

07 Sep 2009

From: Tim Lee / Kevin Monkhouse To: Iain Robertson

DRILLING MORNING REPORT # 6 Spikey Beach-1

Well Data							
Country	Australia	MDBRT	200.0 m	Cur. Hole Size	17.500 in	AFE Cost	AUD 24,270,065
Field	Spikey Beach	TVDBRT	200.0 m	Last Casing OD	30.000 in	AFE No.	09/036
Drill Co.	Diamond Offshore	Progress	45.00 m	Shoe TVDBRT	151.4 m	Daily Cost	AUD 701,000
Rig	Ocean Patriot	Days From Spud	0.00	Shoe MDBRT	151.4 m	Cum Cost	AUD 5,234,000
Wtr Depth	(semi) 74 m	Days On Well	5.48	FIT/LOT	sg / sg		
(MSL)	74 111						
Datum	21.50 m RT	Planned TD MD	2,062 m	Current Op @ 0600	Drilled 17.5	in hole to 428m	
RT To Seabed	MSL 95.5 m	Planned TD TVDRT	2,062 m	Planned Op	displace we		810m. Sweep pill, ud and POOH. Rig

Summary of Period 0000 to 2400 Hrs

Picked up and racked back 67stands of 5in DP. Made up 17.5in BHA and racked in derrick. Made up 18.75in WHRT and racked back in derrick. Made up Dowell cement head and racked back in derrick. Diamond preformed Shallow gas JSA, Rig maintenance, changed out Kill hose in moon pool while Schlumberger MWD Engineers arrived on board and prepared tools. Made up and tested MWD/LWD tools. Made up BHA, tagged TOC, drilled out cement, shoe and rat hole. Drilled 17½in hole from 155m to 196m. Pull back and make up stand of 8in DC. Drilled 17½in hole from 196m to 200m

	Remarks	Description	Days Since	Num. Events	Events
STOP Card630Safe 47 Unsafe 12DODI 45 Third Party 9 ADA 2 Catering 7JSA500Image: Second secon	Individual sustained minor cut while installing Geo line to Top Drive. The cut was treated by the Med the IP returned to work	First Aid	0	1	lent
JSA500Image: Section of the section of			1,005	0	s Since LTI
Permit To Work211Hot 4 Cold 9Welder 6 Subsea 5Safety Meeting01	Third Party 9 ADA 2		0	63	P Card
Safety Meeting 0 1 Cold 9	Trip 13 Pump Room 2 Crane Crew 12 Mechanic 7 Electrician 1 Welder 6		0	50	
			1	21	nit To Work
Abandon Drill 0 2			1	0	ty Meeting
			2	0	ndon Drill
Fire Drill 0 2			2	0	Drill
JHA/HSE Audit 1 1 Supervisor Audit		Supervisor Audit	1	1	/HSE Audit

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
P4	Р	G2	00:00	04:00	4.00	155.0 m	Picked up 5in DP from deck. 26 stands picked up. Total of 67stds 5in DP racked back in derrick
P4	Р	G2	04:00	05:30	1.50	155.0 m	Made up 3 jts of 8in DCs and racked stand back in derrick
P4	Р	G2	05:30	06:30	1.00	155.0 m	Performed rig maintenance while waited on jars to be off loaded from Emerald.
P4	Р	G2	06:30	07:30	1.00	155.0 m	Pick up 2 x 8in DCs and made up to drilling jar. Racked stand back in derrick
P4	Р	G2	07:30	09:00	1.50	155.0 m	Changed out Kill Hose in Moonpool. Offline: Prepared MWD/LWD equipment.



