

From : Peter Devine/ Rohan Richardson
OIM : Dennis Gore

Well Data

Country	Australia	Measured Depth	2042.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1757.0m	Casing OD	340mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	138.0m	Shoe MD	652.0m	Daily Cost	\$876,798
Rig	Ocean Patriot	Days from spud	18.87	Shoe TVD	652.0m	Cum Cost	\$22,323,867
Water Depth (LAT)	66.3m	Days on well	19.58	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to POOH from 1350 m.				
RT-ML	87.8m	Planned Op	POOH and lay out LWD/MWD BHA. Make up mule shoe and 89 mm (3 1/2") cement stinger. RIH to TD on DP and set cement abandonment plugs and kick off plug.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

Drilled 311 mm (12.25") hole from 1904 m to TD at 2042 m. Circulated hole clean, flow checked well and back reamed to 1745 m.

Formations

Name	Top (MD)	Top (TVD)	Comment
K85 Unconformity	1956.0m	1714.0m	35.7 m Low
Waarre A	1956.0m	1714.0m	35.7 m Low
Eumeralla Formation	2003.0m	1738.0m	33.8 m Low
Total Depth	2042.0m	1757.0m	

Operations For Period 0000 Hrs to 2400 Hrs on 12 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DA	0000	0630	6.50	1956.0m	Continued to drill from 1904 m to 1956 m MD (1717 m TVD). Reamed and surveyed connections. Parameters: ROP 8 m/hr, WOB 18 - 22.7 t (40-50 klbs), 100-150 RPM, Tq 6.8 - 27 kNm (5 - 20 kftlbs), SPP 25.6 MPa (3750 psi), flow rate 3610 L/min (950 gpm).
PH	P	DA	0630	1315	6.75	2003.0m	Drilled from 1956 m to 2003 m MD (1738 m TVD). Maximum gas level 450 - 720 units. Simultaneous Operations: 4 m3/hr (25 bbls/hr) dynamic losses observed, mixed and circulated hole with 7.15 m3 (45 bbls) of LCM while drilling.
PH	P	DA	1315	1800	4.75	2042.0m	Drilled from 2003 m to TD at 2042 m MD (1757 m TVD). Parameters: ROP 5.5 m/hr, WOB 18 - 22.7 t (40-50 klbs), 100-150 RPM, Tq 6.8 - 27 kNm (5 - 20 kftlbs), SPP 25.6 MPa (3750 psi), flow rate 3610 L/min (950 gpm).
PH	P	CHC	1800	2030	2.50	2042.0m	Circulated hole clean with 3610 L/min (950 gpm).
PH	P	FC	2030	2045	0.25	2042.0m	Flow checked well, ok.
PH	P	TO	2045	2100	0.25	2042.0m	POOH from 2042 m to 1920 m, max over pull 4.4-8.9 t (10 - 20 klbs).
PH	P	RW	2100	2400	3.00	2042.0m	Over pull increased to 31 t (70 klbs). Made up TDS and broke circulation. Attempted to POOH unsuccessful, hole started to pack off. Commenced back reaming from 1920 m to 1745 m with 3610 L/min (950 gpm) and 150 RPM. High quantity of returns observed at shakers after bottoms up, 50% cuttings / 50% filter cake. Hole continued to pack off, worked pipe to free.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	RW	0000	0600	6.00	2042.0m	(IN PROGRESS) Continued to back ream out of hole from 1745 m to 980 m with 3217 L/min (850 gpm), 140 - 160 RPM, 6.8 - 39.3 kNm (5 - 29 kftlbs) torque.

WBM Data

Cost Today \$ 25071

Mud Type:	KCL/GLY	API FL:	4cm³/30m	KCl:	8%	Solids:	9.96	Viscosity:	0sec/L
Sample-From:	Flowline	Filter-Cake:		Hard/Ca:	480	H2O:	90%	PV:	0.027Pa/s
Time:	21:30	HTHP-FL:		MBT:	8.5	Oil:		YP:	0.302MPa
Weight:	1.32sg	HTHP-Cake:	0mm	PM:	0.1	Sand:	0.5	Gels 10s:	0.072
Temp:				PF:	0.01	pH:	8.5	Gels 10m:	0.158
						PHPA:	1ppb	Fann 003:	12
								Fann 006:	14
								Fann 100:	50
								Fann 200:	69
								Fann 300:	90
								Fann 600:	117

Comment Continued to add drill water at 2 bbls/min to active. Treated active with 0.25 ppb Flowzan to maintain 6 rpm reading. Continued to add drillpol and JK-261 direct to the active to maintain PHPA concentration. Treated active with citric acid to reduce PH.

