



14 Sep 2009

From: Tim Lee / Kevin Monkhouse
To: Iain Robertson

Spikey Beach-1

Well Data							
Country	Australia	MDBRT	2,100.0 m	Cur. Hole Size	12.250 in	AFE Cost	AUD 24,270,065
Field	Spikey Beach	TVDBRT	2,100.0 m	Last Casing OD	13.375 in	AFE No.	09/036
Drill Co.	Diamond Offshore	Progress		Shoe TVDBRT	805.8 m	Daily Cost	AUD 791,293
Rig	Ocean Patriot (semi)	Days From Spud	9.13	Shoe MDBRT	805.8 m	Cum Cost	AUD 10,789,000
Wtr Depth (MSL)	74 m	Days On Well	12.48	FIT/LOT	sg / 1.47 sg		
Datum	21.50 m RT MSL	Planned TD MD	2,062 m	Current Op @ 0600	RIH with 5in mule shoe.		
RT To Seabed	95.5 m	Planned TD TVDRT	2,062 m	Planned Op	Cement abandonment plug #3. Displace riser to seawater. Pull BOP.		

Summary of Period 0000 to 2400 Hrs
Laid out Schlumberger drilling tools. Made up 2.875in cement stinger and RIH to 1620. Set hi vis pill on bottom. Pull back to 1520m and set cement plug #1. Laid out pipe while WOC. Tagged TOC at 1385m. POOH and set cement plug #2 at 850m. POOH to 650m and circulated.

HSE Summary					
Events	Num. Events	Days Since	Description	Remarks	
Incident	0	7			
Days Since LTI	0	1,012			
STOP Card	52	0	Safe 36 Unsafe 16	DODI 38 Third Party 6 ADA 0 Catering 8	
JSA	51	0		Drill 6 Trip 18 Pump Room 1 Crane Crew 15 Mechanic 2 Electrician 1 Welder 8 Subsea 0	
Permit To Work	21	1	Hot 5 Cold 9		
Safety Meeting	1	1			
Abandon Drill	1	2			
Fire Drill	1	2			
JHA/HSE Audit	0	2	Supervisor Audit		

Operations For Period 0000 Hrs to 2400 Hrs On 14 Sep 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G6	00:00	00:30	0.50	2,100.0 m	Broke off bit (1-1-CT-N-X-1-ER-TD). Racked back mud motor in derrick on double of DP. (Bearing play in motor 5mm)
P21	P	G6	00:30	01:30	1.00	2,100.0 m	Made up cementing stand and stood back in derrick.
P21	P	G6	01:30	02:00	0.50	2,100.0 m	Prepared to run 2.875in tubing cement stinger.
P21	P	G2	02:00	04:30	2.50	2,100.0 m	Wind dropped below 40knts allowing cranes to resume work. Layed out Schlumberger MWD/LWD tools and mud motor.
P21	P	G2	04:30	06:30	2.00	2,100.0 m	Rigged up 2.875in stinger handling equipment and made up 8 joints of 2.875in cement stinger to 98m
P21	P	G8	06:30	09:30	3.00	2,100.0 m	Ran stinger in hole to 1620m
P21	P	G8	09:30	10:30	1.00	2,100.0 m	Spotted 50bbl 12.6ppg hi vis pill on bottom. Pulled out to 1520m and made up cement stand.
P21	P	G1	10:30	11:00	0.50	2,100.0 m	Held JSA. Rigged up surface lines and pressure tested same to 2000psi



Operations For Period 0000 Hrs to 2400 Hrs On 14 Sep 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	CMT	11:00	11:30	0.50	2,100.0 m	Dowell mixed and pumped 79bbl of 15.8ppg slurry. (16.3MT G cement, 44bbl of FW, Yield 1.16). Dowell displaced cement slurry with 2bbl FW followed by 72bbl 10ppg mud.
P21	P	G8	11:30	13:00	1.50	2,100.0 m	Racked cement stand back in derrick. POOH from 1520m to 1450m slowly
P21	P	F4	13:00	14:00	1.00	2,100.0 m	Rigged up and reverse circulated cement contamination out at 60spm, 300psi. 40bbls contaminated mud dumped at shakers
P21	P	G2	14:00	16:00	2.00	2,100.0 m	Racked back cement stand and laid out 33 joints of 5in DP
P21	P	G8	16:00	17:30	1.50	2,100.0 m	Ran in hole and tagged top of cement at 1385m with 5klbs weight down
P21	P	G8	17:30	20:00	2.50	2,100.0 m	Pumped slug and POOH to 950m. Laid out 42 joints of 5in DP on way out
P21	P	G8	20:00	21:00	1.00	2,100.0 m	Spotted 50bbl 12.6ppg hi vis pill on bottom and POOH from 950m to 838m
P21	P	G1	21:00	21:15	0.25	2,100.0 m	Held JSA. Picked up cement head and rigged up surface lines. Positioned at 850m. Pressure tested surface lines to 2000psi
P21	P	CMT	21:15	21:45	0.50	2,100.0 m	Dowell pumped ahead 15bbl FW. Mixed and pumped 81bbl 16ppg cement slurry. (17.2MT G cement, 46bbl of fresh water. Yield 1.13). Dowell displaced slurry with 2 bbl of fresh water followed by 33bbl of 10ppg mud.
P21	P	G8	21:45	22:45	1.00	2,100.0 m	Racked back cement stand and pulled out slowly from 850m to 637m
P21	P	F4	22:45	23:30	0.75	2,100.0 m	Made up cement stand and positioned at 650m. Closed upper annular and reverse circulated cement contamination out of well. (37bbl of contaminated mud dumped at shakers.)
P21	P	F4	23:30	24:00	0.50	2,100.0 m	Lined up to circulate conventionally. Pumped 100bbls mud at high rate to flush pipe. Pumped slug

