

Title District Production Superintendent

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TENNESSEE GAS AND OIL COMPANY
PROGNOSIS TO DRILL AND COMPLETE

Lease: Tally Pilot #1 - GMA

Well No.: 1

District: Hobbs

Field: Paduca Area

Location: 640' 7" and 640' 7" Vol., Section 10, T-21-N, R-32-E, Gas County,
Ky/W.Va.

Projected Horizon: Delaware Sand

Estimated TD: 4800'

Estimated Elevation: 3420' M.S.L.

Drilling, Casing, and Cement:

1. Drill 9 5/8" hole to approximately 350'.
2. Cement 7 5/8" casing at approximately 350' w/sufficient volume to circulate.
3. WOC 24 hrs. Release pressure and install BOP after 12 hrs. Pressure test casing w/600 psi for 30 minutes after WOC 24 hrs.
4. Drill 6 3/4" hole to Delaware Sand core point at approximately 4700'. Exact coring depth to be determined by wellsite Exploitation Engineer.
5. Core from 4700' to 4800' w/6 11/16" diamond bit.
6. Set 4 1/2" casing at TD w/sufficient cement to protect all zones of interest.
7. WOC 24 hrs. Release pressure and run temperature survey after WOC 8 hrs.
8. Run tubing and pressure test casing w/1500 psig for 30 minutes.
9. Displace water w/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. Prior to coring or running a drill stem test, the mud should have the following properties: Viscosity 35-40, water loss 10 cc or less in 30 minutes, filter cake 2/32" or less.
2. No oil will be added without consent of wellsite 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 casing point.
2. Tally drill pipe in strain under company supervision at all casing points, coring points, drill stem test points, and at TD.

Samples:

1. Catch two sets of 10' drilling samples from 4300' to TD unless otherwise directed by wellsite 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 wellsite Exploitation Engineer.
3. Samples will be washed thoroughly, sacked, and labeled as directed by the wellsite 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 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 Lateralog 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 mud 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.

ORIGINAL SIGNED BY:
C. W. NANCE

APPROVED:

C. W. Nance

ORIGINAL
SIGNED BY A. W. LANG

APPROVED:

A. W. Lang

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator Tennessee Gas Trans. Co.		Lease Emily Flint Ray		Well No. 1
Unit Letter M	Section 10	Township 25S	Range 32E	County Lea
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the West line				
Ground Level Elev. 3442.7	Producing Formation Delaware Sand		Pool Undesignated	Dedicated Acreage: 40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation **RECEIVED**
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description
	U. S. ELECTRICAL CO., DOERS, NEW MEXICO

SECTION B

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name **A. W. Long**
Position **District Production Supt.**
Company **Tennessee Gas Trans. Co.**
Date **November 1, 1960**

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Signed **Oct 27, 1960**
Registered Professional Engineer and/or Land Surveyor, **JOHN W. WEST**
Certificate No. **JOHN W. WEST**
N. M. - P. E. - **676**

