

**30 Oct 2009**

 From: Bryan Houston / Paul Leathem  
 To: Texas Richards

**DRILLING MORNING REPORT # 30**  
**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\$559,803
Rig	Kan Tan IV	Days from spud	24.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$22,110,161
Wtr Dpth(MSL)	69.0m	Days on well	29.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Continue to troubleshoot top drive & Iron roughneck hydraulic unit.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Continue to troubleshoot top drive & Iron roughneck hydraulic unit. Continued to attempt to retrieve fish from hole with overshot & grapple coming from town.		

**Summary of Period 0000 to 2400 Hrs**

RIH with 11-1/4" overshot assembly dressed with 8-1/4" basket grapple. Rotated and engaged fish. Confirmed with overpull, slacked off weight and string jumped. Attempted to release the overshot, but the top one released first. POOH. RIH with 8 3/8" overshot with 6 3/4" grapple & modified overshot on 5" DP. Set down 10klbs with rotation - no success, POOH. RIH with modified pup joint and lip guide. Attempted to screw into fish - unsuccessful - POOH.

**HSE Summary**

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	6 Days	Held abandon drill	
Fire Drill	1	6 Days	Main deck - Fire in rubbish container	
Permit To Work	10	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	5 Days	Held 2 x General Safety Meeting	
STOP Card	30	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 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 could engage 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	0900	5.00	2520.0m	Laid down excess fishing tools (11-3/4" overshot assembly, reverse circulating assembly). Made up 11-1/4" overshot assembly.
P13	TP (WB)	G18	0900	1030	1.50	2520.0m	Prepare and RIH with 8 3/8" overshot with 6 3/4" grapple and modified overshot on 5" DP. Set down 10klbs with rotation, no torque or overpull, POOH same.
P13	TP (WB)	G18	1030	1400	3.50	2520.0m	Prepare and RIH 11 1/4" overshot with 8 1/4" grapple on 5" DP. Set down 10klbs with rotation, pick up and set down with 15klbs with rotation with right hand torque

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G18	1400	1830	4.50	2520.0m	(7000ft/lbs), left hand torque (7000ft/lbs). POOH same.
P13	TP (WB)	G18	1830	2030	2.00	2520.0m	Trouble shoot problems with top drive & elmago brake while 8 3/8" overshot at welders for modification. Make top drive secure prepare 8 3/8" overshot with modified pup joint.
P13	TP (WB)	G18	2030	2400	3.50	2520.0m	Makeup modified pup joint & lip guide & RIH to top of fish at 73.7m. BHA #16F. Pump at 10spm and tag top of fish. Rotate & attempt to screw modified overshot & pupjoint into fish with no success. POOH same. Score marks inside overshot where top of fish had been rubbing indicated fish entered skirt but pin on pup joint failed to enter tool joint box of the fish.
P13	TP (WB)	G18	2030	2400	3.50	2520.0m	RIH with open ended single of DP to tag top of fish. Attempt to stab DP into 4 1/2" IF box of fish. Trimmed rig forward and aft, port & stbd and reciprocated string.

**Operations For Period 0000 Hrs to 0600 Hrs on 31 Oct 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G18	0000	0100	1.00	2520.0m	POOH with open ended string. No visible marks on DP single.
P13	TP (WB)	G11	0100	0600	5.00	2520.0m	Troubleshooting topdrive and iron roughneck hydraulic unit.

