

4. Proposed Casing Program:

<u>String</u>	<u>Footage</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
Surface	350'	13-3/8"	48.00#	H-40	ST&C
Intermediate	3,200'	9-5/8"	36.00#	J-55	ST&C
Production	9,700'	4-1/2"	11.60#	N-80	LT&C
Tubing	9,600'	2-3/8"	4.70#	N-80	EUE 8rd

Proposed Cementing Program:

Cement 13-3/8" casing with 400 sx Class "C" cement with 2% CaCl<sub>2</sub> (s.w. 14.8 ppg, yield 1.32 cuft/sx).

Cement 9-5/8" casing with 825 sx Class "C" with 4% gel and 2% CaCl<sub>2</sub>, s.w. 13.51 ppg, yield 1.74 ft<sup>3</sup>/sx, plus 200 sx Class "C" with 2% CaCl<sub>2</sub>; s.w. 14.8 ppg, yield 1.32 ft<sup>3</sup>/sx.

Cement 4-1/2" production casing (resin coated and centralized through pay zones) with 10 bfw + 500 gallons Mud Clean II + 10 bfw and 1000 sx Super C Modified (15#/sx Poz A and 11 #/sx CSE), 1% salt, 1.1% FL-25 (s.w. 14.2 ppg, yield 1.35 cuft/sx). Displace bottom plug with 3% KCl Water. Calculate cement volume for TOC at 6500'.

5. Pressure Control Equipment: See Exhibit #5. Operator proposes to pressure test BOP stack with rig pump to 1500 psig before drilling out 9-5/8" shoe. BOP hydrotest will be conducted on first bit trip or prior to drilling into the Wolfcamp formation. Operator proposes to use only one ram type or one annular type preventor while drilling the intermediate hole to 3200'.

6. Mud Program:

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Waterloss</u>
0-350'	Fresh Water	8.5	40	N.C.
350'-3200'	Fresh Water	8.5	26	N.C.
3200'-5000'	Fresh Water	8.5	26	N.C.
5000'-8700'	Cut Brine	9.5	26	N.C.
8700'-9700'	Poly/Starch	9.5	34	10 cc

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