

From : Chris Roots / Nathan Peri
OIM : Dennis Gore

Well Data

Country	Australia	Measured Depth	1560.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1471.0m	Casing OD	340mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	652.0m	Daily Cost	\$776,477
Rig	Ocean Patriot	Days from spud	14.87	Shoe TVD	652.0m	Cum Cost	\$18,676,908
Water Depth (LAT)	66.3m	Days on well	15.58	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Continued to POH from 300m (BHA).					
RT-ML	87.8m	Planned Op Pull and lay out BHA and bit. Pick up new 311mm (12.25") Bit and FEWD tools, RIH and drill ahead to TD ~1977 mRT.					
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

Continued drilling 311mm (12.25") hole to 1560 mRT. Circulated 6 x BU until shakers were clean. Flushed choke and kill lines, conducted SCR's. Flow checked the well. POH from 1560m to 1368m.

Formations

Name	Top (MD)	Top (TVD)	Comment
Pebble Point	1132.5m	1121.9m	22.1m Low
Massacre Shale	1207.0m	1189.1m	33.3m Low
Timboon Fm	1222.0m	1202.2m	36.4m Low
Paarratte Fm	1443.0m	1382.3m	28.5 Low

Operations For Period 0000 Hrs to 2400 Hrs on 08 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DA	0000	0600	6.00	1393.0m	Drilled ahead 311mm (12.25") hole from 1329m to 1393m RT (1341mTVD). Surveyed and reamed on connections. Parameters: ROP 10.6m/hr, WOB 17.8-22.2 t (40-50klbs), 100-150 RPM, Tq 13-33.9 kNm (10-25 kftlbs), SPP 24.3 MPa (3475psi), flow rate 3785 L/min (1000gpm). Last Survey: 1344 mRT, 1304 mTVD, 38.7° Incl, 112° Azi.
PH	P	DA	0600	1930	13.50	1560.0m	Continued drilling ahead from 1393m to 1560 mRT, (1471 mTVD). Surveyed and reamed connections. Avg ROP: 12m/hr. Projected survey on bottom: 1560 mRT, (1471 mTVD), 37.96° Incl, 110° Azi. Note: Reduced mud rheology properties prior to POH.
PH	P	CHC	1930	2230	3.00	1560.0m	Circulated 6 by bottoms up volumes until shakers were clean. Reciprocated pipe during circulation. Mud weight 1.21sg (10.1ppg). Flow 3785 L/min (1000gpm), 120 rpm.
PH	P	FC	2230	2300	0.50	1560.0m	Flushed out choke and kill lines. Conducted SCR's and flow checked the well.
PH	P	TO	2300	2400	1.00	1560.0m	POH from 1560m to 1368m. Maximum overpull observed 31 kdaNm (70klbs).

Operations For Period 0000 Hrs to 0600 Hrs on 09 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	TO	0000	0300	3.00	1560.0m	Continued to POH from 1368m to 1020m. Observed 17-22 t (40-50klbs) overpull.
PH	P	WTH	0300	0330	0.50	1560.0m	Pulled tight at 1020m, worked pipe through to 954m Observed 22-31 t (50-70klbs). Made up TDS, pumped out from 954m to 935m (1 x std) at 2270 L/min (600gpm).
PH	P	TO	0330	0430	1.00	1560.0m	Continued to POH on elevators from 934m to the casing shoe at 652m. Observed 9-13 t (20-30klbs) overpull.
PH	P	FC	0430	0500	0.50	1560.0m	Flow checked at the shoe. Pumped a 1.4sg (12ppg) slug.
PH	P	TO	0500	0600	1.00	1560.0m	Continued to POH from 652m to 300m.

