

From : Peter Devine / Nathan Peri
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	2648.0m	Current Hole Size	216mm	AFE Cost	\$41,512,831
Field		TVD	1724.7m	Casing OD	244mm	AFE No.	5746043
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	2042.7m	Daily Cost	\$1,513,840
Rig	Ocean Patriot	Days from spud	58.87	Shoe TVD	1709.9m	Cum Cost	\$64,174,031
Water Depth (LAT)	66.3m	Days on well	19.88	F.I.T. / L.O.T.	2.20sg / 2.20sg	Planned TD	2627.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued to displace the tubing to diesel at 238 L/min, 0.8 MPa (1.5bbls/min, 120psi).				
RT-ML	87.8m	Planned Op	Complete displacing the tubing to diesel. Close the XT annulus valve, pressure up system and set the Packer. Pressure test the annulus. Pressure up and lock open the MC-FLCV Flapper. Flow test the well.				
Rig Heading	217.0deg						

Summary of Period 0000 to 2400 Hrs

Completed running the 244mm (9-5/8") landing string. Picked up and made up the Flowhead and slickline PCE. Lifted Flowhead assembly onto the landing string.
 Landed the Tubing Hanger and completed communication checks and an overpull.
 Function tested ESD system.
 Complete pressure tests on TRSV and PDHG. Flushed across the surface lines from the cement unit to the well test separator.

Formations

Name	Top (MD)	Top (TVD)	Comment
Timboon	1214.5m	1202.4m	0.2 L
Paaratte	1413.0m	1380.0m	2.3 H
Skull Creek	1665.0m	1558.6m	5.4 H
Waarre A	2040.0m	1709.5m	5.0 H

Operations For Period 0000 Hrs to 2400 Hrs on 22 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	RIC	0000	0115	1.25	2648.0m	Held JSA with rig crew for RIH landing string. Chain on drive for Expro umbilical reel broke - pin sheared. Shutdown to replace sheared pin. Drive functioned briefly before a second pin sheared. Spooling out by hand.
PH	P	RIC	0115	0215	1.00	2648.0m	Continued running the 244mm (9-5/8") landing string. Taped the umbilical to the LS.
							SIMOPs: Check rig positioning prior to running through flex joint: Flex jt 0.25 deg Fwd-Stbd @ 230 deg. LRMP & BOP both 0 deg.
PH	P	RIC	0215	0300	0.75	2648.0m	MU lubricator valve (LV) to landing string. Secured umbilical and MU hydraulic lines to the LV.
PH	P	RIC	0300	0400	1.00	2648.0m	Pressure tested LV hydraulic line. Pulled master bushings and RIH LV. MU pup joint #3 as per tally. Set in slips.
PH	P	RIC	0400	0530	1.50	2648.0m	Held JSA for rigging up bails and lifting Flowhead. Removed 5m (15ft) bails to install TD pad eye sub and air hoist. Reinstalled 5m (15ft) bails and connected the 15.2m (50ft) bails with 85t (187 klbs) shackles.
PH	P	RIC	0530	0600	0.50	2648.0m	Picked up the Flowhead and positioned on the drill floor. Connected 15m (45ft) bails to same. Rigged up tuggers to the Flowhead to stabilize while lifting.
PH	P	RIC	0600	0730	1.50	2648.0m	Lifted Flowhead into vertical using tuggers. MU Flowhead handling pup to landing string. Cleared rig floor to pick up Coflexip.
PH	P	RIC	0730	1000	2.50	2648.0m	Coflexip connected to Flowhead FWV and well test stand pipe, Cement unit lined up to KWV.
PH	P	RIC	1000	1400	4.00	2648.0m	Held JSA for picking up Slickline PCE. Rigged up slickline PCE with toolstring installed.
PH	P	RIC	1400	1445	0.75	2648.0m	Held JSA for testing Landing string and surface valves. Broke circulation through completion string. Closed LV and opened well test choke and flushed through to flare booms. Closed well test choke and filled slickline PCE to NV's. Closed the same.
PH	TP	RIC	1445	1600	1.25	2648.0m	Pressured up to 3.4MPa (500psi), observed leak. Trouble shooted and discovered leak was across a stand pipe manifold valve that was known to leak. Alternative valve closed and held pressure.
PH	P	RIC	1600	1630	0.50	2648.0m	Landing String Pressure Test conducted above UBV to 3.4MPa (500psi) 5min then 24.1MPa (3,500psi) 10min.
PH	P	RIC	1630	1730	1.00	2648.0m	S/Line PCE and SSV pressure tested against LV to 3.4MPa (500psi) 5min then 31.0MPa(4,500psi) 10min
PH	P	RIC	1730	1830	1.00	2648.0m	MD 290 klb. Landed Tubing Hanger, observed landing string rotate as helix engaged.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	RIC	1830	1930	1.00	2648.0m	Set down 135klb MD. Locked TH. Took overpull of 50 klb (MD 340 klb). Slacked off, keeping string 25klb in tension (MD 190 klb).
PH	P	RIC	1930	2130	2.00	2648.0m	Opened AAV, closed AMV. Opened TRSV with 34.4MPa (5000 psi). Closed 244mm (9-5/8") rams. Opened lower kill line valves. Broke circulation from cement unit to confirm valve line up, taking returns to trip tank.
PH	P	RIC	2130	2300	1.50	2648.0m	Connected Schlumberger hydraulic control line and dump line up to FWV. Pressured up control line to 13.7MPa (2,000 psi) opening pressure and removed lock open cap from FWV. Commenced ESD testing of FWV and SSD valve from ESD panels. Pressure tested beneath 244mm (9-5/8") pipe rams against TH seals, XT valves to 1.3MPa (200 psi) 5mins and 27.5MPa (4000 psi) 10 mins - good tests. Confirmed no pressure on CSM line during test. SIMOPs: Completed testing ESD valve function and timing.
PH	P	RIC	2300	2400	1.00	2648.0m	Applied 48.2MPa (7,000 psi) control line pressure to TRSV, bled off to 0 psi. Opened TRSV and pressure tested control line to 48.2MPa (7,000 psi) for 15 mins - good test. Reduced pressure to 34.4MPa (5,000 psi) to keep TRSV open. ROV engaged the PDHG electrical penetrator to TH, 13.8 turns clockwise at 54 fth. Conducted PDHG continuity tests - 18.7MPa (2722 psi), 73 deg C, 12.7 V, 14 mA. Pressure tested CSM line to 34.4MPa (5,000 psi), 10 mins - good test. SIMOPs: Closed LV. Completed dynamic test of gas lines for starboard and port flare booms. Schlumberger observed leak in elbow on starboard flare boom. ROV closed CSM needle valve. Installed marine growth cover on CSM and electrical penetrator.

