

**POINT 5: MUD PROGRAM**

| DEPTH         | MUD TYPE    | WEIGHT    | FV    | PV | YP | FL      | Ph       |
|---------------|-------------|-----------|-------|----|----|---------|----------|
| 0' - 775'     | FW Spud Mud | 8.5 - 9.2 | 45-35 | NC | NC | NC      | NC       |
| 775' - 5600'  | Brine Water | 9.8 -10.0 | 29-30 | NC | NC | NC      | 10       |
| 5600' - 7680' | **          | 8.9 - 9.3 | 36-40 | 15 | 10 | <100 cc | 9.5 - 10 |
| 7680' - TD    | **          | 8.9 - 9.3 | 36-45 | 15 | 10 | <100 cc | 9.5 - 10 |

\*\* 35% diesel/65% brine emulsion

*\*Will increase vis for logging purposes only.***POINT 6: TECHNICAL STAGES OF OPERATION****A) TESTING**

None anticipated.

**B) LOGGING**

GR-CNL-LDT-AIT from TD to 8-5/8" casing shoe.

GR-CNL from base of 8-5/8" casing to surface.

**C) CONVENTIONAL CORING**

None anticipated.

**D) CEMENT**

| INTERVAL                                          | AMOUNT SXS | FT OF FILL | TYPE                                           | GALS/SX | PPG  | FT <sup>3</sup> /SX |
|---------------------------------------------------|------------|------------|------------------------------------------------|---------|------|---------------------|
| SURFACE:                                          |            |            |                                                |         |      |                     |
| Lead 0 - 475'<br>(100% excess<br>circ to surface) | 130        | 475        | Pernian Basin Critical Zone<br>+ ¼ pps Flocele | 10.33   | 12.8 | 1.87                |
| Tail 475-775'<br>(100% excess<br>circ to surface) | 135        | 300        | Prem Plus + 2% CaCl <sub>2</sub>               | 5.38    | 14.8 | 1.15                |

PRODUCTION: Single stage w/ Zone Seal Cement.

3300' - 7880' (+ 50% excess)

|               |     |      |                                   |      |      |      |
|---------------|-----|------|-----------------------------------|------|------|------|
| Base Slurry   | 700 | 5690 | Premium Plus + 2% Zone Seal       | 6.73 | 14.5 | 1.38 |
| Consisting of |     | 2190 | Base Slurry +<br>300 SCF/Nitrogen | 6.32 | 5.5  | 2.64 |
|               |     | 1500 | Base Slurry +<br>400 SCF/Nitrogen | 6.32 | 8.9  | 2.01 |
|               |     | 2000 | Base Slurry +<br>225 SCF/Nitrogen | 6.32 | 12.0 | 1.62 |

**E) DIRECTIONAL DRILLING**

No directional services anticipated.