

6. CIRCULATING MEDIUM:

Surface to 375' : Fresh water spud mud - Viscosity 30 to 36 as required for hole cleaning.  
500' to 3500' : Fresh water/cut brine base drilling fluid conditioned as necessary for control of viscosity, pH, and water loss. Wt 9.4-10#, pH 9-10, vis. 38-45, filtrate 6-15.  
3500' to TD : Water based drilling fluid conditioned as necessary for control of viscosity, pH, and water loss, weighted as necessary for well control. (10.5 # mud). *(SS)*

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 geograph will be in use from surface to total depth.
- B. The drilling fluids system will be visually monitored at all times with PVT and Flosko below intermediate casing.
- C. Drill cuttings analysis equipment will be in use below the surface casing with a mud logger below 4600'.

8. TESTING, LOGGING, AND CORING PROGRAMS:

- A. Drill stem tests will be made if samples and other data indicate a test is warranted.
- B. Compensated Neutron/LDT Log - GR and Dual Laterolog w/ MSFL. The Gamma Ray/CNL log will be continued back to surface.
- C. No coring is anticipated.
- D. Other testing procedures may be used after the production casing has been set depending on shows and other testing indicators.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES, & POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 200 F and the estimated maximum bottom hole pressure (BHP) is about 5800 psi. No hydrogen sulphide (H<sub>2</sub>S) or other hazardous fluids are known to exist at this depth and area. No lost circulation zones are anticipated. (BHP in Strawn & Atoka @ ~12000' is approx. 6400 psi) *(SS)*

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

It is planned that operations will commence shortly after approval of this application, with drilling and completion operations lasting about 30 days. A decision as to design and installation of permanent facilities will be made after adequate testing of the well.