Operations For Period 0000 Hrs to 0600 Hrs on 23 Oct 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	RIC	0000	0100	1.00	2648.0m	Closed KWV, closed kill line valves. Crew change. Waited to conduct JSA for RIH slickline with new crew. Could not maintain 20.6MPa (3000 psi) line pressure on LV open line after opening LV. Trouble shoot leak. Could not find leak at surface. Confirmed valve was cycling fully opened and fully closed. Proceeded with operations. SIMOPs: rigged up hydraulic lines for slickline PCE
PH	P	RIC	0100	0300	2.00	2648.0m	Conducted JSA for RIH slickline. RU sheave. B/out sub above BOPs, MU TH isolation sleeve retrieval tool to toolstring and PU into lubricator. MU lubricator. Closed well test choke manifold, closed MV, opened SV and lubricator needle valves, opened KWV. Flushed through from cement unit until returns seen through lubricator needle valve. Pressure tested lubricator against MV and choke manifold to 1.3MPa (200 psi) 5 mins, 34.8MPa (5000 psi) 5mins - good test. Bled off pressure.
PH	P	RIC	0300	0400	1.00	2648.0m	Opened MV. RIH with TH isolation sleeve retrieval tool on slickline. Latched TH Iso sleeve and jarred out. POH. Closed the MV and disconnected slickline lubricator. Laid out the GS P/Tool and TH Iso sleeve. Pulled slickline tools back into the lubricator and clamped the wire, slacked off wire and made the lubricator up.
PH	P	RIC	0400	0430	0.50	2648.0m	Closed the SV. Lined out the cement unit to the well test separator. Pumped five bbls of diesel across with brine returns noted at the WTX.
PH	P	RIC	0430	0600	1.50	2648.0m	Closed the test choke and opened the MV. Lined up returns to the mud pits. Commenced displacing to diesel.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance	Comment
Barite	mT	0	0	0	54.0	
Gel	mT	0	0	0	31.0	
Cement	mT	0	0	0	30.0	
Fuel	m3	0	9	0	455.0	
Potable Water	m3	22	21	0	387.0	
Drill Water	m3	0	13	0	607.0	

Personnel On Board		
Company	Comment	Pax
Santos		6
DOGC		43
ESS		8
BHI		1
Dowell		2
TMT		6
Cameron		4
Premium Casing Services		2
Baker Oil Tools		1
Expro		2
WFT		1
Schlumberger Testing		13
Halliburton		1
Expro		4
Production Quest		1
Rig Cool		2
		Total 97

