

From : Peter Devine/ Rohan Richardson
OIM : Dennis Gore

Well Data

Country	Australia	Measured Depth	2042.0m	Current Hole Size	311mm	AFE Cost	\$41,512,831
Field		TVD	1757.0m	Casing OD	340mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	652.0m	Daily Cost	\$771,683
Rig	Ocean Patriot	Days from spud	20.87	Shoe TVD	652.0m	Cum Cost	\$23,912,053
Water Depth (LAT)	66.3m	Days on well	21.58	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to time drill off cement KOP from 1629 m at 1 m/hr				
RT-ML	87.8m	Planned Op	Kick off plug, commence side track and drill ahead 311 mm (12 1/4") hole.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

RIH 89 mm (3 1/2") cement stinger from 1360 m to TD at 2042 m and completed 3 by cement plugs from 2042 m to 1600 m. POOH and laid out cement stinger. Made up 311 mm (12 1/4") BHA and RIH to 1220 m.

Formations

Name	Top (MD)	Top (TVD)	Comment
K85 Unconformity	1956.0m	1714.0m	35.7 m Low
Waarre A	1956.0m	1714.0m	35.7 m Low
Eumeralla Formation	2003.0m	1738.0m	33.8 m Low
Total Depth	2042.0m	1757.0m	

Operations For Period 0000 Hrs to 2400 Hrs on 14 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	TI	0000	0130	1.50	2042.0m	Continued to RIH with cement stinger from 1300 m to 1963 m.
PA	P	WIN	0130	0200	0.50	2042.0m	Made up TDS and washed down from 1963 m to 2042 m
PA	P	CHC	0200	0300	1.00	2042.0m	Circulated hole clean with 3785 L/min (1000 GPM) and 100 RPM.
PA	P	CMP	0300	0415	1.25	2042.0m	Made up cement sub and lined up cement unit to DP. Pumped 0.8 m3 (5 bbls) of drill water, P/t surface lines to 10.3 MPa (1500 psi) for 5 min and pumped 1.3 m3 (8 bbls) of drill water spacer. Mixed and pumped 13 m3 (81.5 bbls) of 2 SG (16.5 ppg) class G slurry, 430 sacks. Pumped 0.1 m3 (0.75 bbls) of drill water spacer and displaced cement with 16.2 m3 (102 bbls) of 1.3 SG (11 ppg) mud. Spotted plug #1A f/ 2042m to 1900m.
PA	P	TO	0415	0500	0.75	2042.0m	Broke and laid out cement sub, POOH from 2042 m to 1900 m at 5 min/stand.
PA	P	CHC	0500	0600	1.00	2042.0m	Inserted foam ball into DP and made up TDS. Circulated bottoms up at 3785 L/min (1000 GPM). Dumped 9.5 m3 (60 bbls) of contaminated mud at shakers.
PA	P	CMP	0600	0700	1.00	2042.0m	Made up cement sub and lined up cement unit to DP. Pumped 0.6 m3 (4 bbls) of drill water, P/t surface lines to 10.3 MPa (1500 psi) for 5 min and pumped 0.8 m3 (5 bbls) of drill water spacer. Mixed and pumped 13.7 m3 (86 bbls) of 2 SG (16.5 ppg) class G slurry, 440 sacks. Pumped 0.1 m3 (0.5 bbls) of drill water spacer and displaced cement with 14.8 m3 (93 bbls) of 1.3 SG (11 ppg) mud. Spotted plug #1B f/ 1900m to 1750m.
PA	P	TO	0700	0800	1.00	2042.0m	Broke and laid out cement sub, POOH from 1900 m to 1750 m at 5 min/stand.
PA	P	CHC	0800	0900	1.00	2042.0m	Inserted foam ball into DP and made up TDS. Circulated bottoms up at 3785 L/min (1000 GPM). Dumped 4.9 m3 (31 bbls) of contaminated mud at shakers.
PA	P	CMP	0900	1000	1.00	2042.0m	Made up cement sub and lined up cement unit to DP. Pumped 0.6 m3 (4 bbls) of mud push, P/t surface lines to 10.3 MPa (1500 psi) for 5 min and pumped 7.3 m3 (46 bbls) of drill water spacer. Mixed and pumped 13.7 m3 (86 bbls) of 2 SG (16.5 ppg) class G slurry, 440 sacks. Pumped 1 m3 (6.5 bbls) of drill water spacer and displaced cement with 12.5 m3 (79 bbls) of 1.3 SG (11 ppg) mud. Spotted plug #2 f/ 1750m to 1600m.
PA	P	TO	1000	1130	1.50	2042.0m	Broke and laid out cement sub, POOH from 1750 m to 1500 m at 5 min/stand.
PA	P	CHC	1130	1230	1.00	2042.0m	Inserted foam ball into DP and made up TDS. Circulated bottoms up at 3785 L/min (1000 GPM). Dumped 5.2 m3 (33 bbls) of contaminated mud at shakers.
PA	P	TO	1230	1530	3.00	1600.0m	Commenced POOH from 1500 m to 206 m with cement stinger.
PA	P	TO	1530	1600	0.50	1600.0m	Changed out handling gear for 89 mm (3 1/2") DP.
PA	P	TO	1600	1700	1.00	1600.0m	Continued to POOH, laid out 89 mm (3 1/2") DP cement stinger and mule shoe. Foam balls recovered in mule shoe.
IH	P	HBHA	1700	1730	0.50	1600.0m	Changed out handling gear for 127 mm (5") DP.
IH	P	HBHA	1730	2100	3.50	1600.0m	Picked up and made up 311 mm (12.25") BHA and RIH to 93 m. Lost 4.4 t (10 klbs) weight at casing swadge, worked past with 757-1514 L/min (200-400 GPM) flow rate and 10-20 RPM. Continued to RIH to 100 m and performed MWD shallow hole test, ok. Continued to RIH BHA to 211 m.
							Simultaneous Operations: Held meeting with casing crew to discuss 244 mm (9 5/8") casing running procedures and handling gear change out.
IH	P	TI	2100	2200	1.00	1600.0m	Continued to RIH from 211 m to 640 m.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	RS	2200	2230	0.50	1600.0m	Serviced the blocks and TDS prior to leaving casing shoe.
IH	P	TI	2230	2400	1.50	1600.0m	Continued to RIH from 640 m to 1220 m.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	TI	0000	0130	1.50	1600.0m	Continued to RIH from 1220 m to 1500 m. Worked and reamed through dogleg at 1300 m.
IH	P	WIN	0130	0215	0.75	1600.0m	Downlinked to directional tool and set tool face to 100%. Washed down from 1500 m to 1550 m tagging ratty cement with 4.4 - 8.9 t (10-20 klbs) and rotating through. Green cement observed at shakers.
IH	TP (VE)	OA	0215	0315	1.00	1600.0m	Pneumatic lines from FAC tool in TDS service loop blown into dolly track due to high winds. Removed and resecured to service loop. Installed storm line to kelly hoses.
IH	P	TI	0315	0400	0.75	1611.0m	Continued to wash down from 1550 m to 1611 m tagging ratty cement with 4.4 - 8.9 t (10-20 klbs) and rotating through. Green cement observed at shakers.
IH	P	ST	0400	0500	1.00	1628.0m	Tagged with 11 t (25 klbs) cement at 1611 m. Attempted to dress TOC and sidetrack from 1611 m to 1628 m, unsuccessful. Predominately green cement at shakers and unable to set down weight with rotary at 80 rpm.
IH	P	ST	0500	0600	1.00	1629.0m	Commenced time drilling from 1628 m to 1629 m at 1 m/hr.

