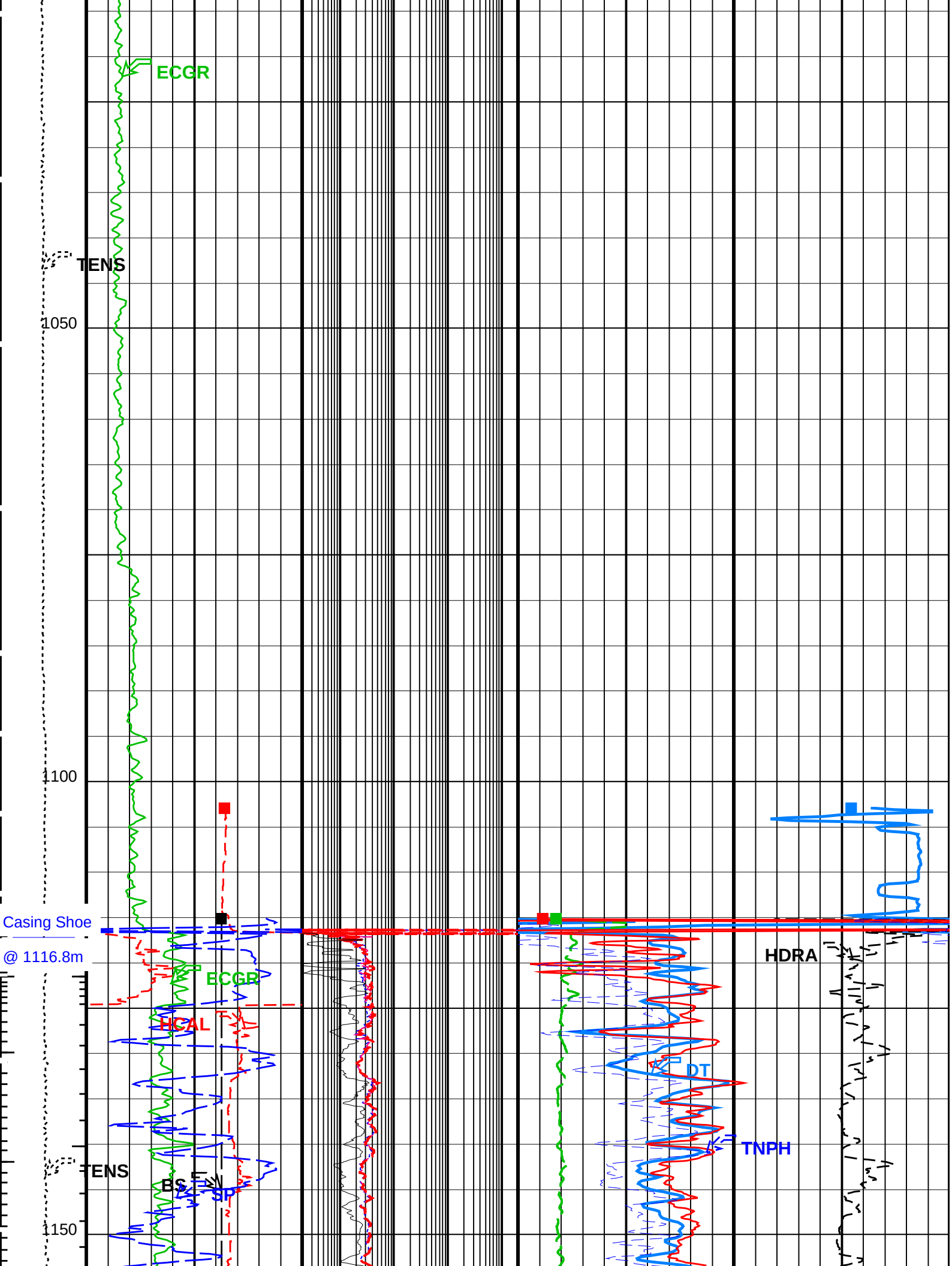

350
400
450

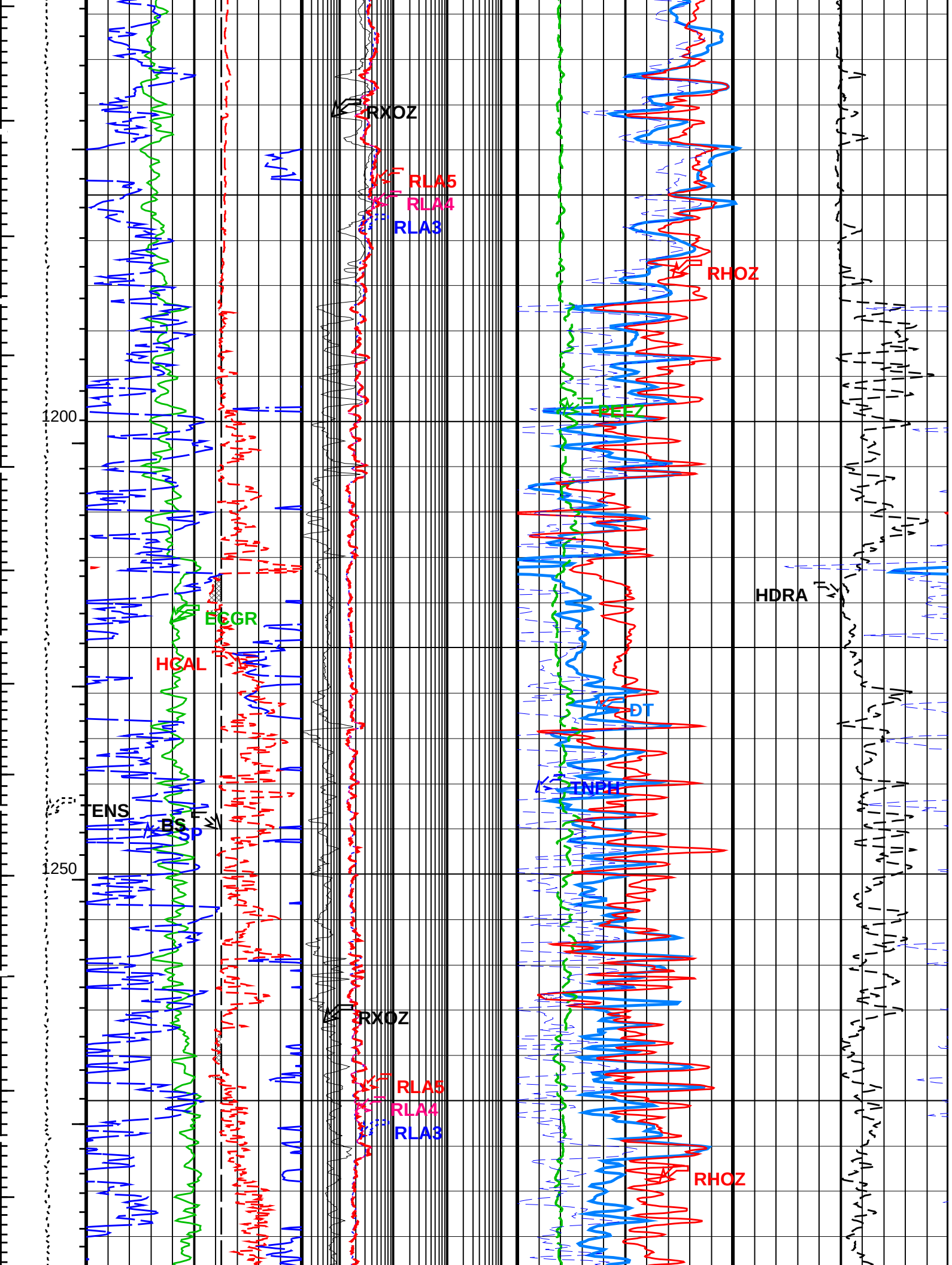

500
ECGR
TENS
550

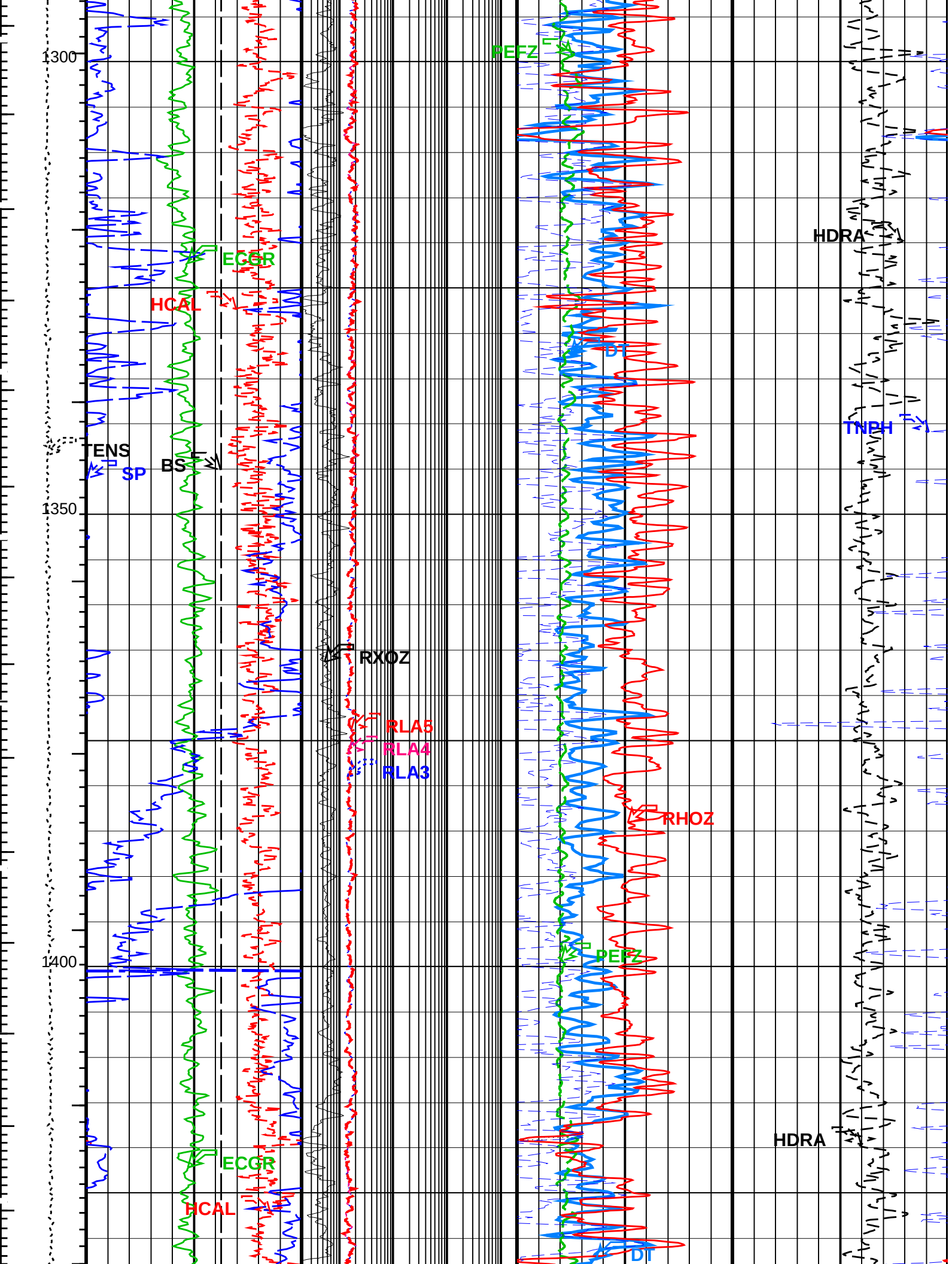

600
650
700

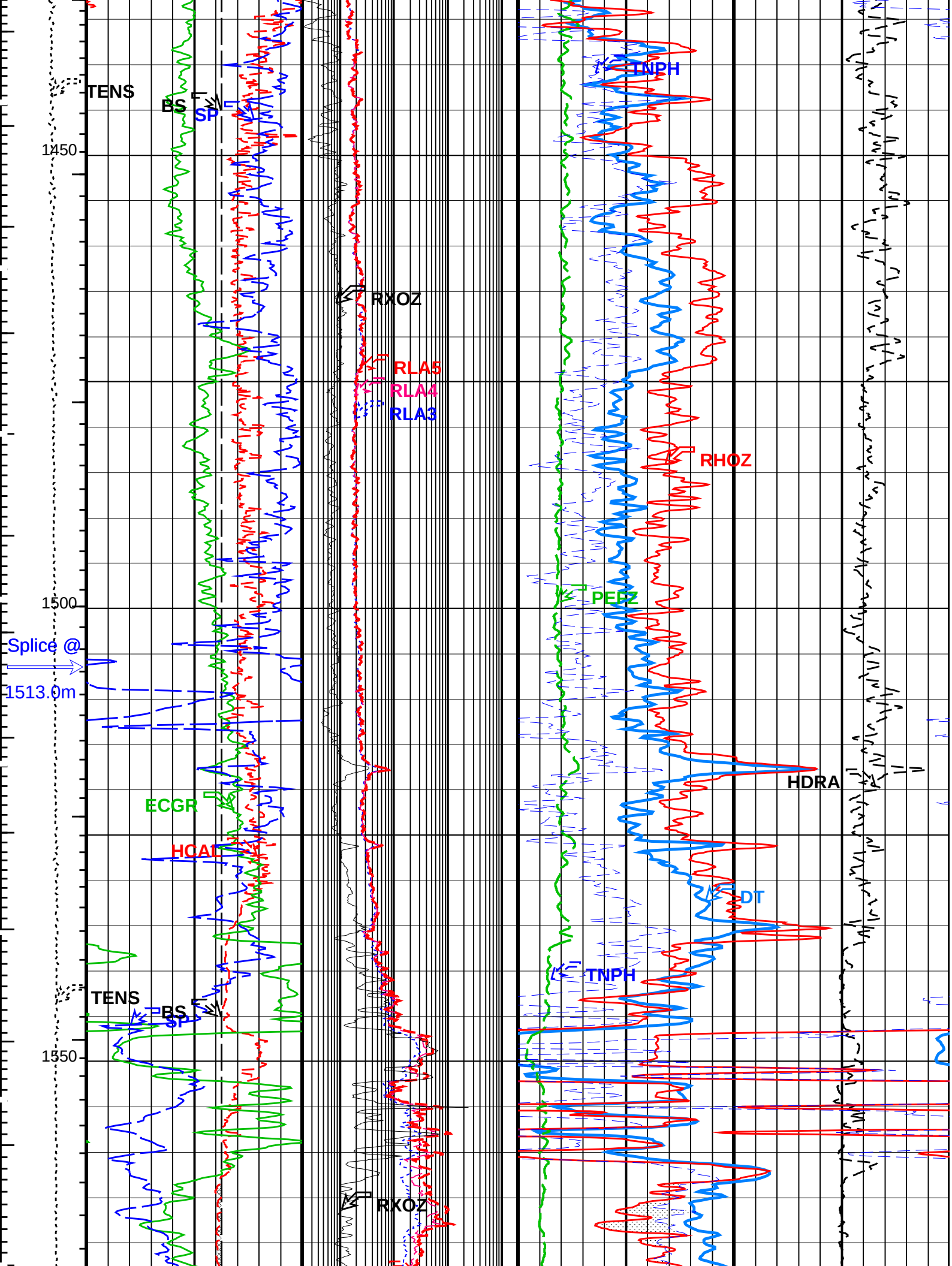

750
800
850

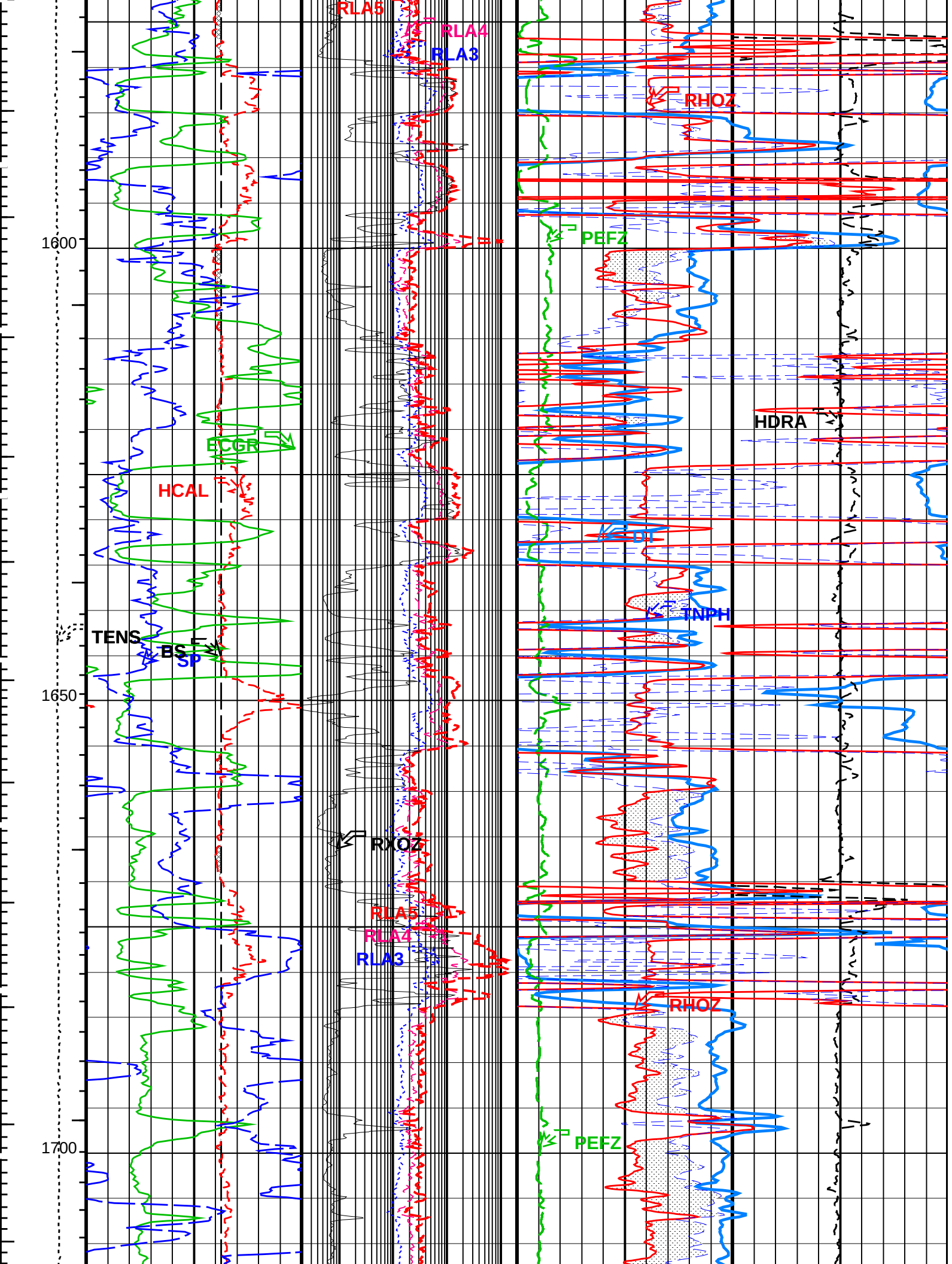

900
950
1000


ECGR
TENS
1050
1100
Casing Shoe
@ 1116.8m
ECGR
HCAL
HDRA
DT
TNPH
TENS
BS
SP
1150


RXOZ
RLA5
RLA4
RLA3
RHOZ
1200
PEFZ
HDRA
ECGR
HCAL
DT
TNPH
ENS
BS
SP
1250
RXOZ
RLA5
RLA4
RLA3
RHOZ


1300
1350
1400
PEFZ
HDRA
ECGR
HCAL
DT
TNPH
TENS
SP
BS
RXOZ
RLA5
RLA4
RLA3
RHOZ
PEFZ
HDRA
ECGR
HCAL
DT


TENS
BS
SP
1450
RXOZ
RLA5
RLA4
RLA3
TNPH
RHOZ
PEFZ
1500
Splice @
1513.0m
HDRA
ECGR
HCAL
DT
TNPH
TENS
BS
SP
1550
RXOZ


RLA5
RLA4
RLA3
RHOZ
PEFZ
1600
HDRA
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HCAL
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BS
SP
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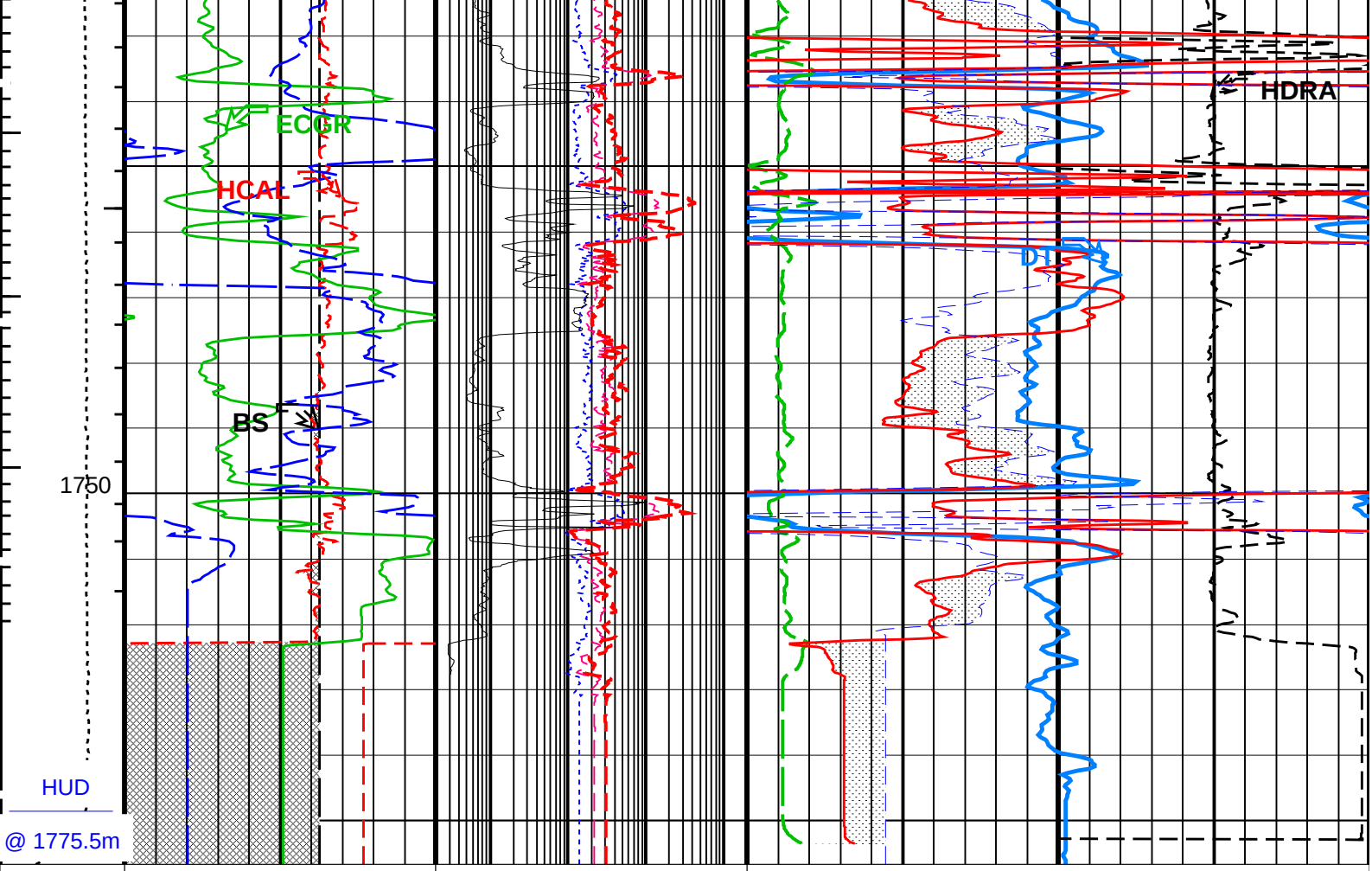
RLA5
RLA4
RLA3
RHOZ
PEFZ
1700



Tension (TENS) (LBF) 0 5000	Bit Size (BS) 6 (IN) 16	HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000	Delta−T (DT) 140 (US/F) 40
	HILT Caliper (HCAL) 6 (IN) 16	HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000	Sand From RHOZ to TNPH