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	19 Oct 2008	3 Days	Abandon drill completed after the simulated fire drill was under control. A full muster was achieved in 12 minutes.
Environmental Audit	1	03 Sep 2008	49 Days	Rig visit by DPI. Conducted an environmental audit on Santos operation.
Fire Drill	1	19 Oct 2008	3 Days	Simulated a fire in the well test area. Alarm sounded at 10:04 hrs, emergency under control at 10:14 hrs. Rescue and fire teams discussed scenario and resolution.
First Aid	1	16 Oct 2008	6 Days	IP reported that his left eye was irritable and itchy. The eye was red presumably with rubbing with hand.
First Aid	1	22 Oct 2008	0 Days	IP cut his hand with a knife when cutting through a cable tie. The cut was about 1.5in long and 1/8" deep. IP was treated with anti septic cream and bandaged. No stitches required.
First Aid	1	22 Oct 2008	0 Days	IP was undoing a tight shackle bolt. When the bolt came free, the IP's hand went forward hitting the steel derrick beam. The IP's hand has slight swelling with no discolouring to the knuckle area of the right hand.
JHA	28	22 Oct 2008	0 Days	Drill crew - 9 Deck Crew - 15 Welder - 0 Mechanic - 0 Electrician - 1 3rd Party - 3 Subsea- 0
Lost Time Incident	1	30 May 2008	145 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	70 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.
Near Miss	1	16 Oct 2008	6 Days	Adjustable wrench fell from open top container while backloading to supply vessel and landed on deck.
Near Miss	1	18 Oct 2008	4 Days	While lifting the annular off the hercules frame, it caught the side and fell off landing on the deck (1m fall). No injuries to personnel or equipment.
Pre-Tour Meeting	4	22 Oct 2008	0 Days	Discussed the next 24 hr operation. Running the completion.
PTW Issued	16	22 Oct 2008	0 Days	6 x hot work 10 x cold work
Safety Audit	1	29 Jul 2008	85 Days	Santos environment audit conducted.
Safety Audit	1	30 Jul 2008	84 Days	EHSMS audit conducted onboard.
Safety Meeting	3	19 Oct 2008	3 Days	Reviewed stop cards,near miss incidents for the week. Santos Stop Card of the week: Matt Davis and Brendan Palmer. Discussed fire drill and abandonment muster.
Santos Induction	0	22 Oct 2008	0 Days	Inducted new personnel to site after DODI rig wide induction.
Stop Observations	44	22 Oct 2008	0 Days	33 - Safe 11- Corrective Actions
STOP Tour	2	22 Oct 2008	0 Days	Submitted by Diamond supervisor Stop audit.

Shakers, Volumes and Losses Data				Engineer :			
Available	63.6m ³	Losses	0.0m ³	Equip.	Descr.	Mesh Size	Hours
Active	63.6m ³	Downhole					
Mixing		Surf+ Equip	0.0m ³				
Hole		Dumped					
Slug		De-Sander					
Reserve		De-Silter					
Kill		Centrifuge					
Comment	No mud engineer on the rig.						

Marine								Rig Support		
Weather check on 22 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	46km/h	110.0deg	1032.00bar	12.0C°	1.5m	110.0deg	3sec	1	1353.0	132.00
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.4deg	0.4deg	1.00m	3.0m	240.0deg	12sec					
Rig Dir.	Ris. Tension	VDL		Comments				2	1372.8	130.18
217.0deg	108.86mt	746.61mt					3	1386.8	125.19	
								4	1414.0	126.10
								5	1365.8	116.12
								6	1389.9	118.84
								7	1393.9	135.17
								8	1389.9	110.22

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	23:30 21st Oct 08		On location, running standby.	Item	Unit	Quantity
				Fuel	m3	691
				Potable Water	m3	452
				Drill Water	m3	397
				Gel	mt	59
				Cement	mt	84
				Barite	mt	41
				KCl Brine	bbbl	52
				NaCl Brine	bbbl	0
				bbbl	0	
Nor Captain		23:30 21 Oct 08	Transit to Portland	Item	Unit	Quantity
				Fuel	m3	462
				Potable Water	m3	362
				Drill Water	m3	319
				Gel	mt	42
				Cement	mt	0
				Barite	mt	0
				KCl Brine	bbbl	0
				NaCl Brine	bbbl	0
				bbbl	0	

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BYV	10:52	Ocean Patriot		3	
BYV	11:03	Essendon		6	