

20 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Texas Richards

DRILLING MORNING REPORT # 51
Trefoil-2

Trefoil-2					
Date:	20 Nov 2009	Well Site Representative:	Bryan Houston	OIM:	Brian Meechan
Report Number:	51	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\$673,925
Rig	Kan Tan IV	Days from spud	45.67	Shoe MDBRT	2520.0m	Cumul. Cost US\$36,010,328
Wtr Dpth(MSL)	69.0m	Days on well	50.13	FIT/LOT:	11.00ppg /	Last LTI Date 01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m			Days Since Last LTI 19
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Current Op @ 0600	Running wireline run #3 (SMI/DSI/GR/LEHQT).	
Datum	GDA 94	Last BOP Test	05 Nov 2009	Planned Op	Continue with wireline run #3. RIH with cement stinger and pump cement plugs for P&A.	

Summary of Period 0000 to 2400 Hrs
Continued with wireline run #2 (MDT/XPT). Installed new camera and bracket in the mast. Drill crews continued with maintenance and house keeping.

HSE Summary					
Events	Num. Events	Days Since	Descr.	Remarks	
Last BOP Test	05 Nov 2009				
Abandon Drill	0	6 Days	Held abandon drill		
Emergency Drill	0	16 Days	Full Emergency drill performed.		
Fire Drill	0	6 Days	Main deck - Fire in Control room		
Permit To Work	15	0 Days	Permits administered		
Pre-tour Meeting	2	0 Days	Shift change meetings		
Safety Meeting	0	5 Days	General safety meetings	Dropped object awareness presentation.	
Safety Meeting	15	0 Days	Prejob safety meetings		
STOP Card	53	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 20 Nov 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	E3	0000	2300	23.00	3235.0m	Continued with wire line run #2 (MDT/XPT). Completed 4 correlation runs and 65 pretests from 2560.1m to 3208.3m (50 valid, 14 tight, 1 super charged). - 14 attempted sampling points - 7 pump outs - 3 sampling stations - 6 samples taken Volume of hydrocarbons pumped into the borehole at each pumpout station: 3181.2 m MDRT = 34.345 litres; fluid type = water 3171.2 m MDRT = 26.675 litres; fluid type = gas/water 3175 m MDRT = 38.315 litres; fluid type = water 3155.1 m MDRT = 35.89 litres; fluid type = gas/condensate

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	E3	2300	2400	1.00	3235.0m	3149.0 m MDRT = 17.945 litres; fluid type = gas/condensate 2994.8 m MDRT = 20.370 litres; fluid type = water 2830.3 m MDRT = 51.158 litres; fluid type = gas/condensate Total volume: 224.698 litres. Monitored well on trip tank. Drill crew continued PMS on drilling equipment. POOH wire line run # 2 to surface.

Operations For Period 0000 Hrs to 0600 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.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 20 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)	349	06 Nov 2009	20 Nov 2009	1,203.00	50.125	3235.0m

General Comments

00:00 TO 24:00 Hrs ON 20 Nov 2009

WBM Data
Cost Today US\$ 604

Mud Type:	KCl	API FL:	5.0cc/30min	Cl:	36000mg/l	Solids(%vol):	4%	Viscosity	57sec/qt
	POLYMER	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	93%	PV	13cp
Sample-From:	2	HTHP-FL:	10.0cc/30min	Hard/Ca:	320mg/l	Oil(%):		YP	29lb/100ft ²
Time:	20:00 hrs	HTHP-cake:	1/32nd"	MBT:	10	Sand:	.3	Gels 10s	8
Weight:	9.50ppg			PM:	0.2	pH:	9	Gels 10m	11
Temp:				PF:	0.1	PHPA:	2ppb	Fann 003	8
								Fann 006	9
								Fann 100	26
								Fann 200	35
								Fann 300	42
								Fann 600	55
Comment	Note: Cost is in AUD								

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	17	0	0	379.0
Drill Water	m3	123	0	0	875.0
Pot Water	m3	24	0	0	204.0
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
Swaco	1
Sperry Sun	2
Other Contractor	1
Origin Energy	2
Schlumberger (Wireline)	7
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / James Munford			
Available	Losses	Equipment	Description	Mesh Size	Comments		
1571.0bbl	0.0bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Active 652.0bbl	Downhole	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Mixing 0.0bbl	Surf+ Equip	Shaker 2	Brandt VSM 300	20 top/50 bottom			
Hole 860.0bbl	Dumped	Shaker 2	Brandt VSM 300	20 top/50 bottom			
Slug	De-Gasser	Shaker 3	Brandt VSM 300	20 top/50 bottom			
Reserve 59.0bbl	De-Sander	Shaker 3	Brandt VSM 300	20 top/50 bottom			
Kill	De-Silter	Shaker 4	Brandt VSM 300	20 top/50 bottom			
	Centrifuge evaporation	Shaker 4	Brandt VSM 300	20 top/50 bottom			

Marine

Weather on 20 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	16kn	276.0deg	1005.0mbar	16C°	3.0m	230.0deg	2s	1	195.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
1.0m	1.0deg	1.1deg	317.0deg	240000.00klb	116684.00klb	Fine			
Swell Height	Swell Dir.	Swell Period	Comments						
4.0m	230.0deg	5s							
								8	202.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar		14.30 19th Nov 09	Enroute to Melbourne.	Item	Unit	Used	Quantity
				Rig Fuel	M3		537
				Potable Water	M3		151
				Drill Water	M3		817
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		112

0000 - 1400 Running standby KT4
 1400 - 1430 Backload cargo
 1430 - 2400 Transit KT4 to Melbourne

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Fosna	06.20 13/11/09		Stand-By at KT4	Item	Unit	Used	Quantity
				Rig Fuel	M3		651
				Pot Water	M3		412
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		40
					t		130
				Brine	M3		0

0001 - 2400 r/stby

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	09.28 / 09.41	11 / 11	Crew Change