

10 Nov 2009

 From: Bryan Houston / Paul Leathem  
 To: Texas Richards

**DRILLING MORNING REPORT # 41**  
**Trefoil-2**

Well Data							
Country	Australia	MDBRT	2774.0m	Cur. Hole Size	8.500in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	2774.0m	Last Casing OD	9.625in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	141.0m	Shoe TVDBRT	2520.0m	Daily Cost	US\$562,791
Rig	Kan Tan IV	Days from spud	35.67	Shoe MDBRT	2520.0m	Cumul. Cost	US\$28,706,794
Wtr Dpth(MSL)	69.0m	Days on well	40.13	FIT/LOT:	11.00ppg /		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Drilling ahead 8 1/2" hole at 2881m.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Drill ahead 8 1/2" hole to core point #1. POOH.		

**Summary of Period 0000 to 2400 Hrs**

Continued to pick up BHA and RIH. Performed shallow test on MWD tools. Continued to make up and RIH. Slipped and cut drilling line. Attached Geoservices and Sperry geograph line. Drilled 8 1/2" hole from 2633m to 2644m. Monitored 40bbbls losses. Flow checked on trip tank. Checked mud tanks and shale shaker areas and found that there was a blockage from sand traps to mud pit. Cleared blockage and circulated at 700gpm. Continued to drill ahead 8 1/2" hole to 2774m.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	0	3 Days	Held abandon Drill	
Emergency Drill	0	6 Days	Full Emergency drill performed.	
Fire Drill	0	3 Days	Main deck - Fire in Control room	
Flash Reports	1	0 Days	Back strain	While loading 25 Kg sacks of product (Baroid Pac-LE) from a pallet into the Mixing Hopper the IP suffered a soft tissue strain injury to his lower back as he rotated sideways to place the full sack on the mixing hopper table. Flash Report #40
Permit To Work	14	0 Days	Permits administerd.	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	7	0 Days	Prejob safety meetings	ADA conference call today
STOP Card	40	0 Days	Number of STOP Cards submitted	
Trip / Kick Drill	1	0 Days	Trip Drill. 33 sec	Held while RIH

**FORMATION**

Name	Top
Angahook Volcanics Equiv	1331.00m
Lower Angahook	1569.00m
Demons Bluff	1850.00m
Eastern View Coal Measures	2105.00m
Eocene Unconformity	2701.50m

**Operations For Period 0000 Hrs to 2400 Hrs on 10 Nov 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	TP (TP)	G8	0000	0100	1.00	2633.0m	Continued to pick up BHA and RIH to 175m.
P17	TP (TP)	G15	0100	0130	0.50	2633.0m	Performed shallow test on MWD tools at 600gpm/1020psi - ok.
P17	TP (TP)	G8	0130	0200	0.50	2633.0m	Continued to make up and RIH BHA from 175m to 288m.
P17	TP (TP)	G8	0200	0630	4.50	2633.0m	RIH 8 1/2" BHA #26 on 5" DP. Monitored well on trip tank. Stopped and filled every 25 stands from 288m to 2520m.
P17	P	G11	0630	0930	3.00	2633.0m	Slipped and cut drilling line, 1/2 hour for crew handover, 1/2 hour PMS Top Drive.
P17	TP (TP)	F1	0930	1030	1.00	2633.0m	Attached Geoservices and Sperry geograph line. RIH from 2520m to 2577m. Made up the top drive and light reamed to 2,633m. Recorded parameters: hook load 380kips/700gpm/2400psi/125rpm/10k torque/mud weight 9.4ppg.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	D2	1030	1100	0.50	2644.0m	Drilled 8-1/2" hole from 2633m to 2644m with 700gpm/2500psi/10klbs WOB/140rpm/10k torque/mud weight 9.4ppg
P17	TP (RE)	G14	1100	1200	1.00	2644.0m	Monitored 40bbls losses. Flow checked on trip tank - ok. Checked mud tanks and shale shaker areas and found that there was a blockage from sand traps to mud pit. Cleared blockage and circulated at 700gpm. No mud lost downhole or to the sea.
P17	P	D2	1200	2400	12.00	2774.0m	Continued to drill ahead 8 1/2" hole from 2644m to 2774m with 700gpm/2500psi/10klbs WOB/140rpm/10k torque/mud weight 9.4ppg. Took surveys on each connection.

