

**02 Nov 2009**

 From: Bryan Houston / Paul Leathem  
 To: Texas Richards

**DRILLING MORNING REPORT # 33**  
**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\$559,804
Rig	Kan Tan IV	Days from spud	27.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$23,780,238
Wtr Dpth(MSL)	69.0m	Days on well	32.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Laid out 9 5/8" casing fish.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	RIH with dress mill & dress top of casing. Run casing patch. RIH with spear BHA & energize the casing patch.		

**Summary of Period 0000 to 2400 Hrs**

RIH with tapered mill & cleaned & milled inside casing from 103m - 106m. Jetted wellhead & BOPs with jetting tool. M/Up 9 5/8" hanger assy on HWDP & racked back in mast. M/Up cement stand & racked in mast.  
 RIH with casing spear to retrieve casing fish. Pulled 580klbs - no success. POOH Spear. M/Up & ran casing cutter & spear. Cut & speared casing at 157m. POOH. Dropped fish near surface. Laid out casing cutting tools.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	9 Days	Held abandon drill	
Fire Drill	1	9 Days	Main deck - Fire in rubbish container	
Permit To Work	9	0 Days	Permits administered	
Pre-tour Meeting	2	2 Days	Shift change meetings	
Safety Meeting	2	1 Day	Held 2 x General Safety Meeting	
STOP Card	41	1 Day	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 02 Nov 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G19	0000	0030	0.50	2520.0m	Continued to POOH with 12 1/4" milling BHA from 103m to surface.
P13	TP (WB)	G19	0030	0100	0.50	2520.0m	Broke out & laid out 12 1/4" mill and junk baskets.
P13	TP (WB)	G19	0100	0200	1.00	2520.0m	Made up 8 1/2" tapered casing mill.
P13	TP (WB)	G19	0200	0230	0.50	2520.0m	RIH with tapered mill to 103m
P13	TP (WB)	G19	0230	0300	0.50	2520.0m	Milled inside casing from 103m - 106m at 50rpm, 70spm.
P13	TP (WB)	G19	0300	0330	0.50	2520.0m	POOH with tapered mill from 106m to surface.
P13	TP (WB)	G19	0330	0400	0.50	2520.0m	Laid down tapered mill and components.
P13	TP (WB)	G16	0400	0430	0.50	2520.0m	Picked up and made up wellhead mill and flush tool.
P13	TP (WB)	G16	0430	0500	0.50	2520.0m	RIH to 92.5m - well head depth.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G16	0500	0530	0.50	2520.0m	Washed and jetted wellhead and BOPs with 200spm, 220psi.
P13	TP (WB)	G16	0530	0630	1.00	2520.0m	POOH to surface with mill and jetting tool.
P13	TP (WB)	G16	0630	0700	0.50	2520.0m	Cleaned and cleared rig floor.
P13	TP (WB)	G12	0700	0900	2.00	2520.0m	M/Up 9 5/8" hanger assy on HWDP & racked back in mast.
P13	TP (WB)	G1	0900	1030	1.50	2520.0m	M/Up cement head & racked back same.
P13	TP (WB)	G1	1030	1130	1.00	2520.0m	P/Up & M/Up spear assy.
P13	TP (WB)	G18	1130	1300	1.50	2520.0m	RIH with spear assy on BHA #21 to top of casing fish.
P13	TP (WB)	G18	1300	1400	1.00	2520.0m	Pumped @ 60spm/ 300gpm/ 40psi. Inserted spear into fish and picked-up - no overpull observed. Slacked off string and applied 1 LH turn - confirmed latch with overpull of 350klbs. Circulate 60spm/300gpm. Took overpull to 400klbs and increased circulation to 100spm/500gpm/ 250psi.
P13	TP (WB)	G11	1400	1430	0.50	2520.0m	Pressured up compensator bottle to required pressure while reinstalling index line.
P13	TP (WB)	G18	1430	1530	1.00	2520.0m	Pulled 580klbs and applied 10klbs torque & held same. Circulated at 180spm/900gpm/530psi. Stopped pumps, released torque, slacked off all weight to release spear.
P13	TP (WB)	G18	1530	1600	0.50	2520.0m	POOH with spear assembly to surface.
P13	TP (WB)	G18	1600	1630	0.50	2520.0m	Broke out and laid out spear and accelerator.
P13	TP (WB)	G1	1630	1800	1.50	2520.0m	Cleaned and cleared rig floor and pipe deck of fishing tools while preparing BHA for casing cutting run.
P13	TP (WB)	G1	1800	1930	1.50	2520.0m	P/Up & M/Up casing cutting BHA # 22F.
P13	TP (WB)	G8	1930	2130	2.00	2520.0m	RIH with casing cutting BHA to top of fish. BHA hung up while entering top of fish. Made up top drive and rotated slowly while lowering string into 9 5/8" casing fish. Continued to RIH.
P13	TP (WB)	G17	2130	2230	1.00	2520.0m	Landed out swivel on top of fish at 103m. Began cutting casing at 157m with 30spm/150gpm/380psi/60rpm/6-8000ft/lbs torque.
P13	TP (WB)	G8	2230	2330	1.00	2520.0m	POOH to the swivel at 61m. Lost weight near surface. No Fish.
P13	TP (WB)	G2	2330	2400	0.50	2520.0m	Broke out spear and casing cutting BHA & laid out out.

