

**B. CEMENTING PROGRAM:**

Surface casing: 550 sx. Pacesetter Lite "C" w/ 1/4# Cellocel & 3% CaCl<sub>2</sub> (wt. 12.4 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.

Intermediate Casing: 1500 sx. Pacesetter Lite "C" w/ 1/4# Cellocel + 3% CaCl<sub>2</sub>. (wt. 14.8 ppg. Yield 1.32 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: 250 sx. "H" w/8# sack CSE, + 0.6% CF-14 + 5# sack Gilsonite (wt. 13.6 ppg Yield 1.75 ft<sup>3</sup>) Cement calculated to 8000' DV tool set at approx. 8000 ft.

2nd Stage: 650 sacks pacesetter lite "C" w/5# sack Gilsonite, 1/4# sack Cellocel, + 0.5% CF-14.(wt. 12.7 ppg Yield 1.84 ft<sup>3</sup>) + 150 sacks "H" w/0.5% Cf-14 (wt. 13.6 ppg Yield 1.78 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>
0-1270'	FWGEL	8.6 - 9.6	32-36	N/C
1270'-4810'	Brine	10.0-10.2	28	N/C
4810'-9200'	Cut brine, Starch	8.9 - 9.1	30	< 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 to 4000', 10' from 4000' to TD.

Logging: CNL/LDT from TD to casing with GR-CNL up to surface; DLL w/RXO from TD to casing; CMR over slected intervals

Coring: None anticipated

DST's: Any tests will be based on the recommendations of the well site geologist as warranted by drilling breaks and shows