



## DAILY GEOLOGICAL REPORT

**WELL:** Shenandoah #1    **REPORT No.:** 45    **DAYS FROM SPUD:** 45    **DATE:** 14/09/07  
**PEL:** EP 98    **00:00 DEPTH:** 1555mKB    **LAST 24hr DEPTH:** 1555mKB    **24 hr Progress:** 0m  
**LOCATION:** Beetaloo Basin    **RIG:** Century Rig 7    **KB:** (Final Survey) 232.55m    **13 3/8" Csg:** 312.11m  
**GEOLOGIST:** M. Berry    **GL:** (Final Survey) 226.75m    **PTD:** 2,900m

**NEARBY WELLS:** Balmain #1 (Twin)

**06:00 Depth/Operation:** 1555mKB / Rig up Schlumberger .

**Operations 00:00 to 06:00:** POOH for logging run number 3.

**Previous 24 Hours Operations:** Following the wireline log acquisition, RIH, circulate and condition the mud and ream to bottom. POOH to do logging run 3 to acquire logs over the bottom 80m of open hole.

| Formation Tops            | Actual Depths (m) |       |        | Prognosed Depths (m) |        |         | Diff to Prog.<br>H/L | Thickness<br>(m) |
|---------------------------|-------------------|-------|--------|----------------------|--------|---------|----------------------|------------------|
|                           | MDKB              | TVD   | TVDSS  | MDKB                 | TVD    | TVDSS   |                      |                  |
| Undifferentiated Tertiary | 5.8               | 5.8   | +227   | 5.8                  | 5.8    | +227    | -                    | 45.7             |
| Jinduckin Formation       | 51.5              | 51.5  | +181.3 | 54.8                 | 54.8   | +178    | 3.3H                 | 32.7             |
| Tindall Limestone         | 84.2              | 84.2  | +148.6 | 83.8                 | 83.8   | +149    | 0.4L                 | 179.3            |
| Antrim Volcanics          | 263.5             | 263.5 | -31.0  | 265.3                | 265.3  | -32.5   | 1.5H                 | 84.0             |
| Bukalara Sandstone        | 347.5             | 347.5 | -115.0 | 348.3                | 348.3  | -115.5  | 0.5H                 | 58.0             |
| Hayfield Mudstone         | 405.5             | 405.5 | -173.0 | 406.3                | 406.3  | -173.5  | 0.5H                 | 374.5            |
| Hayfield Sand             | 780.0             | 780.0 | -547.5 | 782.2                | 782.2  | -549.4  | 1.9H                 | (10.0)           |
| Jamison Sandstone         | 856.0             | 856.0 | -623.5 | 856.3                | 856.3  | -623.5  | 0                    | 83.5             |
| Kyalla Formation          | 939.5             | 939.5 | -707.0 | 940.8                | 940.8  | -708.0  | 1.0H                 |                  |
| Moroak Sandstone          |                   |       |        | 1551.8               | 1551.8 | -1319   |                      |                  |
| Velkerri Formation        |                   |       |        | 1641.8               | 1641.8 | -1409   |                      |                  |
| Bessie Creek Sandstone    |                   |       |        | 2481.8               | 2481.8 | -2249   |                      |                  |
| Total Depth               |                   |       |        | 2900.0               | 2900.0 | -2667.2 |                      |                  |

**Remarks:** Highlighted tops are from Wireline logs. Trip Gas at 1500m = 114.7 units.

C1 = 13,895ppm, C2 = 2,968ppm, C3 = 927ppm, iC4 = 84ppm, nC4 = 179ppm, iC5 = 30ppm, nC5 = 11ppm.

| Interval (m)<br>ROP (min/m) | Lithology Description | Gas/B'ground<br>Breakdown<br>C1/C2/C3/C4/C5 |
|-----------------------------|-----------------------|---|
|-----------------------------|-----------------------|---|

**Formation: No New Formation Penetrated**

|                     |     | TG @ 1500m=<br>114.7 units |
|---------------------|-----|----------------------------|
| <b>Fluorescence</b> | Nil |                            |
| <b>Gas Flaring</b>  | Nil |                            |