	Gamma Ray (ECGR) 0 (GAPI) 200	HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000	Std. Res. Formation Pe (PEFZ) 0 (---- 10 / Density Correction (HDRA) −0.25 (G/C3) 0.25
	SP (SP) −80 (MV) 20	Std. Res. Invaded Zone Resistivity (RXOZ) 0.2 (OHMM) 2000	Std. Res. Formation Density (RHOZ) 1.95 (G/C3) 2.95
	Area From HCAL to BS		Env.Corr.Thermal Neutron Porosity (TNPH) 0.45 (V/V) −0.15

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3
- Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DSLT−FTB: Digitizing Sonic Logging Tool		
	Telemetry Mode	DSLC_FTB	
	DSLT Firing Mode	SDDB	
DDEL	Digitizing Delay	0	US
DIVL	DSLT Depth Sampling Interval	20	
DRCS	DSLT DLIS Recording Size	180	
DSIN	Digitizing Sample Interval	10	
DTFS	DSLC Telemetry Frame Size	206	

DTFS	DSLC Telemetry Frame Size	396	
DWCO	Digitizing Word Count	180	
GAI	Manual Gain	40	
MAHTR	Manual High Threshold Reference	120	
MGAI	Maximum Gain	60	
MNHTR	Minimum High Threshold Reference	100	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	1060	US
RATE	Firing Rate	R15	
SFAF	Sonic Formation Attenuation Factor	10	DB/M
SGCL	Sliding Gate Closing Delta−T	140	US/F
SGDT	Sliding Gate Delta−T	40	US/F
SGW	Sliding Gate Width	110	US
SLEV	Signal Level for AGC	5000	
WMOD	Waveform Firing Mode	FULL	
HRLT−B: High Resolution Laterolog Array − E			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
KFAC_HRLT	HRLT K Factor Option	SONDE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGC
HILTB−FTB: High resolution Integrated Logging Tool−DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FSAL	Formation Salinity	−50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal−like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	BARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	35	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	NO	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along−hole depth of Tie−in Point	0	M
TIVD	TVD of Tie−in Point	0	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	9.625	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	35	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth − Logger	1775.50	M
System and Miscellaneous			
BS	Bit Size	12.250	IN
BSAL	Borehole Salinity	51637.00	PPM
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	1761	M

