

12 Oct 2009

 From: John Mcgarrity/ Peter Dane
 To: Texas Richards

DRILLING MORNING REPORT # 12
Trefoil-2

Well Data							
Country	Australia	MDBRT	935.0m	Cur. Hole Size	17.500in	AFE Cost	US\$33,167,745
Field	Trefoil	TVDBRT	935.0m	Last Casing OD	13.375in	AFE No.	Trefoil-2
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	930.0m	Daily Cost	US\$851,280
Rig	Kan Tan IV	Days from spud	6.67	Shoe MDBRT	930.0m	Cumul. Cost	US\$11,797,058
Wtr Dpth(MSL)	69.0m	Days on well	11.13	FIT/LOT:	/		
RT-ASL(MSL)	26.0m	Planned TD MD	3221.0m	Current Op @ 0600	Prepare to run BOP on marine riser.		
RT-ML	95.0m	Planned TD TVDRT	3221.0m	Planned Op	Complete running BOP on marine riser. Pick up slip joint and landing joint. Install marine riser tensioner lines. Install kill & choke goosenecks. Land and latch BOPs. Unpin slip joint and lay out landing joint. Install diverter. Rig down handling equipment.		

Summary of Period 0000 to 2400 Hrs
Ran 18 3/4" HPWH housing. Landed and confirmed with 50k overpull. Circulated 1.5 times casing volume with seawater. Cemented and displaced 13 3/8" casing. Released 18 3/4" running tool. POOH with landing string. Rigged up to run 18 3/4" BOPs. Picked up double of marine riser.

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	
Last BOP stack test	2	38 Days	Test BOP	
Permit To Work	11	0 Days	Permits administered.	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	2	2 Days	Held 2 x General Safety Meeting	
STOP Card	41	0 Days	Number of STOP Cards submitted	

FORMATION	
Name	Top
Torquay Group	95.00m
Lower Miocene Seismic Marker	918.00m

Operations For Period 0000 Hrs to 2400 Hrs on 12 Oct 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	G12	0000	0100	1.00	935.0m	Picked up and made up 18 3/4" HPWH housing. Lowered housing to rotary table and set in slips.
P5	P	G9	0100	0200	1.00	935.0m	Ran in hole with 13 3/8" casing with 5" HWDP landing string. Broke circulation and washed down to 13m above the wellhead.
P5	P	G12	0200	0300	1.00	935.0m	Made up cement stand. Landed the 18 3/4" wellhead. Confirmed with 50k overpull. ROV confirmed bullseye 0.25 deg aft/port.
P5	P	G1	0300	0400	1.00	935.0m	Rigged up surface lines. Attached cement hose to Halliburton cement head assembly and connected control head lines.
P5	P	F4	0400	0600	2.00	935.0m	Circulated with seawater 1.5 times casing volume at 12 bpm, 500 gpm, 850 psi.
P5	P	F3	0600	0630	0.50	935.0m	Held JSA prior to cementing. Cement unit pumped 5 bbls of seawater ahead and pressure tested cement lines to 3000 psi. Good test.
P5	P	F3	0630	0700	0.50	935.0m	Pumped 50 bbls of seawater spacer at 5-6 bpm using the cement unit. Added mica to the last 20 bbls pumped.
P5	P	F3	0700	0900	2.00	935.0m	Mixed and pumped 436 bbls of 11.5 ppg lead slurry (35 MT class G cement) with 368

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	F3	0900	0930	0.50	935.0m	bbls of mix fluid. Mixed and pumped 67 bbls of 67 bbls of 15.8 ppg tail slurry (14 MT class G cement) with 40 bbls of mix fluid.
P5	P	F3	0930	1100	1.50	935.0m	Dropped the dart and released top plug. Cement unit displaced with 412 bbls of seawater at 7 - 10 bpm (observed returns with ROV). Bumped plug with 250 psi and pressure tested casing to 2700 psi for 10 minutes. Released pressure and observed for back flow. Float holding.
P5	P	G1	1100	1230	1.50	935.0m	Rigged down cement lines. Released running tool from HPWH. Pulled clear and racked back cement stand.
P5	P	G8	1230	1400	1.50	935.0m	POOH with landing string from 92.4m to surface. Laid out pup joints, subs and running tool.
P6	P	G1	1400	1600	2.00	935.0m	Rigged up to run BOP riser, changed elevators and bails to 500 ton. Laid down 5" drill pipe elevators and bails.
P6	P	M2	1600	1630	0.50	935.0m	Skidded rig off well centre. Confirmed by ROV.
P6	TP (RE)	G11	1630	1700	0.50	935.0m	Unable to make up one dog. Replaced same.
P6	P	G13	1700	1800	1.00	935.0m	Picked up double of riser. Moved BOP under rotary.
P6	TP (WOW)	G25	1800	1900	1.00	935.0m	Due to squalls there was a loss of standby boat cover.
P6	P	G13	1900	2000	1.00	935.0m	Held JSA with drill crew. Installed guidelines onto posts.
P6	P	G23	2000	2030	0.50	935.0m	Held fire and abandon drill with all personnel.
P6	P	G13	2030	2130	1.00	935.0m	Checked beacons and riser tensioner sheaves.
P6	TP (RE)	G13	2130	2400	2.50	935.0m	Connected pod lines to tensioners. Installed work platform on BOP.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Oct 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	TP (RE)	G13	0000	0400	4.00	935.0m	Completed installing work platform above flex joint. Installed two bullseyes.
P6	P	G13	0400	0600	2.00	935.0m	Nippled up riser to BOP, string weight 530k off beams. Slope indicator readings: LMRP on beams (1 deg port/aft), BOP on beams (bullseye 1 deg port/fwd). Installed angle indicator.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 12 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)	10	12 Oct 2009	12 Oct 2009	267.00	11.125	935.0m

