



**Basker-3**

Date : 17 Apr 2006

Geology Report Number : 16

( associated DDR # 21 )

**Well Details**

Depth MDRT:	3530.0m	Rig:	OCEAN PATRIOT	Date:	17 Apr 2006
Depth TVDBRT:	2836.0m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	2814.5m	LAT amsl:	152.9m	Report End:	24:00
Progress:	144.0m	Last Csg Size:	13.375in	Days On Location:	19.27
Hole Size:	12.250in	Last Csg Shoe:	999.1m	Days since Spud:	47.81
Hole Size Carbide:		F.I.T. / L.O.T.:	12.50ppg /		

**Operations Summary**

24hr Summary:	<p>Drilled ahead from 3386.0 mMDRT to 3530.0 mMDRT. TD of this 311 mm (12 1/4") hole section reached at 3530.0 mMDRT. TD is estimated to be 9 m TVD above the top of the Ma2 Sandstone, based on correlation with Basker-5. Circulated hole clean and started to POOH. Pulling out of hole at midnight.</p> <p>3386.0 - 3530.0 mMDRT          Interbedded Siltstone, Claystone, Sandstone and minor Coal.          ROP = 1.0 - 28.0 m/hr          Average = 9.3 m/hr          Background Gas = 0.2 %</p>
Forward Plan:	POOH to run 9 5/8" casing.

**WBM Data**

Mud Type: KCL/PHPA/Glycol	Flowline Temp:	Cl:	42000mg/l	Low Gravity Solids:	Viscosity	63sec/qt
Sample From: Active pit	MWD Circ Temp:	Hard/Ca:	280mg/l	High Gravity Solids:	PV	18cp
Time: 18:00	Glycol CP Temp:	MBT:	7.5	Solids (corrected):	YP	38lb/100ft <sup>2</sup>
Weight: 9.60ppg	Glycol: 2.7%vol	PM:	0.1	H2O:	Gels 10s	9
ECD TD:	Nitrates:	PF:	0.05	Oil:	Gels 10m	17
ECD Shoe:	Sulphites:	MF:	0.6	Sand:	Fann 003	8
ECD Cuttings:	API FL: 4.9cc/30min	pH:	9	Barite:	Fann 006	11
KCl Equiv: 7%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	35
					Fann 200	47
					Fann 300	56
					Fann 600	74

**Formation Tops**

Formation	Prognosed		Actual		Diff. + / - TVD	Thickness MD	Pick Criteria
	MDRT	TVDSS	MDRT	TVDSS			
Seafloor	177.00m	155.50m	174.40m	152.90m	-2.60m	2037.60m	Driller's Depth
Lakes Entrance	2247.00m	1817.00m	2212.00m	1790.20m	-26.80m	458.00m	LWD
Latrobe Group	2700.00m	2136.00m	2670.00m	2118.20m	-17.80m	72.00m	LWD and cuttings
Base T-F Channel	2760.00m	2186.00m	2742.00m	2172.90m	-13.10m	488.00m	Cuttings and LWD
Top K2 Sandstone	3246.00m	2568.50m	3230.00m	2554.30m	-14.20m	0.00m	LWD based on B-5
Ma2 Sandstone	3552.00m	2832.50m					
Reservoir Zone 0	3709.00m	2976.00m					
Reservoir Zone 1.2	3802.00m	3057.00m					
Reservoir Zone 2	3809.00m	3064.00m					
Reservoir Zone 4	3859.00m	3107.00m					
Reservoir Zone 6.2	3974.00m	3207.00m					
Reservoir Zone 7	4030.00m	3257.00m					
Top Volcanics	4042.00m	3267.00m					
TD	4109.00m	3319.00m					



**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)
3386.00 - 3530.00	Background gas	0.20	1646	231	173	62	84	97	7.13	9.51	16.97	146	608.08
Comment:													
3475.00 -	Peak	0.95	3687	528	679	206	348	221	6.98	5.43	16.68	554	3,025.69
Comment:													
3483.00 -	Peak	2.20	6696	2101	1753	498	981	940	3.19	3.82	7.12	1,479	6,063.9
Comment:													
3504.50 -	Peak	0.90	4538	323	200	56	98	175	14.05	22.69	25.93	154	460.24
Comment:													
3517.00 -	Peak	1.50	8003	987	710	519	571	645	8.11	11.27	12.41	1,090	2,867.8
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
3414.87	30.4	138.0	2735.64	1871.7	0.6	-1231.5	1409.5	MWD
3443.58	30.1	137.0	2760.44	1886.1	0.7	-1242.2	1419.3	MWD
3471.60	29.6	136.3	2784.75	1900.0	0.7	-1252.3	1428.8	MWD
3500.72	29.5	134.7	2810.08	1914.3	0.8	-1262.5	1438.9	MWD
3519.01	29.5	134.8	2826.00	1923.3	0.0	-1268.9	1445.3	MWD

**06:00 Hrs Update**

Time:	06:00 Hrs on 18 Apr 2006
Depth:	3530/2836
Progress Since Midnight:	0
Drilling Status:	Pulling out of the hole @ 1750m MDRT
Formation:	Latrobe Group
Lithology:	No drilling
ROP:	No drilling
Gas:	No drilling

