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IV. Casing and Cementing Program

A. Casing Program

<u>Depth</u>	Hole <u>Size</u>	Csg. <u>Size</u>	<u>Wt</u>	<u>Grade</u>	<u>Coupling</u>	<u>Type</u>
0 - 650'	17-1/2"	13-3/8"	48#	H-40	STC	Surf.
0 - 2100'	11"	8-5/8"	24#	K-55	STC	Int.
2100-3000'	11"	8-5/8"	24#	S-80	STC	Int.
0 - 5300'	7-7/8"	5-1/2"	17#	K-55	LTC	Prod.
5300-8350'	7-7/8"	5-1/2"	17#	L-80	LTC	Prod.

B. Cementing Program

<u>Casing</u>	<u>Top of Cement</u>	<u>Cement Type</u>	<u>Sacks</u>
Surf. Int.	Surface Surface	Class C w/2% CaCl Lead: Lite w/10% ² salt	610 515
Prod.	Surface	Tail: Class C Neat Lead: 50/50 Poz H w/2% Gel Tail: Class H w/3% KC1	390 630 429

V. Drilling Fluids Program

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<u>Depth</u>	Hole <u>Size</u>	MW ppq	VIS <u>sec</u>	WL <u>cc/30 min</u>	<u>Comments</u>
0- 500' 500-3000' 3000-7000' 7000-8350'	7-7/8"	8.5-9.2 9.8-10.2 8.8-9.4 9.0-9.4	35-45 30-32 28-30 30-32	NC NC NC 15-20	Fresh wtr. spud mud Brine w/salt gel Cut brine, lime Cut brine w/salt gel and starch

B. The mud system volume will be approximately 800 barrels.

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No weighting material should be necessary, but barite will be kept on site.

D. The level of the mud pits will be monitored visually, and a flow rate indicator will be installed.

E. Chemicals kept on site to control a possible H₂S influx are sodium and calcium hydroxide to raise the pH and zinc carbonate as a scavenger.