

29 Oct 2009

 From: Bryan Houston / Peter Dane  
 To: Texas Richards

**DRILLING MORNING REPORT # 29**  
**Trefoil-2**

Well Data							
Country	Australia	MDBRT	2520.0m	Cur. Hole Size	12.250in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	2520.0m	Last Casing OD	13.375in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	930.0m	Daily Cost	US\$557,193
Rig	Kan Tan IV	Days from spud	23.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$21,550,358
Wtr Dpth(MSL)	69.0m	Days on well	28.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Laying down excess fishing tools.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Make up 11-1/4" overshot assembly for the next fish run and continue with fishing program.		

**Summary of Period 0000 to 2400 Hrs**

RIH with BHA #13, 11-1/4" overshot assembly, dressed with 8" basket grapple. Attempted to engage fish #2 at 74.7m. No success. RIH with RRBHA #13. Made several attempts to engage fish #2, without success. POOH to surface. At surface observed the 11-1/4" overshot and crossover missing. Ran back in hole and attempted to screw in without success. POOH to surface. Modified 8 3/8" overshot. RIH with BHA#14, 8 3/8" overshot dressed with 6 3/4" spiral grapple to top of fish #3 at 73.3mRT. Made several attempts to engage fish without success. POOH to surface and re-dressed overshot. Re-ran BHA #14 and attempted to engage fish #3, without success. POOH to surface. Made up BHA #15, 11-3/4" overshot, dressed with 6-3/4" basket grapple. RIH and attempted to retrieve fish#3 without success.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	5 Days	Held abandon drill	
Fire Drill	1	5 Days	Main deck - Fire in rubbish container	
Permit To Work	11	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	4 Days	Held 2 x General Safety Meeting	
STOP Card	42	0 Days	Number of STOP Cards submitted	

**FORMATION**

Name	Top
Upper Angahook	1162.00m
Angahook Volcanics Equiv	1331.00m
Lower Angahook	1569.00m
Demons Bluff	1850.00m
Eastern View Coal Measures	2105.00m

**Operations For Period 0000 Hrs to 2400 Hrs on 29 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G18	0000	0230	2.50	2520.0m	RIH with 11-1/4" overshot (BHA #13), dressed with 8" basket grapple to top of fish at 74.7mRT (fish #2). Made several attempts to engage fish, without success. POOH to surface to change basket grapple. All connections were torqued to 32,000 ft/lbs on previous run.
P13	TP (WB)	G18	0230	0400	1.50	2520.0m	RIH with 11-1/4" overshot (BHA #13), dressed with 7-7/8" basket grapple to top of fish at 74.7mRT (fish #2). Made several attempts to engage, without success. POOH to surface. Maximum left hand torque applied 6000 ft/lbs to attempt to engage fish. At surface observed the 11-1/4" overshot and crossover missing.
P13	TP (WB)	G18	0400	0630	2.50	2520.0m	Ran back in hole and attempted to screw back into the top of the 11-1/4" overshot at 73.3mRT (fish #3). No success. POOH to surface
P13	TP (WB)	G18	0630	0800	1.50	2520.0m	Modified 8 3/8" overshot, and dressed with 6 3/4" spiral grapple.
P13	TP (WB)	G18	0800	1200	4.00	2520.0m	RIH with 8 3/8" overshot (BHA #14) dressed with a 6 3/4" spiral grapple to top of fish #3 at 73.3mRT. Made several attempts to engage fish #3 without success. POOH to surface.
P13	TP (RE)	G11	1200	1300	1.00	2520.0m	Changed out burst hose on compensator lock bar.
P13	TP	G18	1300	1530	2.50	2520.0m	Re-dressed overshot. Cleaned and painted same. RIH with 8 3/8" overshot (BHA #14)

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	(WB) TP (WO)	G11	1530	1730	2.00	2520.0m	dressed with a 6 3/4" spiral grapple, to top of fish #3 at 73.3mRT. Made several more attempts to engage fish #3, without success. POOH to surface.
P13	TP (WB)	G18	1730	2000	2.50	2520.0m	Waited on helicopter to arrive with fishing tools and NOV engineer to troubleshoot malfunction of PH85 pipe handler on TDS.
P13	TP (WB)	G18	2000	2200	2.00	2520.0m	Made up BHA #15, 11-3/4" overshot, dressed with a 6 3/4" basket grapple
P13	TP (WB)	G18	2200	2230	0.50	2520.0m	RIH with BHA #15 to top of fish #3 at 73.3m. Attempted to engage fish. POOH to surface. No success
P13	TP (WB)	G18	2230	2330	1.00	2520.0m	Changed out mill control from 6-3/4" to 8". Beveled mill control.
P13	TP (WB)	G18	2330	2400	0.50	2520.0m	RIH with BHA #15, 11 3/4" overshot, dressed with 6-3/4" basket grapple. Attempted to engage fish. POOH to surface. No success.
P13	TP (WB)	G18	2330	2400	0.50	2520.0m	Commenced changing out basket grapple.