Format: SON_RES_DENS_NEU_GR_SP_D500 Vertical Scale: 1:500 Graphics File Created: 10−May−2008 15:46

OP System Version: 15C0−309

MCM

DSLT−FTB	SKK−3562−MAST_b	HRLT−B	SRPC−3546−Q1_2008_OP15_b
HILTB−FTB	SRPC−3546−Q1_2008_OP15_b	DTC−H	SKK−3493−EDTCB_b
BSP	SRPC−3546−Q1_2008_OP15_b		

Input DLIS Files

	Splice_SONIC_HRLA_006CUP	FN:1	07−May−2008 21:02	1778.4 M	101.5 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	PRODUCER	10−May−2008 15:46	
CUSTOMER	SONIC_HRLA_TLD_MCFL_008PUC	FN:14	CUSTOMER	10−May−2008 15:46	

Schlumberger

Caliper

MAXIS Field Log

Company: 3D Oil Limited **Well: West Seahorse 3**

Input DLIS Files

	SONIC_HRLA_TLD_MCFL_008PUP	FN:13	10−May−2008 22:29	1778.4 M	102.1 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_018PUP	FN:17	PRODUCER	19−Jun−2008 15:48	1778.4 M	1112.4 M

Integrated Hole/Cement Volume Summary

Hole Volume = 56.92 M3

Cement Volume = 26.64 M3 (assuming 9.63 IN casing O.D.)

Computed from 1761.0 M to 1116.0 M using data channel(s) HCAL

OP System Version: 15C0−309

MCM

DSLT−FTB	SRPC−3546−Q1_2008_OP15	HRLT−B	SRPC−3546−Q1_2008_OP15
HILTB−FTB	SRPC−3546−Q1_2008_OP15	DTC−H	SRPC−3546−Q1_2008_OP15
BSP	SRPC−3546−Q1_2008_OP15		

PIP SUMMARY

Integrated Hole Volume Minor Pip Every 0.1 M3

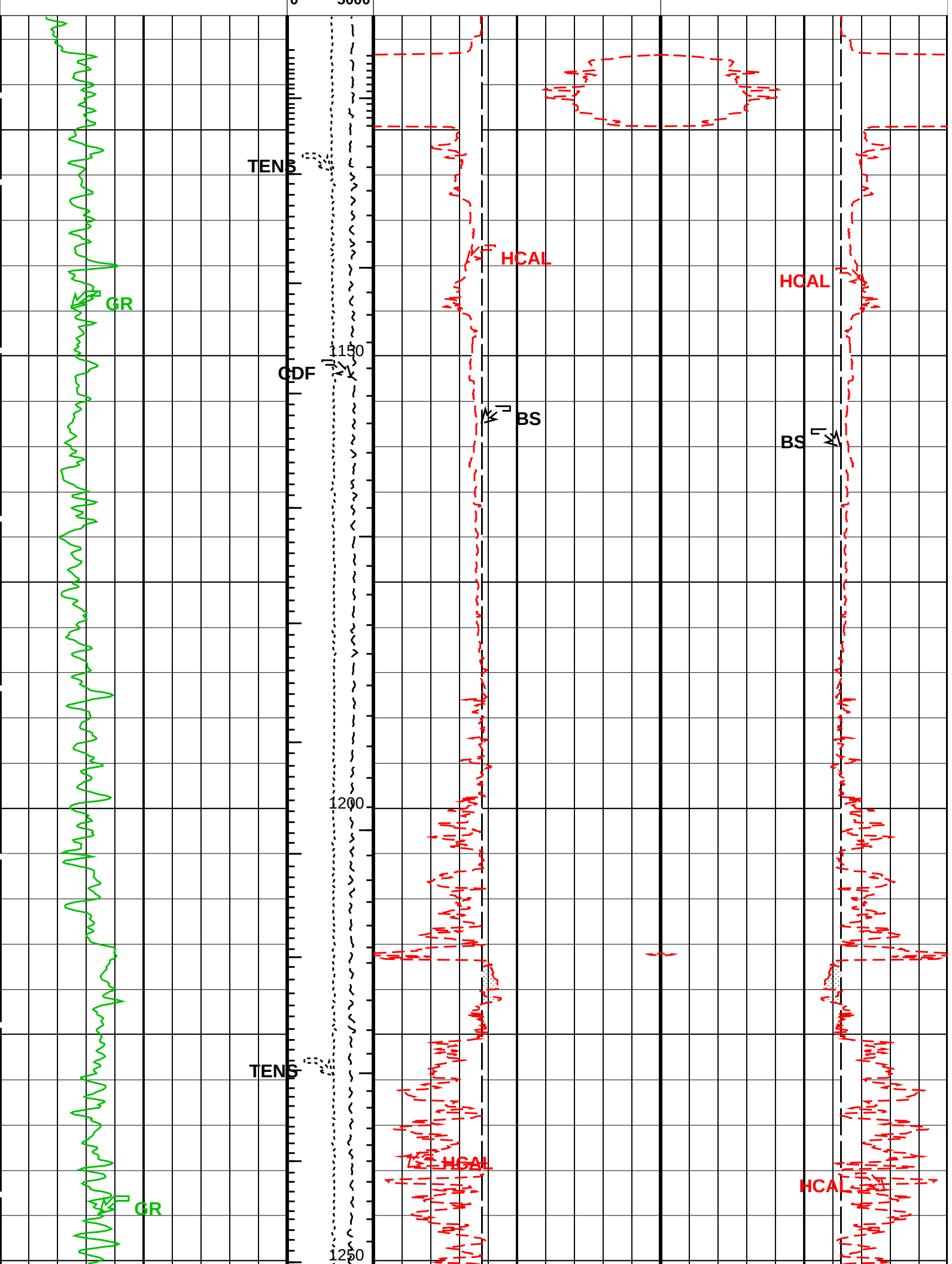
Integrated Hole Volume Major Pip Every 1 M3

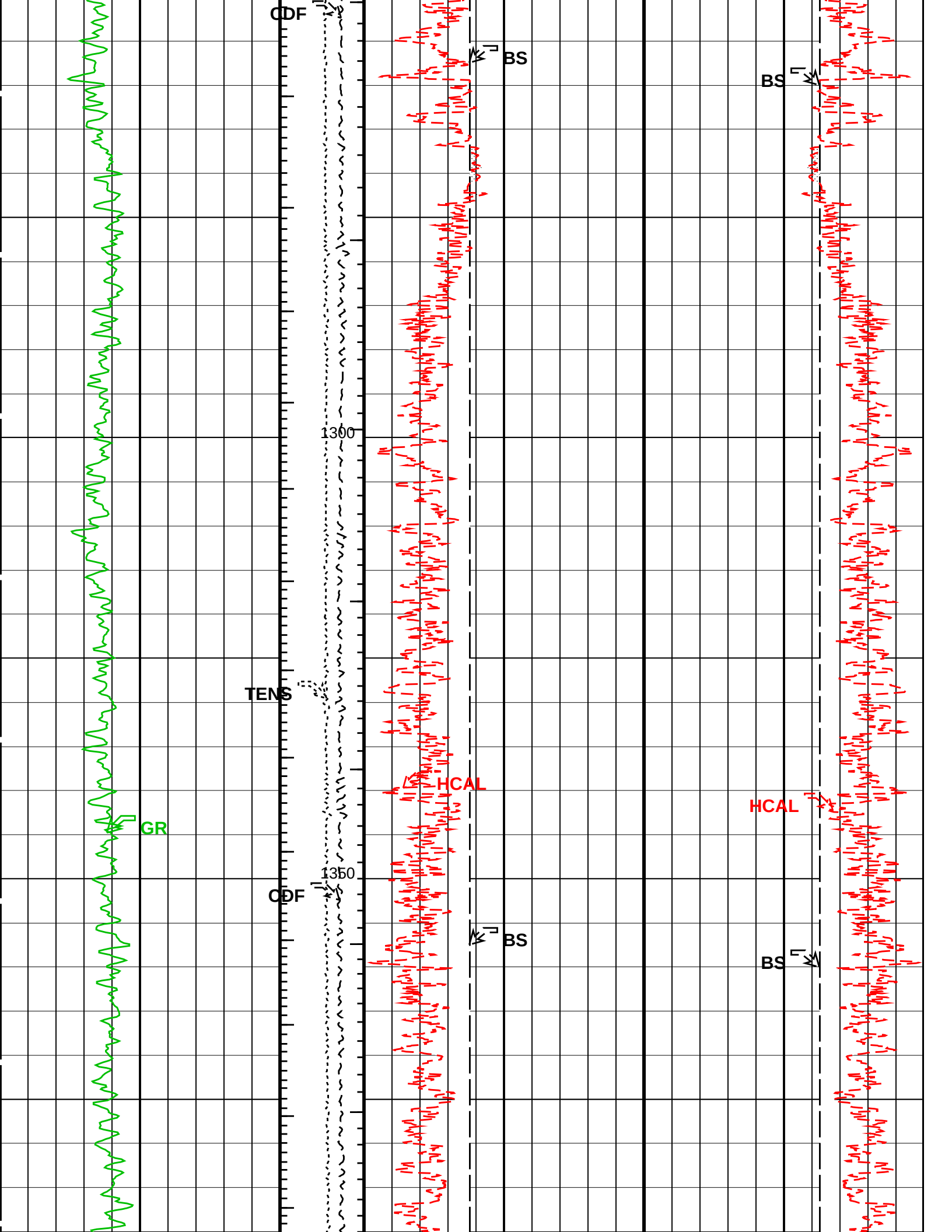
Integrated Cement Volume Minor Pip Every 0.1 M3

