IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Roswell, New Mexico

