

From : Chris Roots / Rohan Richardson
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	2517.0m	Current Hole Size	216mm	AFE Cost	\$39,506,831
Field		TVD	1655.0m	Casing OD	244mm	AFE No.	5746046
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1936.0m	Daily Cost	\$808,290
Rig	Ocean Patriot	Days from spud	13.12	Shoe TVD	1680.0m	Cum Cost	\$38,118,828
Water Depth (LAT)	65.4m	Days on well	13.13	F.I.T. / L.O.T.	/	Planned TD	2503.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Pick up and make up upper completion sub assembly.				
RT-ML	86.9m	Planned Op	RIH upper completion and land out tubing hanger in XT.				
Rig Heading	215.0deg						

Summary of Period 0000 to 2400 Hrs

Ran lower completion on drill pipe from 1382 m to setting depth. Set packer, pressure test same and dropped ball to open circulating sub. Displaced well to brine and POOH, laid out running tools. Made up and ran XT bore protector retrieval tool and RIH to 91 m.

Formations

Name	Top (MD)	Top (TVD)	Comment
K85 Unconformity	1783.0m	1673.6m	
Waarre A	1792.0m	1683.1m	

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

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CTB	P	RIC	0000	0345	3.75	2517.0m	Continued to RIH sand screens on drill pipe from 1382 m to setting depth at 2506 m
CTB	P	RIC	0345	0415	0.50	2517.0m	Made up single joint of drill pipe for space out. Weights on final stand: Pick up 115 t (260 klbs), slack off 80 t (180 klbs), string weight 106 t (240 klbs)
CTB	P	RIC	0415	0430	0.25	2517.0m	Held pre job safety meeting for setting packer.
CTB	TP (RE)	RIC	0430	0530	1.00	2517.0m	Attempted to break circulation with cement unit via cement line. High and inconsistent pressures observed due to potential cement blockage in line. Lined up cement unit to test line and broke circulation, ok.
CTB	P	RIC	0530	0545	0.25	2517.0m	Dropped SC-1R setting ball
CTB	P	RIC	0545	0600	0.25	2517.0m	Spaced out to packer setting depth compensating TDS. String weight of 106 t (240 klbs).
CTB	P	RIC	0600	0630	0.50	2517.0m	Commenced circulating with cement unit at 318 l/min (2 bpm) with 1.7 MPa (240 psi).
CTB	TP (OTH)	RIC	0630	0730	1.00	2517.0m	Unable to seat ball. Attempted to pick up and drop Bakelite ball, unsuccessful with 17.8 t (40 klbs) overpull. Set back down to neutral and attempted to work string free, unsuccessful.
CTB	TP (OTH)	RIC	0730	0745	0.25	2517.0m	Troubleshoot forward plan with drilling department.
CTB	TP (OTH)	RIC	0745	0830	0.75	2517.0m	Set slips with 35.5 t (80 klbs) slack off to allow slips to be pulled. Broke connection and dropped Bakelite setting ball.
CTB	TP (OTH)	RIC	0830	0915	0.75	2517.0m	Commenced chasing Bakelite ball with cement unit, immediate pressure increase observed indicating first ball seated pumped 0.3 m3 (2 bbls) and pressured up to 17.2 MPa (2500 psi), packer setting pressure.
