

From : Peter Devine / Nathan Peri
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	1875.0m	Current Hole Size	311mm	AFE Cost	\$19,265,000
Field		TVD	1748.3m	Casing OD	340mm	AFE No.	5738085
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	642.2m	Daily Cost	\$821,602
Rig	Ocean Patriot	Days from spud	16.71	Shoe TVD	642.2m	Cum Cost	\$18,109,754
Water Depth (LAT)	65.4m	Days on well	17.48	F.I.T. / L.O.T.	/ 2.12sg	Planned TD	2503.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued running cement mule shoe at 1310m.				
RT-ML	86.9m	Planned Op	Set P&A cement plugs and a kick off plug. POH and make up the 311mm (12-1/4") Kick Off BHA, run and tag cement plug.				
Rig Heading	215.0deg						

Summary of Period 0000 to 2400 Hrs

Continued taking pressure probe tests in the reservoir. wiped the hole to bottom, circulated a Hi-Vis pill to balance on bottom. POH and laid out BHA.

Formations

Name	Top (MD)	Top (TVD)	Comment
K85 Unconformity	1783.0m	1673.6m	38.6m low
Waarre A	1792.0m	1683.1m	48.1m low
Eumeralla Formation	1820.0m	1705.2m	43.2m low
Total Depth	1875.0m	1748.0m	Drilled an extra 5m of rathole on 30th Jul 08 to accomodate FEWD.

Operations For Period 0000 Hrs to 2400 Hrs on 31 Jul 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
EP	TP (HC)	LDPC	0000	0100	1.00	1875.0m	Logged from 1845m to 1835m to obtain correlation data. Logging speed 20m/hr with 3028 L/min (800gpm). Ran down to 1845m, shutdown pumps and rotary and conduct Stick test for 15min with BHA.
EP	TP (HC)	LDPC	0100	0200	1.00	1875.0m	Ran back to bottom at 1875m, logged up with Sonic to 1828m.
EP	TP (HC)	LDPC	0200	0230	0.50	1875.0m	Shutdown pumps and rotary, took Stethoscope 15minute probe test #1 at 1825.5m (probe depth). Failed test.
EP	TP (HC)	LDPC	0230	0330	1.00	1875.0m	Washed and reamed stand while trouble shooting tools.
EP	TP (HC)	LDPC	0330	0430	1.00	1875.0m	Downlinked tools. Set Stethoscope tools to recording in memory. Pulled back to 1825.5m (probe depth). Downlinked tools to open probe and take #1 test again. Waited 15 minutes, good test. Closed probe and pulled to next depth at 1819.5m (probe depth).
EP	TP (HC)	LDPC	0430	0500	0.50	1875.0m	Downlinked tools, attempted to record the #2 test in real time. Good test. Downlinked to retract the probe.
EP	TP (HC)	LDPC	0500	0600	1.00	1875.0m	Pulled to next depth #3 at 1817.0m (probe depth), set and tested with probe, failed real time test #3. Retracted probe and worked pipe to rotate toolface 90°. Set pipe on probe test #3 depth 1817.0m, attempted sample test again.
EP	TP (HC)	LDPC	0600	1400	8.00	1875.0m	Continued Stethoscope testing. Had hydraulic problems with the tools on several sample points. A total of 17 tests were attempted with four positive results and one result on memory. Probe sample depths tested (m): 1825.5, 1819.5, 1816.75, 1813.85, 1806.25, 1801.9, 1797.8m Positive tests at: 1797.8, 1801.9, 1809.5, 1819.5m Average mud losses over this period 318 L/hr (2 bbl/hr).
EP	TP (HC)	CMD	1400	1515	1.25	1875.0m	Washed and reamed back to bottom at 1875m. Circulated to balance a 16 m³ (100bbl) Hi-Vis pill on bottom.
EP	TP (HC)	FC	1515	1530	0.25	1875.0m	Flow checked. Static.
EP	TP (HC)	TO	1530	2030	5.00	1875.0m	POH, slick hole back to the shoe at 642m.
EP	TP (HC)	FC	2030	2045	0.25	1875.0m	Performed trip drill. Flow checked. Static.
EP	TP (HC)	TO	2045	2130	0.75	1875.0m	Continued POH to the BHA at 213m.
EP	TP (HC)	HBHA	2130	2400	2.50	1875.0m	Pulled and laid out BHA. Held JSA, removed radio active sources. Laid out FEWD.

Operations For Period 0000 Hrs to 0600 Hrs on 01 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	TI	0000	0130	1.50	1875.0m	Picked up centralized 127mm (5") Cement Mule shoe. RIH on drill pipe to the casing shoe at 642m.
PH	P	SC	0130	0400	2.50	1875.0m	Slipped and cut 33m of drill line.
PH	P	RS	0400	0430	0.50	1875.0m	Functioned crown-o-matic, serviced blocks and TDS.
PH	P	TI	0430	0600	1.50	1875.0m	Continued running the cement mule shoe from 1310m to bottom.