WBM Data

Cost Today \$ 23000

Mud Type:	KCL/GLY	API FL:	4cm³/30m	KCl:	10%	Solids:	6.48	Viscosity:	0sec/L
Sample-From:	Flowline	Filter-Cake:		Hard/Ca:	480	H2O:	94%	PV:	0.023Pa/s
Time:	22:00	HTHP-FL:		MBT:	6	Oil:		YP:	0.196MPa
Weight:	1.21sg	HTHP-Cake:	0mm	PM:	0.3	Sand:	0.5	Gels 10s:	0.067
Temp:	61.0C°			PF:	0.1	pH:	8.5	Gels 10m:	0.134
						PHPA:	1ppb	Fann 003:	11
								Fann 006:	14
								Fann 100:	39
								Fann 200:	49
								Fann 300:	64
								Fann 600:	87

Comment Maint. volume with conc. premix. Increase PHPA conc with direct additions to flowline and additional JK261 to dilution fluid. Dump and dilute active system with 275bbl of modified premix (reduced gels/6rpm and increased PHPA). Take on 786 bbl KCl/Glycol brine. Mix 60 bbls slug at slug pit.

Bit # 3				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)	14.97mt	No.	Size	Progress	0.0m	Cum. Progress		672.0m		
Type:	Rock	RPM(avg)	110	1	16/32nd"	On Bottom Hrs	0.00h	Cum. On Btm Hrs		19.91h		
Serial No.:	5127797	F.Rate	3483lpm	3	18/32nd"	IADC Drill Hrs	0.00h	Cum IADC Drill Hrs		31.00h		
Bit Model	MXL-1X	SPP	19471kPa				Total Revs	105300	Cum Total Revs		239600	
Depth In	657.0m	TFA	0.942				ROP(avg)	N/A	ROP(avg)		33.75 m/hr	
Depth Out												

BHA # 3							
Weight(Wet)	38.10mt	Length	300.8m	Torque(max)	28560.0Nm	D.C. (1) Ann Velocity	79.86mpm
Wt Below Jar(Wet)	35.38mt	String	115.67mt	Torque(Off.Btm)	16320.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	122.47mt	Torque(On.Btm)	8160.0Nm	H.W.D.P. Ann Velocity	66.9mpm
		Slack-Off	108.86mt			D.P. Ann Velocity	54.96mpm
BHA Run Description		Directional / FEWD					
BHA Run Comment		Jar hours: 50.5 Lost comms to the Exceed tool, able to downlink but no survey data. Survey data still being transmitted from the ACR-8 and projected for the bit.					

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.35m	311mm		5127797	
Powerdrive 900	8.65m	308mm	127mm	O31	Ported float installed. Xceed directional survey = 5.14m from the bit.
ARC-8	5.77m	231mm	76mm	1106	Resistivity & Gama = 11.1m from the bit.
In-Line Stabiliser	0.83m	308mm	111mm	ASQ8062	
Telescope HF	8.15m	213mm	76mm	E0005	Powerpulse directional survey = 19.21m from the bit.
In-Line Stabiliser	0.87m	308mm	111mm	242280730	
Sonic	7.20m	231mm	83mm	34888	Sonic = 28.92m
ADN	6.57m	226mm	213mm	VC73	Density = 35.09m. Neutron is 36.06m from the bit.
NMDC	8.55m	213mm	71mm	N688	
Drill Collar	84.37m	203mm	73mm		
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
1402.20	40.1	111.2	1348.27					MWD
1431.69	39.4	110.9	1370.95					MWD
1460.30	38.7	109.8	1393.17					MWD
1488.25	37.5	109.1	1415.17					MWD
1519.61	38.2	109.5	1439.93					MWD
1537.83	38.1	110.0	1454.27					MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	0	0	148.0	
Gel	mT	0	0	0	33.0	
Cement	mT	0	0	0	63.0	
Fuel	m3	0	21.6	0	368.0	
Potable Water	m3	30	20	0	339.0	
Drill Water	m3	0	12	0	667.0	

