

5-1/2" casing will be cemented with 400 sacks of "Light" with 0.6% Halad 22, 1/4# flocele and 5% KCl mix, tailed in with 400 sacks of Class "C" with 0.8% Halad 22.

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

5. PRESSURE CONTROL EQUIPMENT:

Blowout preventer stack will be a 3000 psi working pressure stack while drilling the 12-1/4" hole.

Blowout preventer stack will be a 5000 psi working pressure stack while drilling the 7-7/8" hole.

Sketches of BOP equipment are attached.

6. CIRCULATING MEDIUM:

Surface to 1320 feet; Fresh water with gel or lime as needed for viscosity control.

1320 feet to 5250 feet; Brine with salt gel or lime as needed for viscosity control.

5250 feet to 10,600 feet; Water with additives as necessary for control of pH, viscosity, and weight.

10,600 feet to 13,800 feet; 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.

8. TESTING, LOGGING AND CORING PROGRAMS:

Drill stem tests will be made samples, drilling time and other data indicate a test is warranted.

It is planned that electric logs will include a CNL-FDC with Gamma Ray and Dual Laterolog-Micro SFL.

No coring is planned.