

**Basker-5**

Date : 22 Mar 2006

Geology Report Number : 13

( associated DDR # 21 )

**Well Details**

Depth MDRT:	3,307.0m	Rig:	OCEAN PATRIOT	Date:	22 Mar 2006
Depth TVDBRT:	3,069.5m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	3,048.0m	GLE amsl:	153.6m	Report End:	24:00
Progress:	36.0m	Last Csg Size:	13.375in	Days On Location:	17.35
Hole Size:	12.250in	Last Csg Shoe:	989.0m	Days since Spud:	24.60
Hole Size Carbide:		F.I.T. / L.O.T.:	15.10ppg /		

**Operations Summary**

24hr Summary:	<p>Pulled out of hole for bit trip. Replaced PDC bit and picked up Geo-Pilot. Slipped and cut drill-line and serviced top-drive. RIH to bottom and continued drilling ahead from 3271.0 mMDRT.</p> <p>3265.0 - 3270.0 mMDRT Interbedded Sandstone and Siltstone. ROP = 1.2 - 24.0 m/hr (5.5 m/hr) Average Background Gas = 0.59 %</p> <p>3270.0 - 3286.0 mMDRT Interbedded Sandstone, Siltstone and Coal with pyrite stringers. ROP = 0.1 - 44.0 m/hr (7.6 m/hr) Average Background Gas = 0.8 %</p> <p>3286.0 - 3307.0 mMDRT Interbedded Sandstone and Siltstone. ROP = 2.8 - 20 (4.7 m/hr) Average Background Gas = 0.4 %</p>
Forward Plan:	Drill ahead to TD.

**WBM Data**

Mud Type:	KCL/PHPA/Glycol	Flowline Temp:		Cl:	41000mg/l	Low Gravity Solids:		Viscosity	64sec/qt
Sample From:	Active pit	MWD Circ Temp:		Hard/Ca:	280mg/l	High Gravity Solids:		PV	18cp
Time:	19:00	Glycol CP Temp:		MBT:	5	Solids (corrected):		YP	42lb/100ft²
Weight:	9.65ppg	Glycol:	3.0%vol	PM:	0.001	H2O:	92%	Gels 10s	10
ECD TD:		Nitrates:		PF:	0.2	Oil:	0%	Gels 10m	17
ECD Shoe:		Sulphites:		MF:	0.6	Sand:	0.6	Fann 003	9
ECD Cuttings:		API FL:	4.4cc/30min	pH:	9	Barite:		Fann 006	12
KCl Equiv:	8%	API Cake:	1/32nd"	PHPA Excess:				Fann 100	39
								Fann 200	49
								Fann 300	60
								Fann 600	78

**Formation Tops**

Formation	Prognosed		Actual		Diff.	Thickness MD	Pick Criteria
	MDRT	TVDSS	MDRT	TVDSS	+ / - TVD		
Base T-F Channel			2,292.00m	2,154.70m	2,154.70	500.00m	LWD logs
K2 Sst. Marker			2,792.00m	2,591.40m	2,591.40	277.50m	LWD logs
Ma2 Sandstone			3,069.50m	2,832.60m	2,832.60	130.50m	LWD and ROP
Seafloor	177.00m	155.50m	175.10m	153.60m	-1.90m	1,659.90m	
Lakes Entrance	1,884.30m	1,779.00m	1,835.00m	1,757.30m	-21.70m	378.00m	LWD & cuttings
Latrobe Group	2,238.80m	2,086.00m	2,213.00m	2,085.00m	-1.00m	79.00m	LWD & cuttings
Reservoir Zone 0	3,267.80m	2,973.00m	3,200.00m	2,950.60m	-22.40m	70.00m	LWD and gas
Reservoir Zone 1.2	3,347.80m	3,042.00m	3,270.00m	3,014.30m	-27.70m	16.00m	LWD
Reservoir Zone 2	3,357.10m	3,050.00m	3,286.00m	3,029.00m	-21.00m	0.00m	LWD
Reservoir Zone 4	3,413.80m	3,099.00m					
Reservoir Zone 5	3,491.50m	3,166.00m					
Reservoir Zone 6.2	3,535.50m	3,204.00m					
Reservoir Zone 7	3,573.80m	3,237.00m					
Volcanics Unit 1	3,584.20m	3,246.00m					
Reservoir Zone 8	3,617.80m	3,275.00m					
TD	3,689.60m	3,337.00m					

**Oil Shows**

From	To	Formation	Lithology	White Light			UV Light			Rating
				Stain	Cut	Residue	Fluor.	Cut Fluor.	Residue	
2995.00m	3120.00m			nil	nil	nil	yellow / green	nil	nil	poor
3140.00m	3160.00m			nil	nil	nil	dull grn/yellow	nil	nil	very poor

**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)	F1* (ppm)	F2* (ppm)	F3* (ppm)
3265.00 - 3270.00	Background	0.45	4736	622	300	33	114	120	7.61	15.79	39.47	147	1,129.45
Comment:													
3270.00 - 3286.00	Background	0.80	7949	823	446	66	122	98	9.66	17.82	81.11	188	2,434.41
Comment:													
3273.00 - 3273.00	Peak	5.47	45668	3381	1283	277	365	194	13.51	35.59	235.4	642	15,434.47
Comment:													
3286.00 - 3307.00	Background	0.40	2800	460	230	17	86	132	6.09	12.17	21.21	103	538.41
Comment:													
3297.00 - 3297.00	Peak	8.60	74357	5758	2682	527	692	342	12.91	27.72	217.42	1,219	30,082.92
Comment:													
3305.00 - 3305.00	Peak	5.90	43257	3582	1856	369	535	221	12.08	23.31	195.73	904	22,244.13
Comment:													

