

From : Peter Devine / Rohan Richardson
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	1050.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1050.0m	Casing OD	346mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	652.0m	Daily Cost	\$754,180
Rig	Ocean Patriot	Days from spud	40.87	Shoe TVD	652.0m	Cum Cost	\$40,494,155
Water Depth (LAT)	66.3m	Days on well	1.88	F.I.T. / L.O.T.	2.20sg / 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to mill casing swage.				
RT-ML	87.8m	Planned Op	Mill casing swage, POOH and RIH with a rock bit and stabiliser on DC to confirm free passage. POOH and RIH with RS assembly to 1050 m. Drill ahead intermediate hole.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

Unable to pass swage at 93 m with RS assembly. POOH and RIH with milling assembly. Milled casing swage at 93 m and POOH, laid out same.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	TP (SCS)	HBHA	0000	0330	3.50	1050.0m	Continued to pick up and make BHA#10 311 mm (12 1/4") Powerdrive X5 assembly with Bit#10 ReedHyalog RSX616M-A16 PDC bit, RIH to 93 m. Powerdrive X5 directional tool was hot shot to rig and required special make up on drill floor due to being delivered in separate segments. Reprogrammed LWD/MWD assembly for new DD tools.
IC	TU (MIS)	OA	0330	0430	1.00	1050.0m	Attempted to pass swage at 93 m, unsuccessful. Continued to vary parameters, attempted to work past with left hand rotation and engaged DD tool pads, unable to pass obstruction. POOH to change assembly, hung up on wellhead. Passed wellhead after 5 min with slight rotation and low flow rate.
IC	TU (MIS)	HBHA	0430	0530	1.00	1050.0m	POOH to change bit.
IC	TU (MIS)	HBHA	0530	0630	1.00	1050.0m	Made up BHA#11 with Bit#11 Reed T11C (115) rock bit and RIH to 93 m.
IC	TU (MIS)	TI	0630	0700	0.50	1050.0m	Attempted to pass casing swage restriction at 93 m, unsuccessful.
IC	U (MIS)	HBHA	0700	0900	2.00	1050.0m	POOH, worked DD tool and bit past wellhead at 86.5 m with low flow rate and 10 RPM. Continued to POOH and rack back BHA, flushed directional assembly with sea water when pulled through rotary.
IC	TU (MIS)	HBHA	0900	1000	1.00	1050.0m	Picked up a stand of 203 mm (8 ") DC, made up used 117 rock bit and attempted to work past swage, unsuccessful.
IC	TU (MIS)	HBHA	1000	1130	1.50	1050.0m	Simultaneous Operations: Mobilised milling assembly to rig via Portland. POOH and racked back assembly.
IC	TU (MIS)	WOE	1130	1800	6.50	1050.0m	Wait on milling assembly. Simultaneous Operations: Serviced TDS, completed preventative maintenance on travelling block assembly and casing stabbing arm. Completed a crown block inspection and adjusted TDS alignment cylinder.
IC	TU (MIS)	HBHA	1800	2100	3.00	1050.0m	Picked up and made up BHA#12 milling assembly: Milling assembly (inc 311 mm (12 1/4") PDC tapered entry shoe and 2 x 311 mm (12 1/4") melon mills at 0.5 m and 3.4 m behind shoe), 308 mm (12 1/8") near bit stabiliser, 2 x 203 mm (8") DC, 308 mm (12 1/8" IBSS), 1 x 203 mm (8") DC and HWDP to surface.
IC	TU (MIS)	M	2100	2230	1.50	1050.0m	Commenced milling swage from 93 m with 3236 L/min (855 GPM), 4.1-6.8 kNm (3-5 kft.lbs) torque, 2.2 t (5 klbs) WOB, 130 RPM. Worked through swage with PDC tapered entry shoe, high string vibration observed at rotary table. Continued to work first melon mill through swage, pumped Hi-vis sweep and recovered 280 g of steel swarf from ditch magnet after 30 min. Unable to work top melon mill past swage, sat 2.2 t (5 klbs) on swage for 10 min with no movement when correlated off index line. Circulated hi vis sweep and returned 800 g of swarf in ditch magnet with more observed over shakers. Swarf represented 'pigs tail' type from PDC cutters as opposed to tungsten carbide mill 'chip type'. Worked entry shoe and first melon mill up past swage and back down without pumps and rotary, no indication of hang up observed. Attempted to work top mill past swage, unsuccessful.
IC	TU (MIS)	HBHA	2230	2300	0.50	1050.0m	POOH and rack back HWDP and DC.
IC	TU (MIS)	HBHA	2300	2400	1.00	1050.0m	Laid out milling assembly. PDC cutters on entry shoe showed 50% wear along taper and 3.2 mm (1/8") undergauge. First melon mill showed 10% wear and the top mill

