

5. Proposed Cementing Program:

Cement 13-3/8" casing with 400 sx Class "C" cement with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.32 cu ft/sx).

Cement 9-5/8" casing with 600 sx Class "C" with 4% gel and 2% CaCl₂ (s.w. 13.51 ppg, yield 1.74 ft³/sx) plus 200 sx Class "C" with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx).

Cement 4-1/2" production casing (resin coated and centralized through pay zones) with 400 sx BJ Lite "C" with 0.3% FL-52, 0.2% CD-32, 0.1% R-3 (s.w. 12.7 ppg, yield 1.85 ft³/sx) plus 500 sx Super "C" Modified (CSE) with 5% Salt, 0.6% FL-25 and 0.6% FL-52 (s.w. 13.2 ppg, yield 1.58 ft³/sx). Estimate TOC at 6500'.

6. Pressure Control Equipment: See exhibit #5. Operator proposes to pressure test BOP stack with rig pump to 1500 psig prior to drilling out the 9-5/8" casing shoe. BOP hydrotest will be conducted on first bit trip or prior to drilling the Wolfcamp formation. Operator proposed to use only one ram type or annular type preventor to drill the intermediate hole to 3000'.

ALL CASING AND BOP TESTS MUST BE CONDUCTED
ACCORDING TO ONSHORE ORDER NO. 2 (ATTACHED)

7. Mud Program:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Waterloss</u>
0-400'	Fresh Water	8.5	40	N.C.
400'-5000'	Fresh Water	8.5	28	N.C.
5000'-8400'	Cut Brine	9.0	29	N.C.
8400'-9850'	XCD/Pac	9.5-10.0	36	10 cc

8. Auxiliary Equipment: Upper Kelly Cock, Full Opening Stabbing Valve, PVT.

9. Testing Logging and Coring Programs:

- DST's: DST any mudlog shows.
- Logging: 2-man Mudlogging unit from 5000' to T.D.
- Electric Logs: Platform Express with CNL-LDT, DLL-MSFL, GR and Caliper.
- Coring: None anticipated

10. Abnormal Pressure, Temperatures or Other Hazards: Lost circulation is anticipated in the surface. Maximum bottomhole pressure is estimated to be 4875 psig.

11. Anticipated Starting Date: November 1, 2001.