CTB	P	RIC	0915	0930	0.25	2517.0m	Picked up and set down to confirm packer setting.
CTB	P	RIC	0930	0945	0.25	2517.0m	Lined up cement unit to casing annulus via kill line. Closed annular preventer and pressured up annulus as per procedure to unlatch running tool.
CTB	TP (OTH)	RIC	0945	1045	1.00	2517.0m	Attempted to release running tools unsuccessful with 22 t (50 klbs) overpull. Attempted to release running tools through changing release parameters, (pressure and slack off), unsuccessful. Attempted secondary release method, (pick up and rotate to right). Torque immediately spiked to 13.6 Nm (10 kft.lbs).
CTB	P	RIC	1045	1100	0.25	2517.0m	Released running tools with 33 t (75 klbs) overpull. 89 t (200 klbs) slack off weight, 17.2 MPa (2500 psi) observed indicating unlatch.
CTB	P	RIC	1100	1115	0.25	2517.0m	Laid out stand and spaced out for pipe ram closure.
CTB	TP (OTH)	RIC	1115	1145	0.50	2517.0m	Waited on cementer - crew change.
CTB	TP (OTH)	RIC	1145	1230	0.75	2517.0m	Attempted to shear ball seat to 31 MPa (4500 psi), unsuccessful. Cycled pressure in attempt to shear ball seat, unsuccessful.
CTB	TP (OTH)	RIC	1230	1315	0.75	2517.0m	Lined up cement unit to reverse circulate and attempted to dislodge ball and clean seat. Returns observed, 2 m3 (13 bbls) pumped at 556 l/min (3.5 bbls/min).
CTB	P	RIC	1315	1330	0.25	2517.0m	Lined up cement unit to string, commenced pumping and seated ball with 26 MPa (3700 psi).
CTB	P	RIC	1330	1415	0.75	2517.0m	Pressure test lower completion packer to 4000 psi.
CTB	P	RIC	1415	1430	0.25	2517.0m	Opened pipe rams, broke connection, dropped SABS opening ball and remade connection.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CTB	P	RIC	1430	1445	0.25	2517.0m	Pumped ball to seat with 397 l/min (2 bpm). Ball seat sheared at 5.5 MPa (800 psi)
CTB	P	SM	1445	1500	0.25	2517.0m	Held pre job safety meeting for brine displacement.
CTB	P	DIS	1500	1530	0.50	2517.0m	Pumped 6.4 m3 (40 bbls) hi-vis sweep, 7.9 m3 (50 bbls) detergent sweep, 9.5 m3 (60 bbls) hi-vis sweep.
CTB	P	DIS	1530	1645	1.25	2517.0m	Continued to circulate out sweep with completion brine. Displace choke line, kill line and booster to brine. Final NTU reading 538.
CTB	P	DIS	1645	1730	0.75	2517.0m	Brine to surface, shut down Brine pumps and flushed surface lines.
CTB	P	TO	1730	2200	4.50	2517.0m	POOH lower completion work string
CTB	P	HT	2200	2215	0.25	2517.0m	SABS tool, SC-1R tool at surface. Observed ringing and slight burr, approx 0.75 m into tail pipe.
CTB	P	HT	2215	2230	0.25	2517.0m	Rigged up to pull XT bore protector.
CTB	P	HT	2230	2300	0.50	2517.0m	Picked up and made up Well Protector tool and RIH.
CTB	P	HT	2300	2315	0.25	2517.0m	Picked up and made up XT bore protector retrieval tool.
CTB	P	HT	2315	2330	0.25	2517.0m	Pulled diverter bag to allow running tool passage.
CTB	P	TI	2330	2400	0.50	2517.0m	Continued to RIH to 91 m.