**Wellsite Geologist(s)**

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

**Lithology Report**

Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
2955.0	2960.0	Clyst	100	sly	Claystone, olv gy, rare brnsh gy, very soft, amorphous, 70% siliceous clay, 30% siliceous silt, trace of pyrite, trace of glauconite, trace of coal.
3385.0	3390.0	Sst	90		Sandstone, clr-transl, wh, loose, sub-angular to sub-rounded, poor sorted, slightly elongated to slightly spherical, 100% siliceous sand, 20% medium grained, 30% coarse grained, 40% very coarse grained, 10% granular grained, trace of pyrite, 15% porosity, no hydrocarbon show.
3385.0	3390.0	Sltst	10	arg	Siltstone, brnsh gy, occ brnsh blk, lt gy, very soft to firm, amorphous to dispersive, 40% siliceous clay, 60% siliceous silt, trace of pyrite, 0.5% coal, trace of mica.
3410.0	3415.0	Sltst	30	arg	Siltstone, brnsh gy, occ dk brnsh blk, , very soft to firm, amorphous to sub-blocky, 30% siliceous clay, 70% siliceous silt, trace of pyrite, trace of coal, 0.5% mica.
3410.0	3415.0	Sst	70		Sandstone, clr-transl, wh, occ yel, loose, sub-angular to sub-rounded, very poor sorted, slightly elongated to slightly spherical, 100% siliceous sand, 20% very fine grained, 20% fine grained, 40% medium grained, 10% coarse grained, 5% very coarse grained, 5% granular grained, trace of pyrite, 15% porosity, no hydrocarbon show.
3455.0	3460.0	Sst	20		Sandstone, clr-transl, wh, occ yel, occ gy, loose, sub-angular to sub-rounded, very poor sorted, slightly elongated to slightly spherical, 100% siliceous sand, 20% very fine grained, 40% fine grained, 30% medium grained, 5% coarse grained, 5% very coarse grained, trace of pyrite, 15% porosity, no hydrocarbon show.
3455.0	3460.0	Sltst	80	arg	Siltstone, med-lt brnsh gy, occ dk brnsh blk, , very soft to soft, amorphous to sub-blocky, 40% siliceous clay, 60% siliceous silt, trace of pyrite, trace of coal, trace of mica.
3470.0	3475.0	Clyst	100	sly	Claystone, med-lt brnsh gy, occ dk brn, occ lt gy-wh, very soft to soft, amorphous to sub-blocky, 60% siliceous clay, 40% siliceous silt, trace of pyrite, trace of coal, trace of mica.



Lithology Report					
Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
3500.0	3505.0	Sst	5		Sandstone, clr-transl, rare wh, lt gy, loose to friable, sub-blocky, sub-angular to rounded, moderately sorted to well sorted, slightly elongated to spherical, 15% siliceous clay, 10% siliceous silt, 75% siliceous sand, 10% very fine grained, 30% fine grained, 55% medium grained, 5% coarse grained, trace of pyrite, 10% porosity, no hydrocarbon show.
3500.0	3505.0	Sltst	95	arg	Siltstone, med-lt brnish gy, occ dk brn, occ lt gy-wh, very soft to soft, amorphous to sub-blocky, 35% siliceous clay, 65% siliceous silt, trace of pyrite, trace of coal, trace of mica.
3505.0	3510.0	Sltst	95	arg	Siltstone, med-lt brnish gy, occ dk brn/blk, lt gy-wh, very soft to soft, amorphous to sub-blocky, 35% siliceous clay, 60% siliceous silt, 5% siliceous sand, trace of pyrite, trace of coal, trace of mica.
3505.0	3510.0	Sst	5		Sandstone, clr-transl, rare wh, lt gy, loose to friable, sub-blocky, sub-angular to rounded, moderately sorted to well sorted, slightly elongated to spherical, 15% siliceous clay, 10% siliceous silt, 75% siliceous sand, 10% very fine grained, 30% fine grained, 55% medium grained, 5% coarse grained, trace of pyrite, 10% porosity, no hydrocarbon show.
3510.0	3515.0	Sltst	95	arg	Siltstone, med-lt brnish gy, occ dk brn/blk, lt gy-wh, very soft to soft, amorphous to sub-blocky, 35% siliceous clay, 60% siliceous silt, 5% siliceous sand, trace of pyrite, trace of coal, trace of mica.
3510.0	3515.0	Sst	5		Sandstone, clr-transl, rare wh, lt gy, loose to friable, sub-blocky, sub-angular to rounded, moderately sorted to well sorted, slightly elongated to spherical, 15% siliceous clay, 10% siliceous silt, 75% siliceous sand, 10% very fine grained, 30% fine grained, 55% medium grained, 5% coarse grained, trace of pyrite, 10% porosity, no hydrocarbon show.
3525.0	3530.0	Sst	60		Sandstone, clr-transl, loose to friable, sub-blocky, sub-angular to rounded, moderately sorted, slightly elongated to spherical, 5% siliceous clay, 95% siliceous sand, 15% fine grained, 35% medium grained, 50% coarse grained, trace of pyrite, 20% porosity, no hydrocarbon show.
3525.0	3530.0	Sltst	40	arg	Siltstone, med-lt brnish gy, lt gy-wh, very soft to soft, amorphous to sub-blocky, 35% siliceous clay, 65% siliceous silt, trace of pyrite, trace of coal.