WBM Data **Cost Today \$ 2500**

Mud Type:	KGLY	API FL:	4cm³/30m	KCl:	8%	Solids:	10.75	Viscosity:	0sec/L
Sample-From:	FL	Filter-Cake:	1mm	Hard/Ca:	880	H2O:	89%	PV:	0.021Pa/s
Time:	09:00	HTHP-FL:		MBT:	0.8	Oil:		YP:	0.182MPa
Weight:	1.32sg	HTHP-Cake:		PM:	0.1	Sand:	0.2	Gels 10s:	0.048
Temp:	57.0C°			PF:	0.04	pH:	8.5	Gels 10m:	0.096
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	35
								Fann 200:	48
								Fann 300:	59
								Fann 600:	80

Comment Treat active with Sodium Sulphite to maintain concentration in system. Mud weight and all other fluid system properties remaining stable while circulating. Build 100bbl 11.0ppg pumpable Hivis/ LCM pill (7.6ppb Omycarb20). Pump 100 bbl Hivis/ LCM Pill. Pump Slug. Transfer remaining slug volume to Pit 1. Discharge 8bbl from Slug Pit. Clean slug pit for cement spacer. Commence building cement spacer in Slug Pit, and weighting with Barite. 18bbl losses while tripping. Downhole losses +/2 bbl/hr while circulating and logging.

Bit # 5RR2				Wear	I	O1	D	L	B	G	O2	R
					1	1	NO	A	E	1	NO	LOG
Size:	311mm	IADC#	117	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	HUGHES	WOB(avg)	3.63mt	No.	Size	Progress		0.0m	Cum. Progress			5.0m
Type:	Rock	RPM(avg)	90	1	14/32nd"	On Bottom Hrs		0.00h	Cum. On Btm Hrs			1.10h
Serial No.:	5119202	F.Rate	3218lpm	3	20/32nd"	IADC Drill Hrs		0.00h	Cum IADC Drill Hrs			2.00h
Bit Model	MXL-1X	SPP	21374kPa			Total Revs		430	Cum Total Revs			860
Depth In	1870.0m	TFA	1.071			ROP(avg)		N/A	ROP(avg)			4.55 m/hr
Depth Out	1875.0m											

Bitwear Comment The cutting structures still look green with only a 5m rathole drilled. The gauge was 1/16" under caused by the three wiper trips with wash,reaming and back reaming required on all three runs.

BHA # 8

Weight(Wet)	22.68mt	Length	213.2m	Torque(max)	27200.0Nm	D.C. (1) Ann Velocity	73.78mpm
Wt Below Jar(Wet)	9.07mt	String	122.47mt	Torque(Off.Btm)	10880.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	129.27mt	Torque(On.Btm)	13600.0Nm	H.W.D.P. Ann Velocity	61.81mpm
		Slack-Off	111.13mt			D.P. Ann Velocity	50.77mpm

BHA Run Description LWD Logging BHA.

BHA Run Comment Good downlinks with the tools, however out of the 17 stethoscope tests taken only 5 were successful. No hole problems other than avg 25k overpull.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.33m	311mm		5119202	1 x 14, 3 x 20 nozzles
Bit Sub	0.90m	203mm	76mm	GUD1231-2	Float Installed
Saver Sub	0.36m	213mm	83mm	03137-3	
Stethoscope 825	9.58m	305mm	83mm	AF82	
Saver Sub	0.46m	210mm	83mm	41940	
Saver Sub	0.45m	216mm	108mm	MSSB-GC	
Telescope 825	7.56m	216mm	108mm	VA77	
Saver Sub	0.47m	216mm	108mm	ASQ8080	
Saver Sub	0.37m	216mm	108mm		
ARC-8	5.50m	232mm	108mm	2724	
Sonic ILS	0.87m	305mm	108mm	242280730	
Sonic	6.88m	234mm	108mm	34888	
Saver Sub	0.32m	210mm	108mm	MSSB-KC	
ADN w/Stab	6.36m	302mm	108mm	42730	
Pony Drill Collar	2.50m	232mm	108mm	2986	
Drill Collar	9.44m	203mm	73mm		
8in Jar	9.94m	210mm	76mm	989SE2	
Drill Collar	9.45m	207mm	73mm		
X/O	1.09m	203mm	67mm	GUD1231-6	
HWDP	140.40m	175mm	76mm		

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	-12.0	Santos	4
Gel	MT	0	0	0	53.0	Santos	2
Cement	MT	0	0	0	140.0	DOGC	45
Fuel	M3	0	15.3	0	544.3	ESS	8
Potable Water	M3	35	29	0	360.0	BHI	5
Drill Water	M3	0	14	0	864.0	Dowell	2
						Rheochem	2
						TMT	3
						Anadrill	2
						Anadrill	2
						Schlumberger Wireline	9
						MI Swaco	1
						Schlumberger Testing	4
						Schlumberger Wireline	1
						Schlumberger Drilling & Measurements	2
						DOGC Service	7
						Total	99

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	130.90/130.90	As per cement data.
340mm	2.12 /	642.20/642.20	Class G lead slurry to surface. Class G tail TOC at ± 492m (150m).

