

DRILLING MORNING REPORT # 8
Trefoil-2

08 Oct 2009

 From: John Mcgarrity/ Peter Dane
 To: Texas Richards

Well Data							
Country	Australia	MDBRT	245.0m	Cur. Hole Size	17.500in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	245.0m	Last Casing OD	30.000in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	90.0m	Shoe TVDBRT	153.0m	Daily Cost	US\$611,316
Rig	Kan Tan IV	Days from spud	2.67	Shoe MDBRT	153.0m	Cum Cost	US\$9,232,091
Wtr Dpth(MSL)	69.0m	Days on well	7.13	FIT/LOT:	/		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Drilling 17.5" hole. Depth at 06:00 hrs 390m.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Drill 17.5" hole to section TD.		

Summary of Period 0000 to 2400 Hrs

Picked up 18 3/4" HPWH housing. Installed SSR plugs to inner cement stinger. Made up primary running tool and laid out 18 3/4" HPWH housing assembly. Laid down 36" BHA. Made up 17.5" BHA. Drilled 30"/20" shoe. Drilled 17.5" hole from 155m to 245m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	8 Days	Held abandon drill prior to tow.	
Last BOP stack test	2	34 Days	Test BOP	
Permit To Work	7	0 Days	Permits administered.	
Pre-tour Meeting	2	1 Day	Shift change meetings	
Safety Meeting	2	4 Days	Held 2 x General Safety Meeting	
STOP Card	33	0 Days	Number of STOP Cards submitted	

FORMATION

Name	Top
Torquay Group	95.00m

Operations For Period 0000 Hrs to 2400 Hrs on 08 Oct 2009

Phse	Clc (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
P4	P	G6	0600	0800	2.00	155.0m	Held JSA prior to picking up 17.5" BHA. Made up 17.5" drill bit, bit sub w/float, 9.5" NMHOC and RIH.
P4	TP (RE)	G11	0800	0930	1.50	155.0m	Iron roughneck damaged. Secured pipe spinner carrier, hydraulic motor broken. Repaired same.
P4	P	G6	0930	1100	1.50	155.0m	Handle BHA. Made up 1 x 17.5" stabiliser, 1 x 9.5" drill collar, 1 x 17.5" stabiliser, crossover, 2 x 8.25" drill collars and RIH. Attached stab-in lines to NMHOC.
P4	P	G12	1100	1130	0.50	155.0m	Held JSA. Attached stab in lines to guidelines.
P4	P	G6	1130	1400	2.50	155.0m	RIH with 17.5" BHA. Picked up and made up 8" drilling jars. Continued RIH to above 30" WHH.
P4	P	G8	1400	1430	0.50	155.0m	Stabbed into 30" WHH with ROV assistance.
P4	P	G8	1430	1530	1.00	155.0m	Continued RIH with 17.5" BHA
P4	P	G15	1530	1600	0.50	155.0m	Installed gelograph wires. Halliburton shallow tested MWD at 1200 gpm, 1000 psi.
P4	P	F1	1600	1630	0.50	155.0m	Washed down from 140m to 30"/20" shoe at 153m
P4	P	D1	1630	1900	2.50	155.0m	Drilled out 30"/20" shoe and worked bit and stabilisers through shoe to clean up.
P4	P	D8	1900	2400	5.00	245.0m	Drilled 17.5" hole from 155m to 245m with seawater. Average Parameters: ROP 18 m/hr, RPM 150, WOB 0-5k, flow rate 1200 gpm, SPP 2100 psi, Torque 5000 Klbs/ft. Pumped 40 bbls sweep per single and 40 bbls prior to each connection.

