

Drilling Fluid Program

Surface: Spud with fresh water native spud mud system. Add paper and other non-toxic LCM to combat seepage and lost circulation. Complete loss of circulation is possible, If this occurs, we will drill "dry" to our surface target of 400'.

Intermediate: Drill out from under surface csg, with saturated brine water using hole sweeps as necessary for hole cleaning. Complete loss of circulation is possible. If this occurs, we will drill "blind" to 2150', and then pump a viscous pill to ensure a good cement bond up to the depth of the lost circulation zone.

Production: Drill out from under intermediate csg. with fresh water using an addition of a selective flocculent at the flowline to aid in the removal of drill solids. Mud up as hole conditions dictate at approximately 8000' with a fresh water LSND system. Maintain solids content less than 5% to minimize mud weights.

Weight	8.6-8.8 ppg
Viscosity	30-34 sec./qt.
Water Loss	15-20 cc/30 min.

Mud program may additionally be altered as conditions dictate.