Operations For Period 0000 Hrs to 0600 Hrs On 15 Sep 2009							
PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
P21	P	G2	00:00	03:15	3.25	2,100.0 m	Racked back 10stds of DP (Total of 850m DP remaining in derrick). Laid out 60 joints of 5in DP and 10 joints of 2.875in cement stinger.
P21	P	G8	03:15	03:45	0.50	2,100.0 m	Made up jet sub and stand below WBRT. RIH to 80m.
P21	P	G16	03:45	04:15	0.50	2,100.0 m	Jetted BOP and wellhead 810gpm, 650psi, 3 rpm.
P21	P	G10	04:15	05:30	1.25	2,100.0 m	RIH and engaged WB with RT. Pulled wear bushing free with 30k over pull. POOH with wear bushing. Laid out wear bushing and RT. Racked back stand with jet tool.
							Offline: Attempted pressure test of cement plug #2 to 1050psi against Blind/Shear rams. Leak in cement unit.
P21	P	G8	05:30	06:00	0.50	2,100.0 m	Made up 5in mule shoe and RIH to 67m

Phase Data to 2400hrs, 14 Sep 2009						
Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob(P1)	71.00	02 Sep 2009	05 Sep 2009	71.00	2.958	
Conductor Hole(P2)	16.00	05 Sep 2009	06 Sep 2009	87.00	3.625	155.0 m
Conductor Casing(P3)	15.50	06 Sep 2009	06 Sep 2009	102.50	4.271	155.0 m
Surface Hole(P4)	50.50	06 Sep 2009	08 Sep 2009	153.00	6.375	816.0 m
Surface Casing(P5)	20.00	08 Sep 2009	09 Sep 2009	173.00	7.208	816.0 m
BOPs/Risers(P6)	24.50	09 Sep 2009	10 Sep 2009	197.50	8.229	816.0 m
Production Hole (1)(P11)	78.50	10 Sep 2009	14 Sep 2009	276.00	11.5	2,100.0 m
Suspend and Abandon(P21)	23.50	14 Sep 2009	14 Sep 2009	299.50	12.479	2,100.0 m

General Comments	
00:00 TO 24:00 Hrs ON 14 Sep 2009	
Operational Comments	Pressure tested #2 cement plug offline to 1050psi. Pressure bled off 52psi in 10mins. Leak identified on cement unit.

WBM Data		Cost Today AUD22,174							
Mud Type:	Water Based	API FL:	4.5 cm ³ /30min	Cl:	50,000 mg/L	Solids:	10 %	Viscosity	55 s/qt
Sample-From:	Active	Filter-Cake:	1 /32nd"	K+C*1000:	9 %	Low-Gravity Solids:	%vol	PV	16 cP
Time:	11:00	HTHP-FL:	cm ³ /30min	Hard/Ca:	400 mg/L	H ₂ O:	90 %	YP	36 lbf/100ft ²
Weight:	10.10 ppg	HTHP-cake:	/32nd"	MBT:	4.0	Oil:	0 %	Gels 10s	10 lbf/100ft ²
Temp:	°C			Pm:		Sand:	.5	Gels 10m	15 lbf/100ft ²
				Pf:	0.4	pH:	9.5	Fann 003	8
						PHPA(Density):	kg/m ³	Fann 006	11
								Fann 100	33
								Fann 200	42
								Fann 300	52
								Fann 600	68
Comment									

WBM Data		Cost Today AUD							
Mud Type:	Water Based	API FL:	4.5 cm ³ /30min	Cl:	50,000 mg/L	Solids:	10 %	Viscosity	54 s/qt
Sample-From:	Active	Filter-Cake:	1 /32nd"	K+C*1000:	9 %	Low-Gravity Solids:	%vol	PV	16 cP
Time:	22:00	HTHP-FL:	cm ³ /30min	Hard/Ca:	400 mg/L	H ₂ O:	90 %	YP	34 lbf/100ft ²
Weight:	10.15 ppg	HTHP-cake:	/32nd"	MBT:	4.0	Oil:	0 %	Gels 10s	10 lbf/100ft ²
Temp:	°C			Pm:	1.0	Sand:	.5	Gels 10m	15 lbf/100ft ²
				Pf:	0.5	pH:	9.5	Fann 003	9
						PHPA(Density):	kg/m ³	Fann 006	12
								Fann 100	31
								Fann 200	41
								Fann 300	50
								Fann 600	66
Comment									