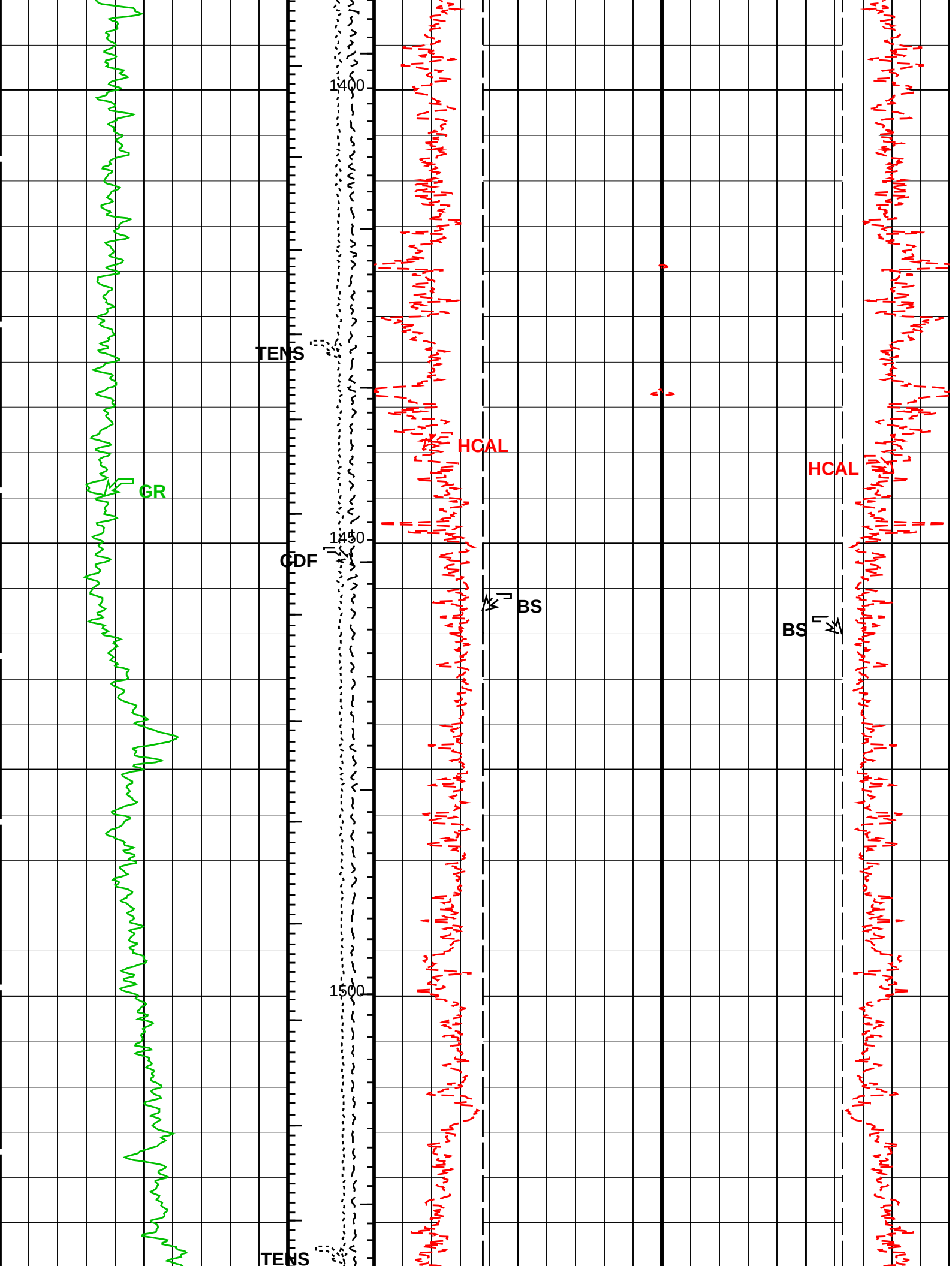
Integrated Cement Volume Major Pip Every 1 M3

