

**From : Peter Devine/ Rohan Richardson**  
**OIM : Dennis Gore**

**Well Data**

Country	Australia	Measured Depth	2047.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1716.0m	Casing OD	340mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	652.0m	Daily Cost	\$754,711
Rig	Ocean Patriot	Days from spud	26.87	Shoe TVD	652.0m	Cum Cost	\$29,018,612
Water Depth (LAT)	66.3m	Days on well	4.79	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Continue to work casing down from 1927 m.					
RT-ML	87.8m	Planned Op POOH and layout casing string.					
Rig Heading	217.0deg						

**Summary of Period 0000 to 2400 Hrs**

RIH casing from 97 m as per tally to 1940 m.

**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 20 Sep 2008**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	TI	0000	0330	3.50	2047.0m	Continued to run 244 mm (9 5/8") casing from 60 m to 421 m. Filled each joint and broke circulation every 10 jts.
IC	TP (OTH)	TI	0330	0500	1.50	2047.0m	Cross threaded jt#19, torque levelled out prematurely. When laying out, TDS came into contact with stabbing arm due to stabbing arm not being racked back completely. Damage was caused to a hydraulic hose on the stabbing arm. Hydraulic system was disabled with minimal loss of fluid, no dropped objects. Hose not required for operations and was blanked off at both ends. Continued to layout casing joint #19 and #18.
IC	P	TI	0500	1630	11.50	2047.0m	Continued to run 244 mm (9 5/8") casing from 409 m to 1521 m. Filled each joint and broke circulation every 10 jts. Laid out jt # 20 and # 21 due to galling.
IC	P	TI	1630	1830	2.00	2047.0m	Changed out casing handling gear from 244 mm (9 5/8") to 273 mm (10 3/4") and made up xover.
IC	P	TI	1830	2245	4.25	2047.0m	Continued to RIH 273 mm (10 3/4") casing from 1535 m to 1927 m. Casing hung up at 1600 m and 1785 m. Washed through tight spots with minimal resistance.
IC	TP (OTH)	WTH	2245	2315	0.50	2047.0m	Continued to RIH casing, hung up at 1934 m. Attempted to work through, unsuccessful. Pulled back 10 m and broke circulation. Increased pump rate to 890 L/min (235 GPM) and washed down casing to 1940 m. Worked single clean. Filter cake observed at shakers after bottoms up.
IC	TP (OTH)	WTH	2315	2400	0.75	2047.0m	Unable to wash casing to tool joint due to FAC tool. Made up last joint of 273 mm (10 3/4") casing and attempted to wash in from 1940 m, unsuccessful, well started to pack off. Shut down pumps and picked up casing and worked free. Attempted to break circulation at 1928 m, unsuccessful, well started to pack off. Shut down pumps and worked from 1927 m to 1935 m. Hole drag started to increase to 33 t (75 klbs) when running in and 18 t (40 klbs) pulling out, unable to break circulation due to hole packing off. Worked down to 1940 m, pulled back to 1938 m and laid out joint of casing. Latched onto casing stump with 500T elevators, unable to release FMS due to pilot air line from control panel disconnected at FMS. Attempted to reconnect, unsuccessful due to 500T elevator position. Unlatched elevators and pulled clear to allow room to reconnect airline. Rig heave and tight hole caused the string weight to reduce on the FMS, which in turn opened the slips unexpectedly. Rig heave and tight hole caused the casing to reciprocate down past the rotary table. When travelling backup through the rotary table it contacted the underside of the FMS and dislodged it onto the drill floor. The casing continued to reciprocate through the drill floor with a stick up of up to 2.5 m. The FMS was removed with a tugger line and the 500T elevators were then lowered over the casing and relatched. The casing was pulled free and worked, drag started to increase to 33 t (75 klbs) when running in and 18 t (40 klbs) pulling out. Serviced and function tested the FMS, ok no damage. Set FMS in rotary and set slips. Lowered FAC tool into casing and worked string with 890 - 1295 L/min (235 - 342 GPM). Joint became free with some filter cake and fine sand observed at shakers. Continued to work joint of casing.

**Operations For Period 0000 Hrs to 0600 Hrs on 21 Sep 2008**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	TP (OTH)	WTH	0000	0200	2.00	2047.0m	Worked casing free from 1927 m to 1940 m with 890 L/min (235 GPM). Unable to wash casing down to connection due to FAC tool packer space out. Attempted to work down without pumps unsuccessful.
IC	TP (OTH)	WTH	0200	0300	1.00	2047.0m	Held pre job safety meeting, laid out single joint of casing and made up 273 mm (10 3/4") by 114 mm (4 1/2") IF water bushing. Changed out handling gear for DP and made up a stand of DP to water bushing.
IC	TP (OTH)	WTH	0300	0600	3.00	2047.0m	(IN PROGRESS) Worked casing on DP from 1920 m to 1927 m with 850 - 1053 L/min (235 - 278 GPM). No drag observed. Minimal debris returned at shakers, mostly fine sand with some filter cake. Unable to work past 1927 m, taking weight and starting to pack off. Rotated pipe with torque limit set to 20.3 kNm (15 kft.lbs) at 15 RPM. Casing rotated free from 1920 to 1927 m with 13.6-20.3 kNm (10-15 kft.lbs) torque. Unable to work past 1927 m, TDS stalling out on torque limit cut off.

