

DRILLING MORNING REPORT # 32
Trefoil-2

01 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Texas Richards

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\$550,470
Rig	Kan Tan IV	Days from spud	26.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$23,220,434
Wtr Dpth(MSL)	69.0m	Days on well	31.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	POOH with wellhead mill and jetting tool.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Make up 9 5/8" casing hanger and & running tool & rack in derrick. RIH with casing spear & attempt to retrieve 9 5/8" casing.		

Summary of Period 0000 to 2400 Hrs

Closed shear rams against 9 5/8" casing. Began overpull and jarring to free stuck casing hanger. At 03.45hrs String came free. Performed post jarring derrick inspection. Held time out for derrickmans back injury. Laid out 5 stands of DP from derrick. Ran 17 1/2" mill assy but fish was lower than the 13 3/8" casing swedge. M/U 12 1/4" mill RIH and milled top of casing from 102m to 103m. POOH.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	8 Days	Held abandon Drill	
Fire Drill	1	8 Days	Main deck - Fire in rubbish container	
First Aid Case	1	0 Days	Cut to finger. Flash Report #045	IP had picked up part of a fishing tool and as he lifted the tool he struck his finger against sharp edge of another fishing tool that was beside it. IP not wearing gloves and tool stored with sharp edge facing up. Synergi No. 396588 Flash Report #045
LTI	1	0 Days	Back Injury. Flash Report #044	At time of incident IP was changing out jaw on break out tong. As he crouched down to pick up jaw piece he got the item off the ground approx. 10cm when he suffered an acute back spasm. Synergi No. 396501 Flash Report #044
Permit To Work	12	0 Days	Permits administerd.	
Pre-tour Meeting	2	1 Day	Shift change meetings	
Safety Meeting	2	7 Days	Held 2 x General Safety Meeting	
STOP Card	45	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 01 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G18	0000	0500	5.00	2520.0m	Closed shear rams against 9 5/8" casing from koomey room. Observed flow meter count of 56 bbls - correct volume. No loss of block weight observed. Pressure tested seal of shear rams to 500 psi through C&K lines and held for 30 min - good test. Began overpull and jarring to free stuck casing hanger. At 03.45hrs string came free with between 40 - 70klbs overpull. POOH with fish complete to surface.
P13	TP (WB)	G18	0500	0700	2.00	2520.0m	Broke out and & laid down fishing BHA and fish.
P13	TP (WB)	G18	0700	0930	2.50	2520.0m	Performed post jarring inspection while fishing tools were being dismantled on deck. Serviced top drive and inspected same.
P13	TP (WB)	P1	0930	1030	1.00	2520.0m	Service break connections & laid out fishing tools. Simops - tested 9 5/8" annulus against shear rams 500 psi/10 min - ok.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WO)	G23	1030	1130	1.00	2520.0m	Time out for safety due to Derrickman hurting his back on rigfloor. IP had to be strechered from rig floor. Flash Report #44.
P13	TP (WB)	G18	1130	1230	1.00	2520.0m	Continued to service break connections and lay out fishing tools.
P13	TP (WB)	G18	1230	1530	3.00	2520.0m	Laid out 5 stands of DP from derrick that had been dry torqued for fishing job.
P13	TP (WB)	G19	1530	1600	0.50	2520.0m	Opened shear rams and pumped 5 bbls of HiVis mud & circulated bottoms up @ 160 strokes = 650 psi, while preparing 17 1/2" mill BHA.
P13	TP (WB)	G19	1600	1700	1.00	2520.0m	Make up 17 1/2" mill assembly and BHA run #19F
P13	TP (WB)	G19	1700	1800	1.00	2520.0m	RIH with 17 1/2" mill assembly and BHA run #19F. Tagged out at the 13 3/8" x 20" casing swedge at 98.97m. Indicated top of fish is inside the 13 3/8" casing.
P13	TP (WB)	G19	1800	1930	1.50	2520.0m	POOH and laid out 17 1/2" mill.
P13	TP (WB)	G19	1930	2030	1.00	2520.0m	Made up 12 1/4" mill plus 2 x junk subs on BHA.
P13	TP (WB)	G19	2030	2130	1.00	2520.0m	RIH with 12 1/4" mill on BHA Run#19F. Tagged top of 9 5/8" casing at 102m.
P13	TP (WB)	G19	2130	2300	1.50	2520.0m	Began milling top of sheared casing from 102m - 103m at 70 spm, 350gpm/50psi. 5k WOB.
P13	TP (WB)	G19	2300	2330	0.50	2520.0m	Pumped 10 bbls havis and circulated shakers clean. 425 grams returned from magnets down stream from shakers.
P13	TP (WB)	G19	2330	2400	0.50	2520.0m	POOH with 12 1/4" milling tool from 103m.

Operations For Period 0000 Hrs to 0600 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" casing mill.
P13	TP (WB)	G19	0200	0230	0.50	2520.0m	RIH with mill to 103m
P13	TP (WB)	G19	0230	0300	0.50	2520.0m	Mill inside casing from 103m - 106m at 50rpm, 70spm.
P13	TP (WB)	G19	0300	0330	0.50	2520.0m	POOH with mill from 106m to surface.
P13	TP (WB)	G19	0330	0400	0.50	2520.0m	Laid down 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.
P13	TP (WB)	G16	0500	0530	0.50	2520.0m	Washed and jetted wellhead and BOPs with 200spm, 220psi.
P13	TP (WB)	G16	0530	0600	0.50	2520.0m	POOH to surface with mill and jetting tool.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 01 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)	252	22 Oct 2009	01 Nov 2009	747.00	31.125	2520.0m	

