TENNECO OIL COMPANY
PROGNOSIS TO DRILL AND COMPLETE

Lease: USA-Jennings NM 033503 Well No.: 3

District: Hobbs Field: Double X Delaware

Location: 990' FSL & 1650' FWL Sec. 14, T-24-S, R-32-E, Lea County, New Mexico

Projected Horizon: Delaware Sand

Estimated TD: 5100 Estimated Elevation: 3600' GL

Drilling, Casing & Cement:

1. Drill 12-1/4" hole to approx. 350'.
2. Cement 8-5/8", 24#, J-55 csg w/insert float collar at approx. 350' w/sufficient volume to circulate. Use Incor High Early Portland cmt containing 2% HA-5. Slurry wt will be 14.85#/gal. Pumping time is 1 hr 12 min.

   Record the following data:

   A. Volume of cmt slurry (cubic feet).
   B. Brand name of cmt and additives, percent additives used, and sequence of placement if more than one type cmt slurry is used.
   C. Approx. temperature of cmt slurry when mixed.
   D. Actual time cmt in place prior to starting csg test.

3. If float valve holds, release pressure after WOC 4 hrs and nipple up.
4. WOC a total of 8 hrs, pressure test csg w/1000 psi for 30 min and drill out cmt.

NOTE: When drilling out cement the weight on the bit should not exceed 20,000# and the rotary speed should not exceed 60 RPM until the top of the D.C. are below the base of the casing.

5. Drill 7-7/8" hole to Delaware Sand core point. Approximate core depth 4900. Exact core depth will be determined by company exploitation engineer.
6. Core from top of Delaware Sand to TD (approx 150') with a 7-13/16 X 4-3/8 diamond core head. Run junk basket on last two trips prior to coring point.
7. Set 5 1/2", 17#, J-55 at TD w/150 sx of 50-50 pozmix "S" w/2% gel (Slurry weight should be 15#/gal) and 50 sx reg cmt containing latex. (Slurry wt should be 14.5#/gal).

NOTE:

A. Prior to running csg, treat mud system w/2 sx of Sodium Bichromate.
B. Precede cmt w/20 bbls of lime wtr.

8. If float valve holds, release rig when top plug is down.
9. WOC 8 hrs and run temperature survey.
10. RUDDU, run tbg, displace wtr w/oil and pressure test csg w/1500 psi for 30 min after WOC a minimum of 18 hrs.
11. Completion program to be determined at TD.

Drilling Mud:

1. Drill w/fresh wtr and native mud to approximate coring depth. Prior to coring, the mud should have the following properties:

   A. Type: Salt Gel.
   B. Viscosity: 35-40 sec/qt.
   C. Water Loss: 10 cc or less
   D. Filter Cake: 2/32 or less.

NOTE: Do not suspend drilling operations to mix mid.

Drilling Time:

1. Record 1' drilling time from surface to TD w/a geolograph or equivalent recorder.
2. Driller will record 5' drilling time from 4750 to coring point or as specified by company exploitation engineer.

Drill Pipe Measurement:

1. Tally drill pipe on last trip prior to reaching coring point.
2. Tally drill pipe under company supervision at all casing points, coring points, and at TD.

Samples:

1. Catch one set of 10' samples from 4750 to TD unless otherwise specified by company exploitation engineer.
2. Catch circulating samples as specified by company exploitation engineer.
3. All samples will be washed, sacked, labeled, and tied in bundles of 100'.

Hole Deviation:

1. Run slope test every 100' on surface hole.
2. Run slope test on each trip for bit or every 500', whichever occurs sooner.
3. 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.
4. If hole deviation changes more than 2 degrees in any 100' interval, the hole shall be plugged back and straightened out.
5. Maximum allowable hole deviation is shown on the following page.

Depth	Deviation
0 - 1000	1 degree
1000 - 2000	2 degrees
2000 - 3000	3 degrees
3000 - 4000	4 degrees
4000 - TD	5 degrees

Surveys:

1. Run GR-Sonic Log from base of surface csg to TD w/detailed section as required.
2. Run Laterolog through detailed section.
3. Run temperature survey in production csg after WOC 8 hrs.
4. Run Gamma-Ray log w/collar locator through pay section for perforating control.

Completion:

To be determined at TD.

APPROVED: ORIGINAL SIGNED BY: C. W. NANCE
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