



12 Sep 2009

From: Tim Lee / Kevin Monkhouse
To: Iain Robertson

Spikey Beach-1

Well Data							
Country	Australia	MDBRT	1,907.0 m	Cur. Hole Size	12.250 in	AFE Cost	AUD 24,270,065
Field	Spikey Beach	TVDBRT	1,907.0 m	Last Casing OD	13.375 in	AFE No.	09/036
Drill Co.	Diamond Offshore	Progress	403.00 m	Shoe TVDBRT	805.8 m	Daily Cost	AUD 845,858
Rig	Ocean Patriot (semi)	Days From Spud	7.13	Shoe MDBRT	805.8 m	Cum Cost	AUD 9,226,858
Wtr Depth (MSL)	74 m	Days On Well	10.48	FIT/LOT	sg / 1.47 sg		
Datum	21.50 m RT MSL	Planned TD MD	2,062 m	Current Op @ 0600	Drill 12.25in hole. Depth 2037m.		
RT To Seabed	95.5 m	Planned TD TVDRT	2,062 m	Planned Op	TD 12.25 in section. Circulate well clean. POOH. Run cement stinger for P&A.		

Summary of Period 0000 to 2400 Hrs
Drilled 12.25 in hole from 1504m to 1907m.

HSE Summary				
Events	Num. Events	Days Since	Description	Remarks
Incident	0	5		
Days Since LTI	0	1,010		
STOP Card	67	0	Safe 38 Unsafe 23	DODI 45 Third Party 5 ADA 4 Catering 7
JSA	44	0		Drill 5 Trip 3 Pump Room 6 Crane Crew 18 Mechanic 4 Electrician 1 Welder 5 Subsea 2
Permit To Work	21	0	Hot 8 Cold 14	
Safety Meeting	0	6		
Abandon Drill	0	7		
Fire Drill	0	7		
JHA/HSE Audit	5	1	Supervisor Audit	

Operations For Period 0000 Hrs to 2400 Hrs On 12 Sep 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D2	00:00	21:15	21.25	1,870.0 m	Drilled 12.25in hole from 1504m to 1870m at controlled ROP of 15-20 mtr/hr to allow accurate sample analysis. Took MWD survey every 90m. Observed consistent splintery cuttings, commenced weighing mud up to 9.8ppg at 1590m. Observed splintery cuttings on riser boost, so further increased mud weight to 10ppg at 1810m. WOB: 5klbs, 920gpm, 2850psi, 145 rpm, 3-15kft-lb torq (Max 26kft-lbs and string stalling in ratty formation).
P11	P	D2	21:15	24:00	2.75	1,907.0 m	Drilled 12.25in hole from 1870m to 1907m at controlled ROP of up to 40 mtr/hr to allow accurate sample analysis. Took MWD survey every 90m. WOB: 5-10klbs, 920gpm, 2850psi, 150 rpm, 3-15kft-lb torq (Max 26kft-lbs and string stalling in ratty formation).



Operations For Period 0000 Hrs to 0600 Hrs On 13 Sep 2009							
PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
P11	P	D2	00:00	06:00	6.00	2,100.0 m	(IN PROGRESS) Drilled 12.25in hole from 1907m to 2100m at controlled ROP of up to 40 mtr/hr to allow accurate sample analysis. Took MWD survey every 90m. WOB: 5-10kbs, 920gpm, 3200psi, 150 rpm, 3-15kft-lb torq (Max 26kft-lbs and string stalling in ratty formation).

Phase Data to 2400hrs, 12 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)	54.00	10 Sep 2009	12 Sep 2009	251.50	10.479	1,907.0 m

WBM Data		Cost Today AUD82,680							
Mud Type:	Water Based	API FL:	5.5 cm ³ /30min	Cl:	48,000 mg/L	Solids:	7 %	Viscosity	59 s/qt
Sample-From:	Active	Filter-Cake:	1 /32nd"	K+C*1000:	9 %	Low-Gravity	%vol	PV	16 cP
Time:	10:20	HTHP-FL:	cm ³ /30min	Hard/Ca:	400 mg/L	Solids:		YP	33 lbf/100ft ²
Weight:	9.80 ppg	HTHP-cake:	/32nd"	MBT:	4.0	H2O:	93 %	Gels 10s	7 lbf/100ft ²
Temp:	80 °C			Pm:	1.0	Oil:	0 %	Gels 10m	12 lbf/100ft ²
				Pf:	0.4	Sand:	.5	Fann 003	7
						pH:	9.5	Fann 006	11
						PHPA(Density):	kg/m ³	Fann 100	31
								Fann 200	41
								Fann 300	49
								Fann 600	65
Comment									