Operations For Period 0000 Hrs to 0600 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 5000 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, 08 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)	37	06 Oct 2009	08 Oct 2009	153.00	6.375	155.0m
Surface Hole(P4)	18	08 Oct 2009	08 Oct 2009	171.00	7.125	245.0m

General Comments

00:00 TO 24:00 Hrs ON 08 Oct 2009

Operational Comments	Geoservices: 2 Data engineers, 2 mudloggers, 1 technician on board. Testing real time data links. Gas traps installed. Sperry: 2 MWD engineers on board. Back up checked OK. Shallow test OK. SLB: 1 communications tech on board, working on phones.
Operational Comments	Iron roughneck damaged. Secured pipe spinner carrier. Hydraulic motor broken.

WBM Data
Cost Today US\$ 2952

Mud Type:	PHB Gel	API FL:	CI:	Solids(%vol):	Viscosity	120sec/qt
Sample-From:		Filter-Cake:	K+C*1000:	H2O:	YP	45cp
Time:		HTHP-FL:	Hard/Ca:	Oil(%):	Gels 10s	21lb/100ft²
Weight:		HTHP-cake:	MBT:	Sand:	Gels 10m	
Temp:			PM:	pH:	Fann 003	13
			PF:	PHPA:	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	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Mfr:	Smith	WOB(avg)	5.00klb	No.	Size	Progress	90.0m	Cum. Progress	90.0m
Type:	mt	RPM(avg)	150	1	13/32nd"	On Bottom Hrs	5.0h	Cum. On Btm Hrs	5.0h
Serial No.:	PM2605	F.Rate	1200gpm	3	22/32nd"	IADC Drill Hrs		Cum IADC Drill Hrs	0.0h
Bit Model	XR+VCPS	SPP	2100psi			Total Revs		Cum Total Revs	0
Depth In	153.0m	HSI				ROP(avg)	18.00 m/hr	ROP(avg)	18.00 m/hr
Depth Out		TFA	1.243						
Bit Comment									

BHA # 2

Weight(Wet)	75000.00klb	Length	244.3m	Torque(max)	5000ft-lbs	D.C. (1) Ann Velocity	136fpm
Wt Below Jar(Wet)	25000.00klb	String	220000.00klb	Torque(Off.Btm)	2500ft-lbs	D.C. (2) Ann Velocity	121fpm
		Pick-Up	210000.00klb	Torque(On.Btm)	5000ft-lbs	H.W.D.P. Ann Velocity	105fpm
		Slack-Off	225000.00klb			D.P. Ann Velocity	105fpm

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	

Equipment	Length	OD	ID	Serial #	Comment
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				

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	544	0	0	544.0
Drill Water	m3	417	0	0	417.0
Pot Water	m3	214	0	0	214.0
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	0	0	58.2
Caustic Soda	pail	0	8	0	44.0
Lime	sx	0	2	0	54.0
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
Shaker Screen 210	box	0	0	0	24.0
Sodium Bicarbonate	25kg sx	0	0	0	48.0
Rig Fuel	m3	0	0	0	561.0
Drill Water	m3	0	0	0	416.0
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		97													
2	Continental Emsco	6.50		97													
3	Continental Emsco	6.50		97													

Personnel On Board

Company	Pax
ADA	8
Maersk	45
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
Total	96

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Jay Wan / James Munford

Available	1822.2bbl	Losses	92.9bbl	Equipment	Description	Mesh Size	Comments
Active	50.0bbl	Downhole					
Mixing		Surf+ Equip	0.0bbl				
Hole	487.2bbl	Dumped	92.9bbl				
Slug Reserve	1285.0bbl	De-Gasser De-Sander					
Kill		De-Silting Centrifuge					

Marine

Weather on 08 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		
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		697
				Potable Water	M3		528
				Drill Water	M3		196
					t		120
				Barite	t		0
				Bentonite	t		42
Brine	M3		190				
Far Fosna		07:10 hrs 07/10/09	Enroute to Kan Tan 1V	Item	Unit	Used	Quantity
				Rig Fuel	M3		446
				Pot Water	M3		499
				Drill Water	M3		590
				Bentonite	t		0
				Barite	t		42
					t		0
Brine	M3		284				

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	09:04 / 09:13	2 / 1	Crew Change