



Basker-4

Date : 15 May 2006

Geology Report Number : 13

(associated DDR # 19)

Well Details

Depth MDRT:	3286.0m	Rig:	OCEAN PATRIOT	Date:	15 May 2006
Depth TVDBRT:	3107.4m	RTE amsl:	21.5m	Report Start:	00:00
Depth TVDSS:	3085.9m	LAT amsl:	154.5m	Report End:	24:00
Progress:	45.0m	Last Csg Size:	13.375in	Days On Location:	17.44
Hole Size:	12.250in	Last Csg. Shoe (TVD):	987.2m	Days since Spud:	77.50
Hole Size Carbide:		Last Csg. Shoe (MD):	998.5m		
		F.I.T. / L.O.T.:	12.50ppg /		

Operations Summary

24hr Summary:	<p>Drilled the interval 3241-3286m MDRT (reached at 0830 hrs). POOH for bit change. Decision made to do a junk run with a mill tooth bit and x2 junk subs.</p> <p>3241 - 3261m MDRT Interbedded Sandstone (loose fine to very coarse), Argillaceous Sandstone (very fine to fine grained), Silty Claystone (gradational to Carbonaceous Claystone) and thin Coal stringers. ROP 3.5 - 40 m/hr 7.5 m/hr average ROP Background gas 0.8%TG</p> <p>Preliminary Top of Zone 1.2 Sandstone reservoir picked at 3261.4m MDRT = 3083mTVDRT.</p> <p>3261 - 3286m MDRT Interbedded Sandstone (loose fine to very coarse), Argillaceous Sandstone (fine to occasionally medium grained), Silty Claystone (gradational to Carbonaceous Claystone) and thin Coal stringers. ROP 1.6 - 35 m/hr 5.6 m/hr average ROP Background gas 0.6%TG</p>
Forward Plan:	Drill with "junk run" assembly from 3286 - 3290m. POOH lay out 2X junk subs, pick up new bit and RIH. Drill ahead 311mm hole.

WBM Data

Mud Type: PHPA/KCL/Glycol	Flowline Temp:	Cl:	45000mg/l	Low Gravity Solids:	Viscosity	65sec/qt
Sample From: Active pit	MWD Circ Temp:	Hard/Ca:	520mg/l	High Gravity Solids:	PV	19cp
Time: 22:00	Glycol CP Temp:	MBT:	4.5	Solids (corrected):	YP	38lb/100ft ²
Weight: 9.40ppg	Glycol: 2.2%vol	PM:	0.3	H2O: 91%	Gels 10s	11
ECD TD:	Nitrates:	PF:	0.05	Oil: 0%	Gels 10m	19
ECD Shoe:	Sulphites:	MF:	0.65	Sand: .25	Fann 003	10
ECD Cuttings:	API FL: 4.8cc/30min	pH:	8.5	Barite:	Fann 006	12
KCl Equiv: 8%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	38
					Fann 200	49
					Fann 300	57
					Fann 600	76

Formation Tops

Formation	Prognosed		Actual		Diff.	Thickness (MD)	Pick Criteria
K2 Sandstone "marker"	2775.00	2591.50	2799.00	2612.30	-20.80	251.00	LWD and Sample
Ma2 Sandstone	3045.00	2857.50	3050.00	2852.00	5.50	134.00	LWD GR-RES
Reservoir Zone 0 Sand	3195.90	2978.00	3184.00	2984.50	-6.50	77.40	LWD GR-RES
Reservoir Zone 1.2 Sand	3262.80	3048.00	3261.40	3061.50	-13.50	0.00	

Oil Shows

From	To	Formation	Lithology	White Light			UV Light			Rating
				Stain	Cut	Residue	Fluor.	Cut Fluor.	Residue	
3230.00m	3245.00m			nil	nil	nil	dull greenish / yellow	slow bluish / green	mod bright bluish / green	fair
3260.00m	3285.00m			nil	nil	nil	mod bright light green	mod bright light green	cream film	fair