WBM Data				Cost Today \$ 0					
Mud Type:	KCL/GLY	API FL:	5cm <sup>3</sup> /30m	KCl:	8%	Solids:	10	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:		Hard/Ca:	520	H2O:	90%	PV:	0.030Pa/s
Time:	22:00	HTHP-FL:		MBT:	7.2	Oil:		YP:	0.192MPa
Weight:	1.32sg	HTHP-Cake:	0mm	PM:	0.1	Sand:	0.4	Gels 10s:	0.053
Temp:				PF:	0.02	pH:	8.5	Gels 10m:	0.105
						PHPA:	1ppb	Fann 003:	10
								Fann 006:	13
								Fann 100:	40
								Fann 200:	57
								Fann 300:	70
								Fann 600:	100
Comment: Weighted DIF mud in pits 3, 4, 5 to 10 ppg with salt. Treated new DIF fluid with 0.5 ppb Xanvis.									

Bulk Stocks							
Name	Unit	In	Used	Adjust	Balance	Comment	
Barite	mT	0	0	0	75.0		
Gel	mT	0	0	0	33.0		
Cement	mT	0	0	0	51.0		
Fuel	m3	0	14.2	0	356.0		
Potable Water	m3	29	23	0	393.0		
Drill Water	m3	0	28	0	396.0		

Personnel On Board		
Company	Comment	Pax
Santos		4
DOGC		47
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
Taylor Brothers		2
Apache		1
<b>Total</b>		<b>95</b>

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	14 Sep 2008	6 Days	Abandon drill completed after the simulated fire was under control. Completed full muster at the forward lifeboats at 10:49 hrs.
Environmental Audit	1	03 Sep 2008	17 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	14 Sep 2008	6 Days	Simulated a fire in the purifier flat. Emergency alarm sounded at 10:30 hrs, emergency under control at 10:44 hrs. Full muster complete at 10:49 hrs
First Aid	1	06 Sep 2008	14 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	24	20 Sep 2008	0 Days	Drill crew - 5 Deck Crew - 12 Mechanic - 5 Welder - 2
Lost Time Incident	1	30 May 2008	113 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	38 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	20 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	9	20 Sep 2008	0 Days	5 x hot work permits 4 x cold work permits
Safety Audit	1	29 Jul 2008	53 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	52 Days	EHSMS audit conducted onboard.
Safety Meeting	3	14 Sep 2008	6 Days	Reviewed stop cards for the week. Discussed the fire drill and the scenario of a fire in the purifier flat. Reviewed fire extinguisher location, housekeeping and availability.
Santos Induction	1	19 Sep 2008	1 Day	Inducted new personnell to site after DODI rig wide induction.
Stop Observations	56	20 Sep 2008	0 Days	34 - Safe 22 - Corrective Actions
STOP Tour	11	14 Sep 2008	6 Days	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Fius Siregar			
Available	271.5m <sup>3</sup>	Losses	18.1m <sup>3</sup>	Equip.	Descr.	Mesh Size	Hours
Active	38.2m <sup>3</sup>	Downhole					
Mixing		Surf+ Equip	18.1m <sup>3</sup>				
Hole	150.9m <sup>3</sup>	Dumped					
Slug	0.0m <sup>3</sup>	De-Sander					
Reserve	82.4m <sup>3</sup>	De-Silter					
Kill	0.0m <sup>3</sup>	Centrifuge					
Storage							

Marine										
Weather check on 20 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	48km/h	300.0deg	1008.00bar	12.0C°	1.5m	300.0deg	3sec	1	1353.0	132.00
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1372.8	127.91
1.5deg	1.0deg	2.00m	4.5m	270.0deg	12sec			3	1386.8	126.10
Rig Dir.	Ris. Tension	VDL	Comments					4	1414.0	127.01
217.0deg	122.47mt	993.37mt						5	1365.8	123.83
								6	1389.9	126.10
								7	1393.9	122.92
								8	1389.9	126.10

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	19:45 hrs 19/09/08		Running Standby	Item	Unit	Quantity
				Fuel	m3	421
				Potable Water	m3	400
				Drill Water	m3	530
				Gel	mt	59
				Cement	mt	40.5
				Barite	mt	52
				KCl Brine	m3	9
				NaCl Brine	m3	0
					m3	43.7
	m3	0				
	m3	0				
Nor Captain		20:50 hrs 19/09/08	Portland	Item	Unit	Quantity
				Fuel	m3	374
				Potable Water	m3	263
				Drill Water	m3	393
				Gel	mt	42
				Cement	mt	0
				Barite	mt	0
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	0

### Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BYV		Ocean Patriot	No Helicopters over the weekends	
BYV		Essendon	No Helicopters over the weekends	