

# RANGER WELL NO. 17

## PROPOSED MUD PROGRAM SUMMARY

| DEPTH           | MUD WEIGHT    | VISCOSITY         | FLUID LOSS    | % SOLIDS | COMMENTS                         |
|-----------------|---------------|-------------------|---------------|----------|----------------------------------|
| Surf - 400'     | 8.5-9.1 ppg   | 34-38 sec/1000 cc | No Control    | ---      | Spud Mud                         |
| 400' - 2000'    | 8.6-8.8 ppg   | 32-34 sec/1000 cc | No Control    | ---      | Fresh Water / Native Mud         |
| 2000' - 4200'   | 10.0-10.2 ppg | 30-33 sec/1000 cc | No Control    | ---      | Brine Water / Magma Fiber Sweeps |
| 4200' - 7600'   | 8.6-8.8 ppg   | 28-29 sec/1000 cc | No Control    | ---      | Fresh Water / Magma Fiber Sweeps |
| 7600' - 7900'   | 8.7-8.9 ppg   | 30-34 sec/1000 cc | No Control    | < 2      | Cut Brine / MF-55                |
| 7900' - 9000'   | 8.7-8.9 ppg   | 30-32 sec/1000 cc | No Control    | < 2      | Cut Brine / MF-55                |
| 9000' - 12800'  | 8.7-8.9 ppg   | 30-32 sec/1000 cc | 15 cc or less | < 2      | Cut Brine / MF-55 / Drispac+     |
| 12800' - 13800' | 8.8-9.0 ppg   | 36-40 sec/1000 cc | 10 cc or less | < 2      | Cut Brine / MF-55 / Drispac+     |
| 13800' - 16500' | 8.4-8.6 ppg   | 29-32 sec/1000 cc | 20 cc or less | < 2      | Fresh Water / MF-55 / Drispac+   |