

From : Chris Roots / Willie McKay
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	2448.0m	Current Hole Size	216mm	AFE Cost	\$41,512,831
Field		TVD	1739.5m	Casing OD	244mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	398.0m	Shoe MD	2042.7m	Daily Cost	\$1,137,151
Rig	Ocean Patriot	Days from spud	51.87	Shoe TVD	1709.9m	Cum Cost	\$50,280,515
Water Depth (LAT)	66.3m	Days on well	12.88	F.I.T. / L.O.T.	/	Planned TD	2627.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Drilling 216 mm (8 1/2") hole as per directional drillers instructions taking surveys as required with the following parameters: Flow Rate: 2,631 l/min, (695 gpm) SPP: 17.9 MPa, (2,600 psi). WOB: 10.2 t, (23 Kklbs). Torque: 16.3 kNm, (12 kft-lbs). RPM: 155 Current Depth: 2,521 m. Average ROP from midnight including connections: 12.16 m/hr.					
RT-ML	87.8m						
Rig Heading	217.0deg						
		Planned Op Continue drilling 216 mm (8 1/2") to section TD. Circulate hole until clean at shale shakers. POOH to 244 mm (9 5/8") casing shoe back reaming if required. Run back in hole with 216 mm (8 1/2") BHA to simulate running in with sand screens in open hole. Put 325 mesh screens on shale shakers and circulate mud until the desired level of solids has been achieved. POOH and rack 216 mm (8 1/2") BHA back in derrick.					

Summary of Period 0000 to 2400 Hrs

Drilled 216 mm (8 1/2") hole as per directional drillers instructions taking surveys as required with an average ROP including connections of 20.41 m/hr. Conducted visual inspection of TDS and dolly roller carriage. Maintained exclusion zone around rig floor until TD has been reached.

Formations

Name	Top (MD)	Top (TVD)	Comment
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
Waarre A	2040.0m	1709.5m	5.0 H

Operations For Period 0000 Hrs to 2400 Hrs on 15 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	SM	0000	0030	0.50	2050.0m	Held JSA on rig floor with all involved in the displacement from KCL/Polymer mud to DIF. Conducted drops survey on TDS and barriered off area around drill floor as an exclusion zone while drilling the 216 mm (8 1/2") section.
PH	P	DA	0030	0345	3.25	2050.0m	Commenced drilling through cement plugs, float and casing shoe with the following parameters: Flow Rate: 2,271 l/min, (600 gpm). WOB: 4 t, (9 klbs). Torque: 9.5 kNm, (7 kft-lbs). RPM: 70. (Confirmed 244 mm (9 5/8") casing shoe depth at 2,045.7 m with gamma ray, LWD.)
PH	P	DIS	0345	0430	0.75	2050.0m	Displaced mud system to DIF with 2,271 l/min, (600 gpm) and 13.1 MPa, (1,900 psi). Discarded 311 mm (12 1/4") mud at the shale shakers while displacing.
PH	P	DA	0430	1430	10.00	2345.0m	Took SCR's and drilled 311 mm (12 1/4") hole from 2,050 m to 2,345 m with the following parameters: Flow Rate: 2,460 l/min, (650 gpm). WOB: 6.7 t, (15 klbs). Torque: 9.5 kNm, (10 kft-lbs). RPM: 140. Average ROP including connections: 29.5 m/hr.
PH	P	SVY	1430	1500	0.50	2345.0m	Conducted visual inspection of TDS and dolly roller carriage.
PH	P	DA	1500	2400	9.00	2448.0m	Continued drilling 311 mm (12 1/4") hole from 2,345 m to 2,448 m with the following parameters: Flow Rate: 2,611 l/min, (690 gpm). SPP: 17.9 MPa, (2,600 psi). WOB: 11.1 t, (25 klbs). Torque: 9.5 kNm, (10 kft-lbs). RPM: 150. Average ROP including connections: 11.44m/hr.

Operations For Period 0000 Hrs to 0600 Hrs on 16 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DA	0000	0600	6.00	2521.0m	Continued drilling 311 mm (12 1/4") hole from 2,448 m to 2,521 m with the following parameters: Flow Rate: 2,631 l/min, (695 gpm) SPP: 17.9 MPa, (2,600 psi). WOB: 10.2 t. (23 Kklbs). Torque: 16.3 kNm, (12 kft-lbs). RPM: 155 Average ROP including connections: 12.16 m/hr.

