

Production: 8800' of 4-1/2", 11.6# and 10.5#, K55, LT&C and ST&C casing cemented with 860 sx 50-50 Poz and tailed in with 300 sx Class "H" (calculated to raise cement to 3700' + 30%). Choke, Kill, and Fill lines are indicated on Exhibit I. BOPs will be tested prior to drilling below the 8-5/8" casing. A full opening safety valve, to fit the drill string in use, will be kept on the rig floor at all times. The kelly cock, safety valve, choke and kill lines will be tested at the same time that BOP tests are run. Operational opening and closing checks on all BOPs will be run on each trip, with daily operational check of pipe rams.

5. Circulating Medium and Control Equipment:

- | | |
|-------------|---|
| 0-300' | Use fresh water gel flocculated with lime treated with paper, fiber, and hulls. If total loss of circulation occurs, mix 2 or 3 viscous slugs with LCM and attempt to regain circulation. If unsuccessful, drill without returns to casing point. |
| 300'-1800' | Same as 0 to 300'. Spot 150 ± bbls viscous slug treated with LCM on bottom to run pipe if unable to regain lost circulation. |
| 1800'-3500' | Drill out 8-5/8" casing with fresh water circulating reserve pit. Add caustic soda for pH 9.0 - 9.5 and chemicals for corrosion control. Mix paper as needed to control seepage or to sweep the hole. |
| 3500'-8800' | Mud up with starch and soda ash to control API water loss to 20-25 cc to TD. Sea Mud or Salt Water Gel will be added to sweep hole or to raise viscosity of system sufficiently to clean hole to run logs and casing. |

6. No coring program is planned for this well. Drill Stem tests may be run from 5800'-6200' (Bursum), 6500'-6700' (Cisco) and 8400'-8600' (Morrow). GR-CNL will be run from surface to TD, GR-DEN from casing to TD and GR-DUAL LL/RXO from casing to TD.
7. Bottom hole pressure 2500 psi at 8800'. Mud weight to offset pressure 9.0 ppg. Bottom hole temperature 153°F.
8. Anticipated spud date is 5-15-80 with completion to be undertaken as soon as a unit is available.