

18 Nov 2009

 From: Bryan Houston / Paul Leatham
 To: Texas Richards

DRILLING MORNING REPORT # 49
Trefoil-2

Trefoil-2					
Date:	18 Nov 2009	Well Site Representative:	Bryan Houston	OIM:	Brian Meechan
Report Number:	49	Night Representative:	Paul Leatham	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	27.0m	Shoe TVDBRT	2520.0m	Daily Cost US\$641,877
Rig	Kan Tan IV	Days from spud	43.67	Shoe MDBRT	2520.0m	Cumul. Cost US\$33,696,113
Wtr Dpth(MSL)	69.0m	Days on well	48.13	FIT/LOT:	11.00ppg /	Last LTI Date 01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m			Days Since Last LTI 17
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Current Op @ 0600	Continue with wireline logging run # 1.	
Datum	GDA 94	Last BOP Test	05 Nov 2009	Planned Op	Continue wireline logging operations.	

Summary of Period 0000 to 2400 Hrs

Continued to drill ahead 8 1/2" hole to TD at 3235m. Pumped out of the hole to 3054m. Pumped slug and continued to POOH to 288m. POOH BHA and downloaded MWD and removed sources. Broke off bit and laid down MWD tools. Held Pre job safety meeting and rigged up Schlumberger wireline. RIH run #1 to 3230m and commenced logging up. Mechanics worked on draw works shaft and HPU pump. 440 grams of steel recovered from the ditch magnets.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	0	4 Days	Held abandon drill	
Emergency Drill	0	14 Days	Full Emergency drill performed	
Fire Drill	0	4 Days	Main deck - Fire in Control room	
Permit To Work	13	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	3 Days	General safety meetings	Dropped object awareness presentation.
Safety Meeting	6	0 Days	Prejob safety meetings	
STOP Card	52	0 Days	Number of STOP Cards submitted	
Trip / Kick Drill	1	0 Days	Trip Drill 31sec	Held while POOH

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 18 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	D2	0000	0300	3.00	3235.0m	Continued to drill ahead 8 1/2" hole with 700gpm/ 2900psi/ 100rpm/ 15 WOB/ 10k torque to TD at 3235m.
P17	P	F4	0300	0430	1.50	3235.0m	Circulated 2x bottoms up with 700gpm/ 2900psi to allow Geoservices to retrieve sample. No gas on bottoms up recorded. Shakers clean.
P17	P	D7	0430	0530	1.00	3235.0m	Pumped out of the hole from 3235m to 3151m.
P17	P	G8	0530	0730	2.00	3235.0m	Pumped slug and continued to POOH on elevators from 3151m to 2514m. Monitored well on the trip tank.
P17	P	P3	0730	0800	0.50	3235.0m	Performed flow check at shoe - static. Serviced top drive.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	G8	0800	1230	4.50	3235.0m	Continued to POOH in casing from 2514m to 288m. Performed flow check prior to pulling BHA into BOPs.
P17	P	G6	1230	1400	1.50	3235.0m	POOH BHA from 288m to 32m.
P17	P	G7	1400	1430	0.50	3235.0m	Downloaded MWD and removed sources from same.
P17	P	G7	1430	1600	1.50	3235.0m	Broke off bit and laid down MWD tools. Bit grade 1-2-CT-S-X-I-NO-TD. A total of 440 grams of steel recovered from the ditch magnets.
P17	P	G1	1600	1700	1.00	3235.0m	Held pre job safety meeting and rigged up Schlumberger wire line.
P17	P	E3	1700	2030	3.50	3235.0m	Picked up and made up Schlumberger wire line tools for logging run#1 (CMR+/ Pex/ HRLA/ HNGS).
P17	P	E3	2030	2300	2.50	3235.0m	RIH with Schlumberger tools @ 6000 ft/hr.
P17	P	E3	2300	2400	1.00	3235.0m	Schlumberger tools at 3230m. Commenced logging up. Mechanics worked on draw works shaft and HPU pump.

Operations For Period 0000 Hrs to 0600 Hrs on 19 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P17	P	E3	0000	0600	6.00	3235.0m	Continued with wireline run #1.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 18 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)	301	06 Nov 2009	18 Nov 2009	1,155.00	48.125	3235.0m

General Comments

00:00 TO 24:00 Hrs ON 18 Nov 2009

WBM Data
Cost Today US\$ 11572

Mud Type:	KCI POLYMER	API FL:	5.0cc/30min	Cl:	38000mg/l	Solids(%vol):	4%	Viscosity	61sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	93%	PV	14cp
Time:	22:00 hrs	HTHP-FL:	10.3cc/30min	Hard/Ca:	360mg/l	Oil(%):		YP	29lb/100ft²
Weight:	9.50ppg	HTHP-cake:	1/32nd"	MBT:	10	Sand:	.3	Gels 10s	8
Temp:				PM:	0.2	pH:	9	Gels 10m	12
Comment	Note: Cost is in AUD							Fann 003	9
				PF:	0.1	PHPA:	2ppb	Fann 006	10
								Fann 100	28
								Fann 200	37
								Fann 300	43
								Fann 600	57