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

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CTB	P	WCU	0000	0015	0.25	2517.0m	Dropped 63.5 mm (2.5") DABS open activation ball,
CTB	P	WCU	0015	0045	0.50	2517.0m	Made up TDS and pumped ball to seat, sheared at 16.5 MPa (2400 psi).
CTB	P	WCU	0045	0100	0.25	2517.0m	Commenced jetting bore protector with 1590 l/min (10 bpm).
CTB	P	HT	0100	0115	0.25	2517.0m	Land out bore protector. Set down with 4.5 t (10 klbs) and marked index line on pipe.
CTB	P	HT	0115	0130	0.25	2517.0m	Picked up 4.5 t (10 klbs) increments to 71 t (160 klbs). Bore protector released with 11 t (25 klbs) overpull.
CTB	P	WCU	0130	0145	0.25	2517.0m	Commenced jetting XT hanger seating profile and stack at 1271 l/min (8 bpm).
CTB	P	RRC	0145	0230	0.75	2517.0m	POOH XT bore protector retrieval string
CTB	P	RCM	0230	0245	0.25	2517.0m	Broke and laid out XT bore protector, running tool and DABS tool.
CTB	P	RCM	0245	0315	0.50	2517.0m	Pull Expro umbilical down to deck and connect to LLSA.
CTB	P	RS	0315	0345	0.50	2517.0m	Serviced TDS and blocks.
CTB	P	RCM	0345	0415	0.50	2517.0m	Rigged up to run upper completion assembly.
CTB	P	SM	0415	0515	1.00	2517.0m	Held pre job safety meeting prior running completions.
CTB	P	RIC	0515	0530	0.25	2517.0m	Picked up and made up mule shoe in rotary.
CTB	TP (VE)	TI	0530	0600	0.50	2517.0m	(IN PROGRESS) Picked up and made up 178 mm (7") JFE to mule shoe. Tongs slipped, minimum torque on shoulder not achieved. Attempted to back out and re-make, unable to back out. Troubleshoot power tong, insufficient pressure supplied by power unit, max torque available 28.5 kNm (21, 000 ft.lbs). Changed out power pack for back up, unable to start same. Reconnected primary, substituted Easy Glide type thread lubricant for Jet Lube Seal Guard ECF and lowered friction factor for make up torque.

WBM Data

Cost Today \$ 14222

Mud Type:	WFW	API FL:	4cm ³ /30m	KCl:	0%	Solids:	2.76	Viscosity:	0sec/L
Sample-From:	Pit	Filter-Cake:	0mm	Hard/Ca:	440	H2O:	97%	PV:	0.011Pa/s
Time:	15:30	HTHP-FL:		MBT:	0.3	Oil:		YP:	0.144MPa
Weight:	1.15sg	HTHP-Cake:		PM:	0.2	Sand:	0.2	Gels 10s:	0.043
Temp:				PF:	0.1	pH:	8.5	Gels 10m:	0.057
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	11
								Fann 100:	29
								Fann 200:	36
								Fann 300:	41
								Fann 600:	52

Comment Built 150 bbls of 9.6 ppg NaCl brine. Transferred 100 bbls of brine to pit #1 and built 100 bbls of hi-vis with 2.9 ppb Flowzan. Transferred 70 bbls of brine to the slug pit and built 70 bbls of detergent pill with Dirtmagnet. NTU on pit 4 and 5 prior to displacement were 48 and 140 respectively. Transferred 290 bbls of DIF fluids from solids control pits to the boat. Final NTU reading on the brine was 538.

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	0	0	84.0	
Gel	mT	0	0	0	53.0	
Cement	mT	0	0	0	70.0	
Fuel	m3	0	10.8	0	460.0	
Potable Water	m3	33	33	0	307.0	
Drill Water	m3	0	54	0	541.0	

Personnel On Board		
Company	Comment	Pax
Santos		8
DOGC		41
ESS		8
BHI		2
Dowell		1
Rheochem		1
TMT		6
Premium Casing Services		4
Expro		4
Baker Oil Tools		2
Other		1
Halliburton		1
Other		1
Other		3
Cameron		4
DOGC Service		5
Schlumberger Testing		6
Other		1
Total		99