**Operations For Period Hrs to Hrs on**
**Phase Data to 2400hrs, 30 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)	204	22 Oct 2009	30 Oct 2009	699.00	29.125	2520.0m

**WBM Data**
**Cost Today US\$ 1507**

Mud Type:	KCl POLYMER	API FL:	4.8cc/30min	Cl:	42000mg/l	Solids(%vol):	3%	Viscosity	61sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	13cp
Time:	11:00 hrs	HTHP-FL:	13.0cc/30min	Hard/Ca:	400mg/l	Oil(%):		YP	24lb/100ft²
Weight:	9.40ppg	HTHP-cake:	2/32nd"	MBT:	10	Sand:	.3	Gels 10s	11
Temp:				PM:	0.3	pH:	9	Gels 10m	15
				PF:	0.2	PHPA:	2ppb	Fann 003	11
								Fann 006	12
								Fann 100	24
								Fann 200	31
								Fann 300	37
								Fann 600	50
Comment	Note: Cost is in AUD								

**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		

Equipment	Length	OD	ID	Serial #	Comment
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		

**BHA # 16F**

Weight(Wet)	Length	87.0m	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	185000.00klb		D.P. Ann Velocity

BHA Run Description Modified pupjoint with lipguide

## BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Overshot	1.81m	15.00in	4.00in	GESL526/07	Pupjoint inside overshot.
HWDP	9.32m	5.00in	4.00in	968	
HWDP	9.34m	5.00in	4.00in	981	
HWDP	9.36m	5.00in	4.00in	996	

Equipment	Length	OD	ID	Serial #	Comment
HWDP	9.43m	5.00in	4.00in	993	
HWDP	9.43m	5.00in	4.00in	984	
HWDP	9.41m	5.00in	4.00in	994	
Drill Pipe	9.64m	5.00in	4.00in		
Drill Pipe	9.64m	5.00in	4.00in		
Drill Pipe	9.64m	5.00in	4.00in		

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	10	0	333.0	
Drill Water	m3	0	0	0	567.0	
Pot Water	m3	28	26	0	177.0	
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	11	0	0	26.0	
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	
Citric Acid	Sacks	40	0	0	40.0	

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					30			40			50		
2	Continental Emsco	6.50	1.09	97					30			40			50		
3	Continental Emsco	6.50	1.09	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.

Personnel On Board	
Company	Pax
ADA	5
Maersk	47
GRN	3
OMS	13
Nopsa	2
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1

Personnel On Board	
PCS	3
Smith Services	2
Others	3
<b>Total</b>	<b>94</b>

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / James Munford			
Available	2781.6bbl	Losses	1.7bbl	Equipment	Description	Mesh Size	Comments
Active	631.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/100bottom	
Mixing	0.0bbl	Surf+ Equip	1.7bbl	Shaker 1	Brandt VSM 300	20 top/100bottom	
Hole	1150.6bbl	Dumped		Shaker 2	Brandt VSM 300	20 top/100bottom	
Slug Reserve	1000.0bbl	De-Gasser De-Sander		Shaker 3	Brandt VSM 300	20 top/100bottom	
Kill		De-Silting Centrifuge		Shaker 3	Brandt VSM 300	20 top/100bottom	
				Shaker 4	Brandt VSM 300	20 top/100bottom	
				Shaker 4	Brandt VSM 300	20 top/100bottom	

Marine								Rig Support	
Weather on 30 Oct 2009								Anchors	Tension (klb)
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
10.0nm	18kn	50.0deg	1016.0mbar	12C°	2.0m	50.0deg	3s	1	183.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments		2	205.0
0.4m	0.4deg	1.5deg	317.0deg	240000.00klb	116684.00klb			3	154.0
Swell Height	Swell Dir.	Swell Period	Comments					4	208.0
3.0m	60.0deg	5s						5	237.0
								6	222.0
								7	193.0
								8	205.0

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			Rig standby.	Item	Unit	Used	Quantity
				Rig Fuel	M3		539
				Pot Water	M3		580
				Drill Water	M3		362
				Bentonite	t		42
				Barite	t		20
					t		130
				Brine	M3		0

0001 - 15.30 Standby at rig. 1530 - 1815 p/s cargo ops  
1815 - 24.00 r/stby

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	Bristow Helicopters	11.40hrs / 12.15 hrs	3 / 5	Crew change & Fishing Tools
2	Bristow Helicopters	16:06 hrs / 16:20 hrs	9 / 4	Crew Change