**Operations For Period 0000 Hrs to 0600 Hrs on 03 Nov 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G1	0000	0100	1.00	2520.0m	Continued to break out spear and casing cutting BHA & laid out.
P13	TP (WB)	G18	0100	0200	1.00	2520.0m	Picked up & made up back up casing grapple, bumper sub & jars.
P13	TP (WB)	G18	0200	0300	1.00	2520.0m	RIH to top of fish at 103m. Latched into fish with 10klbs down weight. Confirmed fish caught with 7klbs overpull.
P13	TP (WB)	G18	0300	0330	0.50	2520.0m	POOH with fish to surface.
P13	TP (WB)	G1	0330	0430	1.00	2520.0m	Held toolbox talk on rigging up casing. Rigged up casing 500ton elevators, tongs and equipment.
P13	TP (WB)	G2	0430	0600	1.50	2520.0m	Held toolbox talk on laying out casing. Laid out 9 5/8" casing fish.

**Operations For Period Hrs to Hrs on**
**Phase Data to 2400hrs, 02 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

**Phase Data to 2400hrs, 02 Nov 2009**

Phase	Phase Hrs	Start On	Finish On	Cumul. Hrs	Cumul. Days	Max Depth
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)	276	22 Oct 2009	02 Nov 2009	771.00	32.125	2520.0m

**WBM Data**
**Cost Today US\$ 1449**

Mud Type:	KCI POLYMER	API FL:	4.5cc/30min	Cl:	42500mg/l	Solids(%vol):	3%	Viscosity	62sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	12cp
Time:	11:00 hrs	HTHP-FL:	12.0cc/30min	Hard/Ca:	380mg/l	Oil(%):		YP	25lb/100ft²
Weight:	9.40ppg	HTHP-cake:	2/32nd"	MBT:	10	Sand:	.3	Gels 10s	12
Temp:				PM:	0.35	pH:	9	Gels 10m	16
				PF:	0.2	PHPA:	2ppb	Fann 003	11
								Fann 006	12
								Fann 100	26
								Fann 200	31
								Fann 300	37
								Fann 600	49

**BHA # 21F**

Weight(Wet)	Length	32.5m	Torque(max)	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	String Pick-Up		Torque(Off.Btm)	D.C. (2) Ann Velocity	
BHA Run Description	Slack-Off		Torque(On.Btm)	H.W.D.P. Ann Velocity	
BHA Run Comment	Casing retrieval Spear			D.P. Ann Velocity	
Equipment	Length	OD	ID	Serial #	Comment
Spear	1.20m	8.25in	2.75in	311335-02	
12 1/4in stab	1.88m	12.25in	2.25in	55215G	
Bumper sub	1.89m	6.25in	2.25in	GK0267	
X/O	1.11m	8.25in	2.75in	1103	
Jar	3.84m	6.25in	2.75in	15256462034	
6 3/4" DC	18.73m	6.75in	2.88in	1185/1764	
Accelerator	3.86m	6.25in	2.19in	559056207	

