

5. Circulating Medium and Control Equipment:

- 0-300' Drill 17½" hole with fresh water spud mud, while circulating through a small portion of the lined reserve pit. Mud weight 8.6-9.2 PPG with 35-85 sec/1000 cc viscosity.
- 300-1700' Drill 11" hole with brine water, while circulating through a controlled portion of the lined reserve pit. Mud weight 9.0-10.0 PPG with 28-32 sec/1000 cc viscosity.
- 1700-6000' Drill 7-7/8" hole with fresh water while circulating through reserve pit. At 6000', will return to steel pits and utilize pit level indicator, pit volume totalizer and flowline sensor to monitor drilling operations. Will install automatic drilling choke and mud-gas separator for well control. Mud weight 8.5-9.0 PPG with 28-36 sec/1000 cc viscosity.
- 6000-9500' Start adding brine water, while circulating through steel pits. Mud weight 9.0-9.5 PPG with 28-36 sec/1000 cc viscosity.

BOP hookup, choke, kill, and fill line assembly are indicated on Exhibit VI. BOPs will be tested by an independent testing company prior to drilling below the top of the Wolfcamp. Kelly cock, safety valve, choke, and kill lines will be tested at same time that BOP tests are run. A full opening safety valve and inside BOP, threaded to fit the drill string in use, will be kept on rig floor at all times.

6. Coring, DST, and Logging Program:

There is a possibility of cutting one 50' core in the Cisco formation from 7750'-7850'. There is a possibility of a drill stem test in the Cisco formation (7740-7860') and in the Morrow formation (9150-9300'). The logging program will consist of a gamma ray log from total depth to surface. Neutron-density-caliper and dual laterolog will be run from total depth to base of intermediate pipe at 1700'.

7. Maximum anticipated bottom hole pressure is 3300 psi at 9100' based on offset well data. Mud weight required to offset this pressure is 7.0 PPG (less than density of fresh water). Bottom hole temperature should not exceed 150° F. No sour gas is expected.

3. Anticipated spud date is October 5, 1978. Completion of drilling operations is expected by November 10, 1978. Completion operations (perforating and stimulating) will immediately follow the drilling operations.