WBM Data				Cost Today \$ 1857					
Mud Type:	KCL/GLY	API FL:	5cm ³ /30m	KCl:	9%	Solids:	10.4	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:		Hard/Ca:	1200	H2O:	90%	PV:	0.027Pa/s
Time:	22:00	HTHP-FL:		MBT:	7.5	Oil:		YP:	0.158MPa
Weight:	1.32sg	HTHP-Cake:	0mm	PM:	0.4	Sand:	0.5	Gels 10s:	0.043
Temp:				PF:	0.15	pH:	9	Gels 10m:	0.101
						PHPA:	1ppb	Fann 003:	8
								Fann 006:	11
								Fann 100:	34
								Fann 200:	48
								Fann 300:	60
								Fann 600:	87
Comment	Treated active with 1.1 ppb citric acid and 0.8 ppb sodium bicarbonate whilst circulating bottoms up after cementing. Dumped 60 bbls of contaminated cement after the first plug, 31 bbls after plug #2 and 33 after KOP. Dumped sandtraps and solid control pits. Used barite to weight up mud push for KOP.								

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
					1	3	BT	N2	E	2	CT	TD
Size:	311mm	IADC#	117	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)		No.	Size	Progress	0.0m	Cum. Progress		482.0m		
Type:	Rock	RPM(avg)		1	14/32nd"	On Bottom Hrs	0.00h	Cum. On Btm Hrs		43.32h		
Serial No.:	5146318	F.Rate		3	20/32nd"	IADC Drill Hrs	0.00h	Cum IADC Drill Hrs		51.25h		
Bit Model	MXL-1X	SPP		Total Revs				Cum Total Revs		222800		
Depth In	1560.0m	TFA	1.071	ROP(avg)			N/A	ROP(avg)		11.13 m/hr		
Depth Out	2042.0m											

BHA # 5						
Weight(Wet)	19.05mt	Length	216.5m	Torque(max)	D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)	18.14mt	String		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					
BHA Run Comment	6" Jar hours: 60.0					