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).
244mm	/	1936.00/	

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	10 Aug 2008	5 Days	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations 1 and 3 in 6 minutes post fire drill completed.
Additional Supervision	1	15 Aug 2008	0 Days	Night SOC positioned filled by Phil Dennis on the 15.08.08.
Fire Drill	1	03 Aug 2008	12 Days	Simulated a fire in the main store room at 10:32. Fire under control at 10:42.
First Aid	1	13 Aug 2008	2 Days	During the relocation of a container on the port pipe deck, IP located hand on corner of a container to assist another roustabout to steady for placement. IP looked at the base of the container when it swung and caught his hand between the container and wall resulting in a bruised hand.
JHA	38	15 Aug 2008	0 Days	Drill crew - 16 Deck Crew - 19 Welder - 3
Lost Time Incident	1	30 May 2008	77 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	2 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	15 Aug 2008	0 Days	Discussed upcoming operations and associated hazards prior to each shift starting.
PTW Issued	17	15 Aug 2008	0 Days	8 x hot work permits 9 x cold work permits
Rig Inspection	1	10 Aug 2008	5 Days	Conducted Santos STOP audit on portside and starboard side pipe racks. Multiple lifts have been conducted and the deck crew manage to maintain good housekeeping with only a few pieces of dunnage lying loose. This was put aside. Some containers were out of place however, crane was waiting on boat to offload immediately. Good job to deck crew and crane operator.
Safety Audit	1	30 Jul 2008	16 Days	EHSMS audit conducted onboard.
Safety Meeting	3	10 Aug 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card. Discussed fire and abandonment drill and muster times. Reviewed safety alerts from other DODI facilities. Reviewed procedure for fire abandonment.
Safety Meeting	1	13 Aug 2008	2 Days	Held 'Time Out for Safety' meeting on the rig floor with senior DODI and Santos personnel, drill crew, deck crew and third party. Reviewed 2 incidents which occurred on the previous tour and associated safety outcomes. Opened the floor and discussed safe acts and feedback.
Santos Induction	1	15 Aug 2008	0 Days	Inducted new personnel to site after Diamond rig wide induction and walk around.
Stop Observations	45	15 Aug 2008	0 Days	25 - Safe 20 - Corrective Actions
STOP Tour	1	09 Aug 2008	6 Days	Submitted Diamond supervisor audits.
Trip/Pit Drill	1	09 Aug 2008	6 Days	Sounded the alarm on the drill floor for a kick drill. Shut in DP, spaced out and closed BOP's. Conducted choke drill by circulating fluid through choke manifold

Shakers, Volumes and Losses Data				Engineer : Kelly Jericho			
Available	239.5m ³	Losses	100.5m ³	Equip.	Descr.	Mesh Size	Hours
Active	58.0m ³	Downhole		Centrifuge 1	MI SW FVS 518		0
Mixing	0.0m ³	Surf+ Equip	0.0m ³	Centrifuge 2	MI SW FVS 518		0
Hole	105.4m ³	Dumped	100.5m ³	Shaker 3	Bem 650 - MI SW	40 / 20 230 HC x 4	5
Slug		De-Sander		Shaker 4	Bem 650 - MI SW	40 / 20 230 HC x 4	5
Reserve	28.9m ³	De-Silter		Shaker 5	Bem 650 - MI SW	40 / 20 230 HC x 4	5
Kill		Centrifuge		Shaker 6	Bem 650 - MI SW	40 / 20 230 HC x 4	5
Storage	47.2m ³						

Marine								Rig Support		
Weather check on 15 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	46km/h	210.0deg	1015.00bar	11.0C°	1.5m	210.0deg	5sec	1	1382.9	127.91
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.5deg	0.4deg	1.00m	3.5m	220.0deg	13sec					
Rig Dir.	Ris. Tension	VDL		Comments				2	1382.9	130.18
215.0deg	124.74mt	906.28mt					3	1399.9	136.08	
								4	1376.8	132.00
								5	1410.9	135.17
								6	1421.0	130.18
								7	1410.9	120.20
								8	1414.0	123.83

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	15:30 hrs 14.08.08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	449
				Potable Water	m3	245
				Drill Water	m3	410
				KCl Brine	m3	140
				NaCl Brine	m3	19
				Mud	m3	95.5
				Cement	mT	43.5
				Barite	mT	84
Nor Captain		21:00 hrs 14.08.08	Portland. ETA Ocean Patriot, 19:00 hrs 16/08/08	Item	Unit	Quantity
				Fuel	m3	345.5
				Potable Water	m3	370
				Drill Water		193
				Cement	mT	38
				Gel	mT	42
				Mud	m3	224
				Barite	mT	70

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
GYJ	11:21	Ocean Patriot		11
GYJ	11:34	Essendon		10