

5. Minimum Specifications for Pressure Control:

6 1/2" Hole - The following BOP equipment will be nipped up on the 7" casing and used continuously until TD is reached.

The blowout preventer equipment (BOP) shown in Exhibit "E" will consist of a 3000 psi WP double ram type preventer and a 3M annular (bag type) preventer with rotating head.

BLM method to calculate minimum BOP requirements:

$$(.052)(8.4 \text{ ppg})(3257') - (0.22 \text{ psi/ft})(3257') = 672 \text{ psi}$$

Minimum BOP requirements: 2M BOP stack and manifold system

6. Proposed Mud System:

The well will be drilled to TD with a combination of fresh water and 10# brine. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec)</u>	<u>Water Loss cc</u>
2850'-3257'	Fresh water	8.4	28	NC

Sufficient mud materials to maintain mud properties and meet minimum lost circulation requirements will be kept at the well site at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A kelly cock will be kept in the string at all times.
- A full opening drill pipe stabbing valve (TIW/inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- An electronic pit volume totalizer system will NOT be used. The drilling fluids system will be visually monitored at all times.

8. Logging, Testing and Coring Programs:

- The cased hole electric logging program will consist of:  
GR-CNL-CDL-Cal - TD-2200'
- No cores are planned.
- Further testing procedures will be determined after the 4 1/2" casing has been cemented at TD.