WBM Data		Cost Today \$ 18022							
Mud Type:	DIF	API FL:	3cm³/30m	KCl:		Solids:	3.07	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	1mm	Hard/Ca:	600	H2O:	97%	PV:	0.011Pa/s
Time:	20:00	HTHP-FL:		MBT:	2.5	Oil:		YP:	0.134MPa
Weight:	1.20sg	HTHP-Cake:		PM:	0.2	Sand:		Gels 10s:	0.048
Temp:	67.0C°			PF:	0.15	pH:	8.5	Gels 10m:	0.057
						PHPA:		Fann 003:	13
								Fann 006:	16
								Fann 100:	30
								Fann 200:	38
								Fann 300:	44
								Fann 600:	57
Comment Discharged 80 bbl of DIF while flushing lines and during displacement.									

Bit # 13				Wear	I	O1	D	L	B	G	O2	R
Size:	216mm	IADC#	M222	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)	6.58mt	No.	Size	Progress	398.0m	Cum. Progress	398.0m			
Type:	PDC	RPM(avg)	138	6	14/32nd"	On Bottom Hrs	14.17h	Cum. On Btm Hrs	14.17h			
Serial No.:	JX3464	F.Rate	2487lpm			IADC Drill Hrs	22.20h	Cum IADC Drill Hrs	22.20h			
Bit Model	MDi616	SPP	13321kPa			Total Revs	118500	Cum Total Revs	118500			
Depth In	2050.0m	TFA	0.902			ROP(avg)	28.09 m/hr	ROP(avg)	28.09 m/hr			
Depth Out												

BHA # 17							
Weight(Wet)	11.79mt	Length	182.5m	Torque(max)	20.4Nm	D.C. (1) Ann Velocity	183.91mpm
Wt Below Jar(Wet)	10.43mt	String	106.59mt	Torque(Off.Btm)	9.5Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	108.86mt	Torque(On.Btm)	16.3Nm	H.W.D.P. Ann Velocity	196.99mpm
		Slack-Off	99.79mt			D.P. Ann Velocity	103.88mpm
BHA Run Description	216 mm (8 1/2") Smith PDC. 172 mm (6 3/4") XCEED. 172 mm (6 3/4") Ecoscope. 175 mm (6 7/8") Telescope. 172 mm (6 3/4") NMDC x 2. 127 mm (5") HWDP x 10. 165 mm (6 1/2") Jars. 127 mm (5") HWDP x 4.						

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.24m	216mm		JX3464	SMITH MDi616
Powerdrive 675	7.65m	171mm	51mm	266	
ARC-8	8.03m	171mm	99mm	987	Arc-8 With 8 1/2" Sabilizer
Telescope	8.36m	175mm	130mm	FA27	
NMDC	18.21m	171mm	97mm	SBD1437 & M36	
HWDP	37.43m	175mm	78mm		
HWDP	93.30m	175mm	78mm		
6.5in Jar	9.30m	164mm	70mm	WO314599	

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
2262.00	84.4	118.4	1728.04	913.56	1.75	-472.77	782.46	MWD
2291.17	85.0	118.6	1730.76	942.60	0.70	-486.63	807.98	MWD
2319.89	85.3	119.0	1733.19	971.22	0.51	-500.44	833.04	MWD
2348.83	85.6	119.7	1735.49	1000.07	0.78	-514.58	858.19	MWD
2378.05	87.7	120.3	1737.18	1029.23	2.25	-529.16	883.45	MWD
2407.02	88.0	122.0	1738.25	1058.16	1.86	-544.14	908.23	MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	0	0	54.0	
Gel	mT	0	0	0	31.0	
Cement	mT	0	0	0	30.0	
Fuel	m3	200	22.5	0	548.8	
Potable Water	m3	32	28	0	344.0	
Drill Water	m3	592	105	0	866.0	

Personnel On Board		
Company	Comment	Pax
Santos		9
DOGC		47
ESS		8
BHI		6
Dowell		2
Rheochem		2
MI Swaco		2
TMT		6
Cameron		2
Schlumberger Drilling & Measurements	Directional	5
Premium Casing Services		4
Weatherford		2
Baker Oil Tools		1
Scotech		2
Total		98

