

24 Oct 2009

 From: Bryan Houston / Peter Dane  
 To: Texas Richards

**DRILLING MORNING REPORT # 24**  
**Trefoil-2**

Well Data							
Country	Australia	MDBRT	2520.0m	Cur. Hole Size	12.250in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	2520.0m	Last Casing OD	13.375in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	930.0m	Daily Cost	US\$555,027
Rig	Kan Tan IV	Days from spud	18.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$18,679,016
Wtr Dpth(MSL)	69.0m	Days on well	23.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Pressure testing surface equipment.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Complete pressure testing of surface equipment. Make up bullnose jetting assembly and RIH and jet above top of fish. Pump down choke and kill lines to boost riser. RIH with 8 3/8" overshot and attempt to retrieve Dril-Quip running tool.		

**Summary of Period 0000 to 2400 Hrs**

Slipped and cut drill line.  
 RIH and confirmed top of fish at 81.5m.  
 Investigated, inspected and repaired TDS.  
 RIH with 8 3/8" overshot and made several attempts to engage fish. No success.  
 Tested choke and kill manifold.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held abandon drill	
Fire Drill	1	0 Days	Main deck - Fire in rubbish container	
Flash Reports	1	1 Day	Parting of landing string	
Permit To Work	18	0 Days	Permits administerd	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	6 Days	Held 2 x General Safety Meeting	
STOP Card	31	0 Days	Number of STOP Cards submitted	

**FORMATION**

Name	Top
Upper Angahook	1162.00m
Angahook Volcanics Equiv	1331.00m
Lower Angahook	1569.00m
Demons Bluff	1850.00m
Eastern View Coal Measures	2105.00m

**Operations For Period 0000 Hrs to 2400 Hrs on 24 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	G1	0000	0130	1.50	2520.0m	Slipped and cut drill line.
P13	P	G4	0130	0230	1.00	2520.0m	Moved used HWDP from running string to port side of derrick.
P13	TP (WB)	G18	0230	0430	2.00	2520.0m	Made up Dril-Quip MPT and RIH and tagged top of fish at 81.5mRT with 5k. POOH and laid out MPT.
P13	TP (WB)	G18	0430	0700	2.50	2520.0m	Made up 8 3/8" overshot, dressed with 6 5/8" spiral grapple and RIH. Attempted to engage fish. No success. POOH.
P13	TP (RE)	G11	0700	1700	10.00	2520.0m	Investigated and inspected TDS. Changed out lube oil motor and secured junction box. Function tested gear change and sighted inside of gearbox through rear inspection plug while rotating shaft by hand. All ok.
P13	TP (WB)	G18	1700	1900	2.00	2520.0m	Made up 8 3/8" overshot dressed with 6 5/8" spiral grapple. RIH and tagged top of fish at 81.5mRT with 5k.
P13	TP (WB)	G18	1900	2030	1.50	2520.0m	Slowly lowered the fishing string to the right and gradually lowered the overshot over the top of the fish with a max down weight of 15k and 2 turns to the right. Maximum torque 6-7 kft/lbs. Made several attempts to engage fish. No success.
P13	TP	G2	2030	2100	0.50	2520.0m	Cleaned out overshot. Laid out overshot, EMDPHOT, sub and pup joint assembly.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	(WB) P	P1	2100	2400	3.00	2520.0m	Held JSA. Pressure tested choke and kill manifold 250/5000psi. Concurrently repaired clamp/unclamp switch on iron roughneck.

**Operations For Period 0000 Hrs to 0600 Hrs on 25 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	P	P1	0000	0300	3.00	2520.0m	Continued to pressure test choke and kill manifold to 250/5000 psi.
P13	P	P1	0300	0600	3.00	2520.0m	(IN PROGRESS) Pressure tested standpipe manifold, top drive and kelly cocks to 250/5000 psi.

