

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	0.0m	Shoe MD	652.0m	Daily Cost	\$1,013,654
Rig	Ocean Patriot	Days from spud	46.87	Shoe TVD	652.0m	Cum Cost	\$45,561,110
Water Depth (LAT)	66.3m	Days on well	7.88	F.I.T. / L.O.T.	2.20sg / 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	POOH with the 311 mm (12 1/4") BHA at 800 m with no hole condition problems.				
RT-ML	87.8m	Planned Op	Cont 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.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

POOH with the 311 mm (12 1/4") BHA from 2,050 m to 652 m backreaming tight spots as required. RIH from 652 m to 1,853 m reaming tight spots as required.

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 10 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	U (SCS)	TO	0000	0030	0.50	2050.0m	Pulled 5 stands with no overpull encountered.
IC	U (SCS)	TI	0030	0100	0.50	2050.0m	Ran 5 stands back to bottom without any problems.
IC	U (SCS)	CMD	0100	0345	2.75	2050.0m	Added 40 drums of Starglide to circulating system to achieve a concentration of +/- 3.0 ppb
IC	U (SCS)	TO	0345	0530	1.75	2050.0m	POOH from 2,050 m to 1,633 m. No hole problems observed.
IC	U (SCS)	WTH	0530	0600	0.50	2050.0m	Observed 44.5 kdaN, (100 klbs) drag at 1,633 m over string weight. Made up top drive and established circulation. No signs of pack off. Jarred string down to free, rotated and reciprocated string while circulating. Worked stand fully, no indications of any cuttings at shale shakers on bottoms up. Continued to ream stand and worked through to 1,625 m.
IC	U (SCS)	WTH	0600	1230	6.50	2050.0m	Backreamed from 1,633 m to 1,045 m with the following average parameters: Made several attempts to pull without pumps and rotation. Unsuccessful due to hole drag trending to 31.1 kdaN, (70 klbs) overpull. Flow Rate: 3,312 l/min, (875 gpm). SPP: 22.7 MPa, (3,300 psi). Torque: 5.4 kNm, (4 klbs). RPM: 140.
IC	U (SCS)	WTH	1230	1400	1.50	2050.0m	BHA packed off at 1,045 m. Worked drill string to regain movement with the following parameters: Flow Rate: 3,312 l/min, (875 gpm). SPP: 22.7 MPa, (3,300 psi). Torque: 5.4 kNm, (4 klbs). RPM: 140.
IC	U (SCS)	WTH	1400	1730	3.50	2050.0m	Backreamed from 1,045 m to 652 m with the following average parameters: Flow Rate: 3,312 l/min, (875 gpm). SPP: 22.7 MPa, (3,300 psi). Torque: 5.4 kNm, (4 klbs). RPM: 140.
IC	U (SCS)	RS	1730	1800	0.50	2050.0m	Held JSA and conducted rig service on TDS and compensator.
IC	U (SCS)	TI	1800	2400	6.00	2050.0m	RIH from 652 m to 1,853 m reaming tight spots at 802 m, 1,035 m, 1,511 m, 1,568 m to 1,590 m and 1,611 m with the following average parameters: Flow Rate: 3,312 l/min, (875 gpm). SPP: 22.7 MPa, (3,300 psi). Torque: 5.4 kNm, (4 klbs). RPM: 140.

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

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	U (SCS)	TI	0000	0030	0.50	2050.0m	Cont RIH from 1,853 m to 2,050 m.
IC	U (SCS)	CHC	0030	0145	1.25	2050.0m	Pumped a 4.8 m3, (30 bbl) sweep weighing 1.62 SG, (13.5 ppg) and circulated until clean at the shale shakers. Increase in cuttings seen when weighted sweep returned to surface.
IC	U (SCS)	FC	0145	0200	0.25	2050.0m	Conducted flow check, well static.
IC	U (SCS)	TO	0200	0600	4.00	2050.0m	(IN PROGRESS) POOH wet with the 311 mm (12 1/4") BHA from 2,050 m to 650 m with no hole problems being encountered.

WBM Data		Cost Today \$ 96725							
Mud Type:	KCL/GLY	API FL:	3cm³/30m	KCl:	11%	Solids:	14.64	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	1mm	Hard/Ca:	720	H2O:	85%	PV:	0.029Pa/s
Time:	20:00	HTHP-FL:		MBT:	7.5	Oil:		YP:	0.163MPa
Weight:	1.44sg	HTHP-Cake:		PM:	0.1	Sand:	0.75	Gels 10s:	0.038
Temp:	62.0C°			PF:	0	pH:	8.5	Gels 10m:	0.096
						PHPA:	1ppb	Fann 003:	8
								Fann 006:	11
								Fann 100:	40
								Fann 200:	57
								Fann 300:	71
								Fann 600:	103
Comment	Added +/- 3% Starglide Lubricant while circulating on bottom. Mud Check #1 equates to mud returns at flowline after Starglide addition. Dusted in Barite to maintain mud weight. Built weighted pill to be used as a sweep while on bottom prior to POOH.								

