

**DRILLING MORNING REPORT # 9**  
**Trefoil-2**

09 Oct 2009

 From: John Mcgarrity/ Peter Dane  
 To: Texas Richards

Well Data							
Country	Australia	MDBRT	849.0m	Cur. Hole Size	17.500in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	849.0m	Last Casing OD	30.000in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	609.0m	Shoe TVDBRT	153.0m	Daily Cost	US\$600,000
Rig	Kan Tan IV	Days from spud	3.67	Shoe MDBRT	153.0m	Cum Cost	US\$9,832,091
Wtr Dpth(MSL)	69.0m	Days on well	8.13	FIT/LOT:	/		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Drilling ahead 17.5" hole. Depth at 06:00 hrs 929m.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Complete drilling 17.5" hole to section TD at 935m. Circulate hole clean. Make wiper trip to 20" shoe Displace well to PHB mud. POOH with BHA Rig up and run 13.375" casing.		

**Summary of Period 0000 to 2400 Hrs**

Drilling ahead 17.5" Hole.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	9 Days	Held abandon Drill prior to tow.	
Last BOP stack test	2	35 Days	Test BOP	
Permit To Work	8	0 Days	Permits administerd.	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	5 Days	Held 2 x General Safety Meeting	
STOP Card	30	0 Days	Number of STOP Cards submitted	

**FORMATION**

Name	Top
Torquay Group	95.00m

**Operations For Period 0000 Hrs to 2400 Hrs on 09 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D8	0000	0600	6.00	390.0m	Drilled 17.5" hole from 245m to 390m with seawater. Average Parameters: ROP 23 m/hr, RPM 150, WOB 0-5k, flow rate 1200 gpm, SPP 2300 psi, Torque 5 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection
P4	P	D8	0600	1200	6.00	561.0m	Drilled 17.5" hole from 390m to 561m with seawater. Average Parameters: ROP 28.5 m/hr, RPM 150, WOB 5-12k, flow rate 1140 gpm, SPP 2300 psi, Torque 6-12 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection
P4	P	D8	1200	1800	6.00	748.0m	Drilled 17.5" hole from 561m to 748m with seawater. Average Parameters: ROP 31.1 m/hr, RPM 150, WOB 6-10k, flow rate 1180 gpm, SPP 2350 psi, Torque 4-8 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection
P4	P	D8	1800	2400	6.00	849.0m	Drilled 17.5" hole from 748m to 849m with seawater. Average Parameters: ROP 16.8 m/hr, RPM 150, WOB -8-12k, flow rate 1150 gpm, SPP 2420 psi, Torque 4-7 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection

**Operations For Period 0000 Hrs to 0600 Hrs on 10 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D8	0000	0600	6.00	929.0m	Drilled 17.5" hole from 849m to 929m with seawater. Average Parameters: ROP 13.3 m/hr, RPM 150, WOB -8-14k, flow rate 1150 gpm, SPP 2420 psi, Torque 4-8 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection

**Operations For Period Hrs to Hrs on**

**Phase Data to 2400hrs, 09 Oct 2009**

Phase	Phase Hrs	Start On	Finish On	Cum Hrs	Cum Days	Max Depth
Mob/Demob(P1)	69.5	21 Sep 2009	04 Oct 2009	69.50	2.896	0.0m
Conductor Hole(P2)	53.5	04 Oct 2009	06 Oct 2009	123.00	5.125	155.0m
Conductor Casing(P3)	30	07 Oct 2009	08 Oct 2009	153.00	6.375	155.0m
Surface Hole(P4)	42	08 Oct 2009	09 Oct 2009	195.00	8.125	849.0m

**WBM Data**
**Cost Today US\$ 17482**

Mud Type: PHB Gel	API FL:	CI:	Solids(%vol):	Viscosity	120sec/qt
Sample-From:	Filter-Cake:	K+C*1000:	H2O: 98%	PV	45cp
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	YP	21lb/100ft <sup>2</sup>
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:		PM:	pH: 9	Gels 10m	
		PF:	PHPA:	Fann 003	13
				Fann 006	15
				Fann 100	31
				Fann 200	44
				Fann 300	66
				Fann 600	111

Comment Note: Cost is in AUD

**Bit # 2**

Wear	I	O1	D	L	B	G	O2	R	
Bitwear Comments:									
Size ("):	17.50in	IADC#	115	<b>Nozzles</b>		<b>Drilled over last 24 hrs</b>		<b>Calculated over Bit Run</b>	
Mfr:	Smith	WOB(avg)	9000.00klb	No.	Size	Progress	609.0m	Cum. Progress	701.0m
Type:	mt	RPM(avg)	120	1	13/32nd"	On Bottom Hrs	24.0h	Cum. On Btm Hrs	29.0h
Serial No.:	PM2605	F.Rate	1150gpm	3	22/32nd"	IADC Drill Hrs	29.0h	Cum IADC Drill Hrs	34.0h
Bit Model	XR+VCPS	SPP	2350psi			Total Revs		Cum Total Revs	0
Depth In	153.0m	HSI				ROP(avg)	25.38 m/hr	ROP(avg)	24.17 m/hr
Depth Out		TFA	1.243						
Bit Comment									