WBM Data		Cost Today AUD							
Mud Type:	Water Based	API FL:	5.5 cm ³ /30min	Cl:	50,000 mg/L	Solids:	9 %	Viscosity	56 s/qt
Sample-From:	Active	Filter-Cake:	1 /32nd"	K+C*1000:	10 %	Low-Gravity	%vol	PV	17 cP
Time:	15:00	HTHP-FL:	cm ³ /30min	Hard/Ca:	440 mg/L	Solids:		YP	31 lbf/100ft ²
Weight:	9.80 ppg	HTHP-cake:	/32nd"	MBT:	4.0	H2O:	92 %	Gels 10s	8 lbf/100ft ²
Temp:	80 °C			Pm:	0.9	Oil:	0 %	Gels 10m	13 lbf/100ft ²
				Pf:	0.5	Sand:	.5	Fann 003	8
						pH:	9.5	Fann 006	11
						PHPA(Density):	kg/m ³	Fann 100	30
								Fann 200	41
								Fann 300	48
								Fann 600	65
Comment									

WBM Data		Cost Today AUD							
Mud Type:	Water Based	API FL:	5.8 cm ³ /30min	Cl:	50,000 mg/L	Solids:	7 %	Viscosity	62 s/qt
Sample-From:	Active	Filter-Cake:	/32nd"	K+C*1000:	10 %	Low-Gravity	%vol	PV	17 cP
Time:	21:30	HTHP-FL:	cm ³ /30min	Hard/Ca:	400 mg/L	Solids:		YP	36 lbf/100ft ²
Weight:	10.00 ppg	HTHP-cake:	/32nd"	MBT:	4.0	H2O:	93 %	Gels 10s	10 lbf/100ft ²
Temp:	80 °C			Pm:	0.9	Oil:	0 %	Gels 10m	14 lbf/100ft ²
				Pf:	0.5	Sand:	6.9	Fann 003	10
						pH:	9.5	Fann 006	12
						PHPA(Density):	kg/m ³	Fann 100	34
								Fann 200	45
								Fann 300	53
								Fann 600	70
Comment									



Bit #3	Wear	I	O1	D	L	B	G	O2	R
		1	1	CT	N	X	1	ER	TD
Bit wear comment:									
Size ("): 311 mm (12 1/4")	IADC#	M323	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run		
Mfr:Baker Huhes Chistensen	WOB(avg)	7.00 klb	No.	Size	Progress	403.0 m	Cum. Progress	1,091.0 m	
Type: PDC	RPM(avg)	157 rpm	6	15/32nd"	On Bottom Hrs	19.5 h	Cum. On Btm Hrs	29.6 h	
Serial No.: 7012700	F.Rate	918 gpm			IADC Drill Hrs	24.0 h	Cum IADC Drill Hrs	38.8 h	
Bit Model HCM506ZX	SPP	2,988 psi			Total Revs	303,900	Cum Total Revs	453,600	
Depth In 816.0 m	HSI	2.70 hp/in ²			ROP(avg)	20.67 m/h	ROP(avg)	36.86 m/h	
Depth Out 2,100.0 m	TFA	0.001 m ²							
Bit Comment									

BHA #3							
Weight(Wet)	80.00 klb	Length	213.9 m	Torque(max)	20,300 ft.lbf	D.C. (1) Ann Velocity	261 ft/min
Wt Below Jar(Wet)	58.00 klb	String Weight	305.00 klb	Torque(Off.Btm)	3,000 ft.lbf	D.C. (2) Ann Velocity	261 ft/min
		Pick-Up Weight	305.00 klb	Torque(On.Btm)	5,300 ft.lbf	H.W.D.P. Ann Velocity	180 ft/min
		Slack-Off Weight	305.00 klb			D.P. Ann Velocity	180 ft/min
BHA Run Description		Mud Motor Logging Assembly					
BHA Run Comment		Well TD					