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#	117	Nozzles			Drilled over last 24 hrs			Calculated over Bit Run		
Mfr:	Hughes Christensen	WOB(avg)	20.87mt	No.	Size	Progress	138.0m	Cum. Progress		482.0m		
Type:	Rock	RPM(avg)	138	1	14/32nd"	On Bottom Hrs	15.00h	Cum. On Btm Hrs		43.32h		
Serial No.:	5146318	F.Rate	3532lpm	3	20/32nd"	IADC Drill Hrs	18.00h	Cum IADC Drill Hrs		51.25h		
Bit Model	MXL-1X	SPP	24690kPa	Total Revs			Cum Total Revs		222800			
Depth In	1560.0m	TFA	1.071	ROP(avg)			9.20 m/hr		ROP(avg)		11.13 m/hr	
Depth Out												

BHA # 5						
Weight(Wet)	19.05mt	Length	216.5m	Torque(max)	D.C. (1) Ann Velocity	80.99mpm
Wt Below Jar(Wet)	18.14mt	String		Torque(Off.Btm)	D.C. (2) Ann Velocity	0mpm
		Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity	67.85mpm
		Slack-Off			D.P. Ann Velocity	55.73mpm

BHA Run Description Directional / FEWD

BHA Run Comment 6" Jar hours: 60.0

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.33m	311mm		5146318	
Powerdrive 900	8.62m	308mm	127mm	16	Blank float installed. Xceed survey = 5.10m from the bit.
ARC-8	5.90m	231mm	76mm	1871	Resistivity & Gama = 11.36m from the bit.
In-Line Stabiliser	0.83m	291mm	111mm	ASQ8062	
Telescope HF	8.15m	213mm	76mm	E0005	Powerpulse survey = 19.25m from the bit.
In-Line Stabiliser	0.83m	308mm	111mm	ASQ8-61	
Sonic	7.21m	231mm	83mm	FE75	Sonic = 28.89m
ADN	6.57m	226mm	213mm	43150	Density = 35.06m. Neutron is 36.04m from the bit.
NMDC	8.55m	213mm	71mm	N688	
X/O	1.09m	203mm	67mm	GUD123-1	
HWDP	121.38m	175mm	76mm		
6.375in Jars	9.73m	162mm	70mm	DAH01628	
HWDP	37.30m				

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1924.23	60.1	119.0	1698.73	582.47	0.86	-282.97	509.11	MWD
1952.67	60.1	119.5	1712.92	607.11	0.48	-295.00	530.62	MWD
1980.36	60.0	119.2	1726.75	631.10	0.24	-306.75	551.53	MWD
2007.97	60.1	118.2	1740.55	655.02	0.96	-318.25	572.51	MWD
2022.07	60.3	118.7	1747.56	667.25	0.97	-324.07	583.26	MWD
2042.00	60.4	118.4	1757.43	684.56	0.38	-332.35	598.47	MWD

Bulk Stocks							
Name	Unit	In	Used	Adjust	Balance	Comment	
Barite	mT	82	30	0	137.0		
Gel	mT	0	0	0	33.0		
Cement	mT	0	0	0	63.0		
Fuel	m3	0	23.7	0	497.5		
Potable Water	m3	30	27	0	360.0		
Drill Water	m3	0	114	0	602.0		

Personnel On Board		
Company	Comment	Pax
Santos		4
DOGC		52
ESS		8
BHI		6
Dowell		2
Rheochem		2
MI Swaco		1
TMT		6
Cameron		2
Schlumberger Drilling & Measurements	MWD / LWD	3
Santos	Geologist	2
Schlumberger Drilling & Measurements	Directional	3
Premium Casing Services		6
Total		97