Operations For Period 0000 Hrs to 2400 Hrs On 07 Sep 2009

Phse	Cls (RC)	Ор	From	То	Hrs	Depth	Activity Description
P4	Р	G2	09:00	12:00	3.00	155.0 m	Made up 18.75in WHRT and racked back in derrick. Made up Dowell cement head and racked back in derrick. Offline: Prepared MWD/LWD equipment.
P4	Р	G11	12:00	13:00	1.00	155.0 m	Rig serviced Top Drive and TDS Dollys. Offline: Prepared MWD/LWD equipment.
P4	Р	G6	13:00	16:00	3.00	155.0 m	Schlumberger MWD Engineers prepared and programmed tools for BHA. (Held shallow gas JSA with Drill Crews. Shell tested choke manifold valves #7 & #8 to 15,000psi. Completed Kill hose change out in moonpool).
P4	Р	G6	16:00	19:30	3.50	155.0 m	Made up Drilling Stand with bit, n/bit stab, Arc-9 tool, stab, MWD P/Pulse, Sonic Vision 900. Shallow tested Schlumberger tools.
P4	Р	G6	19:30	21:00	1.50	155.0 m	Made up BHA. Entered well head at 20:00hr. Tag TOC at 148.4mRT MSL.
P4	Р	D1	21:00	22:00	1.00	155.0 m	Drilled out shoe track (600gpm, 60 rpm, 10k wob.) to bottom of rat hole at 155m. Ream shoe twice. Shoe at 151.4m
P4	Р	D2	22:00	23:00	1.00	196.0 m	Drilled 17.5in hole from 155m to 196m. Maintained 60 rpm until top stabiliser clear of casing. Pump 50bbl PHG every 15m spotted pill around BHA on connections.
P4	Р	G6	23:00	23:30	0.50	196.0 m	POOH from 196m to 140m. Racked back 2 stands of HWDP, made up 1 stand of 8in DCs and ran back to bottom on HWDP.
P4	Р	D2	23:30	24:00	0.50	200.0 m	Drilled 17.5in hole from 196m to 200m. Attempted to take MWD survey. Survey failed due to noise interference of casing.

Operations For Period 0000 Hrs to 0600 Hrs On 08 Sep 2009

PHSE	CLS (RC)	OP	From	То	Hrs	Depth	Activity Description
P4	Р	D2	00:00	06:00	6.00	460.0 m	Drilled 17.5in hole from 200m to 428m. Pump 50bbl PHG sweeps every 15m. Spot PHG pill around BHA on connections. MWD Survey every 90m. 0-10k WOB, 1100gpm 2700psi, 100rpm, 6kft-lbs torq.

Phase Data to 2400hrs, 07 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)	29.00	06 Sep 2009	07 Sep 2009	131.50	5.479	200.0 m

General Co	mments								
00:00 TO 24:0	0 Hrs ON 07 S	ep 2009)						
Operatio	onal Comment	S	Beach Co Rep witnes Beach Co Rep witnes	•			unit.		
WBM Data				Cost Today	AUD10,09	9			
Mud Type:	Water Based	API FL	: cm³/30min	CI:	mg/L	Solids:	%	Viscosity	100 s/qt
Sample-From:	Pit 3	Filter- Cake:	/32nd"	K+C*1000:	%	Low-Gravity Solids:	%vol	PV YP	cP Ibf/100ft ²
Time:	09:00			Hard/Ca:	mg/L			Gels 10s	lbf/100ft ²
Weight:	10.00 ppg	HTHP-	FL: cm ³ /30min	MBT:	23.0	H2O:		Gels 10m	lbf/100ft ²
Temp:	°C	HTHP- cake:	/32nd"	Pm:		Oil:	%	Fann 003 Fann 006	
		oune.		Pf:		Sand:		Fann 100	
						pH:	9.0	Fann 200	
								Fann 300	

PHPA(Density):