WBM Data		Cost Today US\$ 1449							
Mud Type:	KCl POLYMER	API FL:	4.2cc/30min	Cl:	43000mg/l	Solids(%vol):	3%	Viscosity	63sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	11cp
Time:	11:00 hrs	HTHP-FL:	11.0cc/30min	Hard/Ca:	380mg/l	Oil(%):		YP	25lb/100ft²
Weight:	9.40ppg	HTHP-cake:	2/32nd"	MBT:	10	Sand:	.3	Gels 10s	11
Temp:				PM:	0.35	pH:	9	Gels 10m	15
				PF:	0.2	PHPA:	2ppb	Fann 003	10
								Fann 006	11
								Fann 100	24
								Fann 200	29
								Fann 300	36
								Fann 600	47
Comment		Note: Cost is in AUD							

BHA # 19F						
Weight(Wet)	Length	35.7m	Torque(max)		D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	
	Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	
	Slack-Off				D.P. Ann Velocity	
BHA Run Description						
BHA Run Comment						
Equipment	Length	OD	ID	Serial #	Comment	
Mill	0.63m	12.25in	2.87in	GK0133		
junk subs	1.45m	9.63in	3.00in	80139G		
Junk Sub	1.45m	9.63in	3.00in	80140G		
Bit Sub	1.21m	8.25in	2.75in	KT37		
12 1/4in stab	1.87m	12.25in	2.75in	647080D		
X/O	1.11m	8.25in	2.87in	1103		
6 3/4" DC	9.26m	6.75in	2.87in	1185		
6 3/4" DC	9.47m	6.75in	2.87in	1764		
6 3/4" DC	9.20m	6.75in	2.87in	1180		

BHA # 18F						
Weight(Wet)	Length	88.0m	Torque(max)		D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	String	170000.00klb	Torque(Off.Btm)		D.C. (2) Ann Velocity	
	Pick-Up	170000.00klb	Torque(On.Btm)		H.W.D.P. Ann Velocity	
	Slack-Off	175000.00klb			D.P. Ann Velocity	
BHA Run Description						
11 3/4 overshot dressed with 7 3/4 grapple						
BHA Run Comment						
Equipment	Length	OD	ID	Serial #	Comment	
Drill Pipe	9.64m	5.00in	4.00in			
Drill Pipe	9.64m	5.00in	4.00in			
Drill Pipe	9.64m	5.00in	4.00in			
Accelerator	3.86m	6.25in	2.18in	5590562071		
6 3/4" DC	9.20m	6.75in	2.87in	1180		
6 1/2in DC	9.47m	6.75in	2.87in	1764		
6 3/4" DC	9.26m	6.75in	2.87in	1185		
Drill Pipe	9.64m	5.00in	4.00in			
Overshot	1.26m	11.75in	3.26in	21046G	with 7.75 grapple	
X/O	1.22m	8.25in	2.26in	1793		
Bumper sub	1.89m	6.25in	2.25in	626		
Fishing Jar	3.84m	6.25in	2.18in	15256462034		
6 3/4" DC	9.43m	6.75in	2.87in	1178		

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	10	0	316.0	
Drill Water	m3	0	10	0	585.0	
Pot Water	m3	69	26	0	196.0	
Brine	m3	0	0	0	71.0	
Barite	MT	0	0	0	167.0	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Baradefoam-W300	can	0	0	0	9.0	
Barolift	boxes	0	1	0	17.0	
Bentonite	MT	0	0	0	81.2	
Caustic Soda	pail	0	2	0	30.0	
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	47
GRN	3
OMS	13
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
Total	94

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / James Munford			
Available	Losses	Equipment	Description	Mesh Size	Comments		
2782.6bbl	0.0bbl	Shaker 1	Brandt VSM 300	20 top/100bottom			
Active 631.4bbl	Downhole	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Mixing 0.0bbl	Surf+ Equip	Shaker 2	Brandt VSM 300	20 top/100bottom			
Hole 1150.6bbl	Dumped	Shaker 2	Brandt VSM 300	20 top/50 bottom			
Slug Reserve 1000.6bbl	De-Gasser	Shaker 3	Brandt VSM 300	20 top/100bottom			
	De-Sander	Shaker 3	Brandt VSM 300	20 top/50 bottom			
Kill	De-Silting	Shaker 4	Brandt VSM 300	20 top/100bottom			
	Centrifuge	Shaker 4	Brandt VSM 300	20 top/50 bottom			

Marine									
Weather on 01 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	14kn	235.0deg	1019.0mbar	12C°	1.0m	250.0deg	3s	1	197.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
0.8m	0.8deg	1.6deg	317.0deg	240000.00klb	116684.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
5.0m	260.0deg	5s							
								2	202.0
								3	156.0
								4	192.0
								5	213.0
								6	215.0
								7	194.0
								8	206.0
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status			Bulks			
Far Scimitar	0930		Rig standby.	Item	Unit	Used	Quantity		
				Rig Fuel	M3		658		
				Potable Water	M3		510		
				Drill Water	M3		530		
					t		0		
				Barite	t		0		
				Bentonite	t		0		
Brine	M3		165						
Far Scimitar on location 09:15hrs 01/11/09 assumes standby duties from Far Fosna.									
Far Fosna		0915	Steaming for Melbourne	Item	Unit	Used	Quantity		
				Rig Fuel	M3		511		
				Pot Water	M3		564		
				Drill Water	M3		362		
				Bentonite	t		42		
				Barite	t		0		
					t		130		
Brine	M3		0						
Far Fosna off location 09:15hrs 01/11/09									