

DRILLING MORNING REPORT # 54
Trefoil-2

23 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Texas Richards

Trefoil-2					
Date:	23 Nov 2009	Well Site Representative:	Bryan Houston	OIM:	Brian Meechan
Report Number:	54	Night Representative:	Paul Leathem	Drilling Company:	Maersk
Latitude (South):	39 ° 53 ' 07.89 "	Longitude (East):	145 ° 22 ' 14.87 "	Geologist:	

Well Data						
Country	Australia	MDBRT	3235.0m	Cur. Hole Size	8.500in	AFE Cost US\$1
Field	Trefoil	TVDBRT	3235.0m	Last Casing OD	9.625in	AFE No. Trefoil-2
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	2520.0m	Daily Cost US\$558,543
Rig	Kan Tan IV	Days from spud	48.67	Shoe MDBRT	2520.0m	Cumul. Cost US\$37,706,784
Wtr Dpth(MSL)	69.0m	Days on well	53.13	FIT/LOT:	11.00ppg /	Last LTI Date 01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m			Days Since Last LTI 22
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Current Op @ 0600	RIH with spear to retrieve cut 9 5/8" casing while displacing riser to seawater.	
Datum	GDA 94	Last BOP Test	05 Nov 2009	Planned Op	Retrieve 9 5/8" casing and lay out same. Rig up and pull BOPs and riser.	

Summary of Period 0000 to 2400 Hrs
Continued to POOH laying out drill pipe from 2100m to 1596m. Cranes shut down at 0200 hrs. Continued to lay out pipe until pipe bay was full. Waited on weather. Continued to lay out pipe. Made up jetting tool and wear bushing retrieval tool and RIH. Jetted well head and BOPs. Latched into wear bushing and POOH with same. Made up and RIH Halliburton EZSV packer. Set packer at 203m. RIH and tagged top of packer with 10klbs down to confirm set. Picked up and made up 9 5/8" casing cutting tools and RIH.

HSE Summary				
Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	1	1 Day	Held abandon drill	
Emergency Drill	0	19 Days	Full Emergency drill performed	
Fire Drill	0	9 Days	Main deck - Fire in Control room	
Permit To Work	16	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	8 Days	General safety meetings	Dropped object awareness presentation.
Safety Meeting	16	0 Days	Prejob safety meetings	
Safety Meeting	6	0 Days	Safety Meetings	
STOP Card	31	0 Days	Number of STOP Cards submitted	

FORMATION	
Name	Top
Cretaceous	3068.00m
TF50 Sand	3130.50m
TF80 Sand	3149.80m
Base TF110 Sand	3180.00m
Total Depth (TD)	3235.00m

Operations For Period 0000 Hrs to 2400 Hrs on 23 Nov 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G8	0000	0330	3.50	3235.0m	Continued to POOH laying out drill pipe from 2100m to 1596m. Cranes shut down at 0200 hrs. Continued to lay out pipe until pipe bay was full.
P21	TP (WOW)	G25	0330	1030	7.00	3235.0m	Waited on weather. Wind speed: 30+ Knots Roll: 3.2 deg Heave: 4m Pitch: 1.1 deg

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G8	1030	1630	6.00	3235.0m	Continued to lay down DP from 1596m to 101m.
P21	P	G4	1630	1800	1.50	3235.0m	Laid down 101m of 2-7/8" stinger.
P21	P	G1	1800	1830	0.50	3235.0m	Cleaned rig floor and pulled diverter element.
P21	P	G12	1830	2030	2.00	3235.0m	Made up Drillquip jetting tool and wear bushing retrieval tool and RIH. Jetted well head and BOPs. Latched into wear bushing and POOH with same.
P21	P	G15	2030	2130	1.00	3235.0m	Cleared rig floor and held PJSM. Made up Halliburton EZSV packer.
P21	P	G8	2130	2230	1.00	3235.0m	RIH to 203m with Halliburton EZSV packer. Set packer with 35 turns to the right. 50klbs overpull performed at 10k intervals. RIH and tagged top of packer with 10klbs down to confirm set - ok.
P21	P	G8	2230	2330	1.00	3235.0m	POOH with packer running tool and laid out same.
P21	P	G8	2330	2400	0.50	3235.0m	Picked up and made up 9 5/8" casing cutting tools and RIH same.