**Operations For Period 0000 Hrs to 0600 Hrs on 30 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G18	0000	0130	1.50	2520.0m	Dressed the 11-1/4" overshot with a 8-1/4" basket grapple.
P13	TP (WB)	G18	0130	0230	1.00	2520.0m	RIH with 11-1/4" overshot assembly dressed with 8-1/4" basket grapple (RR BHA #15). Pick up weight 160 klbs, slack off weight 170klbs. Rotated at 40 rpm and engaged fish with 5klbs, confirmed with 20klbs overpull, slacked off 5klbs, at 30 rpm string jumped, lost all weight, slacked back off with 10klbs, picked back up with 50klbs overpull. String jumped. Attempted to release the overshot, but the top one released first.
P13	TP (WB)	G18	0230	0400	1.50	2520.0m	POOH to surface. No fish. Inspected 11-1/4" overshot assembly. The markings on the overshot showed that the guide was bottoming out on the larger OD of the fish, before it was into the grapple enough to get a firm grip. The bottom two or three wickers of the grapple, had blue as well as green paint (the colors of the cross over and the overshot).
P13	TP (WB)	G18	0400	0600	2.00	2520.0m	Laid down excess fishing tools (11-3/4" overshot assembly, reverse circulating assembly). Made up 11-1/4" overshot assembly for the next fish run.

**Operations For Period Hrs to Hrs on**

Phase Data to 2400hrs, 29 Oct 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)	46.5	04 Oct 2009	06 Oct 2009	116.00	4.833	155.0m	
Conductor Casing(P3)	37	06 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)	180	22 Oct 2009	29 Oct 2009	675.00	28.125	2520.0m	

WBM Data		Cost Today US\$ 54							
Mud Type:	KCI POLYMER	API FL:	4.8cc/30min	Cl:	42000mg/l	Solids(%vol):	3%	Viscosity	60sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	12cp
Time:	11:00 hrs	HThp-FL:	13.0cc/30min	Hard/Ca:	400mg/l	Oil(%):		YP	23lb/100ft²
Weight:	9.40ppg	HThp-cake:	2/32nd"	MBT:	12	Sand:	.3	Gels 10s	11
Temp:				PM:	0.4	pH:	9	Gels 10m	15
				PF:	0.2	PHPA:	2ppb	Fann 003	11
Comment	Note: Cost is in AUD							Fann 006	12
								Fann 100	25
								Fann 200	31
								Fann 300	35
								Fann 600	47

BHA # 14F				
Weight(Wet)	Length	88.2m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String	175000.00klb	Torque(Off.Btm)	D.C. (2) Ann Velocity
	Pick-Up	175000.00klb	Torque(On.Btm)	H.W.D.P. Ann Velocity
	Slack-Off	180000.00klb		D.P. Ann Velocity
BHA Run Description	8-3/8" overshot, dressed with 6-3/4" SPIRAL grapple			

BHA Run Comment					
Equipment	Length	OD	ID	Serial #	Comment
Overshot	1.47m	11.25in	7.88in	A390221	
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.67m	5.00in	4.28in		
Drill Pipe	9.62m	5.00in	4.28in		
Drill Pipe	9.64m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		
Drill Pipe	9.63m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		

BHA # 15F				
Weight(Wet)	Length	92.4m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String	175000.00klb	Torque(Off.Btm)	D.C. (2) Ann Velocity
	Pick-Up	175000.00klb	Torque(On.Btm)	H.W.D.P. Ann Velocity
	Slack-Off	180000.00klb		D.P. Ann Velocity

BHA Run Description 11-3/4" overshot, dressed with 6-3/4" basket grapple

BHA Run Comment					
Equipment	Length	OD	ID	Serial #	Comment
Overshot	2.92m	11.75in	6.75in	89384	
X/Over Sub	1.22m				
Pup Joint	1.52m				
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.67m	5.00in	4.28in		
Drill Pipe	9.62m	5.00in	4.28in		
Drill Pipe	9.64m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		
Drill Pipe	9.63m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		

