

**DRILLING MORNING REPORT # 7**  
**Rockhopper-1**

05 Dec 2009

 From: Michael Lanzer / Kevin Monkhouse  
 To: Texas Richards

<b>Rockhopper-1</b>					
<b>Date:</b>	05 Dec 2009	<b>Well Site Representative:</b>	Michael Lanzer	<b>OIM:</b>	Brian Meechan
<b>Report Number:</b>	7	<b>Night Representative:</b>	Kevin Monkhouse	<b>Drilling Company:</b>	Maersk
<b>Latitude (South):</b>	39 ° 47 ' 34.18 "	<b>Longitude (East):</b>	145 ° 26 ' 21.46 "	<b>Geologist:</b>	

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\$867,546
Rig	Kan Tan IV	Days from spud	5.02	Shoe MDBRT	961.0m	Cumul. Cost	US\$6,258,989
Wtr Dpth(MSL)	74.3m	Days on well	6.96	FIT/LOT:	/	Last LTI Date	01 Nov 2009
RT-ASL(MSL)	26.0m	Planned TD MD	3486.5m			Days Since Last LTI	34
RT-ML	100.3m	Planned TD TVDRT	3166.4m	Current Op @ 0600	Rigging up to run BOPs		
Datum	GDA 94	Last BOP Test		Planned Op	Rig up and run BOPs		

Summary of Period 0000 to 2400 Hrs
Ran 13 3/8" casing to 854m. Rigged down casing handling equipment and made up 18 3/4" wellhead assembly. Ran 13 3/8" casing in to 954 m. Made up cement stand. Landed and latched 18 3/4" wellhead in 30" housing. Tested latch with 50klbs overpull. Rigged up and pressure tested surface lines to 3000 psi. Cemented casing with 460bbl 11.5ppg lead slurry and 66.8bbl of 15.8 ppg tail slurry. Displaced with rig pumps and bumped plug with 500 psi above FCP. Pressure tested casing to 2500psi/10 mins with cement unit. Released WHRT.

HSE Summary				
Events	Num. Events	Days Since	Descr.	Remarks
Abandon Drill	1	0 Days	Held abandon drill	Full life boat muster and abandonment drill
Emergency Drill	0	31 Days	Full Emergency drill performed	
ER Exercises	0	3 Days		
Fire Drill	0	21 Days	Main deck - Fire in Control room	
Permit To Work	15	0 Days	Permits administered	
Pre-tour Meeting	2	0 Days	Shift change meetings	
Safety Meeting	0	4 Days	General safety meetings	
Safety Meeting	15	0 Days	Prejob safety meetings	
Safety Meeting	7	0 Days	Safety Meetings	
STOP Card	44	0 Days	Number of STOP Cards submitted	

Operations For Period 0000 Hrs to 2400 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.
P5	P	G9	0600	1330	7.50	966.0m	Ran 13-3/8" casing from 123m to 854m. Filled every joint with 6bbl of seawater (74 jts run).
P5	P	G9	1330	1400	0.50	966.0m	Laid out 500 T elvators. Changed handling equipment to 5" DP elevators and installed 18-3/4" wellhead with 13-3/8" extension. Laid out FMS casing slips and changed out bales. Ran 18-3/4" hanger below table. Total 13-3/8" Csg + wellhead weight on MD 320klbs - hole good.
P5	TP (TP)	G1	1400	1530	1.50	966.0m	Control line for the elevator spider caught on TDS whilst making up the wellhead and approximately 1-1/2 hrs was lost due to removing the bundle.
P5	P	G9	1530	1600	0.50	966.0m	Ran 13-3/8" casing in on 5" HWDP landing string to 954m.
P5	P	G9	1600	1700	1.00	966.0m	Picked up cement head stand out of mast and made up to running string. Connected

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	G1	1700	1800	1.00	966.0m	circulating hose to cement head. RIH and opened heave compensator. Landed 18-3/4" hanger in 30" Wellhead Housing. Total up weight of casing plus running string 350klbs on MD. Slacked off 50klbs down. Confirmed latch with 50klbs overpull to 400klbs MD. Reduced weight to 190klbs. Checked slope indicator - 3/4 deg fwd port - no change.
P5	P	F3	1800	1830	0.50	966.0m	Rigged up Halliburton control hoses to cement head.
P5	P	F3	1830	2130	3.00	966.0m	Held JSA on cementing operation. Halliburton pumped 10bbls seawater. Pressure tested surface lines to 3000psi for 5mins - ok. Halliburton pumped 30bbl seawater and dropped the ball. Displaced at 1 bbl/min. Bottom plug sheared after 1.8 bbl with 1000 psi.
P5	P	F3	2130	2230	1.00	966.0m	Halliburton mixed and pumped 460bbl of 11.5 ppg lead cement slurry (Used: 387bbl seawater mix fluid, 858 sx class G cement. Yield: 18.96 gal/sk - 3.01 Ft3/sk) Halliburton mixed and pumped 66.8bbl of 15.8 ppg tail cement slurry (Used: 39.5bbl fresh water mix, 323 sx class G cement. Yield: 5.12 gal/sk - 1.16 ft3/sk). Halliburton dropped top dart and displaced with 20bbl seawater. Top plug sheared with 250 psi after 3.8bbl pumped.
P5	P	P1	2230	2330	1.00	966.0m	Displaced cement with rig pumps at 7 bbl/min slowing down to 2 bbl/min for the last 100 strokes. Plug bumped after 3280 strokes pumped (calculated 3324 strokes). FCP before bump - 430psi. Pressured up to 900psi on bump. Visual indication of cement returns to mudline via ROV.
P5	P	G1	2330	2400	0.50	966.0m	Bled pressure off at cement unit to check for back flow. No flow. Lined up cement unit and pressure tested 13-3/8" casing to 2500 psi 10 mins. Bled off pressure. Pumped 4.5bbl and 4.5 BBL returned.
P5	P	G1	2330	2400	0.50	966.0m	Halliburton reset valves in cement head and removed control hoses. Rigged down surface line to cement head. Adjusted MD weight to 180klbs to compensate for blocks plus running string weight and released 18-3/4" RT with 4-1/2 turns to the right and picked up clear of well head.