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.33m	311mm		5146318	
Powerdrive 900	8.62m	308mm	127mm	16	Blank float installed. Xceed survey = 5.10m from the bit.
ARC-8	5.90m	231mm	76mm	1871	Resistivity & Gama = 11.36m from the bit.
In-Line Stabiliser	0.83m	291mm	111mm	ASQ8062	
Telescope HF	8.15m	213mm	76mm	E0005	Powerpulse survey = 19.25m from the bit.
In-Line Stabiliser	0.83m	308mm	111mm	ASQ8-61	
Sonic	7.21m	231mm	83mm	FE75	Sonic = 28.89m
ADN	6.57m	226mm	213mm	43150	Density = 35.06m. Neutron is 36.04m from the bit.
NMDC	8.55m	213mm	71mm	N688	
X/O	1.09m	203mm	67mm	GUD123-1	
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	0	0	137.0	
Gel	mT	0	0	0	33.0	
Cement	mT	0	63	0	0.0	
Fuel	m3	0	14.2	0	465.0	
Potable Water	m3	30	23	0	370.0	
Drill Water	m3	0	90	0	687.0	

Personnel On Board

Company	Comment	Pax
Santos		4
DOGC		52
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
Total		97

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	131.70/131.70	Slurry: 30.8m ³ (194bbl x 916sxs) of 1.9sg (15.8ppg) class G
340mm	2.20 /	652.00/652.00	Lead: 41m ³ (256bbl x 532sx) of 1.5sg (12.5ppg) class G slurry. Tail: 17.8m ³ (112bbl x 644sx) 150m of 1.9sg (15.8ppg) class G slurry.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	14 Sep 2008	0 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	11 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	14 Sep 2008	0 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	8 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	22	14 Sep 2008	0 Days	Drill crew - 1 Deck Crew - 15 Mech - 2 Welder - 2 Marine - 2
Lost Time Incident	1	30 May 2008	107 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	32 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	14 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	14	14 Sep 2008	0 Days	10 x hot work permits 4 x cold work permits
Safety Audit	1	29 Jul 2008	47 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	46 Days	EHSMS audit conducted onboard.
Safety Meeting	3	14 Sep 2008	0 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	0	14 Sep 2008	0 Days	No new personal to site
Stop Observations	59	14 Sep 2008	0 Days	38 - Safe 21 - Corrective Actions
STOP Tour	11	14 Sep 2008	0 Days	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Fius Siregar			
Available	341.2m ³	Losses	60.6m ³	Equip.	Descr.	Mesh Size	Hours
Active	34.2m ³	Downhole		Centrifuge 1	MI SW FVS 518		6
Mixing		Surf+ Equip	4.8m ³	Centrifuge 1	MI SW FVS 518		0
Hole	118.8m ³	Dumped	55.8m ³	Centrifuge 2	MI SW FVS 518		
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	115.7m ³	De-Silter		Shaker 3	MI SW - BEM 650	10/20 230/240 x 4	0
Kill	0.0m ³	Centrifuge		Shaker 3	MI SW - BEM 650	10/20 230/240 x 4	0
Storage	72.5m ³			Shaker 4	MI SW - BEM 650	40/30 270/230 x 4	13
				Shaker 4	MI SW - BEM 650	40/30 270/230 x 4	16
				Shaker 5	MI SW - BEM 650	10/20 230/240 x 4	0
				Shaker 5	MI SW - BEM 650	10/20 230/240 x 4	0
				Shaker 6	MI SW - BEM 650	40/30 270/230 x 4	13
				Shaker 6	MI SW - BEM 650	40/30 270/230 x 4	16

Marine								Rig Support		
Weather check on 14 Sep 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	56km/h	355.0deg	1005.00bar	13.0C°	0.5m	355.0deg	3sec	1	1353.0	120.20
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.5deg	0.4deg	1.50m	2.0m	220.0deg	12sec					
Rig Dir.	Ris. Tension	VDL		Comments				2	1372.8	117.93
217.0deg	122.47mt	957.53mt						3	1386.8	123.83
								4	1414.0	125.19
								5	1365.8	132.00
								6	1389.9	130.18
								7	1393.9	126.10
								8	1389.9	128.82

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		20:00 hrs 14/09/08	Released to Portland	Item	Unit	Quantity
				Fuel	m3	478
				Potable Water	m3	345
				Drill Water	m3	340
				Gel	mt	59
				Cement	mt	45.5
				Barite	mt	0
				KCl Brine	m3	9
				NaCl Brine	m3	0
				Mud	m3	117
Nor Captain	20:00 hrs 14/09/08		Ocean Patriot Standby. DW and PW figures adjusted due to trimming of the vessel	Item	Unit	Quantity
				Fuel	m3	438
				Potable Water	m3	244
				Drill Water	m3	393
				Gel	mt	0
				Cement	mt	42
				Barite	mt	42
				KCl Brine	m3	0
				NaCl Brine	m3	0
				Mud	m3	139

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