

DRILLING MORNING REPORT # 6
Rockhopper-1
04 Dec 2009
From: Michael Lanzer / Kevin Monkhouse
To: Texas Richards

Rockhopper-1					
Date:	04 Dec 2009	Well Site Representative:	Michael Lanzer	OIM:	Brian Meechan
Report Number:	6	Night Representative:	Kevin Monkhouse	Drilling Company:	Maersk
Latitude (South):	39 ° 47 ' 34.18 "	Longitude (East):	145 ° 26 ' 21.46 "	Geologist:	

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	30.000in	AFE No.	Rockhopper-1
Drill Co.	Maersk	Progress	143.0m	Shoe TVDBRT	157.0m	Daily Cost	US\$642,862
Rig	Kan Tan IV	Days from spud	4.02	Shoe MDBRT	157.0m	Cumul. Cost	US\$5,391,443
Wtr Dpth(MSL)	74.3m	Days on well	5.96	FIT/LOT:	/	Last LTI Date	01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3486.5m			Days Since Last LTI	33
RT-ML	100.3m	Planned TD TVDRT	3166.4m	Current Op @ 0600	Running 13 3/8" casing.		
Datum	GDA 94	Last BOP Test		Planned Op	Run 13 3/8" casing. Pick up 18 3/4" WH and RT. Run 13 3/8" casing in on landing string. Land and latch 18 3/4" wellhead in 30" housing. Cement 13 3/8" casing. POOH with landing string. Rig up to run BOPs.		

Summary of Period 0000 to 2400 Hrs
Drilled 17 1/2" hole from 823m to 966m. Spotted 80bbbls hi vis on bottom and performed 5 stand wiper trip. Circulated 100bbbl hi vis and displaced with 1.25 x hole volume of hi vis mud. POOH and racked BHA in mast. Made up jet sub, RIH, jetted well head, POOH. Made up HALCO cement head to stand of HWDP and racked in mast. Riggged up to run 13 3/8" casing. Made up 13 3/8" shoe track.

HSE Summary				
Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	0	6 Days	Held abandon drill	
Emergency Drill	0	30 Days	Full Emergency drill performed	
ER Exercises	0	2 Days		
Fire Drill	0	20 Days	Main deck - Fire in Control room	
Permit To Work	16	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	3 Days	General safety meetings	
Safety Meeting	16	0 Days	Prejob safety meetings	
Safety Meeting	7	0 Days	Safety Meetings	
STOP Card	33	0 Days	Number of STOP Cards submitted	

Operations For Period 0000 Hrs to 2400 Hrs on 04 Dec 2009							
Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P4	P	D2	0000	0900	9.00	966.0m	Drilled 17 1/2" hole from 823m to section TD at 966m (tide Corrected). Pumped 40bbl Hi-Vis sweeps on half stand and 50bbl Hi-Vis pill prior to connection. MWD survey taken every 3 stands (WOB 5-20klbs, 1000 gpm, 1900 psi, 90 rpm, 4-5 kft-lbs). Spotted 80bbl Hi Vis mud on bottom.
P4	P	G8	0900	1100	2.00	966.0m	POOH 5 stands. Tight spots from 909m to 841m with maximum hole drag of 30klbs. Wiped tight spots clean.
P4	P	G8	1100	1200	1.00	966.0m	RIH from 841m to 941m and washed last stand to TD at 966 m.
P4	P	F4	1200	1300	1.00	966.0m	Pumped 100bbl Hi Vis mud directly followed by 1100bbl consisting of 500bbl Pad Mud and 620bbl PHG (total hole displacement 1.5x hole volume).
P4	P	G8	1300	1830	5.50	966.0m	POOH to 30" conductor shoe at 157m. Maximum hole drag of 20klbs in marl section of the hole (last 50m of the hole). Continued to POOH with BHA. Laid out 17-1/2" stabiliser and 17-1/2" bit.
P4	P	G8	1830	1930	1.00	966.0m	Made up jet sub. RIH and stabbed into 30" wellhead housing.
P4	P	G8	1930	2030	1.00	966.0m	Jetted 30" wellhead housing from 102m with 770 GPM, 1200 psi for 10 mins. Pulled clear of wellhead housing (97m). POOH and laid out jet sub.
P5	P	G5	2030	2100	0.50	966.0m	Made up HALCO cement head into a stand of HWDP and racked back in mast.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	G1	2100	2300	2.00	966.0m	Held JSA for the rig-up of 13-3/8" casing. Rigged up to run 13-3/8" casing.
P5	P	G9	2300	2400	1.00	966.0m	Held JSA on running 13-3/8" Casing. Made up shoetrack backerlocking first 2 connections. Confirmed the float valve on shoe and Ffloat joint are working.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Dec 2009

