

400 sacks of Class "C" with 2% CaCl. Cement to circulate.

8-5/8" casing will be cemented with sufficient Light cement, tailed in with 300 sacks of Class "C", to circulate.

5-1/2" casing will be cemented with 300 sacks of Light cement tailed in with 300 sacks of Class "H".

Cement quantities and additives may be varied to best suit hole conditions when casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 12-1/4" hole will be 2000psi working pressure.

While drilling below the 8-5/8" casing shoe, the blowout preventer stack will consist of a double ram type, 5000 psi working pressure preventer and choke manifold and a 3000 psi annular type preventer.

A sketch of the BOP stack is attached.

6. CIRCULATING MEDIUM:

Surface to 400 feet: Fresh water with gel or lime as needed for viscosity control.

400 feet to 5200 feet: Brine water with salt gel or lime as needed for viscosity control.

5200 feet to 12,000 feet: Cut brine. Additives as necessary for control of pH, viscosity, and weight.

12,000 feet to Total Depth: Water base drilling fluid conditioned as necessary for control of viscosity and water-loss. Weighted as necessary for well control.

7. AUXILIARY EQUIPMENT:

Drill string safety valves will be maintained on the rig floor in the open position while drilling operations are in progress.