

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below surface casing will be a 1500 psi working pressure stack, and below the 9.625" casing will be a 3000 psi working pressure BOP stack. The BOP sketches are shown as Exhibits 1 & 1A.

6. CIRCULATING MEDIUM:

Surface to 450' : Fresh water spud mud - Viscosity 34 to 36 as required for hole cleaning, 8.8-9.0#/gal.
450' to 1650' : Fresh water with lost circulation material as required, 28-29 viscosity, pH 9-10, weight 8.4-9.2#/gal
1650' to 9000' : Drill out with cut brine system circulating reserve pit. Weight 8.7-9.2#, pH 9-10 (control with lime).
9000' to TD : Brine/polymer. 28-40 viscosity, 9.2-11 wt. 10-20 cc or less water loss.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. A kelly cock will be used.
- B. A full-opening stabbing valve with proper drill pipe connections will be on the rig floor at all times.
- C. The drilling fluids system will be visually monitored at all times.
- D. A mud-logging unit will monitor drilling penetration rate and hydrocarbon shows from 1500'.

8. TESTING, LOGGING, AND CORING PROGRAMS:

- A. Two drill stem tests are planned.
- B. Compensated Neutron/LDT Log - GR and Dual Laterolog w/ MSFL. The Gamma Ray log will be continued back to surface.
- C. Mud-logging unit will be used below 1500'.
- D. No cores anticipated.
- E. Other testing procedures may be used after the production casing has been set depending on shows and other testing indicators.