

4. PROPOSED CASING PROGRAM

<u>Size</u>	<u>Casing Seat</u>	<u>Footage</u>	<u>Grade</u>	<u>Weight & Threads</u>
13 3/8"	225'	225'	J-55	54.5# STC
9 5/8"	2000'	1775'	J-55	36# 8R STC
7"	9200'	5480'	J-55	23# 8R LTC
		1720'	J-55	26# 8R LTC
4 1/2"	9800'	6500'	N-80	11.6# 8R LTC
		3300'	J-55	10.5# 8R STC
2 7/8"	9800'	9800'	N-80	4.7# 8R MOD

PROPOSED CEMENTING PROGRAM

- A. Surface: Cement to the surface with 225 sks. PP 2% CaCl₂
- B. Intermediate: Cement to the surface.
Lead: 500 sks. + 1/4# Flocele + 2% CaCl₂
Tail: 200 sks. PP + 2% CaCl₂
- C. 2nd Intermediate: Cement back to 6500'
500 gal. Flochek-21. 125 sks. 50/50 P/Poz-2% Gel-5# KCL-5/10 of 1% Halad-22A-3/10 of 1% CFR-3
- D. Production: Precede the cement with 10 bbls. chemical wash. Cement back to 8800'. 500 gal. Flochek-21. 115 sks. 50/50 P/Poz-2% Gel-5# KCL-5/10% Halad-22A-3/10% CFR-3

5. TYPE AND MUD SYSTEM CHARACTERISTICS

<u>From</u>	<u>To</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Wtr. Loss</u>	<u>Oil</u>
0	300	Spud Mud	9.0	35	N/C 10PH	
300	2500	Native Mud(Fw)	9.0	32-33	N/C 10PH	
2500	7200	FW/Cut Brine	8.5-9.0	38	N/C 10PH	
7200	9000	Salt Mud	9.0	35	N/C 10PH	5%
9000	9800	Salt Mud	9.0-9.5	38	15cc 10PH	

6. TESTING PROGRAM

Possible DST's will be performed as dictated by shows. Such tests, if necessary, will be conducted under prudent industry practice standards.

Open hole logs planned:

DLL/MSFL/GR

CNL/LD/GR/CAL

SONIC WITH GR

Gamma ray logs will be run to the surface.

7. POTENTIAL HAZARDS

No H₂S, abnormal temperatures or abnormal pressures are anticipated. None of the above problems were reported on the producing wells in this field.

8. ESTIMATED STARTING DATE

Anticipate starting as soon as possible subject to approval of this permit.