TENNESSEE GAS AND OIL COMPANY
PROGNOSIS TO DRILL AND COMPLETE

Lease: G. E. Jordan-USA **Well No.:** 2

District: Hobbs **Field:** Paduca Area

Location: 1980' FNL & 1980' FWL, Sec 15, T-25-S, R-38-E, Lea County, New Mexico

Projected Horizon: Delaware Sand **Estimated Elevation:** 3430' GL

Estimated TD: 4800'

Drilling, Casing, and Cement:

1. Drill 13 3/4" hole to approximately 380'.
2. Cement 9 5/8" casing at approximately 350' w/sufficient volume to circulate.
3. WOC 24 hours. Release pressure and install BOP after 12 hours. Pressure test casing w/600 psi for 30 minutes after 24 hours.
4. Drill 7 7/8" hole to Delaware Sand core point at approximately 4600'. Exact coring depth to be determined by well-site Exploitation Engineer.
5. Core from 4600' to 4800' w/6 3/4" diamond bit.
6. Set 4 1/2" casing at TD w/150 sx of cement.
7. WOC 24 hours. Release pressure and run temperature survey after WOC 8 hours.
8. Run tubing and pressure test casing w/1500 psig for 30 minutes.
9. Displace water with oil.
10. Release rotary rig.

Drilling Mud:

1. Drill w/fresh water native mud to TD. Mud properties will be adjusted to meet requirements for good samples, coring, and drill stem tests. Before coring or running a drill stem test, the mud should have the following properties: Viscosity 35-40, water loss 10cc or less in 30 minutes, F C 2/32 or less.
2. No oil will be added without consent of well-site Exploitation Engineer.

Drill Stem Tests:

1. One drill stem test may be run in the Delaware Sand between 4600' and 4700'.

Drilling Time:

1. Record 1' drilling time from surface to TD using Geolograph.
2. Record 1' drilling time in addition to Geolograph while coring.

Drill Pipe Measurement:

1. Tally drill pipe on last two trips prior to reaching coring point.
2. Tally drill pipe in strain under company supervision at all coring points, coring points, drill stem test points, and at TD.

Sampling:

1. Catch two sets of 10' drilling samples from 4300' to TD unless otherwise directed by well-site Exploitation Engineer.
2. No time lag will be made in catching samples and 15 minute circulating samples will be caught for a period of one hour while circulating unless otherwise directed by the well-site Exploitation Engineer.
3. Samples will be washed thoroughly, sacked, and labeled as directed by the well-site Exploitation Engineer.
4. Two one-quart samples will be caught and labeled of any fluid recovered by drill stem tests.

Hole Deviation:

1. Run hole deviation every 100' on the surface hole.
2. Run hole deviation survey on each trip for bit or every 500', whichever occurs sooner.
3. Maximum hole deviation from surface to TD shall be 4°.
4. If hole deviation changes more than 1 1/2 degrees in any 100' interval, a string reamer will be run to wipe out dog leg.
5. If hole deviation changes more than 2 degrees in any 100' interval, the hole shall be plugged back and straightened out.

Survey:

1. Run GR/Sonic log from casing to TD and Laterolog from approximately 4400' to TD.
2. Run temperature survey on 4 1/2" casing string after WOC 8 hours.
3. Run GR correlation log through pay section after cementing 4 1/2" casing.

Completion:

1. Rig up P.U.
2. Pull tubing to 4300'.
3. Run GR correlation log through pay section. Lower tubing to within 100' of pay zone.
4. Perforate selected intervals w/4 holes per foot.
5. Wash pay with 500 gals and clean-out agent, if necessary.
6. Swab well for test.
7. Frac down 2" tubing w/5000 gals refined oil and 10,000 lbs of 20-40 mesh sand.
8. Swab well in.

APPROVED: _____
E. W. Manes

APPROVED: _____
D. W. Coffey

CWH/lm

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