Survey								
MD (m)	Incl (°)	Azim (°)	TVD (m)	Vsect (m)	N-S (m)	E-W (m)	DLS (deg/30m)	Tool Type
1,858.33	0.3	65.2	1,858.29	1.2	1.2	7.6	0.1	Telescope 825NF
1,913.35	0.5	64.2	1,913.31	1.0	1.0	8.1	0.1	Telescope 825NF
1,941.91	0.5	69.2	1,941.87	1.1	1.1	8.3	0.0	Telescope 825NF
2,028.47	0.6	92.2	2,028.43	1.2	1.2	9.1	0.1	Telescope 825NF
2,076.18	0.7	87.1	2,076.13	1.2	1.2	9.6	0.1	Telescope 825NF

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Barite	MT	0.0	0.0	0.0	42.00
Bentonite	MT	0.0	0.0	0.0	54.00
Cement - G Neat	MT	0.0	36.0	0.0	66.00
Fuel	M3	0.0	11.9	0.0	512.00
Potable Water	m3	32.0	21.0	0.0	368.00
Drill Water	m3	0.0	30.0	0.0	276.00

Pumps												
Pump Data - Last 24 Hrs									Slow Pump Data			
No.	Type	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	Check	SPM	Pressure (psi)	Flow (gpm)
1	National	6.00	10.00	97	0	0	0	2,100.0		30	260	128
										20	230	85
										40	340	170
2	National	6.00	10.00	97	0	0	0	2,100.0		40	320	170
										20	220	85
3	National	6.00	10.00	97	0	0	0	2,100.0		30	260	128



Personnel On Board	
Company	Pax
Diamond Offshore	53
Catering	8
ADA Services	4
Cameron	1
Dowell Schlumberger	2
Schlumberger MWD/LWD	0
MI Drilling Fluids	2
BJ Tubulars	0
Subsea 7	6
Go Offshore	0
Baker Hughes Inteq	4
Beach Petroleum Ltd	1
Schlumberger DD	0
Schlumberger - Wireline	0
Total	81

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Manfred Olejniczak			
Available	1,683.0	Losses	85.0	Equipment	Description	Mesh Size	Comments
Active	447.0 bbl	Downhole					
Mixing		Surf+ Equip	5.0 bbl				
Hole		Dumped	80.0 bbl				
Slug		De-Gasser					
Reserve	1236.0 bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine									
Weather on 14 Sep 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Frequency	Anchors	Tension
10.0 NM	12 kn	250.0 °	1,021.0 mbar	12 °C	0.5 m	250.0 °	3 s	#1 Anchor	256.00 klb
								#2 Anchor	258.00 klb
								#3 Anchor	258.00 klb
								#4 Anchor	240.00 klb
								#5 Anchor	249.00 klb
								#6 Anchor	247.00 klb
								#7 Anchor	262.00 klb
								#8 Anchor	256.00 klb



Support Vessels										
Boats	Arrived Time	Departed Time	Status	Bulks						
Lewek Emerald	10 Sep 2009 03:20	13 Sep 2009 12:30	On route to rig location	Item	Unit	In	Used	Transfer to Rig	Adjust	Quantity
				Cement - G Neat (MT)	MT	0.0	0.0	0.00	0.0	0
				Barite (MT)	MT	0.0	0.0	0.00	0.0	0
				Bentonite Bulk (MT)	MT	0.0	0.0	0.00	0.0	0
				Brine (bbl)	bbl	0.0	0.0	0.00	30.0	30
				Fuel (M3)	M3	336.4	8.0	0.00	-15.2	743.2
				Potable Water (m3)	m3	145.0	5.0	0.00	-10.0	225
Drill Water (m3)	m3	138.0	0.0	0.00	0.0	138				
Lewek Swift	13 Sep 2009 06:30		Standby on rig location	Item	Unit	In	Used	Transfer to Rig	Adjust	Quantity
				Bentonite Bulk (MT)	MT	0.0	0.0	0.00	0.0	0
				Fuel (M3)	M3	0.0	9.1	0.00	0.0	576.2
				Potable Water (m3)	m3	0.0	4.0	0.00	0.0	466
				Drill Water (m3)	m3	0.0	0.0	0.00	0.0	215
Brine (bbl)	bbl	0.0	0.0	491.00	0.0	0				
Helicopter Movement										
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment						
1	Bristow Helicopters	14:25 / 14:35	4 / 7							