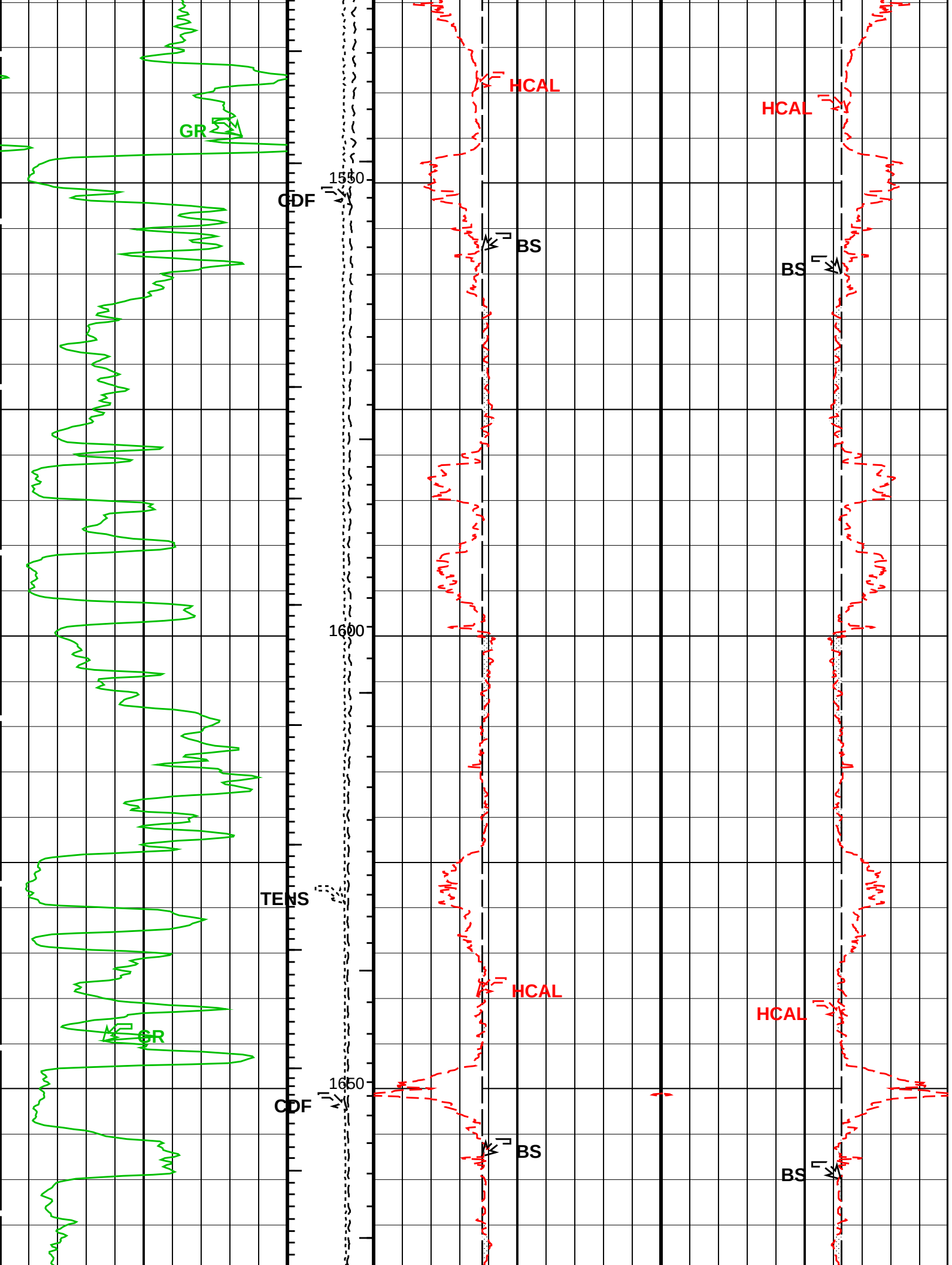
Time Mark Every 60 S

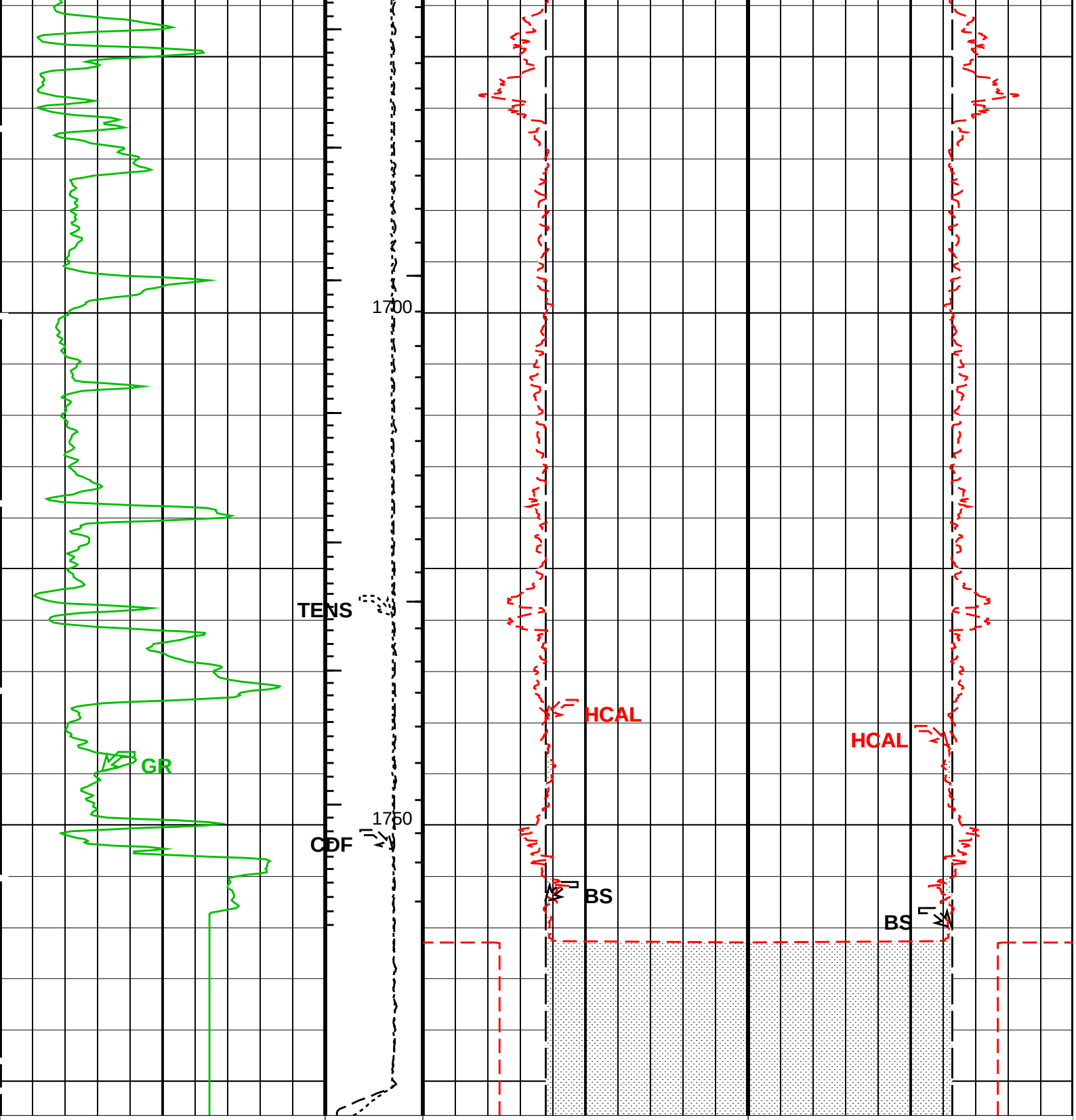
		Washout From HCAL_1 to BS_1	Washout From BS to HCAL
		Mudcake From BS_1 to HCAL_1	Mudcake From HCAL to BS
	Calibrated Downhole Force (CDF) (LBF) −200 1800	HILT Caliper (HCAL) 16 (IN) 6	HILT Caliper (HCAL) 6 (IN) 16
Gamma Ray (GR) 0 (GAPI) 200	Tension (TENS) (LBF) 0 5000	Bit Size (BS) 16 (IN) 6	Bit Size (BS) 6 (IN) 16


0
5000
TENS
GR
HCAL
HCAL
1150
CDF
BS
BS
1200
TENS
HCAL
HCAL
GR
1250


CDF
BS
BS
1300
TENS
HCAL
HCAL
GR
1350
CDF
BS
BS


1400
TENS
HCAL
HCAL
GR
1450
CDF
BS
BS
1500
TENS


GR
CDF
1550
HCAL
HCAL
BS
BS
1600
TENS
GR
HCAL
HCAL
1650
CDF
BS
BS



Gamma Ray (GR)	Tension (TENS)	Bit Size (BS)	Bit Size (BS)
0 (GAPI) 200	0 (LBF) 5000	16 (IN) 6	6 (IN) 16
	Calibrated Downhole Force (CDF)	HILT Caliper (HCAL)	HILT Caliper (HCAL)
	−200 (LBF) 1800	16 (IN) 6	6 (IN) 16
		Mudcake From BS_1 to HCAL_1	Mudcake From HCAL to BS
		Washout	Washout

Washout From HCAL_1 to BS_1	Washout From BS to HCAL

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 0.1 M3
- Integrated Hole Volume Major Pip Every 1 M3
- Integrated Cement Volume Minor Pip Every 0.1 M3
- Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0	M
TIMD	Along−hole depth of Tie−in Point	1094.42	M
TIVD	TVD of Tie−in Point	1014.85	M
	HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	9.625	IN
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
	System and Miscellaneous		
BS	Bit Size	12.250	IN
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	1761	M

Format: CALIPER LOG 500 **Vertical Scale: 1:500** **Graphics File Created: 19−Jun−2008 15:48**

OP System Version: 15C0−309

MCM

DSLT−FTB	SRPC−3546−Q1_2008_OP15	HRLT−B	SRPC−3546−Q1_2008_OP15
HILTB−FTB	SRPC−3546−Q1_2008_OP15	DTC−H	SRPC−3546−Q1_2008_OP15
BSP	SRPC−3546−Q1_2008_OP15		

Input DLIS Files

	SONIC_HRLA_TLD_MCFL_008PUP FN:13	10−May−2008 22:29	1778.4 M	102.1 M

Output DLIS Files

DEFAULT	SONIC_HRLA_TLD_MCFL_018PUP FN:17	PRODUCER	19−Jun−2008 15:48

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 5−May−2008 10:46							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−318.4	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−348.5	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−355.0	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−342.6	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−323.0	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−330.4	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	311.7	N/A	N/A	9.681	UV
HRLT M0−M1 Voltage Plus − 7	0	N/A	−322.7	N/A	N/A	9.681	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT M12
Before: 5−May−2008 10:46

HRLT M1−M2 Voltage Plus − 0	0	N/A	1749	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1913	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1944	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1876	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1770	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1812	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	−1719	N/A	N/A	53.42	UV
HRLT M1−M2 Voltage Plus − 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT M23
Before: 5−May−2008 10:46

HRLT M2−M3 Voltage Plus − 0	0	N/A	1731	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1898	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1932	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1869	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1760	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1804	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1695	N/A	N/A	53.42	UV
HRLT M2−M3 Voltage Plus − 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V34
Before: 5−May−2008 10:46

HRLT A3−A4 Voltage Plus − 0	0	N/A	68570	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	75520	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	77060	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	74690	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	70130	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	71800	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−66420	N/A	N/A	2100	UV
HRLT A3−A4 Voltage Plus − 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V45
Before: 5−May−2008 10:46

HRLT A4−A5 Voltage Plus − 0	0	N/A	68380	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	75380	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	76900	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	74530	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	69960	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	71630	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−66300	N/A	N/A	2100	UV
HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56
Before: 5−May−2008 10:46

HRLT A5−A6 Voltage Plus − 0	0	N/A	68530	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	75670	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	77170	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	74750	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	70110	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	71760	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−66600	N/A	N/A	2100	UV
HRLT A5−A6 Voltage Plus − 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VTP
Before: 5−May−2008 10:46

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68100	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−75370	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−76950	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−74650	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−70110	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−71770	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	66260	N/A	N/A	2100	UV
HRLT Torpedo−M0 Voltage − 7	0	N/A	−70000	N/A	N/A	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT VBD
Before: 5−May−2008 10:46

