

26 Nov 2009

 From: Bryan Houston / Kevin Monkhouse  
 To: Texas Richards

**DRILLING MORNING REPORT # 57**  
**Trefoil-2**

<b>Trefoil-2</b>					
<b>Date:</b>	26 Nov 2009	<b>Well Site Representative:</b>	Bryan Houston	<b>OIM:</b>	Brian Meechan
<b>Report Number:</b>	57	<b>Night Representative:</b>	Kevin Monkhouse	<b>Drilling Company:</b>	Maersk
<b>Latitude (South):</b>	39 ° 53 ' 07.89 "	<b>Longitude (East):</b>	145 ° 22 ' 14.87 "	<b>Geologist:</b>	

<b>Well Data</b>							
Country	Australia	MDBRT	3235.0m	Cur. Hole Size	8.500in	AFE Cost	US\$33,167,745
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\$545,973
Rig	Kan Tan IV	Days from spud	51.67	Shoe MDBRT	2520.0m	Cumul. Cost	US\$39,400,834
Wtr Dpth(MSL)	69.0m	Days on well	56.13	FIT/LOT:	11.00ppg /	Last LTI Date	01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m			Days Since Last LTI	25
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Current Op @ 0600	Cutting 30" casing.		
Datum	GDA 94	Last BOP Test	05 Nov 2009	Planned Op	Cut 30" casing and recover PGB and 30" housing. Set cement plug at top of well. Conduct seabed survey. Lay out excess tubulars from mast. Deballast rig and commence recovery of anchors.		

**Summary of Period 0000 to 2400 Hrs**

Attempted to pull PGB and surface casing free with 300k overpull. Released collet spear and POOH. Made up grapple and jarring BHA and engaged 20" casing with same. Jarred on casing to attempt to free 30" casing and PGB. POOH with jarring assembly. Conducted post jarring check on mast and TDS. Made up casing cutting assembly and RIH. Engaged 18 3/4" housing with spear and commenced cutting casing at 96.88m. 18 3/4" housing inner came free. POOH with 18 3/4" wellhead inner and 20" casing stub and laid out same. Ran in with 20" grapple spear to recover 3m cut section in well.

<b>HSE Summary</b>				
Events	Num. Events	Days Since	Descr.	Remarks
Last BOP Test	05 Nov 2009			
Abandon Drill	0	4 Days	Held abandon drill	
Emergency Drill	0	22 Days	Full Emergency drill performed	
Fire Drill	0	12 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	11 Days	General safety meetings	
Safety Meeting	16	0 Days	Prejob safety meetings	
Safety Meeting	7	0 Days	Safety Meetings	
STOP Card	33	0 Days	Number of STOP Cards submitted	

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

<b>Operations For Period 0000 Hrs to 2400 Hrs on 26 Nov 2009</b>							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G17	0000	0030	0.50	3235.0m	Stopped cutting casing. Attempted to pull casing free with 300klbs overpull - unsuccessful.
P21	P	G7	0030	0100	0.50	3235.0m	Released Smith collet spear from 18 3/4" wellhead.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G8	0100	0130	0.50	3235.0m	POOH with 20"x 30" cutting BHA.
P21	P	G7	0130	0330	2.00	3235.0m	Checked condition of casing cutter assembly. Knives confirmed that 20" and 30" casing had been cut. Laid out cutting BHA.
P21	P	G7	0330	0630	3.00	3235.0m	Made up grapple, fishing jar and accelerator BHA
P21	P	G18	0630	0730	1.00	3235.0m	RIH to seabed with jarring assembly and attempted to stab into 18 3/4" wellhead - unsuccessful.
P21	P	G18	0730	0830	1.00	3235.0m	POOH. Re-secured guide line ropes to BHA and RIH. Stabbed into 18 3/4" wellhead and engaged with casing spear.
P21	P	G18	0830	1130	3.00	3235.0m	Worked jar. Jar fired at 300klbs and attempted to free with 200klbs overpull - unsuccessful. Continued jarring with static overpulls up to 280klbs. No movement in casing.
P21	P	G18	1130	1200	0.50	3235.0m	Disengaged spear and pulled assembly clear of wellhead.
P21	P	G11	1200	1300	1.00	3235.0m	Performed post jarring mast and TDS check.
P21	P	G22	1300	1430	1.50	3235.0m	POOH and laid out jarring BHA.
P21	P	G8	1430	1730	3.00	3235.0m	Made up 20/30" casing cutting assembly and shallow tested same (140gpm/600psi). RIH to sea bed.
P21	P	G11	1730	1800	0.50	3235.0m	Serviced top drive. Tightened and tie wired loose bolts observed on TDS link tilt.
P21	P	G17	1800	1830	0.50	3235.0m	Stabbed into well and engaged 18 3/4" wellhead with spear. Applied 25klbs overpull (200klbs MD) to confirm latch.
P21	P	G17	1830	1900	0.50	3235.0m	Reduced weight to 190klbs and commenced cutting casing at 96.88m with 15klbs overpull (100rpm/150gpm/800psi/2-6 ft-lbs). Compensator closed as 18 3/4" housing inner came free.
P21	P	G8	1900	1930	0.50	3235.0m	Visually checked fish with ROV. POOH with fish.
P21	P	G5	1930	2100	1.50	3235.0m	Laid out 18 3/4" inner wellhead housing and 20" casing stub (18 3/4" landing ring and reaction ring left in the 30" housing).
P21	P	G7	2100	2300	2.00	3235.0m	Made up 20" grapple fishing BHA.
P21	P	G8	2300	2400	1.00	3235.0m	RIH with 20" grapple BHA to seabed and stabbed into wellhead.

