

08 Dec 2009

 From: Michael Lanzer / Kevin Monkhouse
 To: Texas Richards

DRILLING MORNING REPORT # 10
Rockhopper-1

Rockhopper-1					
Date:	08 Dec 2009	Well Site Representative:	Michael Lanzer	OIM:	Brian Meechan
Report Number:	10	Night Representative:	Kevin Monkhouse	Drilling Company:	Maersk
Latitude (South):	39 ° 47 ' 34.18 "	Longitude (East):	145 ° 26 ' 21.46 "	Geologist:	Dennis Archer

Well Data							
Country	Australia	MDBRT	966.0m	Cur. Hole Size	17.500in	AFE Cost	US\$27,409,709
Field	Rockhopper	TVDBRT	966.0m	Last Casing OD	13.375in	AFE No.	Rockhopper-1
Drill Co.	Maersk	Progress	0.0m	Shoe TVDBRT	961.0m	Daily Cost	US\$629,477
Rig	Kan Tan IV	Days from spud	8.02	Shoe MDBRT	961.0m	Cumul. Cost	US\$8,186,479
Wtr Dpth(MSL)	74.3m	Days on well	9.96	FIT/LOT:	/	Last LTI Date	01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3486.5m			Days Since Last LTI	37
RT-ML	100.3m	Planned TD TVDRT	3166.4m	Current Op @ 0600	RIH with 12¼" BHA to 440m while picking up singles of DP from deck.		
Datum	GDA 94	Last BOP Test		Planned Op	RIH making up DP. Hold kick drill. Drill out shoe track. Displace well to 9.0ppg KCL mud system. Drill 5m of new formation. Circulate and condition mud. Pull into shoe and perform LOT. Drill ahead 12¼" hole.		

Summary of Period 0000 to 2400 Hrs
Landed and latched BOP stack. Confirmed latch with 5klbs overpull. Pressure tested H4 connector against BSR to 1000psi. Stroked open slip joint, laid out landing joint and installed diverter. Ran test plug into 18-3/4" wellhead and pressure tested BOP stack H4 connector to 5000psi. Attempted to pressure test LMRP collet connector to 3500psi. No test. Recovered large piece of annular insert element on POOH with test plug. Re ran plug and attempted to pressure test LMRP collet connector to 3500psi. No test. POOH. Pressure tested TDS IBOPs, rotary hose and standpipe to 250/5000psi for 5/10min. Installed and tested diverter element. Picked up 18 stands of DP from deck and racked back in mast. Made up 9-5/8" casing hanger and laid out. Commenced to make up 12¼" BHA.

HSE Summary				
Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	0	3 Days	Held abandon drill	
Emergency Drill	0	34 Days	Full Emergency drill performed	
ER Exercises	0	6 Days		
Fire Drill	0	24 Days	Main deck - Fire in Control room	
Near Miss	0	1 Day		
Permit To Work	16	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	2 Days	General safety meetings	
Safety Meeting	16	0 Days	Prejob safety meetings	
Safety Meeting	7	0 Days	Safety Meetings	
STOP Card	37	0 Days	Number of STOP Cards submitted	

FORMATION	
Name	Top
Torquay Group	100.30m

Operations For Period 0000 Hrs to 2400 Hrs on 08 Dec 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	P	G13	0000	0100	1.00	966.0m	Engaged PGB guide posts with BOP guides. Landed BOP Stack on 18-3/4" wellhead and set 50klbs down weight. Latched H4 connector and confirmed with 50klbs overpull on connector.
P6	P	G13	0100	0130	0.50	966.0m	Reduced DSC pressure while transferring the weight onto MRTs. Connected RBQ plates to Yellow and Blue Pod reels. Slope indicator readings after landing: PGB: 0.6° Port LBOP: 0.5° Fwd (Change from 0° before landing)

