



## DAILY GEOLOGICAL REPORT

**WELL:** Shenandoah #1    **REPORT No.:** 13    **DAYS FROM SPUD:** 13    **DATE:** 13/08/07  
**PEL:** EP 98    **00:00 DEPTH:** 217mKB    **LAST 24hr DEPTH:** 217mKB    **PROGRESS:** 0m  
**LOCATION:** Beetaloo Basin    **RIG:** Century Rig 7    **KB:** (Final Survey) 232.55m    **9 5/8" Csg:** m  
**GEOLOGIST:** M. D. Berry    **GL:** (Final Survey) 226.75m    **PTD:** 2,900m

**NEARBY WELLS:** Balmain #1

**06:00 Depth/Operation:** **217mKB** / After pumping the remaining mud into the hole, we are currently sitting at the shoe waiting for water so that we can circulate and ream to bottom in order to drill ahead.

**Operations 00:00 to 06:00:** RIH but could not get to bottom. POOH.

**Previous 24 Hours Operations:** POOH working tight hole. Continue to lay out DC's. Repair drum clutch and continue to POOH laying out 6 1/4" DC's. POOH with stabilisers, bit sub and 17 1/2" bit at 2:30pm. Clean and clear rig floor. Remove first section of blooie line and cut 20" conductor pipe. Pick up, install and weld riser to 20" conductor pipe. Install flow line. Pick up magnet, M/U BHA and HWDP and RIH to do a magnet run.

| Formation Tops            | Actual Depths (m) |      |        | Prognosed Depths (m) |        |         | Diff to Prog.<br>H/L | Diff to Balmain<br>H/L |
|---------------------------|-------------------|------|--------|----------------------|--------|---------|----------------------|------------------------|
|                           | MDKB              | TVD  | TVDSS  | MDKB                 | TVD    | TVDSS   |                      |                        |
| Undifferentiated Tertiary | 5.8               | 5.8  | +227   | 5.8                  | 5.8    | +227    | -                    | -                      |
| Jinduckin Formation       | 51.5              | 51.5 | +181.3 | 54.8                 | 54.8   | +178    | +3.3                 | +3.3                   |
| Tindall Limestone         | 84.2              | 84.2 | +148.6 | 83.8                 | 83.8   | +149    | -0.4                 | -0.4                   |
| Antrim Volcanics          |                   |      |        | 265.3                | 265.3  | -32.5   |                      |                        |
| Bukalara Sandstone        |                   |      |        | 348.3                | 348.3  | -115.5  |                      |                        |
| Hayfield Mudstone         |                   |      |        | 406.3                | 406.3  | -173.5  |                      |                        |
| Hayfield Sand             |                   |      |        | 782.2                | 782.2  | -549.4  |                      |                        |
| Jamison Sandstone         |                   |      |        | 856.3                | 856.3  | -623.5  |                      |                        |
| Kyalla Formation          |                   |      |        | 940.8                | 940.8  | -708    |                      |                        |
| 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 |                      |                        |

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

**Formation:**

|                     |  |  |
|---------------------|--|--|
|                     |  |  |
| <b>Fluorescence</b> |  |  |
| <b>Gas Flaring</b>  |  |  |