kg/m³ Fann 600

Comment



WBM Data				Co	st Toda	y AUC)								
Mud Type:	Water Based	API FL:	cm³/30m	n CI:			mg/L	Soli	ids:		9	/ v	Viscosity		100 s/c
Sample-From:	Pit #5	Filter-	/32nd	!" к+с	*1000:		%	Low	w-Grav	vity	%v0	~ 1	PV YP		c lbf/100f
Time:	14:00	Cake:		Hard	I/Ca:		mg/L	Soli	ids:				Gels 10s		lbf/100f
Weight:	8.80 ppg	HTHP-F	FL: cm ³ /30mi	n MBT	:		30.0	H20	0:		0	- H	Gels 10m		lbf/100f
Temp:	°C	HTHP-	/32nd					Oil:			9	70	Fann 003 Fann 006		
romp.	Ũ	cake:		Pf:				Sar	nd:				Fann 100		
				.				pH:	:		9.5	ρļ	Fann 200		
								PH	PA(De	ensity):	kg/m	-3	Fann 300 Fann 600		
				0	- 4 T - J -										
	Water Based	API FL:	cm ³ /30mi		st Toda	y AUL		Soli	ido		0	%	Viscosity		100 s/
Mud Type:	Water Based				*4000		mg/L						PV		100 di
Sample-From:	Pit #4	Filter- Cake:	/32nd		*1000:		%	Low Soli	w-Gra∖ ∣ids:	/ity	%v0		YP		lbf/100
Time:	21:00	HTHP-F	-L: cm ³ /30mi		I/Ca:		mg/L	H2C			0		Gels 10s Gels 10m		lbf/100 lbf/100
Weight:	8.80 ppg	HTHP-	/32nd	MBT	:		30.0					· -	Fann 003		151/100
Temp:	°C	cake:	/3200	Pm:				Oil:			7	70	Fann 006		
				Pf:				Sar					Fann 100 Fann 200		
								pH:			9.0		Fann 200 Fann 300		
								PHI	PA(De	ensity):	kg/m	1 ³	Fann 600		
Comment							01				В		G	 02	R
Bit #2				We	a	1	01		D	L	Б		G	02	ĸ
					wear ment:										
Size ("): 444	mm (17 1/2")	IADC#	11	5	Nozzle	s	Drill	ed o	over la	ast 24 hrs		С	alculated	l over E	Bit Run
MfBHI (Hughes	S Christensen)	WOB(a	avg) 3.00 kl	b No.	Siz	е	Progre	SS		45.0	m Cum	. P	rogress		45.0 r
Туре:	Milled Tooth	RPM(a	vg) 71 rpr	n 1	1	6/32nd"	On Bot	ttom	Hrs	1.0	h Cum	. C)n Btm Hi	rs	1.0
Serial No.:	6079221	F.Rate	767 gpr		18	8/32nd"		Drill I	Hrs	1.5	h Cum	IA	DC Drill I	Hrs	1.5
Bit Model	GX-CIV	SPP	1,243 p				Total R			4,30			otal Revs		4,300
Depth In	155.0 m	HSI	1.95 hp/ir				ROP(a	ivg)		45.00 m	h ROP	'(av	vg)		45.00 m/
Depth Out	m	TFA	0.001 m												
Bit Comment		I					1								
BHA #2															
Weight(Wet)	75	.00 klb	Length		226.6 m	Torque	e(max)			2,500 ft.	lbf D.C.	(1) Ann Vel	ocity	78 ft/mi
Wt Below Jar(V	Vet) 65	.00 klb	String Weight	2	10.00 klb	Torque	e(Off.Btr	m)		200 ft.	lbf D.C.	(2) Ann Vel	ocity	87 ft/mi
			Pick-Up Weight	2	10.00 klb	Torque	e(On.Btr	m)		1,800 ft.	lbf H.W.	.D.	P. Ann V	elocity	67 ft/mi
			Slack-Off Weight		10.00 klb						D.P.	Ar	nn Velocit	y	67 ft/mi
BHA Run Desc BHA Run Com			Rotary drilling asser	nbly wi	th ARC-9	and MV	/D toolst	tring	1						
47 4 6 1 5	Equipment		Length	_	OD	_	ID			Serial #				mment	
17 1/2" Bit NB Stabiliser			0.42 r 2.84 r		17.50 i i	n n	3 00		60792 207A				e mill too Stab with		orted float
			2.041	"	I	"	5.00		20170		insta			i non pi	
ARC Tool			6.00 r		10.00 i	n			4126						
string stabilizer			0.98 r			n				02164	17 3/	/8"	Stab		
PowerPulse M	WD		8.22 r		9.06 i				KA-Z/						
Sonic			8.24 r			n			41250			With 17 3/8 in line stab			
String Stabilise			2.17 r			n			207A2	211	17 3/	17 3/8 Stab			
9 1/2 drill collar	ſS		28.43 r	n	9.56 i	n	3.19	ın							



Equipment	Length	OD	ID	Serial #	Comment
X/Over	1.09 m	9.50 in	3.00 in	508A360	
8in DC	72.83 m	8.00 in	2.81 in		
Drilling Jars	8.77 m	7.82 in	2.81 in	101663H	
8in DC	28.01 m	8.00 in	2.81 in		
X/O	1.16 m	8.00 in	2.81 in	508A336	
HWDP	56.51 m	in	in		

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0.0	0.0	0.0	47.00
Bentonite	MT	69.0	16.0	0.0	69.00
Cement - G Neat	MT	82.0	0.0	0.0	129.00
Fuel	M3	0.0	15.1	0.0	406.00
Potable Water	m3	31.0	30.0	0.0	329.00
Drill Water	m3	120.0	45.0	0.0	513.00

Pumps

Pum	np Data - Last 24 Hrs								Slow Pum	p Data		
No.	Туре	Liner (in)	MW (ppg)	Eff (%)	SPM	SPP (psi)	Flow (gpm)	Depth (m)	Check	SPM	Pressure ()	Flow ()
1	National	6.00	8.80	97	77	1,990	329					
2	National	6.00	8.80	97	77	1,990	329					
3	National	6.00	8.80	97	76	1,990	325					

