

03 Nov 2009

 From: Bryan Houston / Paul Leathem
 To: Texas Richards

DRILLING MORNING REPORT # 34
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\$562,284
Rig	Kan Tan IV	Days from spud	28.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$24,342,522
Wtr Dpth(MSL)	69.0m	Days on well	33.13	FIT/LOT:	/ 15.15ppg		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Making up casing spear & BHA to energize the casing patch.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Run casing spear & energize casing patch. Set seal assy. Press test BOPs. Run RTTS packer & Test casing.		

Summary of Period 0000 to 2400 Hrs

Picked up & made up back up casing grapple. RIH to top of fish at 103m. Latched into fish and POOH with fish to surface. Laid out 9 5/8" casing fish. Made up wear bushing, RIH and landed out. Dressed 12 1/4" milling assy & RIH. Milled top of casing & POOH. Retrieved wear bushing. P/Up 9 5/8" casing hanger from the derrick & removed 9 5/8" pup joint from below hanger. M/Up casing patch & RIH 9 5/8" casing.

HSE Summary

Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held abandon drill	
Fire Drill	1	0 Days	Main deck - Fire in rubbish container	
Permit To Work	16	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	2 Days	Held 2 x General Safety Meeting	
STOP Card	51	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 03 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G1	0000	0100	1.00	2520.0m	Continued to break out spear and casing cutting BHA and laid out same.
P13	TP (WB)	G18	0100	0200	1.00	2520.0m	Picked up & made up back up casing grapple, bumper sub & jars.
P13	TP (WB)	G18	0200	0300	1.00	2520.0m	RIH to top of fish at 103m. Latched into fish with 10klbs down weight. Confirmed fish caught with 7klbs overpull.
P13	TP (WB)	G18	0300	0330	0.50	2520.0m	POOH with fish to surface.
P13	TP (WB)	G1	0330	0430	1.00	2520.0m	Held toolbox talk on rigging up casing. Rigged up casing 500ton elevators, tongs and equipment.
P13	TP (WB)	G2	0430	0630	2.00	2520.0m	Held toolbox talk on laying out casing. Laid out 9 5/8" casing fish.
P13	TP (WB)	G2	0630	0700	0.50	2520.0m	Rigged down & laid out 9 5/8" casing equipment.
P13	TP (WB)	G2	0700	0900	2.00	2520.0m	Made up wear bushing, RIH & landed out. Confirmed index mark. POOH & retrieved running tool.
P13	TP (WB)	G19	0900	1130	2.50	2520.0m	Dressed 12 1/4" milling assy & RIH under controlled conditions due to weather. Tagged top of casing @ 157m.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G19	1130	1300	1.50	2520.0m	Took parameters and started milling 9 5/8" casing at 100rpm/100spm/500gpm/ 250psi. Pumped HiVis pill and circulated 2 x bottoms up.
P13	TP (WB)	G19	1300	1500	2.00	2520.0m	POOH with 12 1/4" milling assy and laid out same.
P13	TP (WB)	G12	1500	1730	2.50	2520.0m	RIH with wearbushing retrieval tool. Applied overpull of 60klbs to confirm latch. POOH same and attempt to remove wearbushing from running tool with no success. Laid out R/T & wearbushing as one.
P13	TP (WB)	G2	1730	1930	2.00	2520.0m	Picked up 9 5/8" casing hanger from the derrick. Backed out 9 5/8" pup joint from below hanger then racked back in derrick.
P13	TP (WB)	G2	1930	2300	3.50	2520.0m	Held pre job safety meeting on running casing patch on 9 5/8" casing. Made up casing patch to first joint of casing & RIH with 9 5/8" casing to 66m.
P13	TP (WB)	G2	2300	2400	1.00	2520.0m	Pick up casing hanger and running tool from mast & make up to 9 5/8" casing patch string.

Operations For Period 0000 Hrs to 0600 Hrs on 04 Nov 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P13	TP (WB)	G9	0000	0130	1.50	2520.0m	RIH 9 5/8" casing patch on landing string and landed out in well head. No indication of patch latching into casing string. Worked string & rotated string to the left in an attempt to engage casing patch grapple.
P13	TP (WB)	G9	0130	0200	0.50	2520.0m	Discussed with Smith Services representative and ADA Drilling Supervisor in town the way ahead. Checked all calculations & discussed possible scenarios. Decision made to continue as planned.
P13	TP (WB)	G9	0200	0430	2.50	2520.0m	Released casing running tool & POOH. Racked back running tool in the mast.
P13	TP (WB)	G2	0430	0600	1.50	2520.0m	Picked up and made up spear assy.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 03 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)	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)	300	22 Oct 2009	03 Nov 2009	795.00	33.125	2520.0m

General Comments

00:00 TO 24:00 Hrs ON 03 Nov 2009

WBM Data
Cost Today US\$ 227

Mud Type:	KCI POLYMER	API FL:	4.5cc/30min	Cl:	42500mg/l	Solids(%vol):	3%	Viscosity	60sec/qt
Sample-From:	2	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	93%	PV	11cp
Time:	11:00 hrs	HTHP-FL:	10.5cc/30min	Hard/Ca:	400mg/l	Oil(%):		YP	23lb/100ft²
Weight:	9.40ppg	HTHP-cake:	2/32nd"	MBT:	10	Sand:	.3	Gels 10s	11
Temp:				PM:	0.25	pH:	9	Gels 10m	15
Comment	Note: Cost is in AUD							Fann 003	10
				PF:	0.2	PHPA:	2ppb	Fann 006	11
								Fann 100	23
								Fann 200	29
								Fann 300	34
								Fann 600	45