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P6	P	P1	0130	0200	0.50	966.0m	UBOP: 1.5° Port / Aft LMRP: 1.5° Aft Flex Jt: 1.5° Stbd /Aft Pumped 9bbl of seawater with cement unit to fill choke line. Closed shear rams and pressure tested BOP connector against 13-3/8" casing to 1000psi for 5min.
P6	P	G13	0200	0400	2.00	966.0m	Connected hoses to slip joint. Stroked open slip joint and laid out riser landing joint.
P6	P	G13	0400	0530	1.50	966.0m	Installed diverter system in diverter housing.
P6	P	G1	0530	0730	2.00	966.0m	Rigged down marine riser handling equipment and rigged up to handle drill pipe.
P6	P	G8	0730	0900	1.50	966.0m	Made up Dril-Quip test plug with 3 stands of HWDP below. Ran test tool in on DP and landed in 18-3/4" wellhead with 20klbs down weight.
P6	P	P1	0900	1030	1.50	966.0m	Pressure tested H4 BOP Stack/wellhead connector to 5000psi for 10min against UPR - good test. Pressure tested Cameron collet connector LMRP/BOP against upper Annular to 500psi - ok. Increased pressure test to 3500 psi - test failed.
P6	TP (SS)	G8	1030	1200	1.50	966.0m	POOH with test Tool. Rubber segment recovered from hole with test tool. Appearance consistent with that originating from the upper annular insert Element. Note: Observed +/-20klbs overpull when pulling the test tool through the BOP stack.
P6	TP (SS)	G8	1200	1230	0.50	966.0m	Redressed test tool with new "O" ring seal and RIH. Landed out test tool in 18-3/4" wellhead with 20klbs down weight. Note: No indication of drag on RIH with full bore tool.
P6	TP (SS)	P1	1230	1300	0.50	966.0m	Pressure tested collet connector on LMRP against upper annular to 650psi - ok. Increased pressure test to 3500 psi - test failed.
P6	P	G8	1300	1430	1.50	966.0m	POOH with test tool and laid out same. Racked back HWDP.
P6	P	P1	1430	1630	2.00	966.0m	Rigged up surface lines and pressure tested TDS UIBOP, LIBOP, standpipe and rotary mud hose to 250/4000psi for 5/10 min. Rigged down surface lines
P6	P	G10	1630	1700	0.50	966.0m	Installed and function tested diverter.
P11	P	G2	1700	2100	4.00	966.0m	Picked up 54 joints of 5" drill pipe from deck and racked back in mast.
P11	P	G5	2100	2300	2.00	966.0m	Picked up 9-5/8" casing hanger to drill floor. Installed cement plugs onto runing tool/seal assembly and made up running tool assembly to 9-5/8" hanger. Laid out hanger assembly.
P11	P	G6	2300	2400	1.00	966.0m	Held JSA. Picked up Sperry mud motor with ported float installed. Made up bit, stabiliser and Sperry RLL tool to mud motor.

Operations For Period 0000 Hrs to 0600 Hrs on 09 Dec 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P11	P	G6	0000	0030	0.50	966.0m	Made up Sperry RLL tool.
P11	P	G6	0030	0130	1.00	966.0m	Sperry programed RLL tool and checked alignment of RLL to bent housing in mud motor.
P11	P	G6	0130	0400	2.50	966.0m	Made up NMDC and remaining BHA from mast to 252m.
P11	P	G6	0400	0500	1.00	966.0m	Shallow tested RLL tool and mud motor. Installed diverter element.
P11	P	G2	0500	0600	1.00	966.0m	Held JSA. RIH BHA on DP from deck from 252m to 440m.

Operations For Period Hrs to Hrs on

Phase Data to 2400hrs, 08 Dec 2009							
Phase	Phase Hrs	Start On	Finish On	Cumul. Hrs	Cumul. Days	Max Depth	
Mob/Demob(P1)	23.5	29 Nov 2009	30 Nov 2009	23.50	0.979	0.0m	
Conductor Hole(P2)	33.5	30 Nov 2009	01 Dec 2009	57.00	2.375	158.0m	
Conductor Casing(P3)	19	01 Dec 2009	02 Dec 2009	76.00	3.167	158.0m	
Surface Hole(P4)	63.5	02 Dec 2009	04 Dec 2009	139.50	5.813	966.0m	
Surface Casing(P5)	33	04 Dec 2009	06 Dec 2009	172.50	7.188	966.0m	
BOPs/Risers(P6)	59.5	06 Dec 2009	08 Dec 2009	232.00	9.667	966.0m	
Production Hole (1)(P11)	7	08 Dec 2009	08 Dec 2009	239.00	9.958	966.0m	

General Comments

00:00 TO 24:00 Hrs ON 08 Dec 2009

WBM Data			Cost Today					
Mud Type:	KCL/PHPA WBF	API FL:	Cl:	Solids(%vol):	Viscosity	49sec/qt		
Sample-From:	PIT 4	Filter-Cake:	K+C*1000: 8%	H2O: 96%	PV	10cp		
Time:	2000	HTHP-FL:	Hard/Ca: 1mg/l	Oil(%):	YP	13lb/100ft ²		
Weight:	8.90ppg	HTHP-cake:	MBT: 5	Sand:	Gels 10s	4		
Temp:	25C°		PM: 0.2	pH: 9	Gels 10m	6		
			PF: 0.25	PHPA: 2ppb	Fann 003	14		
					Fann 006	16		
					Fann 100	5		
					Fann 200	40		
					Fann 300	48		
					Fann 600	60		
Comment	Note: Costs are in AUD The MBT test I conducted gave me a result of 5.							

