

of light cement followed by 400 sacks of premium cement. Cement to tie back 200 feet into the 8-5/8" casing.

If, during drilling operations, need for stage cementing of casing is indicated, staging tool(s) will be run and positioned to best suit hole conditions at time casing is run.

Cement volumes may be adjusted and cement may have lost circulation and/or other additives depending on hole conditions at the time casing is run.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling the 11" hole, will be either a 3000 psi working pressure double ram type preventer or a 3000 psi working pressure annular type preventer.

Blow out prevention equipment, while drilling below the 8-5/8" casing seat, will be a 3000 psi working pressure BOP stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 800 feet: Fresh water base fluid with gel and paper sweeps for hole cleaning.
Mud wgt 8.4 ppg - 8.6 ppg
Viscosity 28 - 32 seconds per quart.

800 feet to 4600 feet: Brine water base fluid with salt gel and paper sweeps for hole cleaning.
Mud wgt 10.0 ppg - 10.2 ppg
Viscosity 28 - 32 seconds per quart.

4600 feet to T.D.: Fresh water base fluid with gel and paper sweeps for hole cleaning.
Mud wgt 8.4 ppg - 8.6 ppg
Viscosity 28 - 32 seconds per quart.

7. AUXILIARY EQUIPMENT:

A mud logging trailer will be in use while drilling below the interdediate casing.