

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>Csg OD</u>	<u>Weight, Grade, Type</u>
25"	0-40'	20"	Conductor, 0.30" wall
17-1/2"	0-850'	13-3/8"	54.5#, K-55, ST&C, New, R-3
11"	0-4400'	8-5/8"	32#, K-55, ST&C, New, R-3
7-7/8"	0-TD	5-1/2"	15.5 & 17#, K-55, N-80, LT&C, New, R-3

Casing Program:

20" Conductor Casing: Cemented with ready-mix to surface.

13-3/8" Surface Casing: Cemented to surface using 460 sx Poz "C" (35:65) + 6% Gel + 1/4# sx Flocele followed by 200 sx Class "C" + 2% CC.

8-5/8" Intermediate Casing: Cemented to surface with 1600 sx Poz "C" (35:65) + 6% Gel + 10% Salt + 1/4# sx Flocele followed by 200 sx Class "C" + 2% CC + 0.25 lb/sx Flocele.

5-1/2" Production Casing: Cemented with 600 sx Class "H" + 3% Salt + 0.6% Halad 322 + 10#/sx Silicalite + 1/4# sx Flocele.

Stage Tool at $\pm 5500'$. Cemented with 500 sx Poz "H" (35:65) + 6% Gel + 5% Salt + 1/4# sx Flocele followed by 100 sx Class "H" as in first stage.

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach above the 8-5/8" casing seat at 4400'.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in exhibit #1 will consist of a (3M system) double ram type (3000 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 installed on

1. 1000
2. 1000
3. 1000

1000

Weight, Pounds	Size of	Material	Notes
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000
1000	1000	1000	1000

1000

1000

1000

1000

1000

1000

1000

1000