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Drilling Prognosis
Jones Federal "B" No. ~~222~~ 3
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ARTESIA, OFFICE

11. Cement with sufficient 50-50 Pozmix S cement w/0.4% HR-4 to cover zones of interest. Tail in with enough Latex cement to cover 150' above pay zone. Approximately 60 sx required. Use 2 sx of lime in 10 bbls. water ahead of cement. Add 2 sx sodium bichromate to mud system prior to running casing.
12. If float holds, land casing as cemented, release pressure immediately, WOC 8 hrs. and run temperature survey and release rig.

DRILLING FLUIDS PROGRAM:

1. Surface hole - 0 to 600': Spud mud. Add gel and lime as needed to clean hole. Use fiber for loss of circulation as needed.
2. Intermediate hole - 600 to 4000': Saturated brine water. Add water to maintain minimum viscosity needed. Pretreat system w/fiber (6 to 8 lbs./bbl.) at 2800'. If hole gives trouble, lower water loss to 20 cc. to run casing. Note: If severe loss of circulation is encountered below 2800', hole will be dry drilled to intermediate point. Drilling should not be stopped to combat loss of circulation.
3. Below intermediate - 4000 to 11,100': clear water treated with surfactant, some treatment w/paper may be required to reduce losses. Lime should be added to keep pH above 10 for corrosion control.
11,100' to T.D.: Use low solids, GMC system with the following properties:
Weight: 9.5 to 9.8
Viscosity: 38-42
Water loss: 20-25
Add chemicals and barite as required to maintain good hole conditions to T.D.

DRILLING TIME:

1. A recorder with torque, hook load, pump pressure and rate of penetration will be used.
2. Record 10' drilling time from surface to T.D. on company forms.

DRILL PIPE MEASUREMENTS: Strap drill pipe at all casing and coring points and at T.D.

DRILLING SAMPLES:

1. Two sets of 10' samples will be caught, washed, sacked, and labeled in bundles of 100' from surface to T.D.
2. Circulating and additional samples will be obtained as directed.
3. Quart samples will be obtained of all fluids recovered on DST.