

Cementing Program

Surface casing, cement with 200 sacks of Lite class C lead cement with a yield of 2.0 cubic feet per sack at a weight of 12.5 ppg and 200 sacks class C tail cement with a yield of 1.33 cubic feet per sack at a weight of 15.6 ppg and containing 2% CaCl. The cement is to be circulated to the surface and if that does not happen then one inch pipe will be run on the outside of the casing and cement circulated to the surface in that fashion.

Intermediate casing, cement with 250 sacks Lite sacks of Lite class C lead cement with a yield of 2.0 cubic feet per sack at a weight of 12.5 ppg and 200 sacks class C tail cement with a yield of 1.33 cubic feet per sack at a weight of 15.6 ppg and containing 2% CaCl.

Production casing, cement with 350 sacks super class C with a yield of 1.67 cubic feet per sack and at a weight of 13 ppg. The cement should cover up to 3100'.

5. Mud Program And Auxiliary Equipment

Interval	Type	Weight	Viscosity	Fluid Loss
0'- 900'	FWGel/Paper/LCM	8.6-9.0	32-36	no control
900'-1500'	Cut Brine	8.6-9.0	29	no control
1500'-3530'	Brine	10.0-10.2	28	no control
3530'-4150'	Salt Gel/Starch/Oil/LCM	9.0-9.8	34-45	<10cc

Sufficient mud materials to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. Evaluation Program

10' cutting samples will be collected from the base of the surface casing to the total depth.

Lateral resistivity, density, gamma ray and caliper logs will be run.

No coring is anticipated.

No drill stem test are anticipated.

7. Abnormal Conditions, Bottom Hole Pressure, And Potential Hazards

Anticipated bottom hole pressures:

0'- 900'	375 psi
900'- 4150'	2500 psi

No abnormal pressures are anticipated.

No lost circulation zones are anticipated.

No H₂S bearing formations are anticipated.

The maximum bottom hole temperature should be 110° F.

8. Anticipated Starting Date

Plans are to drill this well as soon as possible after receiving approval pending rig availability. It should take approximately 20 days to build the location and drill the well with the completion taking another 10 days.