

MUD PROGRAM

0 - 1700' Spud Mud - Add Paper for Seepage
1700'- 8000' Fresh Water
8000'- 9930' Brine Gel - Weight 10-11.5
9930'- TD Brine Gel - Weight 9.5-10

BLOW OUT PREVENTER PROGRAM

To 9 5/8" casing point - 3 M-RD Hydraulic. Below 9 5/8" casing point RSR d A with 5 M choke manifold.

Test Frequency-Yellow jacket test blowout preventer immediately below 9 5/8" casing point in addition there will be a blowout preventer practice each tower, each day. If drilling time goes beyond 45 days, Yellow Jacket test will be run again.

CEMENT PROGRAM

- * Set DV Tool at 750'. 1st Stage: 250 sx Class "C" w/12% gel 12 PPG followed w/200 sx Class "C" neat 14.8 PPG.
2nd Stage: 400 sx Class "C" w/12% gel 12 PPG. 200% to circulate - must circulate.
- ** Set DV Tool at 5000'. 1st Stage: 400 sx Class "C" w/12% gel 12 PPG followed w/200 sx Class "C" neat 14.8 PPG.
2nd Stage: 600 sx Class "C" w/12% gel 12 PPG - 130% to tie back - not required to tie back.
- *** 170 sx Class "C" w/10# salt/sk 14.8 PPG - 100% to circulate
- **** WOC 24 hrs. Pump Rate 8+ BPM Safety time 60+ min. 173 sx Class "H" w/.5% HALAD 9 15.6 PPG - 100% to circulate.

FORMATION TOPS EXPECTED

Delaware Sand	1,710'
Bone Spring	5,490'
Wolfcamp	8,000'
Strawn	9,850'
Atoka	9,930'
Morrow	10,515'
Morrow Clastics	10,835'
U. Miss.	11,380'
Total Depth	11,430'

RECEIVED

MAR - 1 1973

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

EXHIBIT "A"