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							showed minimal.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	TU (MIS)	HBHA	0000	0400	4.00	1050.0m	Picked up BHA#13 with Bit#10RR 311 mm (12 1/4") ReedHycalog RSX616M-A16 PDC, 308 mm (12 1/8") near bit stabiliser and 203 mm (8") DC assembly and RIH to 93 m. Attempted to work past swage, unsuccessful. Attempted to POOH, unsuccessful, hung up on bottom of wellhead at 86.5 m. RIH and commenced reaming on swage for 20 min. Worked past swage with low flow rate and 20 RPM, continued to POOH and rack back assembly.
IC	TU (MIS)	HBHA	0400	0530	1.50	1050.0m	Picked up and made up BHA#14 milling assembly: Milling assembly (inc 311 mm (12 1/4") Mill tapered entry shoe and 2 x 311 mm (12 1/4") melon mills at 0.5 m and 3.4 m behind shoe), 308 mm (12 1/8") near bit stabiliser, 2 x 203 mm (8") DC, 308 mm (12 1/8" IBSS), 1 x 203 mm (8") DC and HWDWP to surface.
IC	TU (MIS)	M	0530	0600	0.50	1050.0m	(IN PROGRESS) Commenced milling swage from 93 m. Worked past with mill shoe and 2 x mills, picked up above swage and attempted to ream down, unsuccessful. Hung up at 93 m with the mill shoe. Continued to mill from 93 m with 3236 L/min (855 GPM), 130 RPM, 4.1-6.8 kNm (3-5 kft.lbs). Once through swage with mill assembly, worked several times until assembly passed with minimal resistance. Pumped Hi-vis sweep, fine swarf returned on ditch magnet. Attempted to POOH, unsuccessful. Hung up on the bottom of the wellhead, attempted to rotate back through, unsuccessful. Worked assembly over swage for 15 min and picked up and worked past wellhead.

WBM Data		Cost Today \$ 27088							
Mud Type:	KCL/GLY	API FL:	4cm³/30m	KCl:	11%	Solids:	7.65	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:		Hard/Ca:	520	H2O:	92%	PV:	0.026Pa/s
Time:	22:30	HTHP-FL:		MBT:	5	Oil:		YP:	0.192MPa
Weight:	1.25sg	HTHP-Cake:	1mm	PM:	0.2	Sand:	0.9	Gels 10s:	0.048
Temp:				PF:	0.15	pH:	9.2	Gels 10m:	0.072
						PHPA:	2ppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	39
								Fann 200:	54
								Fann 300:	66
								Fann 600:	92
Comment	Weight up premix in pit #5 to 11.3 ppg.								

Bit # 10				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#		Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	REED	WOB(avg)		No.	Size	Progress			Cum. Progress			
Type:	PDC	RPM(avg)				On Bottom Hrs			Cum. On Btm Hrs			
Serial No.:	218713	F.Rate				IADC Drill Hrs			Cum IADC Drill Hrs			
Bit Model	RSX616M-A16	SPP				Total Revs			Cum Total Revs			
Depth In	1050.0m	TFA	0.000			ROP(avg)			N/A			
Depth Out	1050.0m								0.00 m/hr			
Run Comment	Unable to pass through casing swage											

Bit # 11				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	REED	WOB(avg)		No.	Size	Progress			Cum. Progress			
Type:	Rock	RPM(avg)				On Bottom Hrs			Cum. On Btm Hrs			
Serial No.:	YD7530	F.Rate				IADC Drill Hrs			Cum IADC Drill Hrs			
Bit Model	T11C	SPP				Total Revs			Cum Total Revs			
Depth In	1050.0m	TFA	0.000			ROP(avg)			N/A			
Depth Out	1050.0m								0.00 m/hr			
Run Comment	Unable to pass through casing swage											

BHA # 10						
Weight(Wet)	19.05mt	Length	212.0m	Torque(max)	D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)	17.24mt	String	95.25mt	Torque(Off.Btm)	D.C. (2) Ann Velocity	0mpm
		Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity	0mpm
		Slack-Off			D.P. Ann Velocity	0mpm
BHA Run Description		Directional / FEWD				
Equipment	Length	OD	ID	Serial #	Comment	
Bit	0.29m	311mm		218713	ReedHycalog RSX616M-A16	
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					

BHA # 11						
Weight(Wet)	19.05mt	Length	212.0m	Torque(max)	D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)	17.24mt	String	95.25mt	Torque(Off.Btm)	D.C. (2) Ann Velocity	0mpm
		Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity	0mpm
		Slack-Off			D.P. Ann Velocity	0mpm
BHA Run Description		Directional / FEWD				
Equipment	Length	OD	ID	Serial #	Comment	
Bit	0.30m	311mm		yd7530	T11C	
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					

