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Well Prognosis

Horton - State #2

West Sawyer Field

Lea County, New Mexico

1980 FWL and 660' FSL, Section 32 9S 37E

- 1. Drill 12-1/4" hole to 450'.
 - a. Spud with fresh water adding gel and lime as needed to maintain a viscosity of 32 to 34 and a mud weight of 8.8 to 9.0.
 - b. At 450' circulate ± 30 min and prepare to run 8-5/8 32# K-55 casing.
- 2. Install float equipment, run casing to bottom and break circulation.
 - a. No centralizers will be utilized for surface pipe.
 - b. Cement casing with 375 sacks class "C" cement containing 2% calcium chloride.
- 3. Cut-off and nipple up.
- 4. Drill out from under surface with 7-7/8" bit with fresh water.
 - a. Convert to a native mud maintaining a viscosity of 32 to 34 and a mud weight of 9.1 to 9.3 lbs/gal.
 - b. Maintain a pH of 8.7 to 11 with lime and caustic soda.
 - c. A "saturated brine" may be added at ± 1900 to help prevent wash-outs in the salt section.
- 5. Mud up at 4600' maintaining the following properties:

Mud weight –	10.2 to 10.5 lbs/gal
Viscosity –	36 to 38
Water Loss –	10 cc or less
Chlorides –	165,000 pph
pH -	8.7 to 11

- 6. Drill to T. D. of \pm 5000' and circulate required amount of time to log.
- 7. Run full sweep of logs as follows:

CNL - FDC Sonic Dual Laterolog

- 8. Trip in hole (if needed) and circulate bottom up. Prepare to run 4-1/2" 11.60 casing.
 - a. Run pipe and cement with 300 sacks Halliburton "Light" cement containing 15# salt/sack.
- 9. Cuff off and install well head.
- 10. Release rig as per operators instructions.

Anticipated Formation Tops:

Anhy. 2200' Rustler. 2350' Yates 2900' San Andres 4190'

STATE OF NEW MEXICO ENERGY AND IMMERALS DEPARTMENT

UIL COMMEN P. O. BOX 2088 P. O. BOX 2088 A FE, NEW MEXICO 87501

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