General Comments

00:00 TO 24:00 Hrs ON 12 Oct 2009	
Operational Comments	Blocked fuel filters on Halliburton cement unit caused both engines to shutdown whilst displacing cement.
Operational Comments	Shaft bearing on port crane boom gear box damaged. Unable to pick up marine riser joints. Port crane down for repairs from 19:30 hrs to 02:30 hrs (7 hrs)
Operational Comments	Limit switch on boom hoists stuck on both Port and Aft cranes. Disabled both and installed micro switches.
Operational Comments	Rig Equipment Down: 1. Compactor down due to lack of bags. 2. Aft crane down due to removal of shaft boom gear box bearing. Used for repair of Port crane, so that we could continue picking up marine riser. Will require new parts for repair.

WBM Data			Cost Today US\$ 0			
Mud Type:	PAD mud	API FL:	Cl:	Solids(%vol):	Viscosity	58sec/qt
Sample-From:	3	Filter-Cake:	K+C*1000:	H2O:	PV	11cp
Time:	1730	HTHP-FL:	Hard/Ca:	Oil(%):	YP	19lb/100ft ²
Weight:	9.00ppg	HTHP-cake:	MBT:	Sand:	Gels 10s	7
Temp:	20C°		PM:	pH:	Gels 10m	9
			PF:	PHPA:	Fann 003	7
					Fann 006	9
					Fann 100	14
					Fann 200	24
					Fann 300	30
					Fann 600	41
Comment						Note: Cost is in AUD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	38	0	471.0	
Drill Water	m3	337	0	0	627.0	
Pot Water	m3	46	34	0	233.0	
Brine	m3	107	0	0	195.0	
Barite	MT	0	0	0	91.0	
Baradefoam-W300	can	0	0	0	16.0	
Barolift	boxes	0	0	0	18.0	
Bentonite	MT	0	0	0	48.2	
Caustic Soda	pail	0	0	0	26.0	
Lime	sx	0	0	0	54.0	
Soda Ash	sx	0	0	0	63.0	
Shaker Screen 110	box	0	0	0	24.0	
Shaker Screen 140	box	0	0	0	40.0	
Shaker Screen 175	box	0	0	0	24.0	
Shaker Screen 50	box	0	0	0	24.0	
Shaker Screen 210	box	0	0	0	24.0	
Sodium Bicarbonate	25kg sx	0	0	0	48.0	
Rig Fuel	m3	0	0	0	561.0	
Drill Water	m3	0	0	0	416.0	
Potable Water	m3	0	0	0	208.0	

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)	SPP1Flow1(gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)
1	Continental Emsco	6.50		97	80	1200	400									
2	Continental Emsco	6.50		97	80	1200	400									
3	Continental Emsco	6.50		97	80	1200	400									

Casing			
OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	153.00m / 153.00m	
13.38	/	930.00m / 930.00m	

Personnel On Board	
Company	Pax
ADA	6
Maersk	42
GRN	2
OMS	17
Reach	1
Geoservices	6
Halliburton Cements	3
Haliburton Directional Drilling	1

Personnel On Board	
Halliburton	3
Halliburton (Baroid)	2
Fugro ROV	6
Dril-Quip	1
Swaco	1
Others	3
Total	94

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / Kosta Georgiou			
Available	1741.3bbl	Losses	374.5bbl	Equipment	Description	Mesh Size	Comments
Active	220.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50bottom	
Mixing		Surf+ Equip	0.0bbl	Shaker 2	Brandt VSM 300	20 top/50bottom	
Hole	895.8bbl	Dumped	374.5bbl	Shaker 3	Brandt VSM 300	20 top/50bottom	
Slug Reserve	515.5bbl	De-Gasser De-Sander		Shaker 4	Brandt VSM 300	20 top/50bottom	
Kill	110.0bbl	De-Silter Centrifuge					

Marine							
Weather on 12 Oct 2009							
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period
10.0nm	26kn	301.0deg	995.0mbar	10C°	1.3m	301.0deg	3s
Rig Dir.	Ris. Tension	VDL	Swell Height	Swell Dir.	Swell Period	Weather Comments	
317.0deg		117.00klb	1.2m	90.0deg	5s		
Comments							

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar	19:20 hrs 10/10/09	22:15 hrs 10/10/09	Enroute to rig. ETA KT4 08:00 hrs 13/10/09	Item	Unit	Used	Quantity
				Rig Fuel	M3		638
				Potable Water	M3		556
				Drill Water	M3		196
					t		55
				Barite	t		0
				Bentonite	t		42
Brine	M3		190				
Far Fosna	08:30 9/10/09		Standby Rig	Item	Unit	Used	Quantity
				Rig Fuel	M3		398
				Pot Water	M3		490
				Drill Water	M3		202
				Bentonite	t		0
				Barite	t		42
					t		0
Brine	M3		84				

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	-	09:34 hrs / 09:45 hrs	8 / 11	Crew Change
2	-	12:56 hrs / 13:08 hrs	6 / 4	Crew Change