

MUD PROGRAM

<u>Depth</u>	<u>Mud Type</u>	<u>Weight #/Gal</u>	<u>Viscosity</u>	<u>Water Loss</u>
0' - 350'	Fresh Water	8.4 - 8.6	30-32	----
350' - 2650'	Fresh Water	8.8 - 9.0	28-30	----
2650' - 7000'	Fresh Water	8.4 - 8.5	27-28	----
7000' - 10000'	KCL Mud	8.6 - 9.3	30-36	10 - 15 cc.
10000' - TD	KCL Mud	9.1 - 9.6	33-36	4 - 6 cc.

BLOWOUT PREVENTER PROGRAM

Below 8-5/8" @ 2650' 5000# hydraulic preventers will be used with 5000# manifold assembly. The blowout preventers shall be pressure tested to rated working pressures by an independent tester. The pipe rams shall be actuated at least once every 24 hours and blind rams on each trip out of the hole. Blowout preventer drills shall be run to be sure each drilling crew is properly trained to carry out emergency duties.

Also included will be mud system monitoring equipment with proper indicators and alarms.

CEMENT PROGRAM

SURFACE CASING:

11-3/4" set at 310' with 300 sacks of Class "C" cement with 1/4# floccel and 2% CaCl.

INTERMEDIATE CASING:

8-5/8" set at 2650' with 300 sacks of Class "H" cement with 5# salt and 10# sand per sack.

PRODUCTION CASING:

Sufficient Class "H" cement with Halah-9 additive to cement over all zones of interest.

RECEIVED

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO