

**From : Peter Devine / Rohan Richardson**  
**OIM : Rod Dotson**

### Well Data

Country	Australia	Measured Depth	1875.0m	Current Hole Size	311mm	AFE Cost	\$19,265,000
Field		TVD	1748.3m	Casing OD	340mm	AFE No.	5738085
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	642.2m	Daily Cost	\$802,849
Rig	Ocean Patriot	Days from spud	17.71	Shoe TVD	642.2m	Cum Cost	\$18,912,603
Water Depth (LAT)	65.4m	Days on well	18.48	F.I.T. / L.O.T.	/ 2.12sg	Planned TD	2503.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Tagged cement at 1421 m with 6.7 t (15 k lbs) WOB.					
RT-ML	86.9m	Planned Op Kick off cement plug and drill ahead 311 mm (12 1/4") hole.					
Rig Heading	215.0deg						

### Summary of Period 0000 to 2400 Hrs

Picked up cement stinger and RIH on drill pipe to 614 m, slipped and cut drill line. Continued to RIH cement stinger to 1870 m and circulated hole clean. Mixed and pumped cement plug #1 from 1870 m to 1720 m. POOH to 1720 m and circulated bottoms up. Rigged up cement lines and pumped cement plug #2 from 1720 m to 1570 m. POOH to 1570 m and circulated bottoms up. Made up cement lines and pumped cement plug #3 from 1570 m to 1420 m. POOH to 1320 m and circulated bottoms up. Continued to POOH and laid out cement stinger. Held pre job safety meeting and rigged up to handle BHA. Made up and RIH directional BHA to 52 m and performed shallow test, ok.

### Formations

Name	Top (MD)	Top (TVD)	Comment
K85 Unconformity	1783.0m	1673.6m	38.6m low
Waarre A	1792.0m	1683.1m	48.1m low
Eumeralla Formation	1820.0m	1705.2m	43.2m low
Total Depth	1875.0m	1748.0m	Drilled an extra 5m of rathole on 30th Jul 08 to accommodate FEWD.

### Operations For Period 0000 Hrs to 2400 Hrs on 01 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	TI	0000	0130	1.50	1875.0m	Picked up centralised 127 mm (5") cement mule shoe. RIH on drill pipe to casing shoe at 614 m.
PA	P	SC	0130	0400	2.50	1875.0m	Slipped and cut 33 m of drill line.
PA	P	RS	0400	0430	0.50	1875.0m	Functioned crown-o-matic, serviced blocks and TDS.
PA	P	TI	0430	0700	2.50	1875.0m	Continued RIH with cement mule shoe from 614 m to 1870 m.
PA	P	CHC	0700	0800	1.00	1875.0m	Circulated bottoms up and held pre job safety meeting.
PA	P	CMP	0800	0900	1.00	1875.0m	Made up elevator cementing sub with FOSV and low torque valve to drill pipe and attached cement lines. Lined up cement unit and pumped 0.8 m3 (5 bbls) of drill water. Closed low torque and P/ Tested cement lines to 10.3 MPa (1500 psi) for 5 mins, ok. Pumped 1.6 m3 (10 bbls) of drill water, mixed and pumped 13.6 m3 (86 bbls) of 1.9 sg (15.8 ppg) class G slurry, 466 sacks. Pumped 0.3 m3 (2 bbls) of drill water and displaced with 14.6 m3 (92 bbls) of mud.
PA	P	TO	0900	0930	0.50	1875.0m	POOH from 1870 m to 1720 m
PA	P	CHC	0930	1030	1.00	1875.0m	Circulated bottoms up and held pre job safety meeting.
PA	P	CMP	1030	1130	1.00	1875.0m	Made up elevator cementing sub with FOSV and low torque valve to drill pipe and attached cement lines. Lined up cement unit and pumped 0.8 m3 (5 bbls) of drill water. Closed low torque and P/ Tested cement lines to 10.3 MPa (1500 psi) for 5 mins, ok. Pumped 1.6 m3 (10 bbls) of drill water, mixed and pumped 13.6 m3 (86 bbls) of 1.9 sg (15.8 ppg) class G slurry, 466 sacks. Pumped 0.3 m3 (2 bbls) of drill water and displaced with 13.5 m3 (85 bbls) of mud.
PA	P	TO	1130	1200	0.50	1875.0m	POOH from 1720 m to 1570 m.
PA	P	CHC	1200	1300	1.00	1875.0m	Circulated bottoms up and held pre job safety meeting.
PA	P	CMP	1300	1400	1.00	1875.0m	Made up elevator cementing sub with FOSV and low torque valve to drill pipe and attached cement lines. Lined up cement unit and pumped 0.8 m3 (5 bbls) of drill water. Closed low torque and P/ Tested cement lines to 10.3 MPa (1500 psi) for 5 mins, ok. Pumped 7.1 m3 (45 bbls) of mud push ahead of cement, mixed and pumped 13.6 m3 (86 bbls) of 2.0 sg (16.5 ppg) class G slurry, 510 sacks. Pumped 1.1 m3 (7 bbls) of mud push behind the cement and displaced with 11.1 m3 (70 bbls) of mud.
PA	P	TO	1400	1500	1.00	1875.0m	POOH from 1570 m to 1320 m.
PA	P	CHC	1500	1600	1.00	1875.0m	Circulated bottoms up and discharged 4.3 m3 (27 bbls) of cement contaminated mud.
PA	P	TO	1600	1930	3.50	1875.0m	POOH from 1320 m to surface and laid out mule shoe.
PA	P	HBHA	1930	2000	0.50	1875.0m	Made up floor to handle BHA
PA	P	HBHA	2000	2400	4.00	1875.0m	Held pre job safety meeting and made up 311 mm (12 1/4") BHA to 52 m.

