

IV. HOLE SIZE

<u>Hole</u>	<u>Bit Size</u>	<u>T.D.</u>	<u>Gross Interval</u>
Surface	12 1/4	450	450
Production	8 3/4	3720	3720

V. CASING PROGRAM

A. Casing Design:

<u>String</u>	<u>Casing Size</u>			<u>Thds.</u>	<u>Amt.</u>	<u>Cond.</u>
	<u>O.D.</u>	<u>Wt.</u>	<u>Grade</u>			
Surface	9 5/8	36	K-55	8RD ST&C	450	Used
Production	7	26	J-55	8RD LT&C	3720	Drift & Tested to 4000 lbs.

B. Float Equipment:

Surface Casing: 9-5/8-inch Texas Pattern guide shoe and 9-5/8-inch float collar. 3" wiper wooden plug to displace cement.

Production Casing: 7-inch super seal float shoe with latch down plug and baffle.

C. Centralizers:

Surface Casing: One centralizer at the float collar and five centralizers every other joint thereafter.

Production Casing: Run a total of 18 centralizers. Place one centralizer at the guide-shoe with fifteen (15) centralizers being placed every 80 to 90 feet apart or every other joint in the case of 40-foot joint lengths thereafter. One centralizer inside the bottom of the surface casing and one near surface.

D. Wellhead Equipment:

B & M Oil Tools 9-5/8 x 7" Fig. 92 male casinghead with bowl, slips and packoff. B & M Oil Tools 7 x 2-3/8 Type MR male-tubinghead complete with Mandrel, 3 inch outlets, stripper bowl and rubber and slip casing collar.

VI. MUD PROGRAM

- A. Drill the surface hole with a fresh water gel "spud mud" (approximately 8.5 lb/gal) while maintaining a high enough viscosity to adequately clean the hole. Circulate through working pits and sweep for surface casing. Add paper as needed to control excess seepage.