

DRILLING MORNING REPORT # 6
Trefoil-2

06 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	60.0m	Shoe TVDBRT	0.0m	Daily Cost	US\$850,000
Rig	Kan Tan IV	Days from spud	0.67	Shoe MDBRT	0.0m	Cum Cost	US\$4,917,261
Wtr Dpth(MSL)	69.0m	Days on well	5.13	FIT/LOT:	/		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Investigate guide line tensioners		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Cement 30" Conductor. Wait on cement Back out running tool. POOH with landing string. Lay down 36" BHA and pick up 17 1/2" BHA.		

Summary of Period 0000 to 2400 Hrs

Made up 36" BHA and RIH.
 Spudded Trefoil-2 at 08:00 hrs 6th October 2009.
 Drilled 36" hole to 155m. Made wiper trip to mudline. Pumped 100 bbls PHB. POOH and racked back BHA. Rigged up and ran 30" conductor to 59.5m.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	6 Days	Held abandon Drill prior to tow.	
Last BOP stack test	2	32 Days	Test BOP	
Permit To Work	8	0 Days	Permits administerd.	
Pre-tour Meeting	2	1 Day	Shift change meetings	
Safety Meeting	2	2 Days	Held 2 x General Safety Meeting	
STOP Card	44	0 Days	Number of STOP Cards submitted	

Operations For Period 0000 Hrs to 2400 Hrs on 06 Oct 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P2	P	G6	0000	0100	1.00	0.0m	Continued picking up 8 1/4" drill collars.
P2	P	G6	0100	0200	1.00	0.0m	Made up cement stand and racked back in derrick
P2	P	G6	0200	0330	1.50	0.0m	Continued picking up 8 1/4" drill collars.
P2	P	G6	0330	0400	0.50	0.0m	Made up crossover and pup joint and engaged TDS. Function tested Anderdrift survey tool. Good test.
P2	TP (RE)	G6	0400	0500	1.00	0.0m	Delay in starting-up pump #3.
P2	P	F3	0500	0530	0.50	0.0m	Ran and tested pumps #1, #2 and #3 at 240 spm, 1200 gpm, 1180 psi. All pumps ok.
P2	P	G6	0530	0800	2.50	0.0m	Pick up remaining 8 1/4" drill collars. Engaged TDS and prepared to spud Trefoil-2.
P2	P	D8	0800	1200	4.00	0.0m	Spudded Well. Confirmed following: RT to MSL = 26m. RT to Seabed = 95m. Water Depth = 69m. Drilled 26"/36" hole from mudline at 95m to 155m. (26" bit @156.5m). Pumped 3 x 50 bbl PHB sweeps per stand. Reamed each stand. Took Anderdrift survey at mudline and each stand drilled and at TD. Pumped 100 bbls PHB mud.
P2	P	G8	1200	1230	0.50	155.0m	POOH from 155m to mudline at 95m. No drag.
P2	P	G8	1230	1330	1.00	155.0m	RIH to TD at 155m. No fill.
P2	P	F3	1330	1400	0.50	155.0m	Displaced hole with 1.5 x volume (370 bbls) of PHB mud.
P2	P	G8	1400	1700	3.00	155.0m	POOH and racked back BHA. Concurrently positioned PGB on transporter skid..
P2	P	G1	1700	1730	0.50	155.0m	Held PJSM. Rigged up to run 30" conductor.
P2	P	G9	1730	2130	4.00	155.0m	Picked up 20" x 30" swaged shoe joint and confirmed float drains. Continued running 2 x Intermediate joints and 1 x crossover joint to 47.4m.
P2	P	G9	2130	2200	0.50	155.0m	Picked up 30" wellhead and landed in rotary table
P2	P	G1	2200	2230	0.50	155.0m	Rigged down 30" handling equipment and cleared rig floor of all excess equipment.
P2	P	G9	2230	2300	0.50	155.0m	Installed C-Plate and RIH 1 x stand of 5" drill pipe stinger. Made up wellhead running tool to cement stinger.
P2	P	G9	2300	2400	1.00	155.0m	Lower wellhead into PGB on transporter in moonpool. Engaged housing snap ring.

