

**DRILLING MORNING REPORT # 7**  
**Trefoil-2**
**07 Oct 2009**

 From: John Mcgarrity/ Peter Dane  
 To: Texas Richards

Well Data							
Country	Australia	MDBRT	155.0m	Cur. Hole Size	36.000in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	155.0m	Last Casing OD	30.000in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	0.0m	Daily Cost	US\$603,734
Rig	Kan Tan IV	Days from spud	1.67	Shoe MDBRT	0.0m	Cum Cost	US\$8,620,775
Wtr Dpth(MSL)	69.0m	Days on well	6.13	FIT/LOT:	/		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Make up 17.5" BHA		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Make up 17.5" BHA. RIH and tag cement. Drill cement and shoe. Drill 17.5" hole section.		

**Summary of Period 0000 to 2400 Hrs**

Ran and cemented 30" conductor.  
 Waited on cement.  
 Backed out 30" R/Tool and POOH.  
 Made up 18 3/4" HPWH inner cement stinger assembly.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	7 Days	Held abandon drill prior to tow.	
Last BOP stack test	2	33 Days	Test BOP	
Permit To Work	8	0 Days	Permits administered.	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	3 Days	Held 2 x General Safety Meeting	
STOP Card	40	0 Days	Number of STOP Cards submitted	

**FORMATION**

Name	Top
Torquay Group	95.00m

**Operations For Period 0000 Hrs to 2400 Hrs on 07 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G9	0000	0100	1.00	155.0m	Lowered conductor to splash zone. Engaged TDS and pumped at 1000 gpm with seawater venting all air. Closed casing valve.
P3	P	G9	0100	0130	0.50	155.0m	Observed entry of shoe into existing hole with ROV sonar.
P3	P	G9	0130	0230	1.00	155.0m	Continued RIH with 30" conductor on 5" HWDP landing string.
P3	P	G9	0230	0330	1.00	155.0m	Made up cement stand and spaced out to set 30" shoe at 153m with 3m stick up above seabed.
P3	P	G9	0330	0400	0.50	155.0m	ROV confirmed bullseye reading 1/4 deg to port and rig heading 316 deg. PGB stickup 3m from mudline.
P3	TP (RE)	G9	0400	0500	1.00	155.0m	Observed twist in guide lines. Checked guide line tensioner system and found #1 guideline tensioner leaking.
P3	TP (RE)	G9	0500	0730	2.50	155.0m	Subsea investigated seal failure on guide line tensioner #1.
P3	TP (RE)	G9	0730	0800	0.50	155.0m	Pulled back casing 10m tension up guideline. Rotated PGB and removed twist on guide lines. Slacked off - shoe at 153m.
P3	P	F4	0800	1100	3.00	155.0m	Circulated with seawater at 600 gpm to avoid hole washout. ROV confirmed heading at 307 deg, bullseye aft/stb 1/4 deg (operation delayed due to poor visibility). Concurrently held JSA and prepared for cement job.
P3	P	F3	1100	1200	1.00	155.0m	Pumped 30 bbls of spacer ahead with cement unit. Pressure tested cement lines to 1000 psi. Followed by 20 bbls of mica.
P3	P	F3	1200	1400	2.00	155.0m	Pumped 50 bbls of seawater spacer ahead. Mixed and pumped 260 bbls 15.8 ppg class G slurry (53 MT) with 155 bbls of seawater. Displaced with 72.4 bbls of seawater. Cement in place at 13:45 hrs. Returns observed at mudline.
P3	P	G24	1400	1900	5.00	155.0m	Waited on cement.
P3	P	G12	1900	1930	0.50	155.0m	ROV confirmed heading 307 deg and inclination aft/stb 1/4 deg. Slacked off 3m and backed out 30" running tool.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G8	1930	2130	2.00	155.0m	POOH and racked back cement stand. POOH with landing string. Broke out and laid down 30" running tool.
P3	P	G12	2130	2400	2.50	155.0m	Picked up and made up inner string stinger assembly to 18 3/4" HPWH housing running tool. Made up Halliburton swivel equaliser assembly to inner string. Drifted inner string with 2 7/8" drift. Laid out inner string assembly.

