

LEASE NUMBER: NM-047835
WELL NAME: Bison Wallow Unit #1
LOCATION: SE Section 34 Township 25 South- Range 29 East
COUNTY & STATE: Eddy County, New Mexico

1. Surface Formation: Quaternary
2. Estimated Formation Tops: Deleware Line-3050' (-50) Wolfcamp-10,120' (-7120), Cisco Canyon-12,220' (-9220), Strawn-12,395' (-9395) Atoka-12,515' (-9515), Upper Morrow-13,170' (-10,170), Lower Morrow Clastics-13,440' (-10,440), Morrow "B" Limestone-13,590' (-10,590), Morrow "C" Zone 14,025' (11,025), TD + 14,200' (-11,200)
3. Estimated Depths at which oil, water, gas or other mineral bearing formations are expected to be encountered: Fresh water 0-350, Water Sands 350-TD intermittent, Oil and Gas 350-TD Intermittent, all above to be evaluated while drilling.
4. Casing Program: Conductor casing in 25" hole, 0-350' 20"-94" surface casing in 17½" hole 0-3000' 133/8"-61# Intermediate casing in 12¼" hole 0-11,000, 95/8"-47#. Drilling liner in 8½" hole 11,100-13,100, 75/8"-39#. Production casing in 6½" hole, 0-TD, 5"-18#.
5. Pressure Control Equipment: 350'-3000' 20"-600 Series, Hydril pressure tested once with daily operational checks. 3000'-11,000 12-900 series, double hydraulic BOP pressure tested once, with daily operational checks. 11,000-TD, 10"-1500 series, 5000 psi WP Double Gate and Hydril. Pressure test will be done to 5000 psi on rams and 2500 psi on annular preventor. A 3" choke manifold will be installed and tested to 5000 psi.
6. Drilling Mud Program: 0-350' Spud mud with minimum weight and viscosity. 350-11,100' Brine water with sufficient viscosity to clean hole, weight 9.0-10.0 ppg. 11,100-TD Gel Chem. with viscosity of 40-50 and weights 10.5-12.8 ppg.
7. Auxillary Equipment Required: (a) Kelly cocks will be used. (b) No drill pipe floats will be allowed at any time. (c) A full opening floor stabbing valve will be on the floor. (d) Mud system will be visually monitored at all times.
8. Logging, Testing, and Coring Program: DST's as warranted by drilling time and shows LOGS" BHC Density-Neutron w/GR .3000'-TD, Laterlog-TRCO 3000-TD, Dipmeter 11,000-TD
9. Abnormal Conditions: No H2S or extreme abnormal temperatures are expected. There is a possibility of some higher than normal pressure being encountered.
10. Anticipated Starting Date: January 3, 1980