

4. PROPOSED CASING PROGRAM:

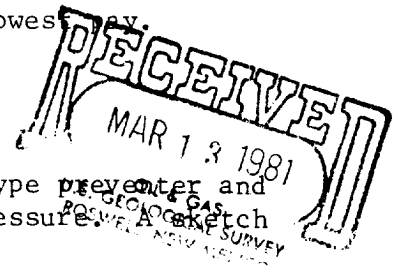
<u>SIZE</u>	<u>INTERVAL</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>	<u>NEW OR USED</u>
20"	0 - 40'				
13-3/8"	0 - 350'	54.5#	K-55	ST&C	NEW
8-5/8"	0 - 2600'	32#	K-55	ST&C	NEW
5-1/2"	0 - 11000'	17#	N-80	LTC	NEW

CEMENT DESIGN

In setting 13-3/8" & 8-5/8", the cement will be circulated.
5 1/2" casing will be cemented from shoe to 1000' above shallowest pay.

5. PRESSURE CONTROL EQUIPMENT:

Blowout preventer stack will consist of an annular-type preventer and two (2) ram-type preventers with 3000 psi working pressure. A sketch of BOP stack is attached.



6. PROPOSED MUD PROGRAM:

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier mud will be on location to be added if pressure requires.

<u>INTERVAL</u>	<u>MUD WEIGHT</u>	<u>VISCOSITY</u>	<u>FLUID LOSS</u>	<u>REMARKS</u>
0-350'	8.5 - 8.7	32 - 35	NC	Spud Mud
350-2600'	9.5 - 10.0	28 - 32	NC	Brine-Gel
2600-8000'	8.5 - 8.8	28 - 32	NC	Fresh Water
8000-10600'	8.6 - 9.0	36 - 38	10 CC @ core PT	Fresh Water w/salt gel
10600-11000'	8.6 - 9.0	36 - 38	10 CC WT	Fresh Water w/salt gel