

**CASING AND CEMENT PROGRAM:**

The casing and cementing programs are detailed on Form 3160-3. All casing will be new.

**Centralizer Program:**

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Production Casing - Centralize every other joint on bottom 600'.

**MUD PROGRAM:**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>
0'-450'	Fresh Water	8.4	28
450'-3350'	Brine	10.0	29

Bottom Hole Pressure at T.D. estimated to be 6.0 PPG EMW. (1045 PSI)

**LOGGING, TESTING:**

NGT-CNL-LDT, GR-DLL-MSFL, and GR-BHC surveys will be run.

No Mud Logging Unit will be used.

No drill stem tests will be conducted.

No cores will be taken.