**Operations For Period 0000 Hrs to 0600 Hrs on 27 Nov 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P21	P	G18	0000	0030	0.50	3235.0m	Engaged 20" casing fish with spear and confirmed with ROV.
P21	P	G8	0030	0100	0.50	3235.0m	POOH with spear assembly and 20" casing stub.
P21	P	G5	0100	0230	1.50	3235.0m	Laid out spear assembly with fished casing stub attached.
P21	P	G7	0230	0330	1.00	3235.0m	Made up 30" casing cutting assembly.
P21	P	G8	0330	0500	1.50	3235.0m	Made up DCs to cutting assembly and secured ropes to guide lines. RIH with casing cutter assembly and stabbed into wellhead.
P21	P	G17	0500	0600	1.00	3235.0m	Landed stop collar on wellhead with 10klbs down weight and commenced cutting 30" casing at 97.88m while maintaining 18,400lbs tension on the PGB with the guide lines. (80rpm, 150gpm, 800psi, 10k weight down, 5k ft-lbs torque.)

**Phase Data to 2400hrs, 26 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)	133.5	21 Nov 2009	26 Nov 2009	1,347.00	56.125	3235.0m

**Bulk Stocks**

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	5.9	0	308.3
Drill Water	m3	0	40.6	0	152.4
Pot Water	m3	36.5	25.4	0	199.0
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		97					30			40			50		
2	Continental Emsco	6.50		97					30			40			50		
3	Continental Emsco	6.50		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.
9.63	/ 11.00ppg	2520.00m / 2520.00m	No Cmt

Personnel On Board	
Company	Pax
ADA	5
Maersk	48
GRN	5
OMS	20
Dril-Quip	1
Geoservices	2
Halliburton Cementers	2
Halliburton (Baroid)	2
Fugro Survey	2
Fugro ROV	6
Smith Services	2
Other Contractor	1
Reach	1
<b>Total</b>	<b>97</b>

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

Marine

Weather on 26 Nov 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	10kn	60.0deg	1020.0mbar	14C°	1.0m	60.0deg	9s	1	148.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
1.3m	0.8deg	1.5deg	317.0deg	240000.00klb	1046.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
1.3m	60.0deg	11s							
								8	197.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar			KT4 Standby.	Item	Unit	Used	Quantity
				Rig Fuel	M3		454
				Potable Water	M3		133
				Drill Water	M3		637
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		112
				Mud	bbl		145

0000- 2400 Rig Stby

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Fosna			KT4 Stby	Item	Unit	Used	Quantity
				Rig Fuel	M3		592
				Pot Water	M3		364
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		40
					t		130
				Brine	M3		0
				Mud	bbl		880

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	0900 / 0912	9 / 4	