

21 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Texas Richards

DRILLING MORNING REPORT # 52
Trefoil-2

Trefoil-2					
Date:	21 Nov 2009	Well Site Representative:	Bryan Houston	OIM:	Brian Meechan
Report Number:	52	Night Representative:	Paul Leathem	Drilling Company:	Maersk
Latitude (South):	39 ° 53 ' 07.89 "	Longitude (East):	145 ° 22 ' 14.87 "	Geologist:	Dennis Archer

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\$557,732
Rig	Kan Tan IV	Days from spud	46.67	Shoe MDBRT	2520.0m	Cumul. Cost US\$36,568,060
Wtr Dpth(MSL)	69.0m	Days on well	51.13	FIT/LOT:	11.00ppg /	Last LTI Date 01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m			Days Since Last LTI 20
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Current Op @ 0600	Laying down 5" DP while wait on cement.	
Datum	GDA 94	Last BOP Test	05 Nov 2009	Planned Op	RIH and tag cement. POOH and pump cement plug #2. Wait on cement 6 hrs. RIH tag cement. POOH laying down pipe. Press test cement plug. Continue to POOH laying down DP.	

Summary of Period 0000 to 2400 Hrs
Completed wireline logging operations. Laid out 8 1/2" stabiliser, jars and 2 x 6 3/4" DCs. Rigged up and ran 2 7/8" tubing on 5" DP to 3235m. Circulated bottoms up. Pumped Cmt plug #1A. POOH from 3235m to 3085m. Circulated bottoms up. Pumped cement plug #1B.

HSE Summary				
Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	0	7 Days	Held abandon drill	
Emergency Drill	0	17 Days	Full Emergency drill performed	
Fire Drill	0	7 Days	Main deck - Fire in Control room	
Permit To Work	14	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	6 Days	General safety meetings	Dropped object awareness presentation.
Safety Meeting	14	0 Days	Prejob safety meetings	
Safety Meeting	8	0 Days	Departmental Safety Meetings	Bi-weekly Departmental Safety Meetings.
STOP Card	45	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 21 Nov 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	E3	0000	0100	1.00	3235.0m	Lay down wireline tools for run #2.
P17	P	E3	0100	0200	1.00	3235.0m	Picked up and made up wire line tools for run #3 (SMI/DSI/GR/LEHQT).
P17	P	E3	0200	0600	4.00	3235.0m	RIH and logged with wireline tools SMI/DSI/GR/LEHQT.
P17	P	E3	0600	0700	1.00	3235.0m	POOH with wireline run #3.
P17	P	E3	0700	0800	1.00	3235.0m	Held PJSM and laid out wireline tools from run #3 (SMI/DSI/GR/LEHQT).
P17	P	G1	0800	0900	1.00	3235.0m	Rigged down wireline equipment.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	G6	0900	1030	1.50	3235.0m	Laid out 8 1/2" stabiliser, jars and 2 x 6 3/4" DCs.
P21	P	G23	1030	1100	0.50	3235.0m	Held PJSM and rigged up to run 2 7/8" tubing.
P21	P	G8	1100	1230	1.50	3235.0m	Picked up and RIH 2 7/8" tubing to 101m.
P21	P	G8	1230	1900	6.50	3235.0m	RIH 2 7/8" tubing on 5" DP from 101m - 3235m.
P21	P	F4	1900	2030	1.50	3235.0m	Circulated bottoms up @ 400gpm/ 1800psi. Max gas on bottoms up 20%.
P21	P	F3	2030	2200	1.50	3235.0m	Cement plug #1A: Made up cement head. Broke circulation and pressure tested surface lines to 3000psi (5min) - ok. Pumped 15bbbls of drill water, followed by 43.2bbbls of 15.8ppg cement (plug #1A). Cement in place at 21.50hrs. Displaced cement with 165 bbbls of 9.4ppg mud.
P21	P	G8	2200	2230	0.50	3235.0m	Broke off cement head and POOH from 3235m to 3085m on the elevators.
P21	P	F4	2230	2330	1.00	3235.0m	Circulated bottoms up at 3085m with 700gpm/1800psi. No cement returns seen at shakers.
P21	P	F3	2330	2400	0.50	3235.0m	Cement plug #1B: Made up cement head. Broke circulation and pressure tested surface lines to 3000psi (5min) - ok. Pumped 15bbbls of drill water followed by 43.2bbbls of 15.8ppg cement.

