

7. NOTE: This cement blend is designed to circulate from 3500' to surface. The calculations incorporate 100% Excess. A fluid caliper will be run prior to reaching 3500' and the volume of HL cement adjusted accordingly.
8. Nipple up and install BOP. Test 9-5/8" casing to 1500# psi after 18 hrs. If pressure holds - drill out shoe. If pressure loss is greater than 10% in 30 minutes - recement.
9. Drill 7-7/8" hole from 3500' to 10,200' using a Fresh Water Native Mud System with the following properties:  
(Mud Weight - 8.4#/gal. & Viscosity - 32-35 sec)  
No water Loss Control & using paper for seepage.  
Drill 7-7/8" hole from 10,200' to 10,600' using a KCL Mud System w/the following properties:  
Mud Weight - 8.5-8.7#/gal. & Viscosity - 33-34 sec/qt,  
Water loss - 15cc or less, & K<sup>+</sup> (Potassium) - 3000-4000 Mg/L.  
Drill 7-7/8" hole from 10,600'-TD @ 11,600'± using a KCL Mud System w/the following properties:  
Mud Weight - 8.6-8.8#/gal, & Viscosity - 33-35 sec/qt,  
Water loss - 10cc or less & K<sup>+</sup> (Potassium) - 3000-4000 Mg/L
10. No DSTs are anticipated.  
A mudlogging unit will be on location at 7800' to assist in evaluating samples and shows.  
Run Litho Density - Compensated Neutron - Gamma Ray Log & Dual Induction - Laterolog.
11. If production is indicated by logs, run 4-1/2" casing as follows:

<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Description</u>
0'- 1000'		(1000')	4-1/2", 11.6#, N-80, Butt
1000'-10100'		(9100')	4-1/2", 11.6#, N-80, LT&C
10100'-10600'		( 500')	4-1/2", 11.6#, N-80, LT&C

Use a float shoe on the bottom of shoe joint and a float collar on top of the shoe joint. Use Halliburton Weld A to threadlock both the float shoe & the float collar. Place a stop ring 3'± above float shoe, then install a centralizer directly above float shoe. Any joints which have been blasted or ruffcoated should be spaced out across any potential pay zone or zones (as indicated by logs). Use 15-20 centralizers. All centralizers will be placed on ruffcoated joints and at the DV tool @ 10000'±. Set float shoe @ 10600'±. Set a DV tool @ 10000'±. Threadlock the Multiple Stage Cementer w/Halliburton Weld A.