Anzon Australia LIMITED

# Basker-3

**Date : 12 Apr 2006** | **Geology Report Number : 11** | ( associated DDR # 16 )

## Well Details

| | | | | | |
|---|---|---|---|---|---|
| Depth MDRT: | 3101.0m | Rig: | OCEAN PATRIOT | Date: | 12 Apr 2006 |
| Depth TVDBRT: | 2467.0m | RTE amsl: | 21.5m | Report Start: | 00:00 |
| Depth TVDSS: | 2445.5m | LAT amsl: | 152.9m | Report End: | 24:00 |
| Progress: | 132.0m | Last Csg Size: | 13.375in | Days On Location: | 14.27 |
| Hole Size: | 12.250in | Last Csg Shoe: | 999.1m | Days since Spud: | 42.81 |
| Hole Size Carbide: | | F.I.T. / L.O.T.: | 12.50ppg / | | |

## Operations Summary

| | |
|---|---|
| 24hr Summary: | Ran in hole with Geo-Pilot assembly and PDC bit. Drilled ahead 311 mm (12 1/4") hole in Latrobe Group from 2969.0 mMDRT to 3101.0 mMDRT in interbedded Silty Claystone, Sandstone and Siltstone.<br><br>2969.0 - 2987.0 mMDRT<br>Massive Claystone<br>ROP = 4.0 - 42.0 m/hr<br>Average = 25.0 m/hr<br>Background Gas = 0.15 %<br><br>2987.0 - 3101.0 mMDRT<br>Interbedded Sandstone, Siltstone and Claystone<br>ROP = 5.0 - 50.0 m/hr<br>Average = 11.0 m/hr<br>Background Gas = 0.1 % |
| Forward Plan: | Drill ahead to 9 5/8" casing point. |

## WBM Data

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mud Type: | KCL/PHPA/Glycol | Flowline Temp: | | Cl: | 40000mg/l | Low Gravity Solids: | | Viscosity | 64sec/qt |
| Sample From: | Active pit | MWD Circ Temp: | | Hard/Ca: | 280mg/l | High Gravity Solids: | | PV | 20cp |
| Time: | 21:30 | Glycol CP Temp: | | MBT: | 7.5 | Solids (corrected): | | YP | 38lb/100ft² |
| Weight: | 9.60ppg | Glycol: | 3.5%vol | PM: | 0.4 | H2O: | 91% | Gels 10s | 13 |
| ECD TD: | | Nitrates: | | PF: | 0.75 | Oil: | 0% | Gels 10m | 23 |
| ECD Shoe: | | Sulphites: | | MF: | 0.6 | Sand: | .5 | Fann 003 | 12 |
| ECD Cuttings: | | API FL: | 4.0cc/30min | pH: | 9 | Barite: | | Fann 006 | 15 |
| KCl Equiv: | 8% | API Cake: | 1/32nd" | PHPA Excess: | | | | Fann 100 | 30 |
| | | | | | | | | Fann 200 | 38 |
| | | | | | | | | Fann 300 | 58 |
| | | | | | | | | Fann 600 | 78 |

## Formation Tops

| Formation | Prognosed | | Actual | | Diff. | Thickness MD | Pick Criteria |
|---|---|---|---|---|---|---|---|
| | MDRT | TVDSS | MDRT | TVDSS | + / - TVD | | |
| 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 | 0.00m | Cuttings and LWD |
| K2 Sst. Marker | 3335.00m | 2620.00m | | | | | |
| Ma2 Sandstone | 3640.00m | 2860.00m | | | | | |
| 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 | | | | | |


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| 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) |
| 2969.00 - 2987.00 | Background | 0.15 | 1032 | 71 | 37 | 14 | 24 | 45 | 14.54 | 27.89 | 22.93 | 38 | 91.2 |
| Comment: | | | | | | | | | | | | | |
| 2987.00 - 3101.00 | Background | 0.10 | 1054 | 65 | 30 | 10 | 20 | 40 | 16.22 | 35.13 | 26.35 | 30 | 71.25 |
| Comment: | | | | | | | | | | | | | |