Equipment	Length	OD	ID	Serial #	Comment
12 1/4" bit	0.38 m	12.25 in	in	7012700	PDC bit
A625 Mud Motor	11.32 m	9.63 in	in	5954	
12 1/4in stab	1.82 m	8.25 in	2.81 in	207A189	
ARC8	6.24 m	8.25 in	in	1216	
Telescope 825NF	8.96 m	8.19 in	in	ZH22	
sonicVISION 825	7.71 m	8.11 in	in	42784	
ADN-8 w/12" stabiliser	9.18 m	8.38 in	in	43225	
8in DC	72.79 m	8.25 in	2.81 in		
Drilling Jars	9.78 m	8.25 in	2.81 in	101663H	
8in DC	28.01 m	8.25 in	2.81 in		
X/Over	1.16 m	8.00 in	3.00 in	508A33	
HWDP	56.51 m	in	in		

Survey									
MD	Incl	Azim	TVD	Vsect	N/S	E/W	DLS	Tool Type	
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(deg/30m)		
1,596.34	0.5	77.7	1,596.31	0.8	0.8	5.8	0.1	Telescope 825NF	
1,625.50	0.5	69.8	1,625.47	0.9	0.9	6.0	0.1	Telescope 825NF	
1,682.67	0.4	85.0	1,682.63	1.0	1.0	6.4	0.1	Telescope 825NF	
1,767.94	0.5	80.2	1,767.90	1.1	1.1	7.1	0.0	Telescope 825NF	
1,858.33	0.3	65.2	1,858.29	1.2	1.2	7.6	0.1	Telescope 825NF	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite	MT	33.0	31.0	0.0	70.00	
Bentonite	MT	17.0	0.0	0.0	54.00	
Cement - G Neat	MT	0.0	0.0	0.0	75.00	
Fuel	M3	0.0	13.0	0.0	543.40	
Potable Water	m3	33.0	24.0	0.0	347.00	
Drill Water	m3	0.0	90.0	-1.0	342.00	



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	107	2,988	458	1,855.0		40	330	170
										30	270	128
										20	230	85
2	National	6.00	10.00	97	0	0	0					
3	National	6.00	10.00	97	106	2,988	453	1,855.0		20	230	85
										40	330	170
										30	270	128

Personnel On Board	
Company	Pax
Diamond Offshore	55
Catering	8
ADA Services	4
Cameron	0
Dowell Schlumberger	2
Schlumberger MWD/LWD	3
MI Drilling Fluids	2
BJ Tubulars	0
Subsea 7	3
Go Offshore	0
Baker Hughes Inteq	6
Beach Petroleum Ltd	2
Schlumberger DD	1
Schlumberger - Wireline	8
Total	94

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Manfred Olejniczak			
Available		Losses		Equipment	Description	Mesh Size	Comments
1,594.0		713.0					
Active	457.0 bbl	Downhole	60.0 bbl				
Mixing		Surf+ Equip	653.0 bbl				
Hole		Dumped					
Slug		De-Gasser					
Reserve	1137.0 bbl	De-Sander					
Kill		De-Silter					
		Centrifuge					

Marine									
Weather on 12 Sep 2009							Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Frequency	Anchors	Tension
10.0 NM	31 kn	260.0 °	1,004.0 mbar	15 °C	3.0 m	280.0 °	5 s	#1 Anchor	256.00 klb
								#2 Anchor	254.00 klb
								#3 Anchor	258.00 klb
								#4 Anchor	231.00 klb
								#5 Anchor	240.00 klb
								#6 Anchor	227.00 klb
								#7 Anchor	271.00 klb
								#8 Anchor	258.00 klb



Support Vessels										
Boats	Arrived Time	Departed Time	Status	Bulks						
Lewek Swift		10 Sep 2009 07:15	Enroute to Ocean Patriot	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	9.5	0.0	0.00	418.8	602.6
				Potable Water (m3)	m3	0.0	4.0	0.00	313.0	477
				Drill Water (m3)	m3	0.0	0.0	0.00	204.0	215
				Brine (bbl)	bbl	0.0	0.0	0.00	0.0	491
Crew change effected in Geelong										
Lewek Emerald	10 Sep 2009 03:20		Stand by on rig	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	33.00	0.0	0
				Bentonite Bulk (MT)	MT	0.0	0.0	24.50	0.0	0
				Brine (bbl)	bbl	0.0	0.0	422.00	62.0	0
				Fuel (M3)	M3	0.0	10.0	0.00	0.0	430
				Potable Water (m3)	m3	0.0	5.0	0.00	0.0	95
				Drill Water (m3)	m3	0.0	0.0	0.00	0.0	0

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	13:10 / 13:20	8 / 0	