

4. Proposed Casing Program:

Hole Size	Interval	Casing OD	Description
26"	0-40'	20"	Conductor, if necessary
17-1/2"	0-400'	13-3/8"	48#, H-40 STC
12-1/4"	0-2800'	9-5/8"	36# K-55 LTC
8-3/4"	0-10,550'	5-1/2"	17# N-80 LTC

Proposed Cementing Program:

26" Conductor: Ready-mix poured to surface.

13-3/8" Surface Casing: Cement with Lead: 175 sx Class "C" Lite with .25 pps Flocele, 5 pps Gilsonite (s.w. 12.7 ppg, yield 1.85 ft³/sx), Tail: 200 sx Class "C" with 2% CaCl₂ (s.w. 14.8 pps, yield 1.34 ft³/sx). Texas Pattern shoe w/ insert float valve, 2 centralizers.

9-5/8" Intermediate Casing: Cement with Lead: 500 sx Interfill "C" with .25 pps Flocele, 5 pps Gilsonite (s.w. 11.5 ppg, yield 1.59 ft³/sx. Tail: 200 sx Class C, 2% CaCl₂ (s.w. 14.8 ppg, yield 1.34 ft³/sx). Float shoe w/ float collar, 6 centralizers.

5-1/2" Production Casing: Cement with Lead: 400 sx Interfill "H", .25 pps Flocele, 5 pps Gilsonite (s.w. 11.5 ppg, yield 2.75 ft³/sx), Tail: 350 sx Super "H" Modified (15#/sk Poz + 11 #/sk CSE), .4% CFR-3, .5% Halad 344, 1 pps Salt, .1% HR-7, (s.w. 13.0 ppg, yield 1.65 ft³/sx).

5. Pressure Control Equipment:

The blowout preventer equipment (BOP) shown in Exhibits D will consist of a double ram-type (5000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be nipped up on the 13-3/8" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the hydril to 70% of rated working pressure (2100 psi).