### Operations For Period 0000 Hrs to 0600 Hrs on 02 Aug 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	HBHA	0000	0100	1.00	1875.0m	Continued to make up BHA from 52 m to 183 m.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	TI	0100	0230	1.50	1875.0m	Continued to RIH from 183 m to 616 m
PH	P	RS	0230	0300	0.50	1875.0m	Serviced TDS and blocks, primed mud pump #2 after changing out swabs.
PH	P	CMD	0300	0345	0.75	1875.0m	Flushed choke and kill lines with fresh 1.3 sg (11.1 ppg) mud
PH	P	TI	0345	0500	1.25	1875.0m	Continued to RIH from 616 m to 1328 m.
PH	P	WIN	0500	0600	1.00	1875.0m	Made up TDS and washed from 1328 m to 1420 m. Tagged cement at 1421 m with 6.7 t (15 klbs) WOB.

WBM Data		Cost Today \$ 3563							
Mud Type:	KGLY	API FL:	4cm <sup>3</sup> /30m	KCl:	8%	Solids:	11.17	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	1mm	Hard/Ca:	880	H2O:	89%	PV:	0.022Pa/s
Time:	21:00	HTHP-FL:		MBT:	0.8	Oil:		YP:	0.168MPa
Weight:	1.33sg	HTHP-Cake:		PM:	0.2	Sand:	0.2	Gels 10s:	0.048
Temp:	35.0C°			PF:	0.04	pH:	9.5	Gels 10m:	0.096
						PHPA:	Oppb	Fann 003:	10
								Fann 006:	13
								Fann 100:	36
								Fann 200:	46
								Fann 300:	57
								Fann 600:	79
Comment	Pre treated active system with 0.25 ppb Sodium bicarbonate. Dumped 233 bbls of contaminated mud after cement plugs and 77 bbls from sand traps. 18 bbl losses were seen during tripping operations. Screened down shakers to 84 mesh prior to cement job.								

Bulk Stocks						Personnel On Board		
Name	Unit	In	Used	Adjust	Balance	Company	Pax	
Barite	MT	0	11	0	-23.0	Santos	4	
Gel	MT	0	0	0	53.0	Santos	2	
Cement	MT	0	50	0	90.0	DOGC	45	
Fuel	M3	0	19.3	0	525.0	ESS	8	
Potable Water	M3	28	29	0	359.0	BHI	6	
Drill Water	M3	0	82	0	782.0	Dowell	2	
						Rheochem	2	
						TMT	3	
						Anadrill	2	
						Anadrill	3	
						Schlumberger Wireline	4	
						MI Swaco	1	
						Cameron	1	
						DOGC Service	7	
						<b>Total</b>	<b>90</b>	

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	130.90/130.90	As per cement data.
340mm	2.12 /	642.20/642.20	Class G lead slurry to surface. Class G tail TOC at ± 492m (150m).

