

on each round trip (but not more than once each day); the annular and pipe ram preventers will be closed on drill pipe and the blind rams will be closed while pipe is out of the hole.

4. Auxiliary Equipment and Proposed Casing Program:

A. Auxiliary Equipment:

- a. Kelly Cocks: Upper and lower installed on kelly.
- b. Safety Valves: Full opening ball type to fit each type and size of drill pipe in use will be available on rig floor at all times.
- c. Otis "N" Nipple: Placed in the drill string two or three joints above the uppermost drill collar for inside drill string well control while drilling the production hole.

B. Casing:

<u>STRING</u>	<u>HOLE</u>	<u>SIZES/WEIGHTS</u>	<u>DEPTH INTERVALS</u>
Surface	17-1/2"	13-3/8"/54.5#	0-500'
Intermediate	12 1/4"	8-5/8"/24.0#, 32.0#	0-2700'
Production	7-7/8"	5-1/2"/14#, 15.5#, 17#	0-9200'

C. Cement:

<u>CASING</u>	<u>DEPTH</u>	<u>CEMENT TYPE</u>	<u>EST. TOP OF CMT.</u>
13-3/8"	500'	Class 'C' 2% CaCl <sub>2</sub>	Surface
8-5/8"	2700'	Class 'C' 10% Gel Class 'C' 2% CaCl <sub>2</sub>	Surface
5-1/2"	9200'	Halliburton Light Cmt Class 'H'	2700'

5. Drilling Fluid:

A. Circulating Medium Characteristics:

<u>Depth Interval</u>	<u>Mud Type</u>	<u>Weight</u>	<u>Funnel Visc.</u>	<u>WL</u>	<u>pH</u>
0' - 500'	FW-SPUD	---	---	---	---
500' - 2700'	SBW	10.0	28-32	---	10.0-11.0
2700' - 9200'	CBW	8.6-9.5	28-32	---	10.0-11.0

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