**BHA # 20F**

Weight(Wet)	Length	31.7m	Torque(max)	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	String Pick-Up		Torque(Off.Btm)	D.C. (2) Ann Velocity	
BHA Run Description	Slack-Off		Torque(On.Btm)	H.W.D.P. Ann Velocity	
BHA Run Comment				D.P. Ann Velocity	
Equipment	Length	OD	ID	Serial #	Comment
8.5 Mill Assy	1.21m	8.50in	2.25in	GL0325	
8.5 Mill Assy	1.36m	8.50in	2.25in		
Bit Sub	1.19m	6.88in	2.88in		
6 3/4" DC	9.26m	6.75in	2.88in		
6 3/4" DC	9.47m	6.75in	2.88in		
6 3/4" DC	9.20m	6.75in	2.88in		

**BHA # 22F**

Weight(Wet)	Length	58.2m	Torque(max)	D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	String Pick-Up		Torque(Off.Btm)	D.C. (2) Ann Velocity	
BHA Run Description	Slack-Off		Torque(On.Btm)	H.W.D.P. Ann Velocity	
BHA Run Comment				D.P. Ann Velocity	
Equipment	Length	OD	ID	Serial #	Comment
Casing Cutter	2.85m	8.25in	2.25in	6509013	
Drill Pipe	48.17m	5.00in	4.00in		
5" pup joint	1.53m	5.00in	4.00in	1103	
Top Assembly	4.44m	12.00in	2.25in	967102	
X/O	1.22m	8.25in	2.63in	1793	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	306	22	0	600.0	
Drill Water	m3	0	0	0	585.0	
Pot Water	m3	31	8	0	219.0	
Brine	m3	0	0	0	71.0	
Barite	MT	0	0	0	167.0	
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	2	0	28.0	
Lime	sx	0	0	0	4.0	
Soda Ash	sx	0	0	0	37.0	
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)	SPP1 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	Continental Emsco	6.50	1.09	97					30			40			50		
2	Continental Emsco	6.50	1.09	97					30			40			50		
3	Continental Emsco	6.50	1.09	97					30			40			50		

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	5
Maersk	48
GRN	3
OMS	11
Nopsa	2
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1
PCS	3
Smith Services	2
Others	3
<b>Total</b>	<b>93</b>

**Mud Volumes, Mud Losses and Shale Shaker Data**

Engineer : Mike Lawrance / James Munford

Available	2780.6bbl	Losses	2.4bbl	Equipment	Description	Mesh Size	Comments
Active	722.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	2.4bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom	
Hole	1150.6bbl	Dumped		Shaker 2	Brandt VSM 300	20 top/50 bottom	
Slug Reserve	908.0bbl	De-Gasser		Shaker 3	Brandt VSM 300	20 top/50 bottom	
		De-Sander		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Kill		De-Silting Centrifuge		Shaker 4	Brandt VSM 300	20 top/50 bottom	
				Shaker 4	Brandt VSM 300	20 top/50 bottom	

**Marine**

Weather on 02 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	19kn	90.0deg	1007.0mbar	13C°	1.0m	90.0deg	3s	1	191.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
0.8m	0.7deg	1.4deg	317.0deg	240000.00klb	116684.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
4.0m	235.0deg	5s							
								2	211.0
								3	154.0
								4	202.0
								5	217.0
								6	222.0
								7	192.0
								8	203.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Item	Unit	Used	Quantity				
Far Scimitar	0930		Standby At the rig	Rig Fuel	M3		351
				Potable Water	M3		505
				Drill Water	M3		530
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		165

Transferred 256LT of fuel oil to KT4

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Item	Unit	Used	Quantity				
Far Fosna		0915 hrs 01/10/09	On route to rig from Melbourne.	Rig Fuel	M3		504
				Pot Water	M3		556
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		0
					t		130
				Brine	M3		0

Departed from Melbourne for the rig at 1715hrs

**Helicopter Movement**

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	09.11 / 09.13	10 / 11	Crew Change