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	27 Jul 2008	5 Days	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations 1 and 2 in 10 minutes.
Fire Drill	1	27 Jul 2008	5 Days	Simulated a fire on the stbd crane at 10:22. Fire under control at 10:30 (full lifeboat muster also completed).
First Aid	1	31 Jul 2008	1 Day	IP was bending down to pick up his shoes in his room when he hit his head on the desk. Very minor laceration under his left eye.
First Aid	1	31 Jul 2008	1 Day	IP was working on making up well test gear when the piece he was tightening slipped and caught his finger. Very minor laceration.
JHA	29	01 Aug 2008	0 Days	Drill crew - 15 Deck Crew - 13 Welder - 1
Lost Time Incident	1	30 May 2008	63 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	24 Jul 2008	8 Days	IP sustained a deep cut to his left leg. This was caused by his foot slipping off a timber support and hitting his shin. The IP will be flown out on crew chopper. Note: IP received 7 stitches and has been given clearance to return to work. Resumed duties 25th Jul 08.
Pre-Tour Meeting	4	01 Aug 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	8	01 Aug 2008	0 Days	6 x hot work permits 2 x cold work permits
Rig Inspection	1	02 Jul 2008	30 Days	Conducted hazard hunt checking for flammable liquids in containers secured properly and in correct place with signage.
Safety Audit	1	30 Jul 2008	2 Days	EHSMS audit conducted onboard.
Safety Meeting	3	27 Jul 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Tim Stone. Discussed fire and abandonment drill and muster times. Reviewed open water Rescue techniques.
Santos Induction	1	01 Aug 2008	0 Days	Completed Santos induction with new personnel to site.
Stop Observations	71	01 Aug 2008	0 Days	40 - Safe 31- Corrective Actions
STOP Tour	1	31 Jul 2008	1 Day	Diamond supervisor audits.
Trip/Pit Drill	1	31 Jul 2008	1 Day	Sounded the alarm on the drill floor for a kick drill. Crew reacted and had the FOSV in place within 35 seconds.

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Fius Siregar			
Available	408.9m <sup>3</sup>	Losses	54.3m <sup>3</sup>	Equip.	Descr.	Mesh Size	Hours
Active	77.4m <sup>3</sup>	Downhole		Centrifuge 1	MI SW FVS 518		0
Mixing	0.0m <sup>3</sup>	Surf+ Equip	5.0m <sup>3</sup>	Centrifuge 1	MI SW FVS 518		0
Hole	154.4m <sup>3</sup>	Dumped	49.3m <sup>3</sup>	Centrifuge 2	MI SW FVS 518		0
Slug		De-Sander		Centrifuge 2	MI SW FVS 518		0
Reserve	125.6m <sup>3</sup>	De-Silter		Shaker 3	Bem 650 - MI SW	10/20/230/230/230/230	16
Kill		Centrifuge	0.0m <sup>3</sup>	Shaker 3	Bem 650 - MI SW	20 / 10 84 HC x 4	11
Storage	51.5m <sup>3</sup>			Shaker 4	Bem 650 - MI SW	10/20/230/230/230/230	16
				Shaker 4	Bem 650 - MI SW	20 / 10 84 HC x 4	11
				Shaker 5	Bem 650 - MI SW	10/20/230/230/230/230	16
				Shaker 5	Bem 650 - MI SW	20 / 10 84 HC x 4	11
				Shaker 6	Bem 650 - MI SW	10/20/230/230/230/230	16
				Shaker 6	Bem 650 - MI SW	20 / 10 84 HC x 4	11

Comment #2 Centrifuge repaired and back in the system.

Marine								Rig Support		
Weather check on 01 Aug 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	52km/h	240.0deg	1006.00bar	12.0C°	2.0m	240.0deg	7sec	1	1382.9	93.89
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
1.0deg	0.5deg	1.00m	4.0m	225.0deg	14sec					
Rig Dir.	Ris. Tension	VDL	Comments							
215.0deg	124.74mt	1034.65mt								
								8	1414.0	115.21

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		22:00 30 Jul 08	Portland	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>
				Fuel	m3	515
				Potable Water	m3	146
				Drill Water	m3	450
				Cement	mt	43.5
				Barite	mt	84
				Gel	mt	59
				KCl Brine	m3	140
				NaCl Brine	m3	185
				Mud	m3	127
Nor Captain	22:00 30 Jul 08		On location.	<b>Item</b>	<b>Unit</b>	<b>Quantity</b>
				Fuel	m3	496.7
				Potable Water	m3	355
				Drill Water	m3	193
				Cement	mt	38
				Barite	mt	84
				Gel	mt	42
				Mud	m3	0
				KCl Brine	m3	0

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
GYJ	11:18	Ocean Patriot		7	
GYJ	11:37	Essendon		16	