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

| 06:00 Hrs Update | |
|---|---|
| Time: | 06:00 Hrs on 13 Apr 2006 |
| Depth: | 3125/2485.6 |
| Progress Since Midnight: | 24 |
| Drilling Status: | Drilling ahead 311mm (12 1/4") hole at 3125m MDRT |
| Formation: | Latrobe Group |
| Lithology: | Interbedded Sandstone, Siltstone and Claystone with minor pyrite/glauconite stringers |
| ROP: | ROP = 1.0 - 56.0 m/hr<br>Average = 9.0 m/hr |
| Gas: | Background Gas = 0.1 % |

| 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 | slty | Claystone, olv gy, rare brnish gy, very soft, amorphous, 70% siliceous clay, 30% siliceous silt, trace of pyrite, trace of glauconite, trace of coal. |
| 2975.0 | 2980.0 | Sst | 30 | | Sandstone, clr-transl, rare grn stained grains, loose, angular to sub-rounded, poor sorted , 100% siliceous sand, 10% very fine grained, 25% fine grained, 40% medium grained, 20% coarse grained, 5% very coarse grained, trace of pyrite cement, trace of pyrite, 15% porosity, no hydrocarbon show. |
| 2975.0 | 2980.0 | Clyst | 70 | slty | Claystone, olv gy, rare brnish gy, very soft, amorphous, 55% siliceous clay, 40% siliceous silt, 5% siliceous sand, trace of pyrite, trace of glauconite, trace of coal. |
| 3025.0 | 3030.0 | Clyst | 20 | slty | Claystone, olv gy, soft to firm, sub-blocky to blocky, 5% calcareous clay, 75% siliceous clay, 20% siliceous silt, trace of pyrite, 0.3% glauconite, trace of coal. |
| 3025.0 | 3030.0 | Sltst | 5 | | Siltstone, brnish gy, very soft to friable, sub-blocky, 10% siliceous clay, 85% siliceous silt, 5% siliceous sand, trace of pyrite, 0.5% glauconite, trace of coal, trace of mica. |
| 3025.0 | 3030.0 | Sst | 75 | | Sandstone, clr-transl, rare grn stained grains, loose, angular to well rounded, moderately sorted , spherical to elongated, 100% siliceous sand, 30% fine grained, 55% medium grained, 10% coarse grained, 5% very coarse grained, trace of pyrite cement, trace of pyrite, 18% porosity, no hydrocarbon show. |
| 3080.0 | 3085.0 | Sst | 20 | | Sandstone, clr-transl, loose, sub-rounded to well rounded, moderately sorted , spherical to slightly elongated, 5% siliceous clay, 95% siliceous sand, 25% very fine grained, 30% fine grained, 40% medium grained, 5% coarse grained, trace of pyrite, 15% porosity, no hydrocarbon show. |
| 3080.0 | 3085.0 | Clyst | 80 | | Claystone, olv gy, lt brnish gy, mott grn/lt brn, mott grn/olv gy, very soft to soft, amorphous to dispersive, 98% siliceous clay, 2% siliceous silt, trace of pyrite, 1% glauconite. |
| 3095.0 | 3100.0 | Clyst | 60 | | Claystone, olv gy, lt brnish gy, mott grn/lt brn, mott grn/olv gy, very soft to soft, amorphous to dispersive, 90% siliceous clay, 10% siliceous silt, trace of pyrite cement, trace of pyrite, 1% glauconite. |
| 3095.0 | 3100.0 | Sltst | 40 | glc | Siltstone, brnish gy, occ mottld grnish-brn, firm to moderately hard, sub-blocky to massive, 20% siliceous clay, 80% siliceous silt, trace of pyrite cement, trace of pyrite, 20% glauconite, trace of lithic fragments. |
| 3100.0 | 3105.0 | Sst | 100 | | Sandstone, clr-transl, occ wh, occ grn, loose to hard, massive, sub-angular to sub-rounded, poor sorted to moderately sorted, slightly elongated to slightly spherical, 5% siliceous clay, 10% siliceous silt, 85% siliceous sand, 25% very fine grained, 30% fine grained, 40% medium grained, 5% coarse grained, trace of pyrite cement, trace of pyrite, 1% glauconite, 20% porosity, no hydrocarbon show. |
| 3105.0 | 3110.0 | Sst | 100 | | Sandstone, clr-transl, occ wh, occ grn, loose to hard, massive, sub-angular to sub-rounded, poor sorted to moderately sorted, slightly elongated to slightly spherical, 5% siliceous clay, 10% siliceous silt, 85% siliceous sand, 40% very fine grained, 30% fine grained, 25% medium grained, 5% coarse grained, trace of pyrite cement, trace of pyrite, trace of glauconite, 20% porosity, no hydrocarbon show. |