

quantity to circulate the liner.

Cement quantities and additives will be determined when casing is run to best suit hole conditions.

5. PRESSURE CONTROL EQUIPMENT:

Blowout preventer stack will be a 5000 psi working pressure stack while drilling to the 9-5/8" casing point.

Blowout preventer stack will be a 10,000 psi working pressure stack while drilling below the 9-5/8" casing point.

A sketch of the BOP stack is attached.

A rotating head on top of the annular preventer will be used while drilling the lower part of the hole.

6. CIRCULATING MEDIUM:

Surface to 500 feet: Fresh water with gel or lime as needed for viscosity control.

500 to 5100 feet: Brine water with salt gel as needed for viscosity control and lime as needed for pH control.

5100 to 12,200 feet: Controlled brine treated as necessary for control of pH, viscosity and mud solids.

12,200 to 16,500 feet: Oil mud weighted as necessary for well control.

Alternate: Benex type drilling medium treated as necessary for viscosity and water-loss control. Weighted as necessary for well control.

16,500 to 18,300 feet: Water base drilling fluid conditioned as required for viscosity and water-loss 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.

A mud logger will be in use from 4800' to total depth.