

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	\$816,503
Rig	Ocean Patriot	Days from spud	19.87	Shoe TVD	652.0m	Cum Cost	\$23,140,370
Water Depth (LAT)	66.3m	Days on well	20.58	F.I.T. / L.O.T.	/ 2.20sg	Planned TD	2552.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to circulate clean after setting abandonment plug #1A.				
RT-ML	87.8m	Planned Op	Set cement abandonment plugs #1B and #2, POOH and layout cement stinger. Make up 311 mm (12.25") BHA and RIH to tag cement. Commence sidetrack.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

POOH 311 mm (12.25") BHA from 764 m and laid out same. Made up CSHART to pup joint and laid out same. Made up 89 mm (3 1/2") cement stinger and RIH to 1360 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 13 Sep 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	RW	0000	1100	11.00	2042.0m	Continued to back ream out of hole from 1745 m to 980 m with 3217 L/min (850 gpm), 140 - 160 RPM, 6.8 - 39.3 kNm (5 - 29 kftlbs) torque.
PH	P	TO	1100	1230	1.50	2042.0m	POOH from 980 m to 650 m, maximum over pull 6.7 t (15 klbs).
PH	P	CHC	1230	1300	0.50	2042.0m	Circulated bottoms up and boosted riser to clean. Flow checked well, static.
PH	P	TO	1300	1400	1.00	2042.0m	Continued to POOH from 650 m to 216 m.
PH	P	HBHA	1400	1800	4.00	2042.0m	POOH and racked back BHA, removed radio active source and laid out MWD/LWD and DD tools.
PH	P	HT	1800	1900	1.00	2042.0m	Picked up CHSART and made up to DP pup joint, laid out same.
PA	P	TI	1900	2100	2.00	2042.0m	Rigged up to handle 89 mm (3 1/2") DP. Made up cement mule shoe and RIH 206 m of 89 mm (3 1/2") cement stinger.
PA	P	TI	2100	2115	0.25	2042.0m	Changed out handling gear for 127 mm (5") DP
PA	P	TI	2115	2330	2.25	2042.0m	Continued to RIH cement stinger on 127 mm (5") DP to 1330 m.
PH	P	RW	2330	2400	0.50	2042.0m	Unable to work past 1300 m. Made up TDS, broke circulation with 3785 L/min (1000 GPM) and worked past obstruction to 1360 m.

Operations For Period 0000 Hrs to 0600 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.

WBM Data		Cost Today \$ 82							
Mud Type:	KCL/GLY	API FL:	4cm ³ /30m	KCl:	9%	Solids:	10.1	Viscosity:	0sec/L
Sample-From:	Flowline	Filter-Cake:		Hard/Ca:	480	H2O:	90%	PV:	0.031Pa/s
Time:	22:00	HTHP-FL:		MBT:	8.5	Oil:		YP:	0.206MPa
Weight:	1.32sg	HTHP-Cake:	0mm	PM:	0	Sand:	0.5	Gels 10s:	0.057
Temp:				PF:	0.01	pH:	8.5	Gels 10m:	0.120
						PHPA:	1ppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	41
								Fann 200:	60
								Fann 300:	74
								Fann 600:	105
Comment: Centrifuged mud while back reaming out of hole to maintain mud weight. Built heavy weight slug with barite.									

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		Length	Torque(max)	D.C. (1) Ann Velocity
Weight(Wet)	19.05mt	216.5m		0mpm
Wt Below Jar(Wet)	18.14mt		Torque(Off.Btm)	D.C. (2) Ann Velocity
			Torque(On.Btm)	H.W.D.P. Ann Velocity
				D.P. Ann Velocity

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	0	0	63.0	
Fuel	m3	0	18.3	0	479.2	
Potable Water	m3	30	27	0	363.0	
Drill Water	m3	220	45	0	777.0	

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	31 Aug 2008	13 Days	Abandon drill completed after the simulated fire was under control. Completed full muster at the forward lifeboats at 10:48hrs.
Environmental Audit	1	03 Sep 2008	10 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	07 Sep 2008	6 Days	Simulated a fire in the subsea shop. Emergency alarm sounded at 10:28hrs, emergency under control at 10:39hrs. Full muster complete at 10:38hrs
First Aid	1	06 Sep 2008	7 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	35	13 Sep 2008	0 Days	Drill crew - 10 Deck Crew - 17 Mech - 4 Elect - 1 Marine - 3
Lost Time Incident	1	30 May 2008	106 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	31 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	13 Sep 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	15	13 Sep 2008	0 Days	10 x hot work permits 5 x cold work permits
Safety Audit	1	29 Jul 2008	46 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	45 Days	EHSMS audit conducted onboard.
Safety Meeting	3	07 Sep 2008	6 Days	Reviewed stop cards for the week and awarded Santos best stop card to Brendan Haywood. Discussed the fire drill in the subsea shop. Reviewed fire fighting equipment and where to find them on the rig.
Santos Induction	0	13 Sep 2008	0 Days	No new personal to site
Stop Observations	50	13 Sep 2008	0 Days	38 - Safe 12- Corrective Actions
STOP Tour	3	11 Sep 2008	2 Days	Submitted Diamond supervisor audits.

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Fius Siregar			
Available	400.5m ³	Losses	34.7m ³	Equip.	Descr.	Mesh Size	Hours
Active	89.8m ³	Downhole	15.3m ³	Centrifuge 1	MI SW FVS 518		10
Mixing		Surf+ Equip	14.8m ³	Centrifuge 1	MI SW FVS 518		6
Hole	167.6m ³	Dumped	0.0m ³	Centrifuge 2	MI SW FVS 518		
Slug	0.0m ³	De-Sander		Centrifuge 2	MI SW FVS 518		
Reserve	76.3m ³	De-Silter		Shaker 3	MI SW - BEM 650	10/20 230/240 x 4	0
Kill	0.0m ³	Centrifuge	4.6m ³	Shaker 3	MI SW - BEM 650	10/20 230/240 x 4	0
Storage	66.8m ³			Shaker 4	MI SW - BEM 650	40/30 270/230 x 4	24
				Shaker 4	MI SW - BEM 650	40/30 270/230 x 4	13
				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	24
				Shaker 6	MI SW - BEM 650	40/30 270/230 x 4	13

Marine										
Weather check on 13 Sep 2008 at 24:00								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	33km/h	30.0deg	994.00bar	16.0C°	0.5m	30.0deg	3sec	1	1353.0	118.84
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1372.8	120.20
0.5deg	0.4deg	1.50m	2.5m	260.0deg	12sec			3	1386.8	126.10
Rig Dir.	Ris. Tension	VDL	Comments					4	1414.0	127.01
217.0deg	122.47mt	987.02mt						5	1365.8	130.18
								6	1389.9	131.09
								7	1393.9	127.01
								8	1389.9	127.91

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	17:55 hrs 11/09/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	488
				Potable Water	m3	352
				Drill Water	m3	340
				Gel	mt	59
				Cement	mt	45.5
				Barite	mt	0
				KCl Brine	m3	9
				NaCl Brine	m3	0
					m3	117
Mud	m3					
Nor Captain		17:30 hrs 13/09/08	Released to Portland, ETA Ocean Patriot - 14 September	Item	Unit	Quantity
				Fuel	m3	445
				Potable Water	m3	321
				Drill Water	m3	406
				Gel	mt	0
				Cement	mt	0
				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	