Personnel On Board		
Company		Pax
Diamond Offshore		54
Catering		8
ADA Services		4
Cameron		1
Dowell Schlumberger		4
Schlumberger (Wireline)		0
MI Drilling Fluids		2
BJ Tubulars		3
Subsea 7		6
Other Contractor		2
Go Offshore		1
Baker Hughes Inteq		2
Beach Petroleum Ltd		1
	Total	88

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Manfred Olejiniczak					
Available	2,362.0	Losses	255.0	Equipment	Description	Mesh Size	Comments		
Active	462.0 bbl	Downhole	255.0 bbl						
Mixing		Surf+ Equip							
Hole		Dumped							
Slug		De-Gasser							
Reserve	777.0 bbl	De-Sander							
Kill	661.0 bbl	De-Silter							
KCL Brine	462.0 bbl	Centrifuge							



Marine									
Weather on 07 Sep 2009							Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Frequency	Anchors #1 Anchor	Tension 260.00 klb
10.0 NM	4 kn	135.0 °	1,007.0 mbar	13 °C	0.5 m	135.0 °	2 s	#2 Anchor	262.00 klb
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Frequency	Weather Comments		#3 Anchor #4 Anchor	262.00 klb 267.00 klb
240.0 °	klb	4,721.00 klb	1.5 m	90.0 °	11 s	Part	Cloud	#5 Anchor	260.00 klb
Comments								#6 Anchor #7 Anchor	276.00 klb 282.00 klb
								#8 Anchor	254.00 klb

Boats	Arrived Time	Departed Time	Status				Bulks			
Lewek Emeral		07 Sep 2009 19:35	In transit to Geelong							
Lewer Emeralu	d 02 Sep 2009 12:30	07 Sep 2009 19:35	In transit to Geelong	ltem	Unit	In	Used	to Rig	Adjust	Quantity
				Cement - G Neat (MT)	MT	0.0	0.0	87.00	0.0	(
				Barite (MT)	MT	0.0	0.0	0.00	0.0	75
				Bentonite Bulk (MT)	MT	0.0	0.0	43.00	0.0	(
				Brine (bbl)	bbl	0.0	0.0	0.00	0.0	1220
				Fuel (M3)	M3	0.0	18.0	0.00	0.0	480.4
				Potable Water (m3)	m3	0.0	5.0	0.00	40.0	220
				Drill Water (m3)	m3	0.0	0.0	46.00	0.0	222
	ed from rig at 19:30. ETA pilot loadi	ig at 00.00 6/9/09.								
	02 Sep 2009 12:30	ig at 06.00 6/9/09.	Stand by on Rig	Item	Unit	In	Used	Transfer to Rig	Adjust	Quantity
Lewek Swift	5 .	ig al 06.00 6/9/09.	Stand by on Rig	Item Bentonite Bulk (MT)	Unit MT	In 0.0	Used 0.0		Adjust	Quantity
	5 .	ig al 06.00 6/9/09.	Stand by on Rig	Bentonite Bulk				to Rig	-	
	5 .	ig al 06.00 6/9/09.	Stand by on Rig	Bentonite Bulk (MT)	MT	0.0	0.0	to Rig 25.00	0.0	(
	5 .	ig al 06.00 6/9/09.	Stand by on Rig	Bentonite Bulk (MT) Fuel (M3) Potable Water (m3) Drill Water (m3)	MT M3	0.0	0.0 17.9 0.0 0.0	to Rig 25.00 0.00 0.00 0.00	0.0	226.4
	5 .	ig at 06.00 6/9/09.	Stand by on Rig	Bentonite Bulk (MT) Fuel (M3) Potable Water (m3)	MT M3 m3	0.0 0.0 0.0	0.0 17.9 0.0	to Rig 25.00 0.00 0.00 0.00	0.0	226.4 180
Lewek Swift	5 .	ig al 06.00 6/9/09.	Stand by on Rig	Bentonite Bulk (MT) Fuel (M3) Potable Water (m3) Drill Water (m3)	MT M3 m3 m3	0.0 0.0 0.0 0.0	0.0 17.9 0.0 0.0	to Rig 25.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	226.4 180 171
Lewek Swift	02 Sep 2009 12:30	Arr/Dep. Time		Bentonite Bulk (MT) Fuel (M3) Potable Water (m3) Drill Water (m3)	MT M3 m3 m3	0.0 0.0 0.0 0.0	0.0 17.9 0.0 0.0 0.0	to Rig 25.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	226.4 180 171