



## DAILY GEOLOGICAL REPORT

**WELL:** Shenandoah #1      **REPORT No.:** 20      **DAYS FROM SPUD:** 20      **DATE:** 20/08/07  
**PEL:** EP 98      **00:00 DEPTH:** 328mKB      **LAST 24hr DEPTH:** 328mKB      **24 hr Progress:** 0m  
**LOCATION:** Beetaloo Basin      **RIG:** Century Rig 7      **KB:** (Final Survey) 232.55m      **13 3/8" Csg:** 323.15m  
**GEOLOGIST:** J Hulse      **GL:** (Final Survey) 226.75m      **PTD:** 2,900m

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

**06:00 Depth/Operation:** 328mKB / R/U BOP, wait for components  
**Operations 00:00 to 06:00:** Preparing BOP closing unit  
**Previous 24 Hours Operations:** Cut conductor, slack off casing, top up cement, start N/U BOP, second top up job.

| 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          | 263.0             | 263.0 | -30.5  | 265.3                | 265.3  | -32.5   | -2.0                 | -2.0                   |
| 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 |                      |                        |

**Remarks:** No new formation penetrated. Contacted Schlumberger about availability of formation fluid sampling and pressure tool (MDT), awaiting response.

| Interval (m)<br>ROP (min/m) | Lithology Description   | Gas/Background<br>Breakdown<br>C1/C2/C3/C4/C5 |
|-----------------------------|-------------------------|---|
| <b>Formation:</b>           |                         |   |
|                             | <b>NO NEW FORMATION</b> | Nil   |
| <b>Fluorescence</b>         | Nil                     |   |
| <b>Gas Flaring</b>          | Nil                     |   |

### 06:00 SUMMARY

**Formation:** Antrim Volcanics

| Interval (m)<br>ROP (min/m) | Lithology Description | Gas/Background<br>Breakdown<br>C1/C2/C3/C4/C5 |
|-----------------------------|-----------------------|---|
| <b>NO NEW FORMATION</b>     |                       |   |
|                             |                       | Nil   |
| <b>Fluorescence</b>         | Nil                   |   |
| <b>Gas Flaring</b>          | Nil                   |   |