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	27 Jul 2008	4 Days	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations 1 and 2 in 10 minutes.
Fire Drill	1	27 Jul 2008	4 Days	Simulated a fire on the stbd crane at 10:22. Fire under control at 10:30 (full lifeboat muster also completed).
First Aid	1	31 Jul 2008	0 Days	IP was bending down to pick up his shoes in his room when he hit his head on the desk. Very minor laceration under his left eye.
First Aid	1	31 Jul 2008	0 Days	IP was working on making up well test gear when the piece he was tightening slipped and caught his finger. Very minor laceration.
JHA	16	31 Jul 2008	0 Days	Drill crew - 5 Deck Crew - 8 Elect -3
Lost Time Incident	1	30 May 2008	62 Days	Man had his left hand caught between an 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Medical Treatment Incident	1	24 Jul 2008	7 Days	IP sustained a deep cut to his left leg. This was caused by his foot slipping off a timber support and hitting his shin. The IP will be flown out on crew chopper. Note: IP received 7 stitches and has been given clearance to return to work. Resumed duties 25th Jul 08.
Pre-Tour Meeting	4	31 Jul 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	13	31 Jul 2008	0 Days	8 x hot work permits 5 x cold work permits
Rig Inspection	1	02 Jul 2008	29 Days	Conducted hazard hunt checking for flammable liquids in containers secured properly and in correct place with signage.
Safety Audit	1	30 Jul 2008	1 Day	EHSMS audit conducted onboard.
Safety Meeting	3	27 Jul 2008	4 Days	Reviewed stop cards for the week and awarded Santos best stop card to Tim Stone. Discussed fire and abandonment drill and muster times. Reviewed open water Rescue techniques.
Santos Induction	2	31 Jul 2008	0 Days	Completed Santos induction with new personnel to site.
Stop Observations	63	31 Jul 2008	0 Days	39 - Safe 24- Corrective Actions
STOP Tour	1	31 Jul 2008	0 Days	Diamond supervisor audits.
Trip/Pit Drill	1	31 Jul 2008	0 Days	Sounded the alarm on the drill floor for a kick drill. Crew reacted and had the FOSV in place within 35 seconds.

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Fius Siregar			
Available	412.8m ³	Losses	11.2m ³	Equip.	Descr.	Mesh Size	Hours
Active	93.3m ³	Downhole	6.4m ³	Centrifuge 1	MI SW FVS 518		0
Mixing	0.0m ³	Surf+ Equip	3.5m ³	Centrifuge 1	MI SW FVS 518		0
Hole	154.5m ³	Dumped	1.3m ³	Centrifuge 2	MI SW FVS 518		4
Slug		De-Sander		Centrifuge 2	MI SW FVS 518		0
Reserve	113.5m ³	De-Silter		Shaker 3	Bem 650 - MI SW	10/20/230/230/230/230	11
Kill		Centrifuge	0.0m ³	Shaker 3	Bem 650 - MI SW	10/20/230/230/230/230	16
Brine	51.5m ³			Shaker 4	Bem 650 - MI SW	10/20/230/230/230/230	11
				Shaker 4	Bem 650 - MI SW	10/20/230/230/230/230	16
				Shaker 5	Bem 650 - MI SW	10/20/230/230/230/230	11
				Shaker 5	Bem 650 - MI SW	10/20/230/230/230/230	16
				Shaker 6	Bem 650 - MI SW	10/20/230/230/230/230	11
				Shaker 6	Bem 650 - MI SW	10/20/230/230/230/230	16
Comment	#2 Centrifuge repaired and back in the system.						

Marine								Rig Support		
Weather check on 31 Jul 2008 at 24:00										
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
22.2km	44km/h	23.0deg	1005.00bar	12.0C°	0.6m	23.0deg	3sec	1	1382.9	93.89
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.4deg	0.4deg	0.70m	2.0m	23.0deg	12sec					
Rig Dir.	Ris. Tension	VDL	Comments							
215.0deg	124.74mt	1066.85mt								
								2	1382.9	94.80
								3	1399.9	125.19
								4	1376.8	99.79
								5	1410.9	135.17
								6	1421.0	135.17
								7	1410.9	120.20
								8	1414.0	115.21

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		22:00 30 Jul 08	Transit to Portland Note: Mud volume is for the 8-1/2" section.	Item	Unit	Quantity
				Fuel	m3	515
				Potable Water	m3	152
				Drill Water	m3	450
				Cement	mt	43.5
				Barite	mt	84
				Gel	mt	59
				KCl Brine	m3	140
				NaCl Brine	m3	185
				Mud	m3	250
Nor Captain	22:00 30 Jul 08		On location.	Item	Unit	Quantity
				Fuel	m3	507.5
				Potable Water	m3	359
				Drill Water	m3	193
				Cement	mt	38
				Barite	mt	84
				Gel	mt	42
				KCl Brine	m3	0
				Mud	m3	0

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
GYJ	11:08	Ocean Patriot		9	
GYJ	11:22	Essendon		10	