

8-5/8" casing will be cemented with 300 sacks of BJ Surefill plus 830 sacks of BJ Lite plus 200 sacks of Class "C". Cement to circulate.

5-1/2" casing will be cemented with 675 sacks of Class "H" cement with 2% KCl and necessary additives to reduce water-loss and retard cement setting time.

Cement quantities and additives may be varied to best suit well conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Blowout preventer equipment will consist of 5000 psi working pressure, double ram preventers and choke manifold and a 3000 psi working pressure annular type preventer.

A sketch of the BOP stack is attached.

6. CIRCULATING MEDIUM:

Surface to 450 feet: Fresh water with gel or lime as needed for viscosity control.

400 feet to 8000 feet: Fresh water treated as necessary for control of viscosity, pH, and seepage.

8000 feet to 9000 feet: Cut brine-KCl fluid treated as necessary for control of viscosity, pH, and weight.

9000 feet to 10,500 feet: Brine-Polymer-KCl fluid treated as necessary for viscosity and 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.

Mud logging equipment will be in use while drilling below the 8-5/8" casing.