

4. PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program:

<u>Csg. OD</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Cplg.</u>	<u>Condition</u>	<u>Depth</u>
8 5/8"	24#	J-55	STC	New	0 - 400' +/-
4 1/2"	9.5#	J-55	STC	Used	0 - 3,850' +/-
* 5 1/2"	14.0#	J-55	STC	Used	0 - 3,850' +/-

* (Final production casing size will be determined from MOC inventory at the time well is drilled. Either design will meet casing design specs. listed below.

Minimum Casing Design Factors:

Collapse 1.125; Burst 1.0; Tensile Strength 1.8
(See Schedule #1 and #1A)

B. CEMENTING PROGRAM:

Surface Casing: 300 sacks of Class "C" Neet containing 3% CaCl₂.

Production Casing: 300 sacks of Class "C" Lite containing .5#/sack cellophane flakes + 2% CaCl₂ + 5#/sack gilsonite followed by 200 sacks of Class "C" neet containing .5% fluid loss additive + .2% friction reducer additive + 5#/sack compressive strength enhancer + 5% NaCl.

5. MUD PROGRAM:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-400'	FW gel	8.4 - 8.7	28 - 45	NC
400'-3850'	Cut Brine	9.2 - 9.8	28 - 35	NC

Sufficient mud materials to maintain mud properties, control loss circulation and contain any abnormal pressure that may be encountered; will be available at the well site during drilling operations. Mud will be checked daily by mud company personnel.

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