F1\*: C1 / C5      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
3263.89	24.6	132.8	3030.26	1038.1	0.1	-653.5	806.6	MWD
3292.15	22.9	132.7	3056.12	1049.5	1.8	-661.3	814.9	MWD

**06:00 Hrs Update**

Time:	06:00 Hrs on 23 Mar 2006
Depth:	3326 / 3087
Progress Since Midnight:	19
Drilling Status:	Making repairs to #1 & #3 mud pumps @3326m MDRT. Circulating on #2 while boosting riser.
Formation:	Latrobe Formation Zone 3
Lithology:	Sandstone and Siltstone, occasional hard pyritic Sandstone stringers
ROP:	3.7 - 29 m/hr 7.5 Average
Gas:	Background 1.0% C1 5931 ppm, C2 773 ppm, C3 449 ppm, iC4 69 ppm, nC4 152 ppm, C5 180 ppm Peak 3318m 6.2% Peak 3325m 8.7%

**Wellsite Geologist(s)**

(Days) - M.Woodmansee      (Nights) - R.Blackmore

**Lithology Report**

Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
2885.0	2890.0	Clyst	30		Claystone, med dk gy, v dark gy, Firm, blocky to splintery, 5% calcereous clay, 90% siliceous clay.
2895.0	2900.0	Sst	60		Sandstone, clr, transl, occ wh, Loose, Sub-angular to Sub-rounded, Poor sorted, Elongated to Slightly Spherical, 20% fine grained, 50% medium grained, 20% coarse grained, 10% very coarse grained, 0.1% Pyrite.
2900.0	2905.0	C	1		Coal, blk, dull blk, Firm, blocky, 5% siliceous silt, 0.3% Pyrite.



Lithology Report					
Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
2900.0	2905.0	Sltst	89		Siltstone, lt gy, lt-med brnsh/gy, olv gy, Very soft to Soft, amorphous to sub-blocky, 5% calcerous clay, 30% siliceous clay, 63% siliceous silt, 2% siliceous sand, 0.1% Pyrite, 0.2% Coal, 0.1% Mica.
3265.0	3275.0	Sst	10		Sandstone, clr, transl, occ wh, Loose to Friable, Sub-angular to Sub-rounded, Very Poor sorted to Poor sorted, Slightly Elongated to Slightly Spherical, 100% siliceous sand, 10% fine grained, 40% medium grained, 30% coarse grained, 20% very coarse grained, 0.1% Pyrite, 15% porosity, no Hydrocarbon shows.
3275.0	3280.0	C	5		Coal, blk, dk brn, Firm to Hard, sub-blocky to splintery, 10% Coal, 10% porosity, no Hydrocarbon shows.
3275.0	3280.0	Sltst	85	arg	Siltstone, gy to lt brn-gy, mottled brn-blk, Very soft to Soft, amorphous to sub-blocky, 40% siliceous clay, 60% siliceous silt, 0.1% Pyrite.
3280.0	3285.0	Sst	20		Sandstone, clr, transl, occ wh, Loose to Friable, Sub-angular to Sub-rounded, Very Poor sorted to Poor sorted, Slightly Elongated to Slightly Spherical, 100% siliceous sand, 5% very fine grained, 10% fine grained, 30% medium grained, 30% coarse grained, 20% very coarse grained, 5% granular grained, 0.1% Silica cement, 0.1% Chlorite, 0.1% Pyrite, 15% porosity, no Hydrocarbon shows.
3290.0	3295.0	Sst	10	arg	Sandstone, clr, transl, occ wh, occ gy in aggregate, Loose to Firm, massive, Sub-angular to Sub-rounded, Very Poor sorted to Poor sorted, Slightly Elongated to Slightly Spherical, 20% siliceous clay, 10% siliceous silt, 70% siliceous sand, 15% very fine grained, 35% fine grained, 20% medium grained, 20% coarse grained, 5% very coarse grained, 5% granular grained, 0.1% Silica cement, 0.1% Pyrite, 15% porosity, no Hydrocarbon shows.
3290.0	3295.0	Sltst	80	arg	Siltstone, lt gy to mottled brn-gy, Soft to Firm, amorphous to sub-blocky, 40% siliceous clay, 60% siliceous silt, 0.1% Coal, 0.1% Mica, 0.1% Pyrite.
3295.0	3300.0	Sltst	10	carb	Siltstone, dk brn / blk, Soft to Friable, sub-blocky to sub-fissile, 10% siliceous clay, 90% siliceous silt, 20% Coal.
3300.0	3305.0	Sst	90	arg	Sandstone, v lt gy, lt gy, Very soft to Loose, massive, Sub-angular to Rounded, Well sorted, Slightly Elongated to Very Spherical, 60% siliceous clay, 40% siliceous sand, 40% very fine grained, 50% fine grained, 10% medium grained, 0.1% Coal, 8% porosity, no Hydrocarbon shows.
3310.0	3315.0	Sltst	80	arg	Siltstone, med to dark gy /brn, , Very soft to Soft, amorphous to sub-fissile, 40% siliceous clay, 60% siliceous silt, 0.5% Coal, 0.1% Mica.
3310.0	3315.0	Sst	20	arg	Sandstone, v lt gy, lt gy, Very soft to Loose, massive, Sub-angular to Rounded, Well sorted, Slightly Elongated to Very Spherical, 60% siliceous clay, 40% siliceous sand, 60% very fine grained, 40% fine grained, 0.1% Coal, 8% porosity, no Hydrocarbon shows.