

**B. CEMENTING PROGRAM:**

Surface casing: 350 sx. Pacesetter Lite "C" w/ 1/4# Cellocel & 3% CaCl<sub>2</sub> (wt. 12.7 ppg. Yield 1-84 ft<sup>3</sup>) & 250 sx. Class "C" w/ 2% CaCl<sub>2</sub> (wt. 14.8 ppg, yield 1.84 ft<sup>3</sup>) Cement calculated to circulate to surface.

Intermediate Casing: 950 sx. Pacesetter Lite "C" w/ 1/4# Cellocel + 3% CaCl<sub>2</sub>. (wt. 12.7 ppg. Yield 1-84 ft<sup>3</sup>) + 250 sx. Class "C" w/2% CaCl<sub>2</sub>. (wt. 14.8 ppg. Yield 1.32 ft<sup>3</sup>. Cement calculated to circulate to surface.

Production Casing: 1st stage: 250sx. "H" w/8# Sack CSE, +0.6%CF-14 + 5# Sack Gilsonite (wt. 13.6 ppg Yield 1.76 ft<sup>3</sup>) Cement calculated to 7800' DV Tool; set at approx. 7800 ft.

2nd Stage: 700 sacks Super "H" w/ 5# Gilsonite, 1/4# sack Cellocel, + 0.5% CF-14. (wt. 12.7 ppg, Yield 1.84 ft<sup>3</sup>) + 200 sacks "H" w/o 0.6% CF-14 8# sack CSE, 5 sack Gilsonite. (wt.13.6 ppg Yield 1.76 ft<sup>3</sup>) Cement calculated to tie back to intermediate csng. 100'

**5. Mud Program and Auxiliary Equipment:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-700	fwgel	8.4-8.7 #/Gal	32-36	N/C
700-4275	Brine	10.0-10.4 #/Gal	28	N/C
4275-10,000	Cut Brine	8.7-9-3 #/Gal	28	<15cc

Sufficient mud material(s) 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:**

Samples: Every 20' from surface casing to 4000'; every 10' from 4000' to TD.

Logging: CNL-LTD from TD to casing with GR-CNL up to surface; DLL from TD to casing w/Rxo

Coring: None

DST's: None