**Operations For Period 0000 Hrs to 0600 Hrs on 06 Dec 2009**

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
P5	P	G8	0000	0030	0.50	966.0m	Racked back cement head in mast. POOH with 18-3/8" WHRT.
P5	P	G15	0030	0100	0.50	966.0m	Laid out 18-3/4" WHRT assembly (ROV inspected 18-3/4" Wellhead / PGB and seabed).
P5	P	G15	0100	0300	2.00	966.0m	Laid out Halliburton cement head and racked back drillpipe stand in mast.
P4	P	G6	0300	0500	2.00	966.0m	Laid out 9-1/2" DC, NMHOC and 17-1/2" stabiliser from mast.
P5	P	G1	0500	0530	0.50	966.0m	Cleared excess equipment from drillfloor.
P6	P	G13	0530	0600	0.50	966.0m	(IN PROGRESS) Rigged up to run riser and BOPs.

**Operations For Period Hrs to Hrs on**
**Phase Data to 2400hrs, 05 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)	27.5	04 Dec 2009	05 Dec 2009	167.00	6.958	966.0m

**WBM Data**
**Cost Today US\$ 6091**

Mud Type:	Hi-Vis PHB/Guar gum Sweeps	API FL:	Cl:	1400mg/l	Solids(%vol):	Viscosity	58sec/qt	
Sample-From:	PIT 2	Filter-Cake:	K+C*1000:		H2O:	PV	12cp	
Time:	2130	HTHP-FL:	Hard/Ca:		Oil(%):	YP	36lb/100ft²	
Weight:	8.80ppg	HTHP-cake:	MBT:	15	Sand:	Gels 10s	10	
Temp:			PM:		pH:	Gels 10m	16	
Comment	Note: Costs are in AUD						Fann 003	14
			PF:		PHPA:	Fann 006	16	
						Fann 100	5	
						Fann 200	40	
						Fann 300	48	
						Fann 600	60	

**Bulk Stocks**

Name	Unit	In	Used	Adjust	Balance
Rig Fuel	m3	0	18	0	370.0
Drill Water	m3	0	30	-1	526.0
Pot Water	m3	46	18	-2	264.0

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
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	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	
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	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	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

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)

Casing			
OD	LOT / FIT	Csg Shoe (MD/TVD)	Cementing
			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	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
<b>Total</b>	<b>90</b>

Mud Volumes, Mud Losses and Shale Shaker Data				Engineer : Jay Wan / Kosta Georgiou			
Available	Losses	Equipment	Description	Mesh Size	Comments		
1928.1bbl	581.0bbl						
Active 55.0bbl	Downhole						
Mixing 700.0bbl	Surf+ Equip 0.0bbl						
Hole 983.1bbl	Dumped						
Slug	De-Gasser						
Reserve Kill	De-Sander De-Silter						
PAD MUD 190.0bbl	Centrifuge						
	Pumped Sweep/Displace 581.0bbl						

Marine								Rig Support	
Weather on 05 Dec 2009								Anchors	Tension (klb)
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period		
10.0nm	12kn	252.0deg	1015.0mbar	12C°	1.0m	230.0deg	5s	1	245.0
Heave	Pitch	Roll	Rig Dir.	Ris. Tension	VDL	Weather Comments		2	252.0
1.0m	1.0deg	1.9deg	315.0deg	0.00klb	445.00klb	Calm		3	287.0
Swell Height	Swell Dir.	Swell Period	Comments					4	274.0
1.3m	230.0deg	5s						5	268.0
								6	263.0
								7	219.0
								8	264.0

Vessel Name	Arrived (Date/Time)	Departed (Date/Time)	Status	Bulks			
				Item	Unit	Used	Quantity
Far Scimitar	01:20 - 02/12/09	19:10 - 5/12/09	In transit to Melbourne	Rig Fuel	M3		324
				Potable Water	M3		111
				Drill Water	M3		143
					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	Rig Fuel	M3		600
				Pot Water	M3		307
				Drill Water	M3		600

				Item	Unit	Used	Quantity
				Bentonite	t		0
				Barite	t		0
					t		0
				Brine	M3		0
				Mud	bbf		0