

**From : Bryan Webb / Willie McKay**  
**OIM : Rod Dotson**

### Well Data

Country	Australia	Measured Depth	2037.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1708.9m	Casing OD	346mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	13.0m	Shoe MD	652.0m	Daily Cost	\$809,740
Rig	Ocean Patriot	Days from spud	44.87	Shoe TVD	652.0m	Cum Cost	\$43,759,717
Water Depth (LAT)	66.3m	Days on well	5.88	F.I.T. / L.O.T.	2.20sg / 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	<b>Current Op @ 0600</b> Wash/Reaming at 1,926 m with the following parameters: Flow Rate: 3,406 l/min, (900 gpm). SPP:23.4 MPa (3,400 psi). Torque: 6 kNm (4.4 kft-lbs). RPM:160. A considerable volume of cuttings observed on both upper and lower screens on shale shakers.					
RT-ML	87.8m						
Rig Heading	217.0deg						
		<b>Planned Op</b> Continue running to bottom with 311 mm (12 1/4") BHA. Circulate hole clean. POOH and rack back 311 mm (12 1/4") BHA. Make up casing hanger assembly and rack back in derrick. Retrieve wear bushing. Rig up casing running equipment. Make shoe track, check floats and rig up fill up tool. Commence running 245 mm (9.5/8") casing.					

### Summary of Period 0000 to 2400 Hrs

Continued drilling 311 mm (12 1/4") hole from 2,037 m to 2,050 m. Circulated hole clean and pumped out of hole from 2,050 m to 1,945 m. Back reamed out of the hole to the 340 mm (13 3/8") casing shoe at 650 m. Replaced darts in cement head and racked back in derrick. Slipped and cut drill line. Commenced running back in the hole to conduct a wiper trip.

### Formations

Name	Top (MD)	Top (TVD)	Comment
Massacre Shale	1201.0m	1189.5m	0.4 L
Timboon	1214.5m	1202.4m	0.2 L
Paaratte	1413.0m	1380.0m	2.3 H
Skull Creek	1665.0m	1558.6m	5.4 H

### Operations For Period 0000 Hrs to 2400 Hrs on 08 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	U (SCS)	DA	0000	0030	0.50	2050.0m	Continued drilling Skull Creek formation from 2,037 m to section TD at 2,050 m MD (1,711.4 m) TVD.
IH	U (SCS)	CHC	0030	0300	2.50	2050.0m	Circulated 3 x bottoms up, worked double with 160 RPM and 3709 L/min (980 GPM). Racked back stand and continued to work next with same parameters. Shakers clean.
IH	U (SCS)	FC	0300	0315	0.25	2050.0m	Conducted flow check, well static.
IC	U (SCS)	RW	0315	1430	11.25	2050.0m	POOH from 2,050 m to 1,961 m on elevators. Took 31.7 mt (70 klbs) overpull. Attempted to work through tight spot, unsuccessful. Made up TDS and attempted to pump out of hole, unsuccessful. Started packing off . Commenced back reaming from 1,961 m to 1,105 m with 150 rpm and 3406 l/min (900 gpm). Minimal overpull observed, no pack off and fluctuating torque without stalling.
IC	U (SCS)	CHC	1430	1500	0.50	2050.0m	Circulated bottoms up with: 3,236 l/min, (855 gpm). 13.8 MPa, (2,000 psi). 4.7 kNm, (3.5 kft-lbs). 200 RPM
IC	U (SCS)	HT	1500	1630	1.50	2050.0m	Made up TDS to cement head. Displaced darts in to mouses hole with rig pumps. Broke out 140 mm (5") drill pipe pup joint (SOFT BREAK) and laid out with cement head to load new darts.
IC	U (SCS)	SC	1630	1930	3.00	2050.0m	Slipped and cut 30 m, (98 ft) of drill line. Tested C.O.M with drill line.
IC	U (SCS)	HT	1930	2030	1.00	2050.0m	Picked up, made up and racked back cement head in derrick. Changed out 140 mm (5") manual elevators for auto's.
IC	U (SCS)	RS	2030	2100	0.50	2050.0m	Conducted service on TDS.
IC	U (RE)	TI	2100	2130	0.50	2050.0m	Replaced O'Ring on racking arm hydraulic control valve.
IC	U (SCS)	TI	2130	2300	1.50	2050.0m	RIH with 311 mm (12 1/4") BHA from 650 m to 1,193 m filling 140 mm (5") drill pipe very 20 stands.
IC	U (RE)	TI	2300	2330	0.50	2050.0m	Replaced racking arm hydraulic hose. While trouble shooting problem the hole was circulated with the following parameters:

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	U (SCS)	TI	2330	2400	0.50	2050.0m	1,855 l/min, (490 gpm). 6.9 MPa, (1,000 psi). 2.3 kNm, (1.75 kft-lbs). 20 RPM. Continued RIH from 1,193 m to 1,366 m.

