

From : Peter Devine / Nathan Peri
OIM : Dennis Gore

Well Data

Country	Australia	Measured Depth	1685.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1564.0m	Casing OD	340mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	125.0m	Shoe MD	652.0m	Daily Cost	\$867,772
Rig	Ocean Patriot	Days from spud	16.87	Shoe TVD	652.0m	Cum Cost	\$20,559,483
Water Depth (LAT)	66.3m	Days on well	17.58	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Continue drilling ahead from 1747 mRT (1606 mTVD).					
RT-ML	87.8m	Planned Op Drill to total depth ~1977 mRT.					
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

Picked up new bit and RIH to 918m. Washed and reamed from 918m to bottom 1560m.
Drilled ahead from 1560m to 1685 mRT.

Formations

Name	Top (MD)	Top (TVD)	Comment
Massacre Shale	1207.0m	1189.1m	33.3m Low
Timboon Fm	1222.0m	1202.2m	36.4m Low
Paarratte Fm	1443.0m	1382.3m	28.5m Low
Skull Creek Mudstone	1682.0m	1564.0m	19.7m Low

Operations For Period 0000 Hrs to 2400 Hrs on 10 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	TP (CWR)	TI	0000	0130	1.50	1560.0m	Continued making up the 311mm (12.25") rock bit and FEWD tools. Ran tools down to 80m.
PH	TP (CWR)	TI	0130	0200	0.50	1560.0m	Made up TDS, lowered assembly down and observed the bit tag and drop through the XT Bore protector. Continued down and observed the bit tag up at 93 mRT. Rotated the string 1/2 turn, unable to pass. Picked up 5m, rotated and pumped at 10rpm 1500 L/min (400gpm), lowered down past 93m. Observed both Exceed stabilizers tag and drop through. Picked back up and observed the upper stabilizer tag at 93mRT. Made two passing runs through the wellhead while pumping and rotating OK.
PH	TP (CWR)	TI	0200	0230	0.50	1560.0m	Lowered the bit down to 105m. Conducted shallow pulse test for FEWD tools. POH to surface.
PH	TP (CWR)	TI	0230	0300	0.50	1560.0m	Installed the radioactive source. Picked up the remaining BHA and RIH to 90m.
PH	P	HBHA	0300	0330	0.50	1560.0m	Made up TDS, rotated and pumped at 10rpm 1500 L/min (400gpm). Lowered the bit down until it tagged, worked the bit until it passed through. No tag observed with the stabilizers. Continued to RIH to 105m. Shallow pulse tested FEWD tools.
PH	P	HBHA	0330	0500	1.50	1560.0m	Continued to RIH BHA to 214m.
PH	P	TI	0500	0630	1.50	1560.0m	Continued to run 311mm (12.25") BHA on 127mm (5") drill pipe from 214m to 652m (casing shoe).
PH	P	RS	0630	0700	0.50	1560.0m	Serviced the TDS and blocks.
PH	P	TI	0700	0800	1.00	1560.0m	Continued RIH from 652m to 918 mRT.
PH	P	RW	0800	1430	6.50	1560.0m	Washed and reamed from 918m to 1560 mRT Pumped 630gpm at 10.5 MPa (1500psi), 100rpm. Note: Increased mud weight from 1.22 to 1.32sg (10.2ppg to 11ppg) while reaming to bottom.
PH	P	SCR	1430	1445	0.25	1560.0m	Conduct SCR's.
PH	P	DA	1445	2400	9.25	1685.0m	Drilled ahead 311mm (12.25") hole from 1560m to 1685m RT (1564mTVD). Surveyed and reamed on connections. Parameters: ROP 13 m/hr, WOB 13.6-22.7 t (30-50klbs), 100-150 RPM, Tq 6.8-27 kNm (5-20 kftlbs), SPP 25.5 MPa (3700psi), flow rate 3610 L/min (950gpm).

Operations For Period 0000 Hrs to 0600 Hrs on 11 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DA	0000	0600	6.00	1747.0m	Drilled ahead 311mm (12.25") hole from 1685m to 1747m RT (1606mTVD). Surveyed and reamed on connections. Parameters: ROP 10 m/hr, WOB 18-22.7 t (40-50klbs), 100-150 RPM, Tq 6.8-27 kNm (5-20 kftlbs), SPP 25.5 MPa (3700psi), flow rate 3610 L/min (950gpm). Last Survey: 1720 mRT, 1587mTVD, 49.5° Incl, 115° Azim Note: Dumped and diluted 63.6m³ (400bbbls) to reduce LGS, Gels and MBT. Mud weight maintained at 1.32 sg (11.0ppg).

