

## GEOLOGICAL-ENGINEERING REPORT No.4 cont'd ....

HOLE CONDITION

The hole condition over the interval 2186m - 2788m (7173'-9149') was generally very good with carbide and other lag data indicating an average hole diameter of 13.3". Minor drag of up to 20 klbs was noted on most trips out from 2310m to 2255m (7578'-7398'), possibly due to a fracture within the gabbro.

PORE PRESSURE

The formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQMW. No indicators of abnormal pore pressure were detected in this interval. The mud density while drilling was 9.2-9.6 ppg which gives an overbalance of 300psi at 2788m (9149').

Lithology Summary : Tilana No.1

| Depth (m)<br>Interval | Lithology   | ROP (ft/hr) |     | GAS (units) |       |
|-----------------------|---|-------------|-----|-------------|-------|
|                       |   | max         | avg | max         | avg   |
| 2186 - 2260           | Gabbro  | 50          | 15  | 4           | Trace |
| 2260 - 2298           | Claystone with siltstone sandstone and minor coal     | 50          | 25  | 21          | Trace |
| 2298 - 2319           | Siltstone and sandstone                               | 400         | 50  | 9           | 1     |
| 2319 - 2325           | Coal  | 100         | 75  | 440         | 300   |
| 2325 - 2434           | Siltstone with sandstone and coal.                    | 65          | 15  | 62          | 1-2   |
| 2434 - 2614           | Claystone and siltstone with sandstone and coal       | 100         | 10  | 70          | 1-2   |
| 2614 - 2788           | Siltstone and sandstone with minor claystone and coal | 120         | 15  | 25          | 0.5-2 |

No hydrocarbon shows were recorded with all the gas peaks being due to coals.