

17 Oct 2009

 From: John Mcgarrity/ Peter Dane
 To: Texas Richards

DRILLING MORNING REPORT # 17
Trefoil-2

Well Data							
Country	Australia	MDBRT	2004.0m	Cur. Hole Size	12.250in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	2004.0m	Last Casing OD	13.375in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	464.0m	Shoe TVDBRT	930.0m	Daily Cost	US\$584,583
Rig	Kan Tan IV	Days from spud	11.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$14,720,880
Wtr Dpth(MSL)	69.0m	Days on well	16.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Drilling 12.25" hole. Depth at 06:00 hrs 2104m		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Drill 12.25" hole to section TD at 2510m		

Summary of Period 0000 to 2400 Hrs

Drilled 12.25" hole from 1540m to 1937m.
 Slide from 1937m to 1948m.
 Rotate from 1948m to 1951m
 Slide from 1951m to 1958m.
 Drilled 12.25" hole from 1958m to 2004m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held abandon drill	
ER Exercises		0 Days	International Ship and Port Facility - Drill	
Fire Drill	1	5 Days	Main deck - Fire in rubbish container	
Permit To Work	18	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	7 Days	Held 2 x General Safety Meeting	
STOP Card	36	0 Days	Number of STOP Cards submitted	

FORMATION

Name	Top
Lower Miocene Seismic Marker	918.00m
Upper Angahook	1162.00m
Angahook Volcanics Equiv	1331.00m
Lower Angahook	1569.00m
Demons Bluff	1850.00m

Operations For Period 0000 Hrs to 2400 Hrs on 17 Oct 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D2	0000	0600	6.00	1696.0m	Drilled 12.25" hole from 1540m to 1696m. Average Parameters: ROP 26.00m/hr, RPM 100, WOB - 8-10k, flow rate 1000 gpm, SPP 2550 psi, Torque 3-10 Klbs/ft.
P11	P	D2	0600	1030	4.50	1780.0m	Drilled 12.25" hole from 1696m to 1780m. Average Parameters: ROP 33.60 m/hr, RPM 100, WOB - 5-27k, flow rate 1000 gpm, SPP 2700 psi, Torque 6-12 Klbs/ft.
P11	P	P3	1030	1100	0.50	1780.0m	Flow checked well, 5bbl gain in active. Spaced out and checked for flow. Well static.
P11	P	D2	1100	1200	1.00	1790.0m	Drilled 12.25" hole from 1780m to 1790m. Average Parameters: ROP 10.30m/hr, RPM 100, WOB - 5-25k, flow rate 1000 gpm, SPP 2700 psi, Torque 6-12 Klbs/ft.
P11	P	D2	1200	1800	6.00	1920.0m	Drilled 12.25" hole from 1790m to 1920m. Average Parameters: ROP 21.60m/hr, RPM 100, WOB - 5-27k, flow rate 1000 gpm, SPP 2750 psi, Torque 7-14 Klbs/ft.
P11	P	D2	1800	1930	1.50	1937.0m	Drilled 12.25" hole from 1920m to 1937m. Average Parameters: ROP 11.30m/hr, RPM 100, WOB - 5-27k, flow rate 1000 gpm, SPP 2750 psi, Torque 7-14 Klbs/ft.
P11	P	D3	1930	2030	1.00	1951.0m	Slide drilled from 1937m to 1948m. Rotated from 1948m to 1951m.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D3	2030	2130	1.00	1958.0m	Slide drilled from 1951m to 1958m.
P11	P	P3	2130	2200	0.50	1958.0m	Flow checked well, 9 bbl gain on connection. Spaced out and checked for flow. Well static.
P11	P	D2	2200	2400	2.00	2004.0m	Drilled 12.25" hole from 1958m to 2004m. Average Parameters: ROP 23.00m/hr, RPM 100, WOB - 5-25k, flow rate 1000 gpm, SPP 2700 psi, Torque 8-140Klbs/ft.

Operations For Period 0000 Hrs to 0600 Hrs on 18 Oct 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	D2	0000	0530	5.50	2104.0m	Drilled 12.25" hole from 2004m to 2104m. Average Parameters: ROP 16.60m/hr, RPM 100, WOB - 5-25k, flow rate 1000 gpm, SPP 2750 psi, Torque 8-14Klbs/ft.
P11	P	P3	0530	0600	0.50	2104.0m	Drilling motor stalled out. Flow checked well. 10bbbls pit gain in active. Spaced out and checked for flow. Well static.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 17 Oct 2009