**Operations For Period 0000 Hrs to 0600 Hrs on 11 Nov 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	D2	0000	0600	6.00	2881.0m	Continued to drill ahead 8 1/2" hole from 2774m to 2881m with 700gpm/2500psi/10 - 15klbs WOB/140rpm/10k torque/ mud weight 9.4ppg. Took surveys on each connection.

**Operations For Period Hrs to Hrs on**

Phase Data to 2400hrs, 10 Nov 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)	176.5	15 Oct 2009	22 Oct 2009	495.00	20.625	2520.0m
Production Casing(1)(P13)	359	22 Oct 2009	06 Nov 2009	854.00	35.583	2520.0m
Liner Hole (1)(P17)	109	06 Nov 2009	10 Nov 2009	963.00	40.125	2774.0m

**General Comments**

00:00 TO 24:00 Hrs ON 10 Nov 2009

WBM Data		Cost Today US\$ 12874							
Mud Type:	KCI POLYMER	API FL:	5.0cc/30min	Cl:	41000mg/l	Solids(%vol):	4%	Viscosity	46sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	10cp
Time:	21:30 hrs	HTHP-FL:	10.5cc/30min	Hard/Ca:	220mg/l	Oil(%):		YP	28lb/100ft²
Weight:	9.40ppg	HTHP-cake:	1/32nd"	MBT:	11	Sand:	.3	Gels 10s	10
Temp:				PM:	0.3	pH:	9	Gels 10m	12
Comment	Note: Cost is in AUD							Fann 003	8
				PF:	0.25	PHPA:	2ppb	Fann 006	10
								Fann 100	25
								Fann 200	32
								Fann 300	38
								Fann 600	48

Bit # 5 RR				Wear	I	O1	D	L	B	G	O2	R
Bitwear Comments:												
Size ("):	8.50in	IADC#	M223	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)	12.50klb	No.	Size	Progress	141.0m	Cumul. Progress		141.0m		
Type:	PDC	RPM(avg)	123	6	14/32nd"	On Bottom Hrs	8.8h	Cumul. On Btm Hrs		8.8h		
Serial No.:	TX2104	F.Rate	714gpm			IADC Drill Hrs	12.5h	Cumul. IADC Drill Hrs		12.5h		
Bit Model	MI616	SPP	2485psi			Total Revs		Cumul. Total Revs		0		
Depth In	2633.0m	HSI				ROP(avg)	16.02 m/hr	ROP(avg)		16.02 m/hr		
Depth Out		TFA	0.902									
Bit Comment	Re Run Bit # 5											

**BHA # 26**

Weight(Wet)	50000.00klb	Length	288.4m	Torque(max)	D.C. (1) Ann Velocity	656fpm
Wt Below Jar(Wet)	25000.00klb	String		Torque(Off.Btm)	D.C. (2) Ann Velocity	0fpm
		Pick-Up		Torque(On.Btm)	H.W.D.P. Ann Velocity	370fpm

Slack-Off	D.P. Ann Velocity	370fpm
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BHA Run Description 8 1/2 Drilling BHA

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.28m	8.50in	2.25in	TX2104	
NB Stab	1.50m	6.88in	3.25in	700172	
Gamma-Ray	7.07m	8.25in	3.00in	90222505	
DM sub	2.81m	6.63in	2.88in	1025744	
MWD	9.20m	8.25in	3.25in	922683	
Sonic 6	6.76m	7.38in	3.00in	922755-06	
Pulser	3.03m	6.81in	2.88in	302842	
MWD	1.81m	7.13in	1.88in	92223063B6	
8-1/2" String Stab	1.70m	8.38in	2.81in	700802	
6 3/4" DC	9.32m	6.75in	2.88in	1185	
6 3/4" DC	9.45m	6.75in	2.88in	1764	
6 3/4" DC	9.44m	6.75in	2.88in	1180	
6 3/4" DC	9.26m	6.75in	2.88in	1191	
6 3/4" DC	9.47m	6.75in	2.88in	1761	
6 3/4" DC	9.20m	6.75in	2.88in	1188	
6 3/4" DC	9.45m	6.75in	2.88in	1759	
6 3/4" DC	9.38m	6.75in	2.88in	1760	
Jar	9.91m	6.50in	2.88in	17602018	
6 3/4" DC	9.47m	6.75in	2.88in	1190	
6 3/4" DC	9.29m	6.75in	2.88in	1766	
6 3/4" DC	9.45m	6.75in	2.88in	1183	
HWDP	141.13m	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
2646.63	1.4	86.4	2646.32	28.1	28.1	9.8	0.2	MWD
2674.00	1.5	91.3	2673.68	28.1	28.1	10.5	0.6	MWD
2702.98	1.6	88.3	2702.65	28.1	28.1	11.3	0.4	MWD
2732.91	1.7	88.5	2732.56	28.1	28.1	12.1	0.3	MWD
2762.56	1.9	89.9	2762.20	28.2	28.2	13.1	0.7	MWD

### Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	13	0	495.0
Drill Water	m3	56	9	0	738.0
Pot Water	m3	0	22	0	201.0
Brine	m3	0	0	0	161.0
Barite	MT	0	1	0	144.0
Baradefoam-W300	can	0	0	0	9.0
Barolift	boxes	0	0	0	17.0
Bentonite	MT	0	0	0	81.2
Caustic Soda	pail	0	4	0	8.0
Lime	sx	0	0	0	4.0
Soda Ash	sx	0	1	0	33.0
Sodium Bicarbonate	25kg sx	0	0	0	38.0
Shaker Screen 50	Screens	0	0	0	8.0
Citric Acid	Sacks	0	0	0	80.0

### 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)	SPP1Flow1 (psi)	SPM2 (SPM)	SPP2 Flow2 (psi)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)	

Pumps																	
Pump Data - Last 24 Hrs								Slow Pump Data									
1	Continental Emsco	6.50	1.12	97	71	2543	703	2520.0	30	340	252	40	440	336	50	560	420
2	Continental Emsco	6.50	1.12	97	73	2543	703	2520.0	30	340	252	40	440	336	50	560	420
3	Continental Emsco	6.50	1.12	97	85	1617	729	2774.0	30	330	252	40	430	336	50	550	420

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	15.15ppg /	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.
9.63	/ 11.00ppg	2520.00m / 2520.00m	No Cmt

Personnel On Board	
Company	Pax
ADA	4
Maersk	48
GRN	2
OMS	16
Reach	1
Geoservices	6
Halliburton Cementers	2
Halliburton (Baroid)	1
Dril-Quip	1
Fugro ROV	3
Swaco	1
Sperry Sun	3
CORPRO	2
Other Contractor	1
Origin Energy	2
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / Fergus Spencer			
Available	2103.0bbl	Losses	0.0bbl	Equipment	Description	Mesh Size	Comments
Active	685.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	0.0bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom	
Hole	597.0bbl	Dumped		Shaker 2	Brandt VSM 300	20 top/50 bottom	
Slug		De-Gasser		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Reserve	821.0bbl	De-Sander		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Kill		De-Silter		Shaker 4	Brandt VSM 300	20 top/50 bottom	
		Centrifuge		Shaker 4	Brandt VSM 300	20 top/50 bottom	

Marine

Weather on 10 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	10kn	0.0deg	1019.0mbar	17C°	0.5m	25.0deg	3s	1	187.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
0.2m	0.8deg	0.7deg	317.0deg	240000.00klb	116684.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
2.0m	235.0deg	5s							
								8	211.0
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks					
Far Scimitar	1920 hrs 7/10/09		Rig standby	Item	Unit	Used	Quantity		
				Rig Fuel	M3		600		
				Potable Water	M3		510		
				Drill Water	M3		530		
					t		0		
				Barite	t		0		
				Bentonite	t		0		
				Brine	M3		165		
#1 Main engine out of service due to fly wheel problem.									
Far Fosna		1135hrs 7 Nov 09	Lorrimer Dock, stand-by for material.	Item	Unit	Used	Quantity		
				Rig Fuel	M3		440		
				Pot Water	M3		508		
				Drill Water	M3		600		
				Bentonite	t		42		
				Barite	t		0		
					t		130		
				Brine	M3		0		