Operations For Period 0000 Hrs to 0600 Hrs on 22 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	F3	0000	0030	0.50	3235.0m	Continued with cement plug #1B. Pumped 15bbbls of drill water followed by 43.2bbbls of 15.8ppg cement. Displaced with 156bbbls 9.4ppg mud.
P21	P	G8	0030	0100	0.50	3235.0m	POOH from 3085m to 2935m.
P21	P	F4	0100	0200	1.00	3235.0m	Circulated bottoms up @ 700gpm/ 1800psi. Diverted and treated 35bbbls of cement contaminated mud.
P21	P	F3	0200	0300	1.00	3235.0m	Cement plug 1C: Made up cement head and pumped 5 bbbls of mud. Pressure tested surface lines to 3000psi (5min) - ok. Pumped 15bbbls of drill water followed by 43.2bbbls of 15.8ppg cement. Displaced with 148 bbbls of 9.4ppg mud. Plug set in place 0300hrs.
P21	P	G8	0300	0400	1.00	3235.0m	POOH from 2935m to 2520m.
P21	P	F4	0400	0500	1.00	3235.0m	Circulated bottoms up @ 700gpm/1800psi.
P21	P	G4	0500	0600	1.00	3235.0m	(IN PROGRESS) Laid out 5" DP while wait on cement.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 21 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)	13.5	21 Nov 2009	21 Nov 2009	1,227.00	51.125	3235.0m

General Comments

00:00 TO 24:00 Hrs ON 21 Nov 2009

WBM Data
Cost Today US\$ 173

Mud Type:	KCl POLYMER	API FL:	5.0cc/30min	Cl:	37000mg/l	Solids(%vol):	4%	Viscosity	56sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	93%	PV	11cp
Time:	19:00 hrs	HTHP-FL:	10.2cc/30min	Hard/Ca:	320mg/l	Oil(%):		YP	31lb/100ft²
Weight:	9.50ppg	HTHP-cake:	1/32nd"	MBT:	10	Sand:	.3	Gels 10s	7
Temp:				PM:	0.2	pH:	9	Gels 10m	11
				PF:	0.1	PHPA:	2ppb	Fann 003	8
								Fann 006	9
								Fann 100	26
								Fann 200	35
								Fann 300	42
								Fann 600	53
Comment	Note: Cost is in AUD								

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	14	0	365.0	
Drill Water	m3	0	51	0	824.0	
Pot Water	m3	0	17	0	187.0	
Brine	m3	0	0	0	180.0	
Barite	MT	0	0	0	81.6	
Baradefoam-W300	can	0	0	0	9.0	
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	43
GRN	5
OMS	16
Reach	1
Geoservices	4
Halliburton Cementers	2
Halliburton (Baroid)	2
Fugro ROV	3
Sperry Sun	2
Other Contractor	1
Origin Energy	2
Schlumberger (Wireline)	7
Total	92

Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Jay Wan / James Munford

Available	1558.6bbl	Losses	12.3bbl	Equipment	Description	Mesh Size	Comments
Active	792.9bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	12.3bbl	Shaker 2	Brandt VSM 300	20 top/50 bottom	
Hole	670.7bbl	Dumped		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Slug		De-Gasser		Shaker 4	Brandt VSM 300	20 top/50 bottom	
Reserve	95.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge evaporation					

Marine

Weather on 21 Nov 2009

Rig Support

Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	5kn	240.0deg	1005.0mbar	14C°	2.0m	230.0deg	2s	1	194.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
1.0m	0.4deg	1.0deg	317.0deg	240000.00klb	116684.00klb	Fine			
Swell Height	Swell Dir.	Swell Period	Comments						
3.0m	230.0deg	5s							
								2	174.0
								3	147.0
								4	195.0
								5	203.0
								6	206.0
								7	187.0
								8	206.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
				Item	Unit	Used	Quantity
Far Scimitar		14.30 19th Nov 09	KT4 Standby.	Rig Fuel	M3		515
				Potable Water	M3		148
				Drill Water	M3		817
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		112

 0000 - 0250 Transit KT4 to Melb
 0250 - 1300 Alongside 28 South Wharf
 1300 - 2315 Transit Melb to KT4
 2315 - 2400 KT4

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
				Item	Unit	Used	Quantity
Far Fosna	06.20 13/11/09		Stand-By at KT4	Rig Fuel	M3		643
				Pot Water	M3		404
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		40
					t		130
				Brine	M3		0

 0001 - 1400 r/stby
 1400 - 1700 s/s cargo ops
 1700 - 2100 r/stby
 2100 - 2215 s/s cargo ops
 2215 - 2400 r/stby