Phase	Phase Hrs	Start On	Finish On	Cumul. Hrs	Cumul. Days	Max Depth
Mob/Demob(P1)	69.5	21 Sep 2009	04 Oct 2009	69.50	2.896	0.0m
Conductor Hole(P2)	46.5	04 Oct 2009	06 Oct 2009	116.00	4.833	155.0m
Conductor Casing(P3)	37	06 Oct 2009	08 Oct 2009	153.00	6.375	155.0m
Surface Hole(P4)	68	08 Oct 2009	11 Oct 2009	221.00	9.208	935.0m
Surface Casing(P5)	36	11 Oct 2009	12 Oct 2009	257.00	10.708	935.0m
BOPs/Risers(P6)	61.5	12 Oct 2009	15 Oct 2009	318.50	13.271	935.0m
Production Hole (1)(P11)	68.5	15 Oct 2009	17 Oct 2009	387.00	16.125	2004.0m

General Comments

00:00 TO 24:00 Hrs ON 17 Oct 2009

Operational Comments
Ditch Magnets: 24 hour metal recovery - 50.0 grams. Total for section - 50.0 grams.

WBM Data
Cost Today US\$ 27065

Mud Type:	KCI POLYMER	API FL:	5.6cc/30min	Cl:	39000mg/l	Solids(%vol):	3%	Viscosity	54sec/qt
Sample-From:	4	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	94%	PV	16cp
Time:	2115	HTHP-FL:	10.4cc/30min	Hard/Ca:	380mg/l	Oil(%):		YP	29lb/100ft²
Weight:	9.00ppg	HTHP-cake:	2/32nd"	MBT:	10	Sand:		Gels 10s	12
Temp:	35C°			PM:	0.3	pH:	9	Gels 10m	18
				PF:	0.3	PHPA:	2ppb	Fann 003	10
								Fann 006	12
								Fann 100	29
								Fann 200	36
								Fann 300	45
								Fann 600	61

Comment Note: Cost is in AUD

Bit # 3

	Wear	I	O1	D	L	B	G	O2	R
Bitwear Comments:									
Size ("):	12.25in	IADC#	M432	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Mfr:	REED	WOB(avg)	15.00klb	No.	Size	Progress	464.0m	Cumul. Progress	1069.0m
Type:	PDC	RPM(avg)	100	8	13/32nd"	On Bottom Hrs	13.9h	Cumul. On Btm Hrs	25.6h
Serial No.:	222369	F.Rate	1000gpm			IADC Drill Hrs	23.0h	Cumul. IADC Drill Hrs	44.4h
Bit Model	RSX616M	SPP	2700psi			Total Revs	326000	Cumul. Total Revs	465027
Depth In	935.0m	HSI				ROP(avg)	33.38 m/hr	ROP(avg)	41.76 m/hr
Depth Out		TFA	1.037						
Bit Comment									

BHA # 3

Weight(Wet)	68340.00klb	Length	252.7m	Torque(max)	10000ft-lbs	D.C. (1) Ann Velocity	299fpm
Wt Below Jar(Wet)	36205.00klb	String	340000.00klb	Torque(Off.Btm)	6000ft-lbs	D.C. (2) Ann Velocity	0fpm

Pick-Up	330000.00klb	Torque(On.Btm)	4000ft-lbs	H.W.D.P. Ann Velocity	196fpm
Slack-Off	340000.00klb			D.P. Ann Velocity	196fpm

BHA Run Description

BHA Run Comment Hours on drilling jars = 103.5 hrs.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.30m	12.25in		222369	8x13 Jets
Mud Motor	9.22m	9.63in		963448	Ported float installed
String Stab	1.86m	12.25in	3.00in	701049	
LWD Tools	12.08m	8.00in			
NM Drill Collar	4.80m	8.00in		246906	
String Stab	1.88m	12.25in	3.00in	231931	
Drill Collar	84.74m	8.25in	2.88in		
Drilling Jars	9.68m	8.00in		17621339	
Drill Collar	18.63m	8.25in	2.88in		
X/Over Sub	1.09m	6.75in			
HWDP	141.54m	5.00in	3.00in		

Survey

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
1559.00	1.1		1558.84	19.5	19.5	0.0	0.3	MWD
1588.15	1.1		1587.99	20.1	20.1	0.0	0.0	MWD
1617.27	1.1		1617.10	20.6	20.6	0.0	0.0	MWD
1646.32	1.2		1646.15	21.2	21.2	0.0	0.3	MWD
1675.15	1.3		1674.97	21.8	21.8	0.0	0.3	MWD
1703.61	1.0		1703.43	22.4	22.4	0.0	1.1	MWD
1731.98	1.1		1731.79	22.9	22.9	0.0	0.4	MWD
1760.71	1.2		1760.52	23.5	23.5	0.0	0.3	MWD
1790.08	1.1		1789.88	24.1	24.1	0.0	0.3	MWD
1819.45	1.2		1819.24	24.7	24.7	0.0	0.3	MWD
1848.52	1.2		1848.31	25.3	25.3	0.0	0.0	MWD
1877.80	1.1		1877.58	25.9	25.9	0.0	0.3	MWD
1906.65	1.2		1906.43	26.5	26.5	0.0	0.3	MWD
1934.67	1.1		1934.44	27.0	27.0	0.0	0.4	MWD
1963.22	0.5		1962.99	27.4	27.4	0.0	2.1	MWD
1992.33	0.6		1992.10	27.7	27.7	0.0	0.3	MWD