**BHA # 2**

Weight(Wet)	75000.00klb	Length	244.3m	Torque(max)	12000ft-lbs	D.C. (1) Ann Velocity	130fpm
Wt Below Jar(Wet)	25000.00klb	String	260000.00klb	Torque(Off.Btm)	2500ft-lbs	D.C. (2) Ann Velocity	116fpm
		Pick-Up	260000.00klb	Torque(On.Btm)	6000ft-lbs	H.W.D.P. Ann Velocity	100fpm
		Slack-Off	270000.00klb			D.P. Ann Velocity	100fpm

BHA Run Description

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.44m	17.50in		PM2605	
Bit Sub	1.22m	9.50in	3.00in		
MWD	9.74m	9.50in	3.25in	46809	
Stabiliser	2.51m	17.50in		T19048	
Drill Collar	9.45m	9.50in		1141	
Stabiliser	2.05m	17.50in		207A34	
X/Over Sub	1.13m	8.00in		94	
Drill Collar	18.63m	8.25in		1160	
Drilling Jars	9.68m	8.00in		1158	
Drill Collar	75.33m	8.25in			
X/Over Sub	1.09m	5.00in	3.00in		
HWDP	113.04m				

**Survey**

MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
0.00	0.0	0.0	0.00	0.0	0.0	0.0	0.0	MWD MWD

Survey								
MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N/-S (m)	E/-W (m)	DLS (deg/30m)	Tool Type
95.00	0.0		95.00	0.0	0.0	0.0	0.0	MWD
204.92	0.6		204.92	0.6	0.6	0.0	0.5	MWD
289.50	0.6		289.49	1.5	1.5	0.0	0.0	MWD
376.49	0.3		376.48	2.1	2.1	0.0	0.3	MWD
435.08	0.4		435.07	2.5	2.5	0.0	0.2	MWD
521.95	0.7		521.94	3.3	3.3	0.0	0.3	MWD
547.83	0.7		547.81	3.7	3.7	0.0	0.0	MWD
579.00	0.7		578.98	4.0	4.0	0.0	0.0	MWD
665.44	0.4		665.42	4.9	4.9	0.0	0.3	MWD
782.28	0.7		782.25	6.0	6.0	0.0	0.3	MWD

Bulk Stocks					
Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	26	0	518.0
Drill Water	m3	0	38	0	379.0
Pot Water	m3	54	46	0	222.0
Brine	m3	88	0	0	88.0
Barazan D+	25kg/sx	0	10	0	64.0
Barite	MT	0	0	0	47.0
Baradefoam-W300	can	0	0	0	16.0
Barolift	boxes	0	0	0	18.0
Bentonite	MT	0	10	0	0.0
Caustic Soda	pail	0	10	0	34.0
Con-Det	5 gal/pail	0	0	0	32.0
Dextrid Lte	25kg/sx	0	0	0	216.0
Guar Gum	25kg/sx	0	46	0	20.0
Lime	sx	0	0	0	50.0
Mica	25kg/sx	0	0	0	40.0
Omyacarb 5	25kg/sx	0	0	0	240.0
Pac-LE	25kg/sx	0	0	0	110.0
Soda Ash	sx	0	0	0	72.0
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	24.0
Generic Screen 20	box	0	0	0	24.0
Sodium Bicarbonate	25kg sx	0	0	0	48.0
STEELSEAL 400	m3	0	0	0	561.0
Sourscav	m3	0	0	0	416.0
Potassium Hydroxide	m3	0	0	0	208.0
Aldacide	25kg/pail	0	3	0	26.0

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		97	80	1200	400										
2	Continental Emsco	6.50		97	80	1200	400										
3	Continental Emsco	6.50		97	80	1200	400										

Personnel On Board	
Company	Pax
ADA	8
Maersk	44

**Personnel On Board**

OMS	15
GRN	3
Halliburton	2
Dril-Quip	2
Halliburton (Baroid)	2
Reach	1
PCS	3
Fugro ROV	6
Halliburton	2
Geoservices	3
Other	4
<b>Total</b>	<b>95</b>

**Mud Volumes, Mud Losses and Shale Shaker Data**

Engineer : Jay Wan / Kosta Georgiou

Available	5499.2bbl	Losses	92.9bbl	Equipment	Description	Mesh Size	Comments
Active	1822.0bbl	Downhole					
Mixing		Surf+ Equip	0.0bbl				
Hole	1772.2bbl	Dumped	92.9bbl				
Slug Reserve	1285.0bbl	De-Gasser De-Sander					
Kill	620.0bbl	De-Silter Centrifuge					

**Marine**

Weather on 09 Oct 2009

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	15kn	55.0deg	1031.0mbar	9C°	1.3m	55.0deg	3s
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments	
317.0deg		161.00klb	1.2m	100.0deg	5s		
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
				Item	Unit	Used	Quantity
Far Scimitar		08:30 hrs 9/10/09	In Port	Rig Fuel	M3		677
				Potable Water	M3		525
				Drill Water	M3		196
					t		120
				Clayseal Plus	t		0
				Bentonite	t		42
				EZ-Mud	M3		190
Far Fosna	08:30 9/10/09		Standby Rig	STEELSEAL 400	M3		433
				Pot Water	M3		496
				Drill Water	M3		590
				Bentonite	t		0
				Clayseal Plus	t		42
					t		0
				EZ-Mud	M3		284

**Helicopter Movement**

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	08:58 / 09:08	8 / 8	Crew Change