

DRILLING MORNING REPORT # 38
Trefoil-2
07 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Phil Stratford

Well Data							
Country	Australia	MDBRT	2523.0m	Cur. Hole Size	8.500in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	2523.0m	Last Casing OD	9.625in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	3.0m	Shoe TVDBRT	2520.0m	Daily Cost	US\$600,000
Rig	Kan Tan IV	Days from spud	32.67	Shoe MDBRT	2520.0m	Cumul. Cost	US\$27,085,500
Wtr Dpth(MSL)	69.0m	Days on well	37.13	FIT/LOT:	11.00ppg /		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	RIH 8 1/2" BHA on 5" DP.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Continue to RIH. Drill ahead 8 1/2" hole to CP #1.		

Summary of Period 0000 to 2400 Hrs

Continued to pick up drill pipe from deck and RIH. 75 joints total picked up. Continued to RIH to 2402m. Washed and reamed from 2402m to 2494m. Tagged float collar. Took SCRs & CLF. Performed well control exercise with drill crew. Drilled out shoe track. Shoe depth 2520m. Drilled 3m of new formation from 2520m to 2523m. Pumped 25bbls Hi Vis pill and circulated hole clean. Performed FIT to 740psi with 9.4ppg mud = 11 ppg EMW. Pumped slug and POOH. Held time out for safety.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	1	0 Days	Held abandon drill	
Emergency Drill	1	3 Days	Full Emergency drill performed	
Fire Drill	1	0 Days	Main deck - Fire in Control room	
Flash Reports	1	0 Days	Flash Report #047	Pin from shackle dropped from derrickmans pull back tigger.
Permit To Work	16	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	6	0 Days	Prejob safety meetings	
STOP Card	60	0 Days	Number of STOP Cards submitted	
Trip / Kick Drill	1	0 Days	Perform well control exercise with drill crew	Performed well control exercise with drill crew.

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 07 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	U	G8	0000	0300	3.00	2520.0m	Continued to pick up drill pipe from deck and RIH from 402m to 900m. Filled pipe. 75 joints total picked up.
P17	U	G8	0300	0800	5.00	2520.0m	Continued to RIH with stands from 900m to 2402m. Filled pipe every 20 stands.
P17	U	F1	0800	0930	1.50	2520.0m	Washed and reamed from 2402m to 2494m. Tagged float collar.
P17	U	G23	0930	1030	1.00	2520.0m	Took SCRs and CLF. Performed well control exercise with drill crew.
P17	P	D8	1030	1200	1.50	2520.0m	Drilled out shoe track with 5-10klbs WOB (70rpm, 140spm=700gpm @ 1550psi). Shoe depth 2520m. Drilled 3m of new formation from 2520m to 2523m.
P17	P	F4	1200	1300	1.00	2520.0m	Pumped 25bbls Hi Vis pill and circulated hole clean with 140spm=700gpm @ 1550psi. Installed Geoservices bracket.
P17	P	E1	1300	1530	2.50	2520.0m	Pulled back inside casing shoe to rig up and perform FIT to 710psi = 11.0 ppg EMW.
P17	U	G8	1530	2000	4.50	2520.0m	Pumped slug and POOH from 2520m to 257m.
P17	U	G14	2000	2130	1.50	2520.0m	Performed flow check prior to pulling BHA through the BOPs. POOH and racked back

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	U	G23	2130	2230	1.00	2520.0m	BHA from 257m - 54m. Time out for safety. Roughnecks heard something land on the rig floor which had dropped from out of the derrick. Inspection found that the pin of a shackle used by the derrickman on a sheave on his pull back tugger at the monkey board level had fallen out. Performed mast inspection and checked all other similar shackles and sheaves in the mast prior to continuing operations. Flash Report #047
P17	U	G8	2230	2300	0.50	2520.0m	Continued to POOH BHA from 54m to surface. Dull bit (#4) grade 1-1-WT-A-E-I-NO-BHA.
P17	P	G6	2300	2400	1.00	2520.0m	Picked up and made up 8 1/2" PDC bit and BHA.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	G6	0000	0100	1.00	2520.0m	Picked up and RIH 8 1/2" BHA to 31m.
P17	P	G7	0100	0230	1.50	2520.0m	Downloaded MWD tools and installed radio active source.
P17	P	G6	0230	0330	1.00	2520.0m	Continued to pick up BHA and RIH from 31m to 180m.
P17	P	G7	0330	0430	1.00	0.0m	Performed shallow water test of MWD tools (127spm/1067gpm/1150psi).
P17	P	G6	0430	0500	0.50	2520.0m	Continued to RIH BHA from 127m - 287m.
P17	P	G8	0500	0600	1.00	2520.0m	RIH 8 1/2" BHA on 5" DP from 287m to 650m. Filled every 15 stands.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 07 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)	37	06 Nov 2009	07 Nov 2009	891.00	37.125	2520.0m