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)		No.	Size	Progress	0.0m	Cum. Progress	1000.0m			
Type:	PDC	RPM(avg)	198	2	16/32nd"	On Bottom Hrs	0.00h	Cum. On Btm Hrs	65.58h			
Serial No.:	JX7062	F.Rate	3483lpm	3	18/32nd"	IADC Drill Hrs	0.00h	Cum IADC Drill Hrs	76.04h			
Bit Model	MD519BPX	SPP	23442kPa			Total Revs		Cum Total Revs	0			
Depth In	1050.0m	TFA	1.138			ROP(avg)	N/A	ROP(avg)	15.25 m/hr			
Depth Out												

BHA # 16							
Weight(Wet)	19.05mt	Length	212.0m	Torque(max)	16320.0Nm	D.C. (1) Ann Velocity	79.86mpm
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	66.9mpm
		Slack-Off	95.25mt			D.P. Ann Velocity	54.96mpm

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	37	0	57.0	
Gel	mT	0	0	0	31.0	
Cement	mT	0	0	0	46.0	
Fuel	m3	0	19.5	0	417.8	
Potable Water	m3	0	0	0	343.0	
Drill Water	m3	0	0	0	537.0	

Personnel On Board		
Company	Comment	Pax
Santos		6
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
Total		99

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	05 Oct 2008	5 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	37 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	05 Oct 2008	5 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	09 Oct 2008	1 Day	IP turned his left foot while entering the shaker house.
JHA	39	10 Oct 2008	0 Days	Drill crew - 15 Deck Crew - 11 Welder - 7 Mechanic - 6 Electrician - 0
Lost Time Incident	1	30 May 2008	133 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	58 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 Oct 2008	0 Days	Discussed the next 24 hr operation. Rigging up to run casing. Good hand overs to be conducted. Keeping an eye out for new crew members.
PTW Issued	8	10 Oct 2008	0 Days	5 x hot work 3 x cold work
Safety Audit	1	29 Jul 2008	73 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	72 Days	EHSMS audit conducted onboard.
Safety Meeting	3	05 Oct 2008	5 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	2 Days	Inducted new personnel to site after DODI rig wide induction.
Stop Observations	62	10 Oct 2008	0 Days	26 - Safe 17 - Corrective Actions
STOP Tour	3	10 Oct 2008	0 Days	Submitted 3 by Diamond supervisor Stop audit.

Shakers, Volumes and Losses Data				Engineer : Julian Chapman / Carissa Thompson			
Available	365.2m ³	Losses	21.6m ³	Equip.	Descr.	Mesh Size	Hours
Active	87.8m ³	Downhole		Centrifuge 1	MI SW FVS 518		3
Mixing		Surf+ Equip	7.9m ³	Centrifuge 1	MI SW FVS 518		1
Hole	157.6m ³	Dumped		Centrifuge 2	MI SW FVS 518		7
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	75.8m ³	De-Silter		Shaker 3	MI SW - BEM 650	40/20 230 HC x 4	24
Kill	0.0m ³	Centrifuge	1.0m ³	Shaker 3	MI SW - BEM 650	40/20 230 HC x 4	24
Storage	44.0m ³	Tripping	12.7m ³	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	24
				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	24
				Shaker 6	MI SW - BEM 650	40/20 165 HC x 4	24
				Shaker 6	MI SW - BEM 650	40/20 165 HC x 4	24

Marine								Rig Support		
Weather check on 10 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	15km/h	248.0deg	1028.00bar	16.0C°	0.5m	290.0deg	3sec	1	1353.0	130.18
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.3deg	0.3deg	0.50m	3.0m	225.0deg	12sec					
Rig Dir.	Ris. Tension	VDL	Comments							
217.0deg	110.22mt	980.21mt								
								8	1389.9	107.96

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		21:05 hrs 07/10/03	In Portland.	Item	Unit	Quantity
				Fuel	m3	519
				Potable Water	m3	220
				Drill Water	m3	615
				Gel	mt	59
				Cement	mt	84
				Barite	mt	41
				KCl Brine	bbbl	52
				NaCl Brine	bbbl	0
				Mud	bbbl	823
Nor Captain	18:45 hrs 07/10/08		Running Standby. Transferred 42.0 mt of Barite to rig.	Item	Unit	Quantity
				Fuel	m3	420.8
				Potable Water	m3	345
				Drill Water	m3	319
				Gel	mt	42
				Cement	mt	0
				Barite	mt	0
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	104

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BYV	11:13	Essendon		7
BYV	11:27	Ocean Patriot		6