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	G9	0000	0130	1.50	966.0m	Centralised shoe joint to well on guide wires with soft slings and ran 6 joints of 13-3/8" casing to 68m.
P5	TP (WOW)	G25	0130	0230	1.00	966.0m	Shut down casing running operations due to wind gust over 30Kts and rig roll of +/-2° (crane limitation). WOW.
P5	P	G9	0230	0400	1.50	966.0m	Continued to run 13-3/8" casing from 68m to 9 m. Stabbed into 30" wellhead housing with ROV in situ. Continued to run 13-3/8" casing to 123m filling every joint with 6bbl of seawater (total of 11 joints of casing run).
P5	P	G1	0400	0600	2.00	966.0m	Rigged up 500 T elevators and FMS Slips. Rigged up FACL circulating tool to topdrive.

Operations For Period Hrs to Hrs on
Phase Data to 2400hrs, 04 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)	3.5	04 Dec 2009	04 Dec 2009	143.00	5.958	966.0m

WBM Data
Cost Today US\$ 3347

Mud Type:	Hi-Vis PHB/Guar gum Sweeps	API FL: Filter-Cake:	Cl: 1400mg/l	Solids(%vol):	96%	Viscosity PV	62sec/qt	
Sample-From:	PILL Pit	HTHP-FL:	K+C*1000:	H2O:		YP	12cp	
Time:	2130	HTHP-cake:	Hard/Ca:	Oil(%):		Gels 10s	37lb/100ft²	
Weight:	8.80ppg		MBT: 15	Sand:		Gels 10m	10	
Temp:			PM:	pH:	9	Fann 003	17	
Comment	Note: Costs are in AUD						Fann 100	36
			PF:	PHPA:		Fann 200	43	
						Fann 300	49	
						Fann 600	61	

Bit # 2

Wear	I	O1	D	L	B	G	O2	R	
	1	1	WT	A	E	I	NO	TD	
Bitwear Comments:									
Size ("):	17.50in	IADC#	115	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Mfr:	Smith Bits	WOB(avg)	8.30klb	No.	Size	Progress	143.0m	Cumul. Progress	808.0m
Type:	mt	RPM(avg)	982	1	16/32nd"	On Bottom Hrs	8.0h	Cumul. On Btm Hrs	30.2h
Serial No.:	PN2676	F.Rate	1006gpm	3	22/32nd"	IADC Drill Hrs	9.0h	Cumul. IADC Drill Hrs	38.5h
Bit Model	XR+VCPS	SPP	1911psi			Total Revs	255	Cumul. Total Revs	101735
Depth In	158.0m	HSI				ROP(avg)	17.88 m/hr	ROP(avg)	26.75 m/hr
Depth Out	966.0m	TFA	1.310						
Bit Comment									

BHA # 2

Weight(Wet)	65.00klb	Length	253.9m	Torque(max)	8700ft-lbs	D.C. (1) Ann Velocity	114fpm
Wt Below Jar(Wet)	41.00klb	String	280.00klb	Torque(Off.Btm)	500ft-lbs	D.C. (2) Ann Velocity	104fpm
		Pick-Up	280.00klb	Torque(On.Btm)	3000ft-lbs	H.W.D.P. Ann Velocity	88fpm
		Slack-Off	270.00klb			D.P. Ann Velocity	88fpm
BHA Run Description		Rotary drill with MWD					

BHA Run Comment					
Equipment	Length	OD	ID	Serial #	Comment
Bit	0.44m	17.50in		PN2676	Non ported float installed. 17 1/2" Stab 17 1/2" Stab
Bit Sub	0.84m	9.50in	3.00in	711621	
HOC	9.77m	9.63in		46811	
String Stabiliser	2.47m	9.50in	3.00in	207A97	
Drill Collar	9.27m	9.75in	3.00in		
String Stabiliser	2.73m	9.50in	3.00in	SBD2709	
Drill Collar	84.96m	8.25in	2.88in		
Drilling Jars	9.70m	8.00in	2.88in	1762-5074	
Drill Collar	18.75m	8.25in	2.75in		
X/O	1.09m	6.50in	2.25in	1783	
HWDP	141.21m	5.00in	3.00in		

Survey								
MD (m)	Incl (deg)	Azim (deg)	TVD (m)	Vsec (deg)	N-S (m)	E-W (m)	DLS (deg/30m)	Tool Type
819.33	0.1	204.1	819.32	1.6	1.6	0.9	0.0	Haliburton NMHOC MWD
907.20	0.2	337.4	907.19	1.7	1.6	1.0	0.1	Haliburton NMHOC MWD
956.77	0.2	112.5	965.76	1.7	1.7	1.0	0.2	Haliburton NMHOC MWD

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Rig Fuel	m3	0	7	0	388.0	
Drill Water	m3	386	47	0	557.0	
Pot Water	m3	17	38	0	238.0	
Brine	m3	0	0	0	180.0	
Cement class \G\	MT	0	0	0	158.5	
Barite	MT	0	0	0	125.9	
Bentonite	MT	0	8	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	3	0	32.0	
Clayseal +	Drums	0	0	0	46.0	
Cuttings Pit 1	can	0	0	0	32.0	
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	123.0	
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	33.0	
KOH	can	0	0	0	44.0	
SOBM	sxs	0	0	0	18.0	
Soda Ash	sxs	0	3	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	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
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	16	0	42.0	

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	1.05	97	67	1900	335		30		252	40		336	50		420
2	Continental Emsco	6.50	1.05	97	66	1900	330		30		252	40		336	50		420
3	Continental Emsco	6.50	1.05	97	67	1900	335		30		252	40		336	50		420

Personnel On Board	
Company	Pax
ADA	4
Maersk	36
GRN	5
OMS	21
Dril-Quip	2
Geoservices	4
Halliburton Cementers	3
Halliburton (Baroid)	2
Sperry Sun	2
Fugro ROV	6
PCS	3
Reach	1
Other Contractor	1
Total	90

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / Kosta Georgiou			
Available	Losses	Equipment	Description	Mesh Size	Comments		
2130.5bbl	1740.0bbl						
Active	55.0bbl		Downhole				
Mixing			Surf+ Equip	0.0bbl			
Hole	934.5bbl		Dumped				
Slug			De-Gasser				
Reserve Kill			De-Sander De-Silter				
Hi-Vis PHB/Guar Sweeps	1141.0bbl		Centrifuge				
			Pumped Sweep/Displace	1740.0bbl			

Marine

Weather on 04 Dec 2009								Rig Support	
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Tension (klb)
10.0nm	23kn	260.0deg	1014.0mbar	12C°	1.6m	280.0deg	5s	1	261.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments			
1.6m	0.6deg	2.1deg	315.0deg	0.00klb	548.00klb	Weather blustery with westerly squalls. Seas rough			
Swell Height	Swell Dir.	Swell Period	Comments						
2.3m	280.0deg	6s							
								8	271.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
Far Scimitar	01:20 - 02/12/09		Standby at Kan Tan IV	Item	Unit	Used	Quantity
				Rig Fuel	M3		337
				Potable Water	M3		113
				Drill Water	M3		143
					t		0
				Barite	t		0
				Bentonite	t		0
				Brine	M3		112
				Mud	bbl		0
Far Fosna	19:15 - 4/12/09		Standby at Kan Tan IV	Item	Unit	Used	Quantity
				Rig Fuel	M3		615
				Pot Water	M3		313
				Drill Water	M3		600
				Bentonite	t		0
				Barite	t		0
					t		0
				Brine	M3		0
				Mud	bbl		0

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
KT 01	Bristow Helicopters	09:10 / 09:25	10 / 11	