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	202	18	-1	525.0	
Drill Water	m3	30	18	-1	481.0	
Pot Water	m3	0	33	0	218.0	
Brine	m3	0	64	0	116.0	
Cement class 'G'	MT	0	0	0	158.5	
Barite	MT	0	0	0	125.9	
Bentonite	MT	0	0	0	33.0	
BIOCIDE	can	0	0	0	8.0	
Baradefoam-W300	cans	0	0	0	7.0	
XANTHUM GUM	sxs	0	0	0	110.0	
Barolift	box	0	0	0	16.0	
Barofibre	sxs	0	0	0	40.0	
Barofilm/Petrofree	sxs	0	0	0	40.0	
Caustic Soda	can	0	0	0	11.0	
Circal 60/16	Sacks	0	0	0	149.0	
Circal Y	sxs	0	0	0	91.0	
Citric Acid	sxs	0	0	0	32.0	
Clayseal +	Drums	0	0	0	46.0	
DEFOAMER	sxs	0	0	0	126.0	
EZ-SPOT	Drum	0	0	0	5.0	
EZ-MUD	pail	0	0	0	121.0	
Gel	sxs	0	0	0	0.0	
Milpac - LV	sxs	0	0	0	36.0	
N-DRILL HT +	sxs	0	0	0	105.0	
OBM	sxs	0	0	0	6.0	
OXYGON	can	0	0	0	33.0	
Pipe-Lax W	sxs	0	0	0	87.0	
POTASSIUM CHLORIDE	MT	0	0	0	50.0	
KOH	can	0	0	0	44.0	
SOBM	sxs	0	0	0	18.0	
Soda Ash	sxs	0	0	0	0.0	
Sodium Bicarbonate	sxs	0	0	0	38.0	
SALT FINE	pail	0	0	0	32.0	
Surface Water	sxs	0	0	0	40.0	
Foaming Agent	sxs	0	0	0	40.0	
Generic Mesh 24	Screens	0	0	0	12.0	
Techmesh 84	Screens	0	0	0	8.0	
Techmesh 110	Screens	0	0	0	24.0	
Techmesh 140	Screens	0	0	0	16.0	
Techmesh 175	Screens	0	0	0	7.0	
Lime	sxs	0	0	0	0.0	

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 (psi)	Flow1 (gpm)	SPM2 (SPM)	SPP2 (psi)	Flow2 (gpm)	SPM3 (SPM)	SPP3 (psi)	Flow3 (gpm)

Pumps																
Pump Data - Last 24 Hrs								Slow Pump Data								
1	Continental Emsco	6.50	1.05	97					30		252	40		336	50	420
2	Continental Emsco	6.50	1.05	97					30		252	40		336	50	420
3	Continental Emsco	6.50	1.05	97					30		252	40		336	50	420

Casing			
OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
30 "	/	156.80m / 156.80m	265bbl 15.9ppg G cement slurry pumped. Used: 1271sx of G cement - 160bbbls of mix water. Yield 1.17 ft3/sx Ratio 5.20gal/sx
13.38	/	961.00m / 961.00m	460bbl of 11.5 ppg lead cement slurry. (Used: 387bbl SW mix fluid, 858 sx class G cement. Yield, 18.96 gal/sk - 3.01 ft3/sk) 66.8bbl of 15.8 ppg tail cement slurry (Used: 39.5bbl fresh water mix, 323sx class G cement. Yield, 5.12 gal/sk - 1.16 ft3/sk)

Personnel On Board	
Company	Pax
ADA	6
Maersk	37
GRN	5
OMS	21
Dril-Quip	2
Geoservices	6
Halliburton Cementers	2
Halliburton (Baroid)	2
Sperry Sun	2
Fugro ROV	6
Haliburton Directional Drilling	1
Reach	1
MI Fluids	1
Others	2
Total	94

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / Kosta Georgiou		
Available	Losses	Equipment	Description	Mesh Size	Comments	
2705.1bbl	0.0bbl					
Active	Downhole					
55.0bbl						
Mixing	Surf+ Equip					
1477.0bbl	0.0bbl					
Hole	Dumped					
983.1bbl						
Slug	De-Gasser					
Reserve	De-Sander					
Kill	De-Silter					
PAD MUD	Centrifuge					
190.0bbl	Pumped Sweep/Displace					

Marine

Weather on 08 Dec 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	16kn	263.0deg	1008.0mbar	11C°	1.3m	263.0deg	5s	1	210.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
1.0m	0.2deg	0.5deg	315.0deg	0.00klb	306.00klb	Calm			
Swell Height	Swell Dir.	Swell Period	Comments						
1.6m	250.0deg	5s							
								8	217.0
Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks					
Far Scimitar	05:40 - 8/12/09	19:10 - 5/12/09	Standby at Kan Tan IV	Item	Unit	Used	Quantity		
				Rig Fuel	M3		694		
				Potable Water	M3		124		
				Drill Water	M3		637		
					t		0		
				Barite	t		0		
				Bentonite	t		0		
				Brine	M3		45		
Mud	bbl		0						
Far Fosna	19:15 - 4/12/09		Standby at Kan Tan IV	Item	Unit	Used	Quantity		
				Rig Fuel	M3		369		
				Pot Water	M3		298		
				Drill Water	M3		600		
				Bentonite	t		0		
				Barite	t		0		
					t		0		
				Brine	M3		0		
Mud	bbl		0						