Operations For Period 0000 Hrs to 0600 Hrs on 07 Oct 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P2	P	G9	0000	0100	1.00	155.0m	Lower conductor to splash zone. Engaged TDS and pumped at 1000 gpm with seawater venting all air. Closed casing valve.
P2	P	G9	0100	0130	0.50	155.0m	Observed entry of shoe into existing hole with ROV sonar.
P2	P	G9	0130	0230	1.00	155.0m	Continued RIH with 30" conductor on 5" HWDP landing string.
P2	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 from seabed.
P2	P	G9	0330	0400	0.50	155.0m	ROV confirm bullseye reading 1/4 deg to port and rig heading 316 deg. PGB stickup 3m from mudline.
P2	TP (RE)	G9	0400	0600	2.00	155.0m	Observed twist in guide lines. Subsea engineer investigate guide line tensioner system.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 06 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

WBM Data		Cost Today US\$ 37712	
Mud Type:	PHB Gel	API FL:	Cl:
Sample-From:		Filter-Cake:	K+C*1000:
Time:		HTHP-FL:	Hard/Ca:
Weight:		HTHP-cake:	MBT:
Temp:			PM:
			PF:
Comment	Note: Cost is in AUD		
		Solids(%vol):	98%
		H2O:	
		Oil(%):	
		Sand:	
		pH:	9
		PHPA:	
		Viscosity	125sec/qt
		PV	44cp
		YP	24lb/100ft ²
		Gels 10s	
		Gels 10m	
		Fann 003	13
		Fann 006	15
		Fann 100	32
		Fann 200	45
		Fann 300	68
		Fann 600	112

Bit # 1		Wear	I	O1	D	L	B	G	O2	R
Bitwear Comments:										
Size ("):	17.50in	IADC#	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run			
Mfr:	Hughes	WOB(avg) 7.00klb	No.	Size	Progress	60.0m	Cum. Progress	60.0m		
Type:	Rock	RPM(avg) 70			On Bottom Hrs	4.0h	Cum. On Btm Hrs	4.0h		
Serial No.:	6077163	F.Rate 240gpm			IADC Drill Hrs	4.0h	Cum IADC Drill Hrs	4.0h		
Bit Model	CR-1	SPP 1440psi			Total Revs		Cum Total Revs	0		
Depth In		HSI			ROP(avg)	15.00 m/hr	ROP(avg)	15.00 m/hr		
Depth Out		TFA 0.000								
Bit Comment										

BHA # 1						
Weight(Wet)	Length	150.5m	Torque(max)	D.C. (1) Ann Velocity		0fpm
Wt Below Jar(Wet)	String		Torque(Off.Btm)	D.C. (2) Ann Velocity		0fpm
	Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity		0fpm
	Slack-Off			D.P. Ann Velocity		0fpm
BHA Run Description						
BHA Run Comment						
Equipment	Length	OD	ID	Serial #	Comment	
Bit	0.54m	17.50in	3.00in	6077163		
Hole Opener	2.72m	36.00in	3.00in	703394		
Float Sub	1.17m	9.50in	3.00in	79		
Anderdrift	2.91m	9.50in	3.00in	ADB993		
9.5in DC	28.07m	9.50in	3.00in	1148		
X/Over	1.13m	9.50in	3.00in	94		
Drill Collar	56.32m	8.25in	2.88in			

Equipment	Length	OD	ID	Serial #	Comment
X/Over	1.09m	8.25in			
HWDP	56.51m	5.00in	3.00in		

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	21	0	566.0	
Drill Water	m3	88	0	0	454.0	
Potable Water	m3	7	0	0	186.0	
Barite	MT	22	0	0	91.0	
Baradefoam-W300	can	0	0	0	16.0	
Barolift	boxes	0	0	0	18.0	
Bentonite	MT	24.1	0	0	66.1	
Caustic Soda	pail	0	0	0	20.0	
Lime	sx	2	0	0	56.0	
Soda Ash	sx	0	0	0	32.0	
Shaker Screen 110	box	24	0	0	24.0	
Shaker Screen 140	box	40	0	0	40.0	
Shaker Screen 175	box	24	0	0	24.0	
Shaker Screen 50	box	24	0	0	24.0	
Shaker Screen 210	box	24	0	0	24.0	

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	Losses	Equipment	Description	Mesh Size	Comments		
1440.8bbl	0.0bbl						
Active	Downhole						
49.0bbl	Surf+ Equip						
Mixing	0.0bbl						
Hole	Dumped						
247.8bbl	De-Gasser						
Slug Reserve	De-Sander						
1144.0bbl	De-Slitter Centrifuge						
Kill							

Marine								
Weather on 06 Oct 2009								
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	
8.0nm	18kn	211.0deg	1020.0mbar	9C°	1.3m	211.0deg	3s	
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments		
317.0deg		154.00klb	1.8m	245.0deg	5s			
Comments								
Vessel Name		Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar			23:55 hrs 04/10/09	Alongside South Wharf	Item	Unit	Used	
							Quantity	
					Barite	t		0
					Bentonite	t		42
						t		120
					Potable Water	M3		370
					Drill Water	M3		196
					Rig Fuel	M3		200
					Brine	M3		190
ETA Geelong Pilot at 06:00 rs 05/10/09								
Far Fosna		0600		Standby Kan Tan 1V	Item	Unit	Used	
							Quantity	
					Barite	t		0
					Bentonite	t		0
						t		0
					Drill Water	M3		320
					Pot Water	M3		390
					Rig Fuel	M3		230