**Operations For Period 0000 Hrs to 0600 Hrs on 08 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P3	P	G12	0000	0230	2.50	155.0m	Picked up and made up 18 3/4" HPWH housing. Lowered housing to rotary table. Removed wellhead running tool. Picked up wellhead running tool and inner string assembly. Installed Halliburton SSR plugs to assembly and made up wellhead running tool. Laid out same.
P3	P	G6	0230	0600	3.50	155.0m	Laid out 26" drill bit, 36" hole opener, Anderdrift , 2 x 9.5" DC

**Operations For Period Hrs to Hrs on**
**Phase Data to 2400hrs, 07 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)	46.5	04 Oct 2009	06 Oct 2009	116.00	4.833	155.0m
Conductor Casing(P3)	31	06 Oct 2009	07 Oct 2009	147.00	6.125	155.0m

**General Comments**

00:00 TO 24:00 Hrs ON 07 Oct 2009

<b>Operational Comments</b>	This is the first DGR for Trefoil-2
<b>Operational Comments</b>	Seal failure on guide line tensioner #1. Removed oil from above piston and recharged system.
<b>Operational Comments</b>	Trefoil-2 spud at 0800 hrs 6 Oct 09
<b>Operational Comments</b>	Geoservices: 2 Data engineers, 1 technician on board. Connecting up communications networks. Sperry: 2 MWD engineers, 1 technician on board. 445 mm tools: main and back up checked OK. SLB: 1 communications tech on board, working on phones.

**WBM Data**
**Cost Today US\$ 6876**

Mud Type:	PHB Gel	API FL:	Cl:	Solids(%vol):	Viscosity	126sec/qt
Sample-From:		Filter-Cake:	K+C*1000:	H2O: 98%	PV	45cp
Time:		HTHP-FL:	Hard/Ca:	Oil(%):	YP	25lb/100ft²
Weight:		HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:			PM:	pH: 9	Gels 10m	
			PF:	PHPA:	Fann 003	13
					Fann 006	15
					Fann 100	32
					Fann 200	44
					Fann 300	68
					Fann 600	115
Comment	Note: Cost is in AUD					

**Bulk Stocks**

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	5	0	561.0
Drill Water	m3	0	38	0	416.0
Potable Water	m3	31	9	0	208.0
Barite	MT	0	0	0	91.0
Baradefoam-W300	can	0	0	0	16.0
Barolift	boxes	0	0	0	18.0
Bentonite	MT	0	7.9	0	58.2
Caustic Soda	pail	32	0	0	52.0
Lime	sx	0	0	0	56.0
Soda Ash	sx	40	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
Shaker Screen 210	box	0	0	0	24.0
Sodium Bicarbonate	25kg sx	48	0	0	48.0

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite	55gal	32	0	0	32.0	
Brine	pail	128	0	0	128.0	
Cement class 'G'	pail	23	0	0	23.0	
Potable Water	pail	64	0	0	64.0	
Drill Water	pail	32	0	0	32.0	
Mud	Sacks	40	0	0	40.0	
Rig Fuel	Sacks	40	0	0	40.0	

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													
2	Continental Emsco	6.50		97													
3	Continental Emsco	6.50		97													

Personnel On Board	
Company	Pax
ADA	5
Maersk	44
OMS	16
GRN	3
Halliburton	2
Dril-Quip	2
Halliburton (Baroid)	2
Reach	1
PCS	3
Fugro ROV	6
Halliburton	3
Geoservices	3
Other	4
<b>Total</b>	<b>94</b>

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / James Munford			
Available	Losses	Equipment	Description	Mesh Size	Comments		
1551.8bbl	0.0bbl						
Active	Downhole						
50.0bbl	Surf+ Equip						
Mixing	Dumped						
140.8bbl	De-Gasser						
Slug Reserve	De-Sander						
1361.0bbl	De-Silter Centrifuge						
Kill							

Marine

Weather on 07 Oct 2009							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
8.0nm	8kn	100.0deg	1025.0mbar	9C°	1.3m	100.0deg	3s
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments	
317.0deg		46.00klb	1.8m	90.0deg	5s	A High pressure cell over waters south of South Australia is expected to drift slowly ESE towards Tasmania over the next 2 to 3 days. Mainly moderate to fresh S~SE'ly winds can be expected at first, shifting and easing to moderate-light ESE~'NEly later in the forecast period. Low to moderate WSW~S'ly swell expected to persist in the Bass Strait throughout the forecast period. Fair	
Comments							
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar	07:10 hrs 07/10/09		Standby Rig	Item	Unit	Used	Quantity
				Rig Fuel	M3		200
				Potable Water	M3		450
				Drill Water	M3		196
					t		120
				Barite	t		0
				Bentonite	t		42
Brine	M3		190				
Far Fosna		07:10 hrs 07/10/09	S 27 Melbourne	Item	Unit	Used	Quantity
				Rig Fuel	M3		210
				Pot Water	M3		390
				Drill Water	M3		320
				Bentonite	t		0
				Barite	t		42
					t		0
Helicopter Movement							
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment			
1	Bristow Helicopters	09:03 / 09:15	6 / 8	Crew Change			