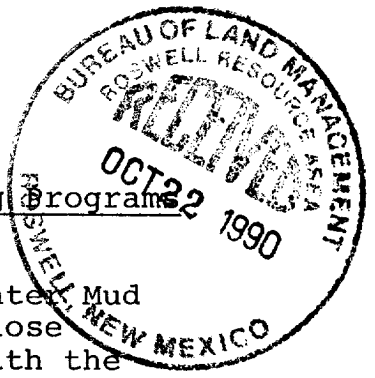

SUMMARY

Drilling, Drill Stem Tests, Casing and Cementing Programs

1. Drill 12-1/4" hole to ±350' using a Fresh Water Mud System. Will set surface in red bed. May lose circulation from 100'-300' in the red bed with the possibility of dry drilling.

2. Run ±350' of 8-5/8", 24#, K-55, ST&C, 8rd surface casing with a Texas Pattern (notched) Guide Shoe on the bottom of shoe joint and an insert float valve in top of shoe joint. Thread lock shoe w/Weld-A. Place a stop ring ±3' above guide shoe, then install a centralizer directly above guide shoe. Thread lock the collar at the top of the shoe joint w/Weld-A. Place a second centralizer on top of the shoe joint. The third and fourth centralizers should be spaced out on every other collar (total of four centralizers).

3. Circulate casing capacity plus (in order to clear casing). Cement 8-5/8" with ±230 sx Class C w/2% CaCl. Slurry weight - 14.8#/gal w/a slurry volume of 1.32 cu ft/sx and a water ratio of 6.32 gal/sx. Use one wooden plug to displace cement.

4. Nipple up and install BOP. Test 8-5/8" casing to 600# after 18 hrs. Drill out cement.

5. Drill 7-7/8" hole to 2400' using a Brine Water Native Mud System with the following properties:

   Mud Weight - 10.0#/gal & Viscosity - 28 sec/qt.
   No water loss control & using paper for seepage.

   Drill 7-7/8" hole from 2400' to ± 2750' using a Brine Water Mud System with the following properties:

   Mud Weight - 10.2#/gal & Viscosity - 32 sec/qt.
   Water loss - 10cc or less

6. No DSTs, no coring, no mudlogging.

   At TD - Run Litho Density - Compensated Neutron/Gamma Ray log & Dual Induction Laterolog.

7. If production is indicated by logs, run 4½" casing as follows:

From	To	Footage	Desciption
0'-	350'	(350')	8-5/8", 24#, K-55, ST&C
0'-	2750'	(2750')	4-1/2", 11.6#, K-55, ST&C

Use of float shoe on the bottom of shoe joint. Use Weld-A to threadlock the shoe. Place a stop ring ±3' above float shoe, then install a centralizer directly above float shoe.