General Comments

00:00 TO 24:00 Hrs ON 07 Nov 2009

WBM Data
Cost Today US\$ 3216

Mud Type:	KCI POLYMER	API FL:	4.0cc/30min	Cl:	42500mg/l	Solids(%vol):	3%	Viscosity	66sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	11cp
Time:	07:30 hrs	HTHP-FL:	10.5cc/30min	Hard/Ca:	400mg/l	Oil(%):		YP	25lb/100ft ²
Weight:	9.40ppg	HTHP-cake:	2/32nd"	MBT:	12	Sand:	.3	Gels 10s	9
Temp:				PM:	0.2	pH:	9	Gels 10m	15
Comment	Note: Cost is in AUD							Fann 003	9
				PF:	0.15	PHPA:	2ppb	Fann 006	10
								Fann 100	26
								Fann 200	32
								Fann 300	36
								Fann 600	47

Bit # 4

Wear	I	O1	D	L	B	G	O2	R	
	1	1	WT	A	1	I		BHA	
Bitwear Comments:									
Size ("):	8.50in	IADC#	117	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Mfr:	Baker Huges Chistensen	WOB(avg)	3.30klb	No.	Size	Progress	3.0m	Cumul. Progress	3.0m
Type:	Rock	RPM(avg)	72			On Bottom Hrs	0.5h	Cumul. On Btm Hrs	0.5h
Serial No.:	6076381	F.Rate	729gpm			IADC Drill Hrs	0.2h	Cumul. IADC Drill Hrs	0.2h
Bit Model	8 1/2 GT-1	SPP	1617psi			Total Revs		Cumul. Total Revs	0
Depth In	2520.0m	HSI				ROP(avg)	6.00 m/hr	ROP(avg)	6.00 m/hr
Depth Out	2523.0m	TFA	0.000						
Bit Comment									

BHA # 24					
Weight(Wet)	50000.00klb	Length	255.7m	Torque(max)	D.C. (1) Ann Velocity 670fpm
Wt Below Jar(Wet)	25000.00klb	String	330.00klb	Torque(Off.Btm)	D.C. (2) Ann Velocity 0fpm
		Pick-Up	340.00klb	Torque(On.Btm)	H.W.D.P. Ann Velocity 378fpm
		Slack-Off	320.00klb		D.P. Ann Velocity 378fpm

BHA Run Description Drill out 9 5/8 casing shoe BHA.

BHA Run Comment Note/ No jets installed in bit incase cmt squeeze job is required.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.25m	8.50in	2.25in	6076381	
Bit Sub	1.19m	6.88in	2.38in	87	
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		

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	10	0	532.0
Drill Water	m3	30	0	0	634.0
Pot Water	m3	14	25	0	255.0
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	8	0	16.0
Lime	sx	0	0	0	4.0
Soda Ash	sx	0	3	0	34.0
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	1.12	97	85	1617	729	2520.0	30	320	252	40	360	336	50	450	420
2	Continental Emsco	6.50	1.12	97	85	1617	729	2520.0	30	310	252	40	360	336	50	460	420
3	Continental Emsco	6.50	1.12	97	85	1617	729	2520.0	30	300	252	40	350	336	50	440	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.

Casing			
OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
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	

Personnel On Board	
Company	Pax
ADA	4
Maersk	48
GRN	4
OMS	14
Reach	1
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1
Sperry Sun	3
Origin Energy	2
Other Contractor	1
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / Fergus Spencer			
Available	Losses	Equipment	Description	Mesh Size	Comments		
2306.9bbl	0.0bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Active 750.0bbl	Downhole	Shaker 2	Brandt VSM 300	20 top/50 bottom			
Mixing 0.0bbl	Surf+ Equip 0.0bbl	Shaker 3	Brandt VSM 300	20 top/50 bottom			
Hole 695.9bbl	Dumped	Shaker 4	Brandt VSM 300	20 top/50 bottom			
Slug	De-Gasser						
Reserve 861.0bbl	De-Sander						
Kill	De-Silter						
	Centrifuge						

Marine								Rig Support	
Weather on 07 Nov 2009								Anchors	Tension (klb)
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
10.0nm	18kn	50.0deg	1025.0mbar	13C°	1.0m	60.0deg	3s	1	183.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments		2	188.0
0.9m	0.4deg	1.0deg	317.0deg	240000.00klb	116684.00klb			3	158.0
Swell Height	Swell Dir.	Swell Period	Comments					4	194.0
3.0m	160.0deg	5s						5	210.0
								6	195.0
								7	181.0
								8	194.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Item	Unit	Used	Quantity				
Far Scimitar	1920 hrs 7/10/09		Rig standby				
Rig Fuel	M3						629
Potable Water	M3						490
Drill Water	M3						530
	t						0
Barite	t						0
Bentonite	t						0
Brine	M3						165

Arrived from Melbourne @ 1920hrs.

Far Fosna	0630 hrs 3/10/09		Rig Standby.	Item	Unit	Used	Quantity
				Rig Fuel	M3		456
				Pot Water	M3		516
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		0
					t		130
Brine	M3		0				

1330 - 1515 hrs, Cargo operations.

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	/	/	