**Operations For Period Hrs to Hrs on**

Phase Data to 2400hrs, 24 Oct 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)	60	22 Oct 2009	24 Oct 2009	555.00	23.125	2520.0m

**General Comments**

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

**WBM Data**
**Cost Today US\$ 13791**

Mud Type:	KCl POLYMER	API FL:	3.2cc/30min	Cl:	44500mg/l	Solids(%vol):	4%	Viscosity	57sec/qt
Sample-From:	4	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	14cp
Time:	13:00 hrs	HTHP-FL:	9.0cc/30min	Hard/Ca:	380mg/l	Oil(%):		YP	32lb/100ft <sup>2</sup>
Weight:	9.45ppg	HTHP-cake:	2/32nd"	MBT:	12	Sand:		Gels 10s	11
Temp:				PM:	0.3	pH:	9	Gels 10m	15
				PF:	0.2	PHPA:	2ppb	Fann 003	11
								Fann 006	13
								Fann 100	31
								Fann 200	36
								Fann 300	46
								Fann 600	60
Comment	Note: Cost is in AUD								

**Bulk Stocks**

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	118	14	0	391.0
Drill Water	m3	55	10	0	607.0
Pot Water	m3	0	33	0	140.0
Brine	m3	0	0	0	71.0
Barite	MT	0	0	0	149.7
Baradefoam-W300	can	0	0	0	9.0
Barolift	boxes	0	0	0	21.0
Bentonite	MT	0	0	0	48.2
Caustic Soda	pail	0	0	0	35.0
Lime	sx	0	0	0	4.0
Soda Ash	sx	0	0	0	56.0
Sodium Bicarbonate	25kg sx	0	0	0	39.0
Rig Fuel	m3	0	0	0	561.0
Drill Water	m3	0	0	0	266.0
Potable Water	m3	0	0	0	208.0
Shaker Screen 50	Screens	0	0	0	8.0

**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(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)

Pumps																	
Pump Data - Last 24 Hrs								Slow Pump Data									
1	Continental Emsco	6.50	1.09	97	60	3000	300	2515.0	30	220	150	40	270	200	50	350	250
2	Continental Emsco	6.50	1.09	97	60	3000	300	2515.0	30	240	190	40	290	260	50	350	250
3	Continental Emsco	6.50	1.09	97	60	3000	300	2515.0	30	200	150	40	270	200	50	350	260

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.

Personnel On Board	
Company	Pax
ADA	6
Maersk	46
GRN	4
OMS	11
Reach	1
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1
PCS	3
Others	1
<b>Total</b>	<b>88</b>

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / Kosta Georgiou			
Available	Losses	Equipment	Description	Mesh Size	Comments		
2939.0bbl	0.0bbl						
Active	293.0bbl	Downhole					
Mixing	0.0bbl	Surf+ Equip	0.0bbl				
Hole	1290.0bbl	Dumped					
Slug	25.0bbl	De-Gasser					
Reserve	1271.0bbl	De-Sander					
Kill	60.0bbl	De-Silting Centrifuge	0.0bbl				

Marine									
Weather on 24 Oct 2009							Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	17kn	236.0deg	1016.0mbar	12C°	1.2m	236.0deg	3s	1	209.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
2.0m	0.8deg	1.2deg	317.0deg	240000.00klb	252000.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
1.5m	236.0deg	5s							
								7	194.0
								8	212.0
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks					

<b>Far Scimitar</b>			On location KT4	<b>Item</b>	<b>Unit</b>	<b>Used</b>	<b>Quantity</b>
				Rig Fuel	M3		504
				Potable Water	M3		515
				Drill Water	M3		196
					t		55
				Barite	t		0
				Bentonite	t		0
Brine	M3		165				

<b>Far Fosna</b>	06:00 hrs 17/10/09		Standby Rig	<b>Item</b>	<b>Unit</b>	<b>Used</b>	<b>Quantity</b>
				Rig Fuel	M3		324
				Pot Water	M3		463
				Drill Water	M3		362
				Bentonite	t		42
				Barite	t		20
					t		130
Brine	M3		65				

### Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	10:05 hrs / 10:15 hrs	4 / 8	Crew Change