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−67680	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−75750	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−76880	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−74400	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−70870	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−72260	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	66590	N/A	N/A	2100	UV
HRLT Bridle#9−M0 Voltage − 7	0	N/A	−70000	N/A	N/A	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT ISO
Before: 5−May−2008 10:46

HRLT Source Current Plus − 0	0	N/A	283.9	N/A	N/A	8.520	UA
HRLT Source Current Plus − 1	0	N/A	281.1	N/A	N/A	8.520	UA

HRLT Source Current Plus − 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus − 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array − B Wellsite Calibration − HRLT MV
Before: 5−May−2008 10:46

HRLT Vertical Voltage Pl − 0	0	N/A	−320.1	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−343.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−348.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−334.2	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−311.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−334.3	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	320.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	N/A	N/A	9.681	UV

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Stab Measurement Summary
Before: 3−May−2008 4:06

BS Window Ratio	0.7659	N/A	0.7656	N/A	N/A	N/A	
BS Window Sum	10570	N/A	10540	N/A	N/A	N/A	CPS
SS Window Ratio	0.4894	N/A	0.4901	N/A	N/A	N/A	
SS Window Sum	10320	N/A	10290	N/A	N/A	N/A	CPS
LS Window Ratio	0.3022	N/A	0.2976	N/A	N/A	N/A	
LS Window Sum	1161	N/A	1152	N/A	N/A	N/A	CPS

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Photo−multiplier High Voltages Calibrations
Before: 3−May−2008 4:06

BS PM High Voltage (Command)	1234	N/A	1249	N/A	N/A	N/A	V
SS PM High Voltage (Command)	1926	N/A	1932	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1402	N/A	1406	N/A	N/A	N/A	V

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Crystal Quality Resolutions Calibration
Before: 3−May−2008 4:06

BS Crystal Resolution	9.798	N/A	9.751	N/A	N/A	N/A	%
SS Crystal Resolution	10.64	N/A	10.76	N/A	N/A	N/A	%
LS Crystal Resolution	9.358	N/A	9.342	N/A	N/A	N/A	%

High resolution Integrated Logging Tool−DTS Wellsite Calibration − MCFL Calibration
Before: 3−May−2008 3:59

Raw B0 Resistivity	3875	N/A	4140	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	4129	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3987	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool−DTS Wellsite Calibration − HILT Caliper Calibration
Before: 3−May−2008 4:02

HILT Caliper Zero Measurement	8.000	N/A	8.099	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.26	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Detector Calibration
Before: 3−May−2008 3:57

Gamma Ray Background	30.00	N/A	6.524	N/A	N/A	N/A	GAPI
Gamma Ray (Jig − Bkg)	172.9	N/A	172.9	N/A	N/A	15.72	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Zero Measurement
Master: 20−Feb−2008 23:21 Before: 3−May−2008 4:01

CNTC Background	29.71	29.71	27.25	N/A	N/A	4.457	CPS
CFTC Background	33.75	33.75	29.34	N/A	N/A	5.063	CPS

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Ratio Measurement
Master: 20−Feb−2008 23:21

Thermal Near Corr. (Tank)	5800	5605	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2400	2340	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.395	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool−DTS Wellsite Calibration − Accelerometer Calibration
Before: 5−May−2008 7:56

Z−Axis Acceleration	9.810	N/A	9.798	N/A	N/A	N/A	M/S2

High resolution Integrated Logging Tool−DTS Master Calibration − Inversion results
Master: 16−Apr−2008 0:33

Rho Aluminum	2.596	2.595	−−	−−	−−	−−	G/C3
Rho Magnesium	1.686	1.689	−−	−−	−−	−−	G/C3
Pe Aluminum	2.570	2.542	−−	−−	−−	−−	
Pe Magnesium	2.650	2.638	−−	−−	−−	−−	

High resolution Integrated Logging Tool−DTS Master Calibration − Deviation Summary
Master: 16−Apr−2008 0:33

BS Average Deviation	0	0.5027	−−	−−	−−	−−	%

BS Max Deviation	0	1.236	−−	−−	−−	−−	%
SS Average Deviation	0	0.6460	−−	−−	−−	−−	%
SS Max Deviation	0	1.302	−−	−−	−−	−−	%
LS Average Deviation	0	0.6624	−−	−−	−−	−−	%
LS Max Deviation	0	1.762	−−	−−	−−	−−	%

The GLS−VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT−B Water Temperature 20.0 DEGC.
Thermal Housing Size 3.376 IN.
NSR−F serial number 5224

Digitizing Sonic Logging Tool / Equipment Identification

Primary Equipment:		
DDBHC Sonde (3’ 5’ 7’)	SLS − CB	163
Digitizing Sonic Logging Cartridge	DSLC − HA	8106
Auxiliary Equipment:		
Electronics Cartridge Housing	ECH − KH	8161

High Resolution Laterolog Array − B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS − B	1745
Auxiliary Equipment:		
HRLT lower Housing	HRLH − B	1792
HRLT Lower Cartridge	HRLC − B	1745
HRLT upper Housing	HRUH − B	1741
HRLT Upper Cartridge	HRUC − B	1780

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0−M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−318.4	−322.7	−280.7	−379.7
1	Before		−348.5	−322.7	−280.7	−379.7
2	Before		−355.0	−322.7	−280.7	−379.7
3	Before		−342.6	−322.7	−280.7	−379.7
4	Before		−323.0	−322.7	−280.7	−379.7
5	Before		−330.4	−322.7	−280.7	−379.7
6	Before		311.7	322.7	379.7	280.7
7	Before		−322.7	−322.7	−280.7	−379.7
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1749	1781	2095	1549
1	Before		1913	1781	2095	1549
2	Before		1944	1781	2095	1549
3	Before		1876	1781	2095	1549
4	Before		1770	1781	2095	1549

5	Before		1812	1781	2095	1549
6	Before		−1719	−1781	−1549	−2095
7	Before		1781	1781	2095	1549
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1731	1781	2095	1549
1	Before		1898	1781	2095	1549
2	Before		1932	1781	2095	1549
3	Before		1869	1781	2095	1549
4	Before		1760	1781	2095	1549
5	Before		1804	1781	2095	1549
6	Before		−1695	−1781	−1549	−2095
7	Before		1781	1781	2095	1549
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68570	70000	82360	60900
1	Before		75520	70000	82360	60900
2	Before		77060	70000	82360	60900
3	Before		74690	70000	82360	60900
4	Before		70130	70000	82360	60900
5	Before		71800	70000	82360	60900
6	Before		−66420	−70000	−60900	−82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68380	70000	82360	60900
1	Before		75380	70000	82360	60900
2	Before		76900	70000	82360	60900
3	Before		74530	70000	82360	60900
4	Before		69960	70000	82360	60900
5	Before		71630	70000	82360	60900
6	Before		−66300	−70000	−60900	−82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68530	70000	82360	60900
1	Before		75670	70000	82360	60900
2	Before		77170	70000	82360	60900
3	Before		74750	70000	82360	60900
4	Before		70110	70000	82360	60900
5	Before		71760	70000	82360	60900
6	Before		−66600	−70000	−60900	−82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VTP

Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68100	−70000	−60900	−82360
1	Before		−75370	−70000	−60900	−82360
2	Before		−76950	−70000	−60900	−82360
3	Before		−74650	−70000	−60900	−82360
4	Before		−70110	−70000	−60900	−82360
5	Before		−71770	−70000	−60900	−82360
6	Before		66260	70000	82360	60900
7	Before		−70000	−70000	−60900	−82360
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−67680	−70000	−60900	−82360
1	Before		−75750	−70000	−60900	−82360
2	Before		−76880	−70000	−60900	−82360
3	Before		−74400	−70000	−60900	−82360
4	Before		−70870	−70000	−60900	−82360
5	Before		−72260	−70000	−60900	−82360
6	Before		66590	70000	82360	60900
7	Before		−70000	−70000	−60900	−82360
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.9	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4

6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High Resolution Laterolog Array − B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−320.1	−322.7	−280.7	−379.7
1	Before		−343.3	−322.7	−280.7	−379.7
2	Before		−348.2	−322.7	−280.7	−379.7
3	Before		−334.2	−322.7	−280.7	−379.7
4	Before		−311.8	−322.7	−280.7	−379.7
5	Before		−334.3	−322.7	−280.7	−379.7
6	Before		320.0	322.7	379.7	280.7
7	Before		−322.7	−322.7	−280.7	−379.7
		(Minimum) (Nominal) (Maximum)				