Bit # 5 RR

Wear	I	O1	D	L	B	G	O2	R	
	1	2	CT	S	X	I	NO	TD	
Bitwear Comments:									
Size ("):	8.50in	IADC#	M223	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Mfr:	SMITH	WOB(avg)	12.00klb	No.	Size	Progress	27.0m	Cumul. Progress	333.0m
Type:	PDC	RPM(avg)	100	6	14/32nd"	On Bottom Hrs	6.1h	Cumul. On Btm Hrs	30.0h
Serial No.:	TX2104	F.Rate	683gpm			IADC Drill Hrs	0.0h	Cumul. IADC Drill Hrs	12.5h
Bit Model	MI616	SPP	2788psi			Total Revs	33	Cumul. Total Revs	92
Depth In	3175.0m	HSI				ROP(avg)	4.43 m/hr	ROP(avg)	11.10 m/hr
Depth Out	3235.0m	TFA	0.902						
Bit Comment	Re Run x4 Bit # 5								

BHA # 31							
Weight(Wet)	50000.00klb	Length	288.4m	Torque(max)	19ft-lbs	D.C. (1) Ann Velocity	627fpm
Wt Below Jar(Wet)	25000.00klb	String	380.00klb	Torque(Off.Btm)	8ft-lbs	D.C. (2) Ann Velocity	0fpm
		Pick-Up	395.00klb	Torque(On.Btm)	10ft-lbs	H.W.D.P. Ann Velocity	354fpm
		Slack-Off	370.00klb			D.P. Ann Velocity	354fpm

BHA Run Description	8 1/2 Drilling BHA
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BHA Run Comment	4th ReRun Bit #5
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Equipment	Length	OD	ID	Serial #	Comment
Bit	0.28m	8.50in	2.25in	TX2104	
NB Stab	1.50m	6.88in	3.25in	700172	
Gamma-Ray	7.07m	8.25in	3.00in	90222505	
DM sub	2.81m	6.63in	2.88in	1025744	
MWD	9.20m	8.25in	3.25in	922683	
Sonic 6	6.76m	7.38in	3.00in	922755-06	
Pulser	3.03m	6.81in	2.88in	302842	
MWD	1.81m	7.13in	1.88in	92223063B6	
8-1/2" String Stab	1.70m	8.38in	2.81in	700802	
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	0	0	396.0
Drill Water	m3	0	0	0	854.0
Pot Water	m3	0	0	0	220.0
Brine	m3	0	0	0	180.0
Barite	MT	0	13.8	0	81.6
Baradefoam-W300	can	0	0	0	9.0
Barolift	boxes	0	0	0	16.0
Bentonite	MT	0	0	0	33.0
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	71	2700	703	2520.0	30	400	252	40	500	336	50	650	420
2	Continental Emsco	6.50	1.12	97	73	2700	703	2520.0	30	340	252	40	440	336	50	560	420

Pumps																	
Pump Data - Last 24 Hrs								Slow Pump Data									
3	Continental Emsco	6.50	1.12	97	85	2700	729	2850.0	30	400	252	40	500	336	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	44
GRN	4
OMS	15
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	92

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / James Munford			
Available	Losses	Equipment	Description	Mesh Size	Comments		
1585.7bbl	66.4bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Active 598.0bbl	Downhole	Shaker 1	Brandt VSM 300	20 top/50 bottom			
Mixing 0.0bbl	Surf+ Equip 58.8bbl	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 127.7bbl	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 7.6bbl	Shaker 4	Brandt VSM 300	20 top/50 bottom			

Marine									
Weather on 18 Nov 2009							Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	16kn	210.0deg	1001.0mbar	14C°	0.0m	210.0deg	2s	1	198.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
0.0m	0.8deg	1.1deg	317.0deg	240000.00klb	116684.00klb	Fine			
Swell Height	Swell Dir.	Swell Period	Comments						
3.0m	200.0deg	5s							
								2	201.0
								3	201.0
								4	191.0
								5	169.0
								6	204.0
								7	209.0
								8	204.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks
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Far Scimitar		11:05 hours 13/11/09	Alongside Melbourne.	Item	Unit	Used	Quantity
				Rig Fuel	M3		569
				Potable Water	M3		157
				Drill Water	M3		817
					t		0
				Barite	t		0
				Bentonite	t		0
Brine	M3		112				

#1 Main engine out of service due to fly wheel problem.

Far Fosna	06.20 13/11/09		Stand-By at KT4	Item	Unit	Used	Quantity
				Rig Fuel	M3		667
				Pot Water	M3		428
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		40
					t		130
Brine	M3		0				

1935 - 2025hrs, servicing rig.

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	08.56 / 09:08	4 / 9	Crew Change