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	14	0	419.0
Drill Water	m3	0	0	0	440.0
Pot Water	m3	18	33	0	227.0
Brine	m3	0	17	0	73.0
Barite	MT	0	0	0	91.0
Baradefoam-W300	can	0	9	0	7.0
Barolift	boxes	0	0	0	18.0
Bentonite	MT	0	0	0	48.2
Caustic Soda	pail	0	0	0	26.0
Lime	sx	0	0	0	54.0
Soda Ash	sx	0	9	0	47.0
Shaker Screen 110	box	0	0	0	24.0
Shaker Screen 140	box	0	0	0	40.0
Shaker Screen 175	box	0	0	0	24.0
Shaker Screen 50	box	0	0	0	-8.0
Shaker Screen 210	box	0	0	0	24.0
Sodium Bicarbonate	25kg sx	0	0	0	39.0
Rig Fuel	m3	0	0	0	561.0
Drill Water	m3	0	150	0	266.0
Potable Water	m3	0	0	0	208.0

Pumps																	
Pump Data - Last 24 Hrs								Slow Pump Data									
No.	Type	Liner (in)	MW (sg)	Eff (%)	SPM (SPM)	SPP (psi)	Flow (gpm)	Depth (m)	SPM1 (SPM)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	Continental Emsco	6.50	1.09	97	80	1000	330	1581.0	30	150	150	40	200	200	50	260	250
2	Continental Emsco	6.50	1.09	97	80	1000	330	1581.0	30	200	160	40	190	200	50	240	250
3	Continental Emsco	6.50	1.09	97	80	1000	330	1581.0	30	200	150	40	250	200	50	300	260

Casing			
OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	153.00m / 153.00m	30" Cement Job: Pumped 50 bbls spacer ahead. Mixed 260 bbls of 15.8ppg (53 MT) class G cement with 155 bbls of seawater. Displaced with 72.4 bbls of seawater.
13.38	/	930.00m / 930.00m	13 3/8" Cement Job: Pumped 50 bbls of spacer ahead. Mixed 436 bbls (35 MT) of 11.5 ppg lead cement with 368 bbls of mix water. Mixed 67 bbls (14 MT) of 15.8 ppg tail cement with 40 bbls of mix water. Displaced with 412 bbls of seawater.
13.38	/	930.00m / 930.00m	

Personnel On Board	
Company	Pax
ADA	6
Maersk	43
GRN	1
OMS	17
Geoservices	6
Halliburton Cementers	2
Haliburton Directional Drilling	1
Halliburton	3
Halliburton (Baroid)	2
Fugro ROV	3
Dril-Quip	2
Swaco	1
PCS	6
Others	3
Total	96

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : MikeLawrance / Kosta Georgiou			
Available	2655.0bbl	Losses	326.3bbl	Equipment	Description	Mesh Size	Comments
Active	178.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50bottom	Centrifuge #2 down due to electrical fan motor failure. New motor orderd.
Mixing	350.0bbl	Surf+ Equip	309.3bbl	Shaker 1	Brandt VSM 300	20 top/50bottom	
Hole	945.0bbl	Dumped		Shaker 2	Brandt VSM 300	20 top/50bottom	
Slug	4.0bbl	De-Gasser		Shaker 3	Brandt VSM 300	20 top/50bottom	
Reserve	1178.0bbl	De-Sander		Shaker 3	Brandt VSM 300	20 top/50bottom	
Kill		De-Silte Centrifuge	17.0bbl	Shaker 4	Brandt VSM 300	20 top/50bottom	
				Shaker 4	Brandt VSM 300	20 top/50bottom	

Marine

Weather on 17 Oct 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	12kn	237.0deg	1024.0mbar	9C°	1.2m	237.0deg	3s	1	267.0
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments			
317.0deg	240000.00klb	95508.00klb	1.5m	237.0deg	5s				
Comments								2	126.0
								3	134.0
								4	206.0
								5	136.0
								6	124.0
								7	193.0
								8	197.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Item	Unit	Used	Quantity				
Far Scimitar	08:30 hrs 13/10/09	08:45 hrs 17/10/09	Alongside south wharf.	Rig Fuel	M3		557
				Potable Water	M3		540
				Drill Water	M3		196
					t		55
				Barite	t		0
				Bentonite	t		0
				Brine	M3		165
				Far Fosna	06:00 hrs 17/10/09		Standby Rig
Pot Water	M3		475				
Drill Water	M3		582				
Bentonite	t		42				
Barite	t		42				
	t		130				
Brine	M3		130				

No midnight report received.

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	13:529hrs / 14:06 hrs	6 / 1	Crew Change