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)
3241.00 - 3261.00	Background	0.81	5303	570	306	50	94	76	9.3	17.33	69.78	144	1,659.79
Comment:													
3248.50 -	Peak	6.20	48006	3693	1843	286	498	303	13	26.05	158.44	784	14,324.17
Comment: coal													
3252.00 -	Peak	6.40	46058	3640	1838	274	495	293	12.65	25.06	157.19	769	14,377.41
Comment: coal													
3258.00 -	Peak	2.80	21837	1688	855	135	234	153	12.94	25.54	142.73	369	6,133.12
Comment: coal													
3261.00 - 3286.00	background	0.60	2912	337	203	35	69	68	8.64	14.34	42.82	104	825.88
Comment:													
3268.00 -	Peak	5.40	39046	3520	1744	280	509	326	11.09	22.39	119.77	789	12,740.17
Comment: coal													
3272.50 -	Peak	3.90	198	2577	1083	185	282	188	0.08	0.18	1.05	467	9,091.6
Comment:													
3283.00 -	Peak	2.20	13789	1447	846	142	281	218	9.53	16.3	63.25	423	4,449.26
Comment: Associated with a drilling break. Sandstone from cuttings - no LWD as yet.													

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	
3270.13	4.9	277.1	3091.13	914.1	0.5	-65.7	-911.8	MWD	

06:00 Hrs Update	
Time:	06:00 Hrs on 16 May 2006
Depth:	3290 / 3111.5
Progress Since Midnight:	4
Drilling Status:	POOH with junk sub assembly
Formation:	Latrobe Group below top of Zone 1.2 reservoir
Lithology:	No samples circulated to surface from "junk Run"
ROP:	3.5 - 9 m/hr 5.2 average
Gas:	Background 0.5% C1 4028 ppm, C2 228 ppm, C3 166 ppm, IC4 29 ppm, NC4 52 ppm, C5 45 ppm Trip Gas from 3286m 1.4% C1 9376 ppm, C2 878 ppm, C3 411 ppm, IC4 57 ppm, NC4 105 ppm, C5 80 ppm.

Wellsite Geologist(s)	
(Days) - Mike Woodmansee	(Nights) - Stuart Duff

Lithology Report					
Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
2960.0	2965.0	Clyst	40	slyt	Claystone, lt - med brnsh gy, very soft to soft, sub-blocky to amorphous, 25% siliceous clay, 75% siliceous silt, 5% coal.
3235.0	3240.0	Clyst	80	slyt	Claystone, medium to dark greyish brown, soft to firm, sub-blocky to amorphous, 70% siliceous clay, 30% siliceous silt, 4% coal, trace of pyrite.
3240.0	3245.0	Sst	15	arg	Sandstone, lt olive gy to light and medium shades of brownish grey, very soft to friable, sub-blocky to amorphous, sub-angular to rounded, to well sorted, slightly elongated to slightly spherical, 30% siliceous clay, 15% siliceous silt, 55% siliceous sand, 60% very fine grained, 40% fine grained, 2% coal, trace of pyrite, 10% porosity, hydrocarbon show.
3250.0	3255.0	Sst	30		Sandstone, clr-transl quartz grains, loose, sub-angular to sub-rounded, to moderately sorted, elongated to slightly spherical, 10% siliceous clay, 90% siliceous sand, 10% fine grained, 70% medium grained, 20% coarse grained, 0.2% pyrite cement, trace of pyrite, 20% porosity.
3265.0	3270.0	Clyst	10	carb	Claystone, dk gy/brn, to brnsh/blk, soft to friable, sub-blocky to sub-fissile, 60% siliceous clay, 40% siliceous silt, 4% coal, trace of pyrite.
3270.0	3275.0	Sst	30		Sandstone, wh, clr-transl, loose, sub-angular to rounded, to moderately sorted, elongated to slightly spherical, 5% siliceous clay, 95% siliceous sand, 40% medium grained, 55% coarse grained, 5% very coarse grained, 0.2% pyrite cement, trace of pyrite, 20%



Lithology Report					
Depth Interval		Main Lithology	Lithology %	Qualifier	Description
Depth (mRT)	Depth Range				
					porosity, no hydrocarbon show.
3275.0	3280.0	C	5		Coal, blk vitreous, firm, sub-blocky, trace of pyrite.
3280.0	3285.0	Sst	58		Sandstone, wh, clr-transl, loose to friable, sub-angular to sub-rounded, to well sorted, elongated to slightly spherical, 10% siliceous clay, 90% siliceous sand, 40% medium grained, 50% coarse grained, 10% very coarse grained, trace of pyrite cement, trace of pyrite, 20% porosity.