BHA # 13F				
Weight(Wet)	Length	93.2m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String	175000.00klb	Torque(Off.Btm)	D.C. (2) Ann Velocity
	Pick-Up	175000.00klb	Torque(On.Btm)	H.W.D.P. Ann Velocity
	Slack-Off	180000.00klb		D.P. Ann Velocity

BHA Run Description 11-1/4" overshot, dressed with 7-7/8" basket grapple

BHA Run Comment					
Equipment	Length	OD	ID	Serial #	Comment
Overshot	1.86m	11.25in	7.88in	A30221-1	
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.67m	5.00in	4.28in		
Drill Pipe	9.62m	5.00in	4.28in		
Drill Pipe	9.64m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		
Drill Pipe	9.63m	5.00in	4.28in		
Drill Pipe	9.65m	5.00in	4.28in		
Drill Pipe	9.66m	5.00in	4.28in		

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	10	0	343.0	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Drill Water	m3	0	0	0	567.0	
Pot Water	m3	28	26	0	175.0	
Brine	m3	0	0	0	71.0	
Barite	MT	0	0	0	149.7	
Baradefoam-W300	can	0	0	0	9.0	
Barolift	boxes	0	0	0	18.0	
Bentonite	MT	0	0	0	81.2	
Caustic Soda	pail	0	0	0	32.0	
Lime	sx	0	0	0	4.0	
Soda Ash	sx	0	0	0	15.0	
Sodium Bicarbonate	25kg sx	0	0	0	38.0	
Rig Fuel	m3	0	0	0	561.0	
Drill Water	m3	0	0	0	266.0	
Potable Water	m3	0	0	0	208.0	
Shaker Screen 50	Screens	0	0	0	8.0	

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	1.09	97	60	3000	300	2515.0	30	220	150	40	270	200	50	350	250
2	Continental Emsco	6.50	1.09	97	60	3000	300	2515.0	30	240	190	40	290	260	50	350	250
3	Continental Emsco	6.50	1.09	97	60	3000	300	2515.0	30	200	150	40	270	200	50	350	260

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.

Personnel On Board	
Company	Pax
ADA	5
Maersk	47
GRN	3
OMS	12
Nopsa	2
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1
PCS	3
Smith Services	1
Others	2
<b>Total</b>	<b>91</b>

**Mud Volumes, Mud Losses and Shale Shaker Data**

Engineer : Mike Lawrance / James Munford

Available	2782.6bbl	Losses	0.0bbl	Equipment	Description	Mesh Size	Comments
Active	617.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/100bottom	Ez Spot Pill - Composition: Amodrill1235 - 20.7bbl Drill water - 10.2bbl EZ SPOT - 4bbl Barite to mud weight 9.4ppg
Mixing	0.0bbl	Surf+ Equip	0.0bbl	Shaker 2	Brandt VSM 300	20 top/100bottom	
Hole	1150.6bbl	Dumped		Shaker 3	Brandt VSM 300	20 top/100bottom	
Slug Reserve	1015.0bbl	De-Gasser De-Sander		Shaker 4	Brandt VSM 300	20 top/100bottom	
Kill		De-Silter Centrifuge					Pumped @ 1200 initial volume pumped 14bbbls, thereafter 2-3bbbls every half hour

**Marine**

Weather on 29 Oct 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	26kn	60.0deg	1019.0mbar	11C°	0.9m	60.0deg	3s	1	173.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
0.7m	0.9deg	2.2deg	317.0deg	240000.00klb	116684.00klb				
Swell Height	Swell Dir.	Swell Period	Comments						
1.8m	60.0deg	5s							
								7	195.0
								8	191.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar			Alongside No 27 South Wharf Melbourne.	Item	Unit	Used	Quantity
				Rig Fuel	M3		683
				Potable Water	M3		485
				Drill Water	M3		336
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		165
Far Fosna			Standby at rig	Item	Unit	Used	Quantity
				Rig Fuel	M3		550
				Pot Water	M3		587
				Drill Water	M3		362
				Bentonite	t		42
				Barite	t		20
					t		130
				Brine	M3		0

**Helicopter Movement**

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	10:54 hrs / 11:04 hrs	4 / 4	Crew change
2	Bristow Helicopters	16:28 hrs / 16:37 hrs	1 / 0	Freight - Fishing Tools