**Operations For Period 0000 Hrs to 0600 Hrs on 09 Oct 2008**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	U (SCS)	TI	0000	0030	0.50	2050.0m	Continued running in hole with the 311 mm (12 1/4") BHA from 1,366 m to 1,578 m.
IC	U (SCS)	RW	0030	0600	5.50	2050.0m	BHA hung up at 1,578 m. Made up TDS and wash/reamed from 1,578 m to 1,900 m with the following average parameters: Flow Rate: 3,406 l/min, (900 gpm). SPP:23.4 MPa (3,400 psi). Torque: 6 kNm (4.4 kft-lbs). RPM:160. A large volume of cuttings observed on both upper and lower screens on shale shakers.

WBM Data		Cost Today \$ 29252							
Mud Type:	KCL/GLY	API FL:	3cm <sup>3</sup> /30m	KCl:	11%	Solids:	12.65	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	1mm	Hard/Ca:	600	H2O:	87%	PV:	0.032Pa/s
Time:	15:00	HTHP-FL:		MBT:	7.5	Oil:		YP:	0.211MPa
Weight:	1.38sg	HTHP-Cake:	1mm	PM:	0.1	Sand:	0.5	Gels 10s:	0.048
Temp:	136.0C°			PF:	0	pH:	8.7	Gels 10m:	0.105
						PHPA:	2ppb	Fann 003:	8
								Fann 006:	11
								Fann 100:	42
								Fann 200:	60
								Fann 300:	76
								Fann 600:	108
Comment	Continued bleeding in premix as required. Ran both centrifuges to maintain mud weight and LGS level. Built 400 bbl of low viscosity premix to condition mud prior to running casing.								

Bit # 12				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#		Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)	10.52mt	No.	Size	Progress	13.0m	Cum. Progress	1000.0m			
Type:	PDC	RPM(avg)	179	2	16/32nd"	On Bottom Hrs	20.54h	Cum. On Btm Hrs	65.58h			
Serial No.:	JX7062	F.Rate	3589lpm	3	18/32nd"	IADC Drill Hrs	20.54h	Cum IADC Drill Hrs	76.04h			
Bit Model	MD519BPX	SPP	24132kPa	Total Revs			Cum Total Revs					
Depth In	1050.0m	TFA	1.138	ROP(avg)			0.63 m/hr	ROP(avg)				
Depth Out								15.25 m/hr				

BHA # 16							
Weight(Wet)	19.05mt	Length	212.0m	Torque(max)	16320.0Nm	D.C. (1) Ann Velocity	82.29mpm
Wt Below Jar(Wet)	17.24mt	String	106.59mt	Torque(Off.Btm)	6120.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	108.86mt	Torque(On.Btm)	11424.0Nm	H.W.D.P. Ann Velocity	68.94mpm
		Slack-Off	95.25mt			D.P. Ann Velocity	56.63mpm

BHA Run Description		Directional / FEWD				
Equipment	Length	OD	ID	Serial #	Comment	
Bit	0.30m	311mm		JX7062	Smith MDi519	
Powerdrive 900	9.05m	308mm	127mm	090	X5 assy (float, receiver sub and flex sub)	
ARC-8	5.87m	231mm	76mm	1854		
In-Line Stabiliser	0.88m	291mm	111mm	242230733		
Telescope HF	8.13m	213mm	76mm	E1158		
NMDC	9.37m	226mm	71mm	SBD4466		
NMDC	8.55m	213mm	71mm	N688		
X/O	0.70m	203mm	67mm	ASQ8065		
HWDP	121.38m	175mm	76mm			
6.375in Jars	9.73m	162mm	70mm	DAH01628		
HWDP	37.30m					

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	25	0	60.0	
Gel	mT	0	0	0	31.0	
Cement	mT	0	0	0	46.0	
Fuel	m3	0	21.6	0	452.5	
Potable Water	m3	27	24	0	369.0	
Drill Water	m3	5	98	0	589.0	

Personnel On Board		
Company	Comment	Pax
Santos		4
DOGC		53
ESS		8
BHI		6
Dowell		2
Rheochem		2
MI Swaco		1
TMT		6
Cameron		1
Santos	Geologist	2
Schlumberger Drilling & Measurements	Directional	6
Premium Casing Services		6
<b>Total</b>		<b>97</b>