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	12 Oct 2008	3 Days	Abandon drill completed after the simulated fire drill under control. A full muster was achieved in 6 minutes.
Environmental Audit	1	03 Sep 2008	42 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	05 Oct 2008	10 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	15 Oct 2008	0 Days	IP pinched thumb between tubing test cap and shelve while placing cap on shelf.
JHA	32	15 Oct 2008	0 Days	Drill crew - 8 Deck Crew - 15 Welder - 5 Mechanic - 2 Electrician - 0 3rd Party - 1 Subsea- 1
Lost Time Incident	1	30 May 2008	138 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	63 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	6	15 Oct 2008	0 Days	Discussed the next 24 hr operation. Keeping a good eye on the shaker screens and change as soon as any wear is observed. Exclusion floor barriered off around rig floor until the 8 1/2" section has been drilled. Laying out completion assemblies.
PTW Issued	13	15 Oct 2008	0 Days	6 x hot work 7 x cold work
Safety Audit	1	29 Jul 2008	78 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	77 Days	EHSMS audit conducted onboard.
Safety Meeting	3	12 Oct 2008	3 Days	Reviewed stop cards for the week. Discussed the fire drill. The crews were praised for their participation in the STOP card programme.
Santos Induction	6	15 Oct 2008	0 Days	Inducted new personnel to site after DODI rig wide induction.
Stop Observations	52	15 Oct 2008	0 Days	31 - Safe 21 - Corrective Actions
STOP Tour	3	15 Oct 2008	0 Days	Submitted by Diamond supervisor Stop audit.

Shakers, Volumes and Losses Data				Engineer : Julian Chapman / Mike Morris			
Available	327.2m ³	Losses	137.4m ³	Equip.	Descr.	Mesh Size	Hours
Active	39.9m ³	Downhole		Centrifuge 1	MI SW FVS 518		
Mixing		Surf+ Equip	14.5m ³	Centrifuge 1	MI SW FVS 518		
Hole	96.2m ³	Dumped	108.6m ³	Centrifuge 2	MI SW FVS 518		
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	41.2m ³	De-Silter		Shaker 3	MI SW - BEM 650	40/20 165 HC x 1	
Kill	0.0m ³	Centrifuge	14.3m ³	Shaker 3	MI SW - BEM 650	40/20 230 HC x 1	24
Storage	149.9m ³			Shaker 4	MI SW - BEM 650	30/20 165 HC x 1	
				Shaker 4	MI SW - BEM 650	30/20 230 HC x 1	24
				Shaker 5	MI SW - BEM 650	30/20 165 HC x 1	
				Shaker 5	MI SW - BEM 650	30/20 230 HC x 1	24
				Shaker 6	MI SW - BEM 650	40/20 165 HC x 1	
				Shaker 6	MI SW - BEM 650	40/20 165 HC x 1	

Marine								Rig Support		
Weather check on 15 Oct 2008 at 24:00								Anchors	Chain out (m)	Tension (mt)
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	1	1353.0	132.00
13.0km	15km/h	240.0deg	1024.00bar	13.0C°	0.3m	240.0deg	2sec	2	1372.8	130.18
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.5deg	0.4deg	0.80m	3.0m	240.0deg	13sec					
Rig Dir.	Ris. Tension	VDL	Comments							
217.0deg	110.22mt	892.22mt								
								7	1393.9	141.07
								8	1389.9	112.04

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip			Letf location for bert in Portland at 07:00 hrs 16/10/2008.	Item	Unit	Quantity
				Fuel	m3	263
				Potable Water	m3	192
				Drill Water	m3	0
				Gel	mt	59
				Cement	mt	84
				Barite	mt	41
				KCl Brine	bbbl	52
				NaCl Brine	bbbl	0
					bbbl	0
Nor Captain			In Portland.	Item	Unit	Quantity
				Fuel	m3	528.1
				Potable Water	m3	343
				Drill Water	m3	319
				Gel	mt	42
				Cement	mt	0
				Barite	mt	0
				KCl Brine	bbbl	0
				NaCl Brine	bbbl	800
					bbbl	

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BYV	11:27	Essendon		9	
BYV	11:42	Ocean Patriot		10	