WBM Data				Cost Today \$ 48000					
Mud Type:	KCL/GLY	API FL:	4cm ³ /30m	KCl:	9%	Solids:	11.6	Viscosity:	0sec/L
Sample-From:	Flowline	Filter-Cake:		Hard/Ca:	440	H2O:	88%	PV:	0.034Pa/s
Time:	18:30	HTHP-FL:		MBT:	9	Oil:		YP:	0.278MPa
Weight:	1.32sg	HTHP-Cake:	1mm	PM:	0.1	Sand:	1.3	Gels 10s:	0.067
Temp:	47.0C°			PF:	0.1	pH:	8.5	Gels 10m:	0.139
						PHPA:	1ppb	Fann 003:	12
								Fann 006:	16
								Fann 100:	55
								Fann 200:	77
								Fann 300:	92
								Fann 600:	126

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)	15.88mt	No.	Size	Progress	125.0m	Cum. Progress	125.0m			
Type:	Rock	RPM(avg)	133	1	14/32nd"	On Bottom Hrs	7.30h	Cum. On Btm Hrs	7.30h			
Serial No.:	5146318	F.Rate	3543rpm	3	20/32nd"	IADC Drill Hrs	9.25h	Cum IADC Drill Hrs	9.25h			
Bit Model	MXL-1X	SPP	23532kPa			Total Revs	57800	Cum Total Revs	57800			
Depth In	1560.0m	TFA	1.071			ROP(avg)	17.12 m/hr	ROP(avg)	17.12 m/hr			
Depth Out												
Daily Comment	Washed and reamed from 918m to bottom 1560m after bit changed.											

BHA # 5							
Weight(Wet)	19.05mt	Length	216.5m	Torque(max)	21760.0Nm	D.C. (1) Ann Velocity	81.25mpm
Wt Below Jar(Wet)	18.14mt	String	104.33mt	Torque(Off.Btm)	14960.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	113.40mt	Torque(On.Btm)	8840.0Nm	H.W.D.P. Ann Velocity	68.07mpm
		Slack-Off	108.86mt			D.P. Ann Velocity	55.91mpm

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
1548.79	38.1	110.3	1462.89					MWD
1577.82	39.5	111.1	1485.52					MWD
1606.72	41.5	112.4	1507.50					MWD
1634.98	43.8	113.4	1528.30					MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	77	27	0	146.0	Adjusted bulk for missed value on 8th Sept.
Gel	mT	0	0	0	33.0	
Cement	mT	0	0	0	63.0	
Fuel	m3	200	11.2	0	540.6	
Potable Water	m3	30	27	0	345.0	
Drill Water	m3	225	56	0	752.0	

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		1
Total		92

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 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.
340mm	2.20 /	652.00/652.00	

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	31 Aug 2008	10 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	7 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	07 Sep 2008	3 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	4 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	32	10 Sep 2008	0 Days	Drill crew - 9 Deck Crew - 17 Welder - 1 Marine - 2 Mech - 2 Elect - 1
Lost Time Incident	1	30 May 2008	103 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	28 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	10 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	13	10 Sep 2008	0 Days	6 x hot work permits 7 x cold work permits
Safety Audit	1	30 Jul 2008	42 Days	EHSMS audit conducted onboard.
Safety Meeting	3	07 Sep 2008	3 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	0	10 Sep 2008	0 Days	Conducted Santos induction to new personnel to site after DODI induction.
Stop Observations	60	10 Sep 2008	0 Days	35 - Safe 25- Corrective Actions
STOP Tour	3	10 Sep 2008	0 Days	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Fius Siregar			
Available	403.1m ³	Losses	37.2m ³	Equip.	Descr.	Mesh Size	Hours
Active	52.8m ³	Downhole		Centrifuge 1	MI SW FVS 518		6
Mixing		Surf+ Equip	29.7m ³	Centrifuge 2	MI SW FVS 518		0
Hole	137.4m ³	Dumped		Shaker 3	MI SW - BEM 650	10/20/200/200/200/200	24
Slug		De-Sander		Shaker 4	MI SW - BEM 650	10/20/200/200/200/200	24
Reserve	103.2m ³	De-Silter		Shaker 5	MI SW - BEM 650	10/20/200/200/200/200	24
Kill	0.0m ³	Centrifuge	7.5m ³	Shaker 6	MI SW - BEM 650	10/20/200/200/200/200	24
Brine	109.7m ³						

Marine										
Weather check on 10 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)
18.5km	30km/h	15.0deg	1016.00bar	11.0C°	0.5m	15.0deg	4sec	1	1353.0	121.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1372.8	125.19
0.3deg	0.3deg	0.80m	1.5m	220.0deg	13sec			3	1386.8	127.01
Rig Dir.	Ris. Tension	VDL	Comments					4	1414.0	128.82
217.0deg	122.47mt	984.30mt						5	1365.8	126.10
								6	1389.9	127.91
								7	1393.9	127.01
								8	1389.9	127.91

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		17:50 hrs 9/09/08	Transit to Portland for a 08:00hr Pilot booking.	Item	Unit	Quantity
				Fuel	m3	508
				Potable Water	m3	375
				Drill Water	m3	340
				Gel	mt	59
				Cement	mt	45.5
				Barite	mt	84
				KCl Brine	m3	9
				NaCl Brine	m3	0
					m3	117
Nor Captain	15:47hrs 9/09/08		On location Ocean Patriot Note: Transferred 200m³ of fuel, 85m³ pot, 135m³ DW and 82mt barite to the OP.	Item	Unit	Quantity
				Fuel	m3	255
				Potable Water	m3	200
				Drill Water	m3	321
				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
GYJ	11:10	Ocean Patriot		5
GYJ	11:20	Essendon		5