Before: 5−May−2008 10:46

High resolution Integrated Logging Tool−DTS / Equipment Identification

Primary Equipment:		
HILT high−Resolution Mechanical Sonde	HRMS − B	788
HILT Rxo Gamma−ray Device	HRGD − BC	1806
HILT Micro Cylindrically Focused Log Dev	MCFL −	
GR Logging Source	GLS − J	5334
HILT High Res. Control Cartridge	HRCC − B	868
HILT Gamma−Ray Neutron Sonde−DTS	HGNS − B	856
HGNS Gamma−Ray Device	HGR −	
HGNS Neutron Detector with Alpha Source	HCNT −	
Auxiliary Equipment:		
Neutron Calibration Tank	NCT − B	
Gamma Source Radioactive	GSR − J	6750
HGNS Housing	HGNH − H	3915

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Stab Measurement Summary

Phase	BS Window Ratio	Value	Phase	SS Window Ratio	Value	Phase	LS Window Ratio	Value
Before		0.7656	Before		0.4901	Before		0.2976
	0.7276 (Minimum) 0.7659 (Nominal) 0.8042 (Maximum)			0.4650 (Minimum) 0.4894 (Nominal) 0.5139 (Maximum)			0.2871 (Minimum) 0.3022 (Nominal) 0.3173 (Maximum)	
Phase	BS Window Sum CPS	Value	Phase	SS Window Sum CPS	Value	Phase	LS Window Sum CPS	Value
Before		10540	Before		10290	Before		1152
	10040 (Minimum) 10570 (Nominal) 11090 (Maximum)			9808 (Minimum) 10320 (Nominal) 10840 (Maximum)			1103 (Minimum) 1161 (Nominal) 1219 (Maximum)	

Before: 3−May−2008 4:06

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Photo−multiplier High Voltages Calibrations

Phase	BS PM High Voltage (Command) V	Value	Phase	SS PM High Voltage (Command) V	Value	Phase	LS PM High Voltage (Command) V	Value
Before		1249	Before		1932	Before		1406
	1134 (Minimum) 1234 (Nominal) 1334 (Maximum)			1826 (Minimum) 1926 (Nominal) 2026 (Maximum)			1302 (Minimum) 1402 (Nominal) 1502 (Maximum)	

Before: 3−May−2008 4:06

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %	Value	Phase	SS Crystal Resolution %	Value	Phase	LS Crystal Resolution %	Value
Before		9.751	Before		10.76	Before		9.342

8.798 (Minimum)	9.798 (Nominal)	10.80 (Maximum)	9.644 (Minimum)	10.64 (Nominal)	11.64 (Maximum)	8.358 (Minimum)	9.358 (Nominal)	10.36 (Maximum)

Before: 3−May−2008 4:06

High resolution Integrated Logging Tool−DTS Wellsite Calibration

MCFL Calibration

Phase	Raw B0 Resistivity OHMM	Value	Phase	Raw B1 Resistivity OHMM	Value	Phase	Raw B2 Resistivity OHMM	Value
Before		4140	Before		4129	Before		3987
3565 (Minimum)	3875 (Nominal)	4185 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	3524 (Minimum)	3830 (Nominal)	4136 (Maximum)

Before: 3−May−2008 3:59

High resolution Integrated Logging Tool−DTS Wellsite Calibration

HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement IN	Value	Phase	HILT Caliper Plus Measurement IN	Value
Before		8.099	Before		12.26
6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)	9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)

Before: 3−May−2008 4:02

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig − Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		6.524	Before		172.9	Before		165.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	157.2 (Minimum)	172.9 (Nominal)	188.6 (Maximum)	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 3−May−2008 3:57

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		29.71	Master		33.75
Before		**27.25**	**Before**		**29.34**
5.000 (Minimum)	29.71 (Nominal)	40.00 (Maximum)	5.000 (Minimum)	33.75 (Nominal)	40.00 (Maximum)

Master: 20−Feb−2008 23:21 Before: 3−May−2008 4:01

High resolution Integrated Logging Tool−DTS Wellsite Calibration

Ratio Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5605	Master		2340	Master		2.395
4700 (Minimum)	5800 (Nominal)	6900 (Maximum)	1900 (Minimum)	2400 (Nominal)	2900 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 20−Feb−2008 23:21

High resolution Integrated Logging Tool−DTS
Wellsite Calibration

Accelerometer Calibration

Phase	Z−Axis Acceleration M/S2	Value
Before		9.798
9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)

Before: 5−May−2008 7:56

High resolution Integrated Logging Tool−DTS Master Calibration

Inversion results

Phase	Rho Aluminum G/C3	Value	Phase	Rho Magnesium G/C3	Value
Master		2.595	Master		1.689
2.586 (Minimum)	2.596 (Nominal)	2.606 (Maximum)	1.676 (Minimum)	1.686 (Nominal)	1.696 (Maximum)
Phase	Pe Aluminum	Value	Phase	Pe Magnesium	Value
Master		2.542	Master		2.638
2.470 (Minimum)	2.570 (Nominal)	2.670 (Maximum)	2.550 (Minimum)	2.650 (Nominal)	2.750 (Maximum)

Master: 16−Apr−2008 0:33

High resolution Integrated Logging Tool−DTS Master Calibration

Deviation Summary

Phase	BS Average Deviation %	Value
Master		0.5027
	−0.6000 (Minimum) 0 (Nominal) 0.6000 (Maximum)	

Phase	SS Average Deviation %	Value
Master		0.6460
	−1.000 (Minimum) 0 (Nominal) 1.000 (Maximum)	

Phase	LS Average Deviation %	Value
Master		0.6624
	−1.500 (Minimum) 0 (Nominal) 1.500 (Maximum)	

Phase	BS Max Deviation %	Value
Master		1.236
	−1.600 (Minimum) 0 (Nominal) 1.600 (Maximum)	

Phase	SS Max Deviation %	Value
Master		1.302
	−2.500 (Minimum) 0 (Nominal) 2.500 (Maximum)	

Phase	LS Max Deviation %	Value
Master		1.762
	−3.500 (Minimum) 0 (Nominal) 3.500 (Maximum)	

Master: 16−Apr−2008 0:33

High resolution Integrated Logging Tool−DTS Master Calibration

Zero Measurement

Phase	CNTC Background CPS	Value
Master		29.71
	5.000 (Minimum) 29.71 (Nominal) 40.00 (Maximum)	

Phase	CFTC Background CPS	Value
Master		33.75
	5.000 (Minimum) 33.75 (Nominal) 40.00 (Maximum)	

Master: 20−Feb−2008 23:21

High resolution Integrated Logging Tool−DTS Master Calibration

Tank Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value
Master		5605
	4700 (Minimum) 5800 (Nominal) 6900 (Maximum)	

Phase	Thermal Far Corr. (Tank) CPS	Value
Master		2340
	1900 (Minimum) 2400 (Nominal) 2900 (Maximum)	

Phase	CNTC/CFTC (Tank)	Value
Master		2.395
	2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 20−Feb−2008 23:21

DTS Telemetry Tool / Equipment Identification

Primary Equipment:		
DTC−H Auxiliary Cartridge	DTCH − A	8944
DTC−H Telemetry Cartridge	DTCH − A	
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH − KC	10020

Schlumberger

Inclination Data

MAXIS Field Log

WFTI INCLINOMETRY LIST

Meas. Tie Depth : 1094.4 M True Vert. Tie Depth: 1014.8 M

Measured Depth (M)	Deviation (DEG)	Azimuth (DEG)	True Vertical Depth (M)
1094.4	0.00	0.00	1014.8
1094.4	0.00	0.00	1014.8
1094.4	27.04	62.76	1014.9
1143.3	25.87	63.90	1058.6
1155.2	25.58	63.60	1069.4
1184.9	25.36	62.41	1096.2
1214.5	26.03	61.94	1122.8
1244.4	26.97	60.72	1149.6
1273.7	27.88	59.68	1175.6
1303.2	28.27	60.45	1201.6
1333.1	28.34	61.52	1227.9
1362.3	28.20	62.55	1253.7
1392.5	27.26	63.55	1280.4
1421.7	25.27	66.35	1306.6
1451.6	22.70	68.06	1333.9
1481.4	20.36	68.27	1361.6
1511.2	17.26	67.69	1389.9
1540.8	13.04	64.12	1418.4
1570.5	10.60	59.53	1447.4
1600.2	8.72	58.21	1476.7
1629.9	8.74	68.10	1506.1
1659.0	8.55	72.75	1534.8
1688.3	8.90	69.00	1563.9
1718.0	8.56	61.35	1593.1
1747.5	8.59	54.77	1622.3
1777.4	8.68	54.87	1651.9
1789.3	8.75	55.97	1663.7
1810.0	8.75	55.97	1684.1

Company: **3D Oil Limited**

Schlumberger

Well: **West Seahorse 3**
Field: **West Seahorse**
Rig: **West Triton**
Country: **Australia**

BHC−HRLA−PEX−G
Sonic−Resistivity−Density−Neutron−G
Suite 1 Run 1 − Scale 1:500 (MD)