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	05 Oct 2008	3 Days	Abandon drill completed after the simulated fire drill under control. Alarm sounded at 10:31 hrs, initial muster completed at 10:41 hrs, full muster completed at 10:49 hrs.
Environmental Audit	1	03 Sep 2008	35 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	05 Oct 2008	3 Days	Simulated a fire in the cement unit room. Alarm sounded at 10:31 hrs, emergency under control at 10:41 hrs. Rescue and fire teams discussed scenario and resolution.
First Aid	1	01 Oct 2008	7 Days	IP struck on upper lip when removing float valve from float sub.
JHA	43	08 Oct 2008	0 Days	Drill crew - 15 Deck Crew - 13 Welder - 6 Mechanic - 4 Electrician - 5
Lost Time Incident	1	30 May 2008	131 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	56 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 Oct 2008	0 Days	Discussed the next 24 hr operation. Rigging up to run casing. Good hand overs to be conducted. Good STOP card participation.
PTW Issued	7	08 Oct 2008	0 Days	6 x hot work 1 x cold work
Safety Audit	1	29 Jul 2008	71 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	70 Days	EHSMS audit conducted onboard.
Safety Meeting	3	05 Oct 2008	3 Days	Reviewed stop cards for the week and awarded Santos Stop card winner to Hayden S, PCS. Discussed the fire drill and the scenario of a fire in the cement unit room. Reviewed abandon rig scenario. Discussed fire systems on rig.
Santos Induction	3	08 Oct 2008	0 Days	Inducted new personnel to site after DODI rig wide induction.
Stop Observations	42	08 Oct 2008	0 Days	33 - Safe 20 - Corrective Actions
STOP Tour	5	04 Oct 2008	4 Days	Submitted 5 by Diamond supervisor Stop audit.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Carissa Thompson			
Available	403.8m <sup>3</sup>	Losses	36.1m <sup>3</sup>	Equip.	Descr.	Mesh Size	Hours
Active	84.3m <sup>3</sup>	Downhole		Centrifuge 1	MI SW FVS 518		5
Mixing		Surf+ Equip	23.8m <sup>3</sup>	Centrifuge 1	MI SW FVS 518		5
Hole	159.1m <sup>3</sup>	Dumped	0.0m <sup>3</sup>	Centrifuge 2	MI SW FVS 518		0
Slug	0.0m <sup>3</sup>	De-Sander		Centrifuge 2	MI SW FVS 518		2
Reserve	129.9m <sup>3</sup>	De-Silter		Shaker 3	MI SW - BEM 650	40/20 230 HC x 4	24
Kill	0.0m <sup>3</sup>	Centrifuge	9.1m <sup>3</sup>	Shaker 3	MI SW - BEM 650	40/20 230 HC x 4	22
Storage	30.5m <sup>3</sup>	Tripping	3.2m <sup>3</sup>	Shaker 4	MI SW - BEM 650	30/20 200 HC x 4	24
				Shaker 4	MI SW - BEM 650	30/20 200 HC x 4	22
				Shaker 5	MI SW - BEM 650	30/20 200 HC x 4	24
				Shaker 5	MI SW - BEM 650	30/20 200 HC x 4	22
				Shaker 6	MI SW - BEM 650	40/20 230 HC x 4	24
				Shaker 6	MI SW - BEM 650	40/20 165 HC x 4	22

Marine								Rig Support		
Weather check on 08 Oct 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	248.0deg	1025.00bar	12.0C°	2.0m	248.0deg	3sec	1	1353.0	130.18
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.6deg	0.4deg	1.00m	3.0m	225.0deg	12sec					
Rig Dir.	Ris. Tension	VDL	Comments							
217.0deg	110.22mt	1011.51mt								
								2	1372.8	135.17
								3	1386.8	125.19
								4	1414.0	127.91
								5	1365.8	125.19
								6	1389.9	128.82
								7	1393.9	145.15
								8	1389.9	102.06

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		21:05 hrs 07/10/03	In Portland	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>
				Fuel	m3	523
				Potable Water	m3	236
				Drill Water	m3	500
				Gel	mt	59
				Cement	mt	84
				Barite	mt	41
				KCl Brine	m3	9
				NaCl Brine	m3	0
				Mud	m3	131
Nor Captain	18:45 hrs 07/10/08		Running Standby	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>
				Fuel	m3	436.6
				Potable Water	m3	368
				Drill Water	m3	319
				Gel	mt	42
				Cement	mt	0
				Barite	mt	42
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	104

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BYV	11:23	Essendon		6	
BYV	11:34	Ocean Patriot		6	