

## MUD PROGRAM

### Surface Hole 0 - 500'

Spud with fresh water gel spud mud. Maintain viscosity to insure good hole cleaning in 26" hole. Use paper if required for seepage.

Weight	8.8 - 9.0 ppg
Viscosity	34 - 40 sec./1000 cc
Fluid Loss	No control
PH	-----

### Intermediate Hole 500 - 3,600'

Use existing mud to drill cement and shoe; then displace hole with 10# brine; drill surface hole. Use caustic soda for PH control. Circulate reserve pits and use Jet Jel for maximum solids control. Use paper to control seepage. Use salt water gel sweeps daily for hole cleaning.

Weight	9.8 - 10.1 ppg
Viscosity	28 sec./1000 cc
Fluid Loss	No control
PH	10 - 11

### Intermediate Hole 3,600 - 10,800'

Drill out from 13 3/8" casing with existing brine water system. Use fresh water to cut fluid weight to  $\pm$  9.5 ppg. Allow hole conditions to dictate any further changes in fluid weight. Continue using caustic soda for PH control. Continue circulating reserve pit and using Jet Jel for solids control. Use salt water gel sweeps as necessary for hole cleaning.

Weight	9.4 - 10.0 ppg
Viscosity	28 sec./1000 cc
Fluid Loss	No control
PH	10 - 11

*Ex. A*