Personnel On Board		
Company	Comment	Pax
Santos		4
DOGC		54
ESS		8
BHI		6
Dowell		3
Rheochem		2
MI Swaco		1
TMT		7
Cameron		1
Schlumberger Drilling & Measurements	MWD / LWD	3
Santos	Geologist	2
Schlumberger Drilling & Measurements	Directional	3
DOGC Service	Scaffolders	3
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	8 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	5 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	31 Aug 2008	8 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	2 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	36	08 Sep 2008	0 Days	Drill crew - 11 Deck Crew - 9 Welder - 7 Subsea - 1 Mech - 5 Elect - 3
Lost Time Incident	1	30 May 2008	101 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	26 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	08 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	19	08 Sep 2008	0 Days	8 x hot work permits 11 x cold work permits
Rig Inspection	1	30 Aug 2008	9 Days	Conducted 1 by Santos STOP audit. Welding Shop: Stopped welder from working and inspected his permit for validity, OK. We then inspected the workshop for any hazards, found a steel plate leaning against a fire extinguisher. Removed plate away, no other changes required.
Safety Audit	1	30 Jul 2008	40 Days	EHSMS audit conducted onboard.
Safety Meeting	3	07 Sep 2008	1 Day	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	08 Sep 2008	0 Days	Conducted Santos induction to new personnel to site after DODI induction.
Stop Observations	59	08 Sep 2008	0 Days	38 - Safe 21 - Corrective Actions
STOP Tour	2	08 Sep 2008	0 Days	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Paul Marshall / Fius Siregar			
Available	364.3m ³	Losses	37.7m ³	Equip.	Descr.	Mesh Size	Hours
Active	58.7m ³	Downhole	2.4m ³	Centrifuge 1	MI SW FVS 518		16
Mixing		Surf+ Equip	15.4m ³	Centrifuge 1	MI SW FVS 518		20
Hole	121.9m ³	Dumped	5.6m ³	Centrifuge 2	MI SW FVS 518		11
Slug		De-Sander	3.5m ³	Centrifuge 2	MI SW FVS 518		8
Reserve	109.1m ³	De-Silter		Shaker 3	MI SW - BEM 650	10/20/200/200/200/200	24
Kill	0.0m ³	Centrifuge	10.8m ³	Shaker 3	MI SW - BEM 650	10/20/200/200/200/200	22
Brine	74.6m ³			Shaker 4	MI SW - BEM 650	10/20/200/200/200/200	24
				Shaker 4	MI SW - BEM 650	10/20/200/200/200/200	22
				Shaker 5	MI SW - BEM 650	10/20/200/200/200/200	24
				Shaker 5	MI SW - BEM 650	10/20/200/200/200/200	22
				Shaker 6	MI SW - BEM 650	10/20/200/200/200/200	24
				Shaker 6	MI SW - BEM 650	10/20/200/200/200/200	22
Comment	Daily ditch magnet = 25gms. Total = 75gms						

Marine								Rig Support		
Weather check on 08 Sep 2008 at 24:00										
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	22km/h	180.0deg	1024.00bar	10.0C°	1.0m	180.0deg	4sec	1	1353.0	121.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.4deg	0.3deg	1.00m	3.0m	230.0deg	13sec					
Rig Dir.	Ris. Tension	VDL	Comments							
217.0deg	122.47mt	934.40mt								
								2	1372.8	128.82
								3	1386.8	127.91
								4	1414.0	127.01
								5	1365.8	128.82
								6	1389.9	130.18
								7	1393.9	127.01
								8	1389.9	127.01

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	21:45 hrs 3/09/08		On location Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	521
				Potable Water	m3	385
				Drill Water	m3	340
				Gel	mt	59
				Cement	mt	45.5
				Barite	mt	84
				KCl Brine	m3	42
				NaCl Brine	m3	0
				Mud	m3	117
Nor Captain		16:40 hrs 8/09/08	Portland	Item	Unit	Quantity
				Fuel	m3	364
				Potable Water	m3	295
				Drill Water	m3	438
				Gel	mt	0
				Cement	mt	0
				Barite	mt	82
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	12

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
1			No flights today	