Operations For Period 0000 Hrs to 0600 Hrs on 24 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G8	0000	0100	1.00	3235.0m	Continued to pick up and make up 9 5/8" casing cutting tools and RIH same.
P21	P	G17	0100	0130	0.50	3235.0m	Cut 9 5/8" at 145m with 90gpm/745psi/85rpm/3k torque.
P21	P	G8	0130	0230	1.00	3235.0m	Flow checked. POOH casing cutter and laid out same.
P21	P	G8	0230	0330	1.00	3235.0m	Picked up and made up spear assembly and RIH.
P21	P	G8	0330	0430	1.00	3235.0m	Tagged top of 9 5/8" casing hanger and applied 10klbs down weight Applied 50klbs over pull to release hanger and 9 5/8" casing. POOH, released spear and racked back in the mast. Fish at surface at 04.10 hrs.
P21	P	G1	0430	0530	1.00	3235.0m	Rigged up casing tongs and laid out 9 5/8" casing hanger and casing joint. Casing backed out 1 joint below hanger while being cut.
P21	TP (WB)	G18	0530	0600	0.50	3235.0m	Made up casing spear and RIH to spear remainder of 9 5/8" casing while displacing riser and C&K lines from mud to seawater.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 23 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)	53.5	04 Oct 2009	06 Oct 2009	123.00	5.125	155.0m
Conductor Casing(P3)	30	07 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)	359.5	06 Nov 2009	21 Nov 2009	1,213.50	50.563	3235.0m
Suspend and Abandon(P21)	61.5	21 Nov 2009	23 Nov 2009	1,275.00	53.125	3235.0m

WBM Data
Cost Today US\$ 126

Mud Type:	KCI POLYMER	API FL:	5.2cc/30min	Cl:	39000mg/l	Solids(%vol):	4%	Viscosity	55sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	93%	PV	14cp
Time:	19:00 hrs	HTHP-FL:	11.2cc/30min	Hard/Ca:	800mg/l	Oil(%):		YP	29lb/100ft²
Weight:	9.50ppg	HTHP-cake:	1/32nd"	MBT:	9	Sand:	.3	Gels 10s	9
Temp:				PM:	0.2	pH:	8.5	Gels 10m	11
				PF:	0.1	PHPA:	2ppb	Fann 003	8
								Fann 006	10
								Fann 100	26
								Fann 200	37
								Fann 300	43
								Fann 600	57
Comment	Note: Cost is in AUD								

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	8	0	339.0
Drill Water	m3	0	141	0	673.0
Pot Water	m3	39	13	0	194.0
Brine	m3	0	0	0	180.0
Barite	MT	0	0	0	81.6
Baradefoam-W300	can	0	0	0	8.0

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barolift	boxes	0	0	0	16.0	
Bentonite	MT	0	0	0	46.0	
Caustic Soda	pail	0	0	0	0.0	
Lime	sx	0	0	0	0.0	
Soda Ash	sx	0	0	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	78.0	

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					30			40			50		
2	Continental Emsco	6.50	1.12	97					30			40		336	50	560	420
3	Continental Emsco	6.50	1.12	97					30			40			50	600	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	40
GRN	5
OMS	20
Dril-Quip	1
Geoservices	2
Halliburton Cementers	2
Halliburton (Baroid)	2
PCS	3
Fugro ROV	3
Smith Services	2
Other Contractor	4
Reach	1
Total	89

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Jay Wan / James Munford

Available	1458.2bbl	Losses	100.6bbl	Equipment	Description	Mesh Size	Comments
Active	764.8bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	0.0bbl	Shaker 2	Brandt VSM 300	20 top/50 bottom	
Hole	548.4bbl	Dumped	35.0bbl	Shaker 3	Brandt VSM 300	20 top/50 bottom	
Slug		De-Gasser		Shaker 4	Brandt VSM 300	20 top/50 bottom	
Reserve	145.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge Left Behind	65.6bbl				

Marine

Weather on 23 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	15kn	241.0deg	1022.0mbar	13C°	5.0m	210.0deg	2s	1	207.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
5.0m	1.0deg	1.7deg	317.0deg	240000.00klb	116684.00klb	Rough weather through the early morning.			
Swell Height	Swell Dir.	Swell Period	Comments						
6.0m	210.0deg	5s							
								2	196.0
								3	145.0
								4	188.0
								5	202.0
								6	208.0
								7	194.0
								8	210.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar		14.30 19th Nov 09	KT4 Standby.	Item	Unit	Used	Quantity
				Rig Fuel	M3		493
				Potable Water	M3		142
				Drill Water	M3		817
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		112
0000- 2400 Rig Stby							
Far Fosna	06.20 13/11/09	22/11/09	Melbourne 28 South wharf	Item	Unit	Used	Quantity
				Rig Fuel	M3		624
				Pot Water	M3		388
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		40
					t		130
				Brine	M3		0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	0903 / 0916	11 / 10	Crew Change