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	131.70/131.70	Slurry: 30.8m ³ (194bbl x 916sxs) of 1.9sg (15.8ppg) class G
340mm	2.20 /	652.00/652.00	Lead: 41m ³ (256bbl x 532sx) of 1.5sg (12.5ppg) class G slurry. Tail: 17.8m ³ (112bbl x 644sx) 150m of 1.9sg (15.8ppg) class G slurry.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	31 Aug 2008	12 Days	Abandon drill completed after the simulated fire was under control. Completed full muster at the forward lifeboats at 10:48hrs.
Environmental Audit	1	03 Sep 2008	9 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	07 Sep 2008	5 Days	Simulated a fire in the subsea shop. Emergency alarm sounded at 10:28hrs, emergency under control at 10:39hrs. Full muster complete at 10:38hrs
First Aid	1	06 Sep 2008	6 Days	IP was needle gunning when his right hand slipped off the gun and the right index finger went under the needles of the gun causing a 3cm laceration. The finger was treated and the IP resumed full duties.
JHA	23	12 Sep 2008	0 Days	Drill crew - 3 Deck Crew - 12 Welder - 2 Mech - 3 Elect - 3
Lost Time Incident	1	30 May 2008	105 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	13 Aug 2008	30 Days	During lifting operations of 3rd party tooling on the pipe deck, IP was assisting the dogman in attaching slings to the whip-line hook. During this process the hook swung and hit the IP in the side of the hardhat resulting in an injury to the IP's neck. The IP was immobilised as a precautionary measure, treated as per symptoms and in readiness for medivac to hospital for further assessment.
Pre-Tour Meeting	4	12 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	12	12 Sep 2008	0 Days	10 x hot work permits 2 x cold work permits
Safety Audit	1	30 Jul 2008	44 Days	EHSMS audit conducted onboard.
Safety Meeting	3	07 Sep 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Brendan Haywood. Discussed the fire drill in the subsea shop. Reviewed fire fighting equipment and where to find them on the rig.
Santos Induction	1	12 Sep 2008	0 Days	Conducted Santos induction to new personnel to site after DODI induction.
Stop Observations	80	12 Sep 2008	0 Days	47 - Safe 33- Corrective Actions
STOP Tour	3	11 Sep 2008	1 Day	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Fius Siregar			
Available	377.2m ³	Losses	32.0m ³	Equip.	Descr.	Mesh Size	Hours
Active	88.4m ³	Downhole	5.6m ³	Centrifuge 1	MI SW FVS 518		22
Mixing		Surf+ Equip	17.8m ³	Centrifuge 1	MI SW FVS 518		10
Hole	159.0m ³	Dumped	0.0m ³	Centrifuge 2	MI SW FVS 518		
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	63.0m ³	De-Silter		Shaker 3	MI SW - BEM 650	10/20/200/200/200/200	11
Kill	0.0m ³	Centrifuge	8.6m ³	Shaker 3	MI SW - BEM 650	10/20 230/240 x 4	0
Storage	66.8m ³			Shaker 4	MI SW - BEM 650	10/20/200/200/200/200	13
				Shaker 4	MI SW - BEM 650	40/30 270/230 x 4	24
				Shaker 5	MI SW - BEM 650	10/20/200/200/200/200	17
				Shaker 5	MI SW - BEM 650	10/20 230/240 x 4	0
				Shaker 6	MI SW - BEM 650	10/20/200/200/200/200	7
				Shaker 6	MI SW - BEM 650	40/30 270/230 x 4	24

Marine										
Weather check on 12 Sep 2008 at 24:00								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
9.3km	56km/h	300.0deg	1000.00bar	15.0C°	1.0m	300.0deg	3sec	1	1353.0	120.20
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1372.8	120.20
0.3deg	0.3deg	0.80m	2.0m	270.0deg	12sec			3	1386.8	127.01
Rig Dir.	Ris. Tension	VDL	Comments					4	1414.0	127.91
217.0deg	122.47mt	984.30mt						5	1365.8	132.00
								6	1389.9	130.18
								7	1393.9	127.91
								8	1389.9	127.01

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	17:55 hrs 11/09/08		On location Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	500
				Potable Water	m3	360
				Drill Water	m3	560
				Gel	mt	59
				Cement	mt	45.5
				Barite	mt	0
				KCl Brine	m3	9
				NaCl Brine	m3	0
					m3	117
	m3					
Nor Captain		17:30 hrs 13/09/08	Released to Portland	Item	Unit	Quantity
				Fuel	m3	232
				Potable Water	m3	190
				Drill Water	m3	406
				Gel	mt	0
				Cement	mt	0
				Barite	mt	0
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	12

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BYV	11:16	Ocean Patriot		10
BYV	11:28	Essendon		3