

5. Proposed Casing and Cementing Program

	<u>Hole Size</u>	<u>Interval, MD</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	
Conductor	20"	0 - 40'	13-3/8"	48.0# H-40	←
Surface	12-1/4"	0 - 1000'	8-5/8"	24.0# J-55	
Production	7-7/8"	1000'-6200'	4-1/2"	10.5# J-55	

Cement Program: (Actual volumes will be based on caliper log when available)

Conductor - Cement to surface with redimix.

Surface - Cemented to surface with total of ± 825 cu ft as follows:

Lead Slurry - ± 300 sks Pacesetter Lite 65/35/6 C/Poz/Gel + 2% CaCl₂ + 1/4 pps Cello-Seal

Tail Slurry - ± 200 sks Class "C" + 2% CaCl₂ + 1/4 pps Cello-Seal

Production - Cement to surface with total of ± 3200 cu ft as follows:

Option 1: If no loss circulation occurs or loss is controlled.

Lead Slurry - ± 1175 sks Super C 44/20/20 C/Poz/CSE + 0.5% Thrifty Lite 1/4 pps Cello-Seal

Tail Slurry - ± 300 sks Cl "C" + 12 pps CSE + 1 pps WL-1P + 0.3% CF-2 + 1/4 pps Cello-Seal + 3 pps Hi-Seal

Option 2: If loss circulation is severe then a DV Tool will be set at $\pm 3250'$

Stage 1 - Lead Slurry - ± 400 sks Pacesetter Lite 65/35/6 C/Poz/Gel 3% salt

Tail Slurry - ± 300 sks Cl "H" + 8 pps CSE + 0.6% CF-14 + 0.35% Thrifty Lite

Stage 2 - Lead Slurry - ± 900 sks Pacesetter Lite 65/35/6 C/Poz/Gel + 3% salt

Tail Slurry - ± 100 sks Cl "C" Neat

6. Mud Program

<u>Depth</u>	<u>Mud Type</u>	<u>Weight ppg</u>	<u>Funnel Viscosity</u>	<u>Water Loss</u>
0 - 1000'	Spud Mud	8.4 - 8.9	29-32	NC
1000' - 4850'	SBW	± 10.0	29-32	NC
4850' - 6200'	SWG	± 10.0	32-34	<15

7. Auxilliary Equipment

Upper Kelly Cock, Lower Kelly Cock, and Full Opening Stabbing Valve

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