BHA # 12						
Weight(Wet)	19.05mt	Length	122.1m	Torque(max)	D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)	17.24mt	String	95.25mt	Torque(Off.Btm)	D.C. (2) Ann Velocity	0mpm
		Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity	0mpm
		Slack-Off			D.P. Ann Velocity	0mpm
BHA Run Comment		Milled casing swage				
Equipment	Length	OD	ID	Serial #	Comment	
Bit	4.41m	311mm		51267D	Melon Mill	
X/O	0.44m	207mm	71mm	646886		
Near Bit Stabiliser	1.80m	210mm	73mm	XM785	12 1/8"	
8in DC	9.42m	203mm	73mm	186-0051		
8in DC	9.32m	203mm	73mm	186-0054		
String Stabiliser	2.45m	213mm	213mm	E1158	12 1/8"	
8in DC	9.08m	203mm	73mm	186-008		
X/O	1.07m	198mm	71mm	186-0058		
HWDP	83.94m	175mm	78mm			

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	28	0	153.0	
Gel	mT	0	0	0	33.0	
Cement	mT	0	0	0	46.0	
Fuel	m3	0	10.8	0	522.9	
Potable Water	m3	31	30	0	344.0	
Drill Water	m3	0	59	0	581.0	

Personnel On Board		
Company	Comment	Pax
Santos		4
DOGC		50
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		94

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	28 Sep 2008	6 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	31 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	28 Sep 2008	6 Days	Simulated a fire in the emergency generator room. Alarm sounded at 10:31 hrs, emergency under control at 10:42 hrs. Rescue and fire teams discussed scenario and resolution.
First Aid	1	01 Oct 2008	3 Days	IP struck on upper lip when removing float valve from float sub.
JHA	22	04 Oct 2008	0 Days	Drill crew - 5 Deck Crew - 10 Welder - 3 Mechanic - 4
Lost Time Incident	1	30 May 2008	127 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	52 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	04 Oct 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	4	04 Oct 2008	0 Days	2 x hot work 2 x cold work
Safety Audit	1	29 Jul 2008	67 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	66 Days	EHSMS audit conducted onboard.
Safety Meeting	3	29 Sep 2008	5 Days	Reviewed stop cards for the week and awarded Santos Stop card winner to B Parker. Discussed the fire drill and the scenario of a fire in the emergency engine room. Reviewed abandon rig scenario.
Santos Induction	1	03 Oct 2008	1 Day	Inducted new personnel to site after DODI rig wide induction.
Stop Observations	81	04 Oct 2008	0 Days	54 - Safe 27 - Corrective Actions
STOP Tour	5	04 Oct 2008	0 Days	Submitted 5 by Diamond supervisor Stop audit.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Carissa Thompson			
Available	414.2m ³	Losses	12.9m ³	Equip.	Descr.	Mesh Size	Hours
Active	76.6m ³	Downhole		Centrifuge 1	MI SW FVS 518		3
Mixing		Surf+ Equip	12.9m ³	Centrifuge 1	MI SW FVS 518		0
Hole	92.1m ³	Dumped		Centrifuge 2	MI SW FVS 518		
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	163.0m ³	De-Silter		Shaker 3	MI SW - BEM 650	30/10 270/200	20
Kill	0.0m ³	Centrifuge		Shaker 3	MI SW - BEM 650	30/10 270/200	7
Storage	82.5m ³			Shaker 4	MI SW - BEM 650	30/10 200HC x 4	20
				Shaker 4	MI SW - BEM 650	30/10 200HC x 4	7
				Shaker 5	MI SW - BEM 650	30/10 200HC x 4	20
				Shaker 5	MI SW - BEM 650	30/10 200HC x 4	7
				Shaker 6	MI SW - BEM 650	30/10 270/200	20
				Shaker 6	MI SW - BEM 650	30/10 270/200	7

Marine								Rig Support		
Weather check on 04 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)
18.5km	20km/h	260.0deg	1016.00bar	12.0C°	0.5m	260.0deg	3sec	1	1353.0	104.78
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.4deg	0.3deg	0.50m	1.5m	230.0deg	12sec					
Rig Dir.	Ris. Tension	VDL	Comments							
217.0deg	122.47mt	1065.04mt								
								8	1389.9	141.97

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	17:00 hrs 04/10/08		Portland	Item	Unit	Quantity
				Fuel	m3	456
				Potable Water	m3	266
				Drill Water	m3	740
				Gel	mt	59
				Cement	mt	84
				Barite	mt	84
				KCl Brine	m3	9
				NaCl Brine	m3	0
				Mud	m3	131
						0
Nor Captain		17:30 hrs 04/10/08	On steam to Portland, ETA 08:00 hrs 05/10/08	Item	Unit	Quantity
				Fuel	m3	470
				Potable Water	m3	335
				Drill Water	m3	319
				Gel	mt	42
				Cement	mt	0
				Barite	mt	42
				KCl Brine	m3	41.8
				NaCl Brine	m3	0
				Mud	m3	104

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BYV		Essendon	No helicopter on weekend	
BYV		Ocean Patriot	No helicopter on weekend	