BHA # 21F

Weight(Wet)	Length	32.5m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String Pick-Up Slack-Off		Torque(Off.Btm) Torque(On.Btm)	D.C. (2) Ann Velocity H.W.D.P. Ann Velocity D.P. Ann Velocity
BHA Run Description	Casing retrieval Spear			
BHA Run Comment				
Equipment	Length	OD	ID	Serial #
Spear	1.20m	8.25in	2.75in	311335-02

Equipment	Length	OD	ID	Serial #	Comment
12 1/4in stab	1.88m	12.25in	2.25in	55215G	
Bumper sub	1.89m	6.25in	2.25in	GK0267	
X/O	1.11m	8.25in	2.75in	1103	
Jar	3.84m	6.25in	2.75in	15256462034	
6 3/4" DC	18.73m	6.75in	2.88in	1185/1764	
Accelerator	3.86m	6.25in	2.19in	559056207	

BHA # 22F

Weight(Wet)	Length	28.7m	Torque(max)	D.C. (1) Ann Velocity
Wt Below Jar(Wet)	String Pick-Up		Torque(Off.Btm)	D.C. (2) Ann Velocity
BHA Run Description	Stack-Off		Torque(On.Btm)	H.W.D.P. Ann Velocity
	Casing spear run			D.P. Ann Velocity

BHA Run Comment

Equipment	Length	OD	ID	Serial #	Comment
Spear	1.20m	8.25in	2.75in	31135-02	
Stab	1.88m	8.00in	2.25in	55215G	
Bumper sub	1.89m	6.25in	2.25in	GK0267	
X/O	1.11m	8.25in	2.75in	1103	
Fishing Jar	3.84m	6.25in	2.75in	15256462034	
6 3/4" DC	18.73m	6.75in	2.88in	1185/1764	

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	14	0	586.0
Drill Water	m3	41	6	0	620.0
Pot Water	m3	0	22	0	197.0
Brine	m3	0	0	0	71.0
Barite	MT	0	0	0	167.0
Baradefoam-W300	can	0	0	0	9.0
Barolift	boxes	0	0	0	17.0
Bentonite	MT	0	0	0	81.2
Caustic Soda	pail	0	1	0	27.0
Lime	sx	0	0	0	4.0
Soda Ash	sx	0	0	0	37.0
Sodium Bicarbonate	25kg sx	0	0	0	38.0
Shaker Screen 50	Screens	0	0	0	8.0
Citric Acid	Sacks	0	0	0	80.0

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

Personnel On Board	
Maersk	48
GRN	4
OMS	11
Reach	1
Geoservices	4
Halliburton Cementers	2
Halliburton	3
Halliburton (Baroid)	2
Dril-Quip	1
Fugro ROV	3
Swaco	1
PCS	3
Smith Services	2
Others	3
Total	93

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Mike Lawrance / James Munford			
Available	2775.6bbl	Losses	5.2bbl	Equipment	Description	Mesh Size	Comments
Active	734.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	0.0bbl	Shaker 1	Brandt VSM 300	20 top/50 bottom	
Hole	1150.6bbl	Dumped		Shaker 2	Brandt VSM 300	20 top/50 bottom	
Slug Reserve	891.0bbl	De-Gasser		Shaker 3	Brandt VSM 300	20 top/50 bottom	
		De-Sander		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Kill		De-Silting	5.2bbl	Shaker 4	Brandt VSM 300	20 top/50 bottom	
		Centrifuge		Shaker 4	Brandt VSM 300	20 top/50 bottom	

Marine								Rig Support	
Weather on 03 Nov 2009								Anchors	Tension (klb)
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	1	218.0
10.0nm	21kn	240.0deg	1014.0mbar	10C°	4.1m	240.0deg	3s	2	199.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments		3	154.0
1.6m	1.6deg	2.1deg	317.0deg	240000.00klb	116684.00klb			4	178.0
Swell Height	Swell Dir.	Swell Period	Comments					5	201.0
8.0m	270.0deg	5s						6	182.0
								7	183.0
								8	205.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar	0930		At the rig	Item	Unit	Used	Quantity
				Rig Fuel	M3		658
				Potable Water	M3		510
				Drill Water	M3		530
					t		0
				Barite	t		0
				Bentonite	t		0
Brine	M3		165				
Far Fosna	0630 hrs 3/10/09	0915 hrs 01/10/09	Rig Standby.	Item	Unit	Used	Quantity
				Rig Fuel	M3		489
				Pot Water	M3		548
				Drill Water	M3		600
				Bentonite	t		42
				Barite	t		0
					t		130
Brine	M3		0				

Departed from Melbourne for the rig at 1715hrs 02/10/09 Arrived 0630 hrs 03/10/09

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment

Helicopter Movement				
1	Bristow Helicopters	08.45 / 08.48	1 / 1	Crew Change