



Manta 2a

Date : 09 Feb 2006

Geology Report Number : 14

(associated DDR # 18)

Well Details

Depth MDRT:	3,113.0m	Rig:	OCEAN PATRIOT	Date:	09 Feb 2006
Depth TVDBRT:	2,895.5m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	2,874.0m	GLE amsl:	133.3m	Report End:	24:00
Progress:	49.0m	Last Csg Size:	9.625in	Days On Location:	17.10
Hole Size:	8.500in	Last Csg Shoe:	2,527.2m	Days since Spud:	17.19
Hole Size Carbide:		F.I.T. / L.O.T.:	13.50ppg /		

Operations Summary

24hr Summary:	<p>Drilled ahead from 3064.0 mMDRT to 3113.0 mMDRT</p> <p>3064.0 - 3113.0 mMDRT Weathered Volcanics and thin Volcanic Sandstone ROP = 7.0 - 69.0 m/hr (25.0 m/hr)</p> <p>Circulated hole clean and conducted wiper-trip. Pulled out of hole and rigged up wireline. Commenced wireline program. Run (1) FMI-DSI-HRLA-PEX-HNGS</p>
Forward Plan:	Complete logging program. (See wireline summary).

WBM Data

Mud Type:	KCL/PHPA	Flowline Temp:	Cl:	36000mg/l	Low Gravity Solids:	Viscosity	67sec/qt
Sample From:	Pits	MWD Circ Temp:	Hard/Ca:	200mg/l	High Gravity Solids:	PV	18cp
Time:	18:00	Glycol CP Temp:	MBT:	4	Solids (corrected):	YP	30lb/100ft ²
Weight:	9.20ppg	Glycol:	PM:	0.15	H2O:	Gels 10s	8
ECD TD:		Nitrates:	PF:	0.05	Oil:	Gels 10m	12
ECD Shoe:		Sulphites:	MF:	0.3	Sand:	Fann 003	7
ECD Cuttings:		API FL:	pH:	9.2	Barite:	Fann 006	9
KCl Equiv:	6%	API Cake:	PHPA Excess:			Fann 100	30
						Fann 200	41
						Fann 300	48
						Fann 600	66

Formation Tops

Formation	Prognosed		Actual		Diff. + / - TVD	Thickness MD	Pick Criteria
	MDRT	TVDSS	MDRT	TVDSS			
Sea Foor Gippsland Limestone	155.80m	134.30m	156.00m	134.50m	0.20m	1,476.00m	
Lakes Entrance Formation	1,625.90m	1,519.00m	1,632.00m	1,522.72m	3.72m	453.00m	LWD logs
Latrobe Group	2,081.40m	1,939.00m	2,085.00m	1,936.60m	-2.40m	90.00m	LWD and Samples
Base Tuna flounder Channel	2,171.40m	2,022.00m	2,175.00m	2,018.00m	-4.00m	410.00m	LWD and Samples
K2 Dolomite Sand Marker	2,578.00m	2,397.00m	2,585.00m	2,395.00m	-2.00m	135.00m	LWD and ROP
Ma2 Dolomitic Sand Marker	2,710.40m	2,518.00m	2,720.00m	2,519.13m	1.13m	73.00m	LWD
Top Zone 2 Sand	2,784.80m	2,585.00m	2,793.00m	2,586.00m	1.00m	52.00m	LWD
Top Zone 4 Sand	2,834.70m	2,630.00m	2,845.00m	2,633.50m	3.50m	82.50m	LWD
Top Zone 7 Upper Sand	2,923.50m	2,710.00m	2,927.50m	2,708.30m	-1.70m	18.50m	LWD
Top Zone 7 Lower Sand	2,940.20m	2,725.00m	2,946.00m	2,725.00m	0.00m	100.00m	LWD
Top Volcanics Unit 1	3,034.60m	2,810.00m	3,046.00m	2,814.80m	4.80m	67.00m	LWD & cuttings
Total Depth (TD)	3,101.60m	2,870.40m					



Oil Shows										
From	To	Formation	Lithology	White Light			UV Light			Rating
				Stain	Cut	Residue	Fluor.	Cut Fluor.	Residue	
2795.00m	2800.00m			None	None	None	Yellowish-white	Blue-white	Yellow-white ring	Poor
2800.00m	2805.00m			None	None	None	Pale Yellow	Blue-white	Yellow-white	Poor
2805.00m	2810.00m			None	None	None	Bright-Yellow	Blue-White	Yellow-White	Moderate
2845.00m	2850.00m						light green	green / cream	green cream	moderate
2945.00m	2965.00m						cream / light green	cream / light green	dull yellow	Good
3000.00m	3030.00m						green	green	dull cream	good
3030.00m	3045.00m						yellow-white	yellow-green	dull cream-yellow	moderate

Gas														
Depth Range	Gas Type	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)	C1/C2 (ppm)	C1/C3 (ppm)	C1/C5 (ppm)	* (ppm)	F2* (ppm)	F3* (ppm)
3046.00 - 3113.00	Background	0.96	5916	445	215	50	45	40	13.29	27.52	147.9	62.27	1.11	1,567.5

Comment:

F1*: C1 / (nC4 + iC4) F2*: iC4 + nC4 F3*: (C2 + C3) / (C5 / (iC4 + nC4))

Survey									
MDRT (m)	Incl. (deg)	Corr. Az (deg)	TVDBRT (m)	'V' Sect (deg)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type	
3053.49	27.2	90.7	2842.75	982.4	1.6	588.2	787.0	MWD	
3088.41	28.0	89.7	2873.71	995.5	0.7	588.1	803.2	MWD	
3113.00	28.5	88.9	2895.37	1005.0	0.8	588.3	814.8	Extrapolated to bit	

06:00 Hrs Update	
Time:	06:00 Hrs on 10 Feb 2006
Depth:	3113/2895.5
Progress Since Midnight:	0
Drilling Status:	Running in the hole with log #2; MDT
Formation:	No drilling.
Lithology:	No drilling.
ROP:	No drilling.
Gas:	No drilling.

Wellsite Geologist(s)	
(Days) - Rob Blackmore	(Nights) - Mike Woodmansee

Lithology Report					Description
Depth Interval		Main Lithology	Lithology %	Qualifier	
Depth (mRT)	Depth Range				
3050.0	3055.0	Vol	100	kaol	Volcanic, grn, gy, wh-lt brn, orng-brn, multi, Very soft, to Hard, amorphous, to splintery, 0.1% Calcite cement, 0.1% Pyrite, 0.1% Mica, 1% Chert, 5% porosity, no Hydrocarbon shows.
3080.0	3085.0	Sst	10		Sandstone, clr, transl, yel, brn, orng, grn, Loose, Sub-angular, to Sub-rounded, Moderately sorted, Slightly Elongated, to Slightly Spherical, 100% siliceous sand, 20% very fine grained, 60% fine grained, 20% medium grained, 10% porosity, no Hydrocarbon shows.
3080.0	3085.0	Vol	90	kaol	Volcanic, grn, gy, wh-lt brn, orng-brn, multi, Soft, to Hard, amorphous, to splintery, 0.1% Calcite cement, 1% Silica cement, 0.1% Pyrite, 1% Chert, no Hydrocarbon shows.
3090.0	3095.0	Sst	5		Sandstone, clr, transl, yel, brn, orng, grn, Loose, Sub-angular, to Sub-rounded, Moderately sorted, Slightly Elongated, to Slightly Spherical, 100% siliceous sand, 20% very fine grained, 60% fine grained, 20% medium grained, 10% porosity, no Hydrocarbon shows.
3090.0	3095.0	Vol	95	kaol	Volcanic, grn-gy, wh-lt brn, , Soft, to Firm, amorphous, to massive, 10% calcerous clay, 20% siliceous clay, 0.1% Calcite cement, 0.1% Pyrite, 1% Chert, no Hydrocarbon shows.



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Lithology Report					
Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
3110.0	3113.0	Vol	100	kaol	Volcanic, grn-gy, wh-lt gy, dk grn-gy, Very soft, to Moderately hard, amorphous, to massive, 10% calcerous clay, 40% siliceous clay, 1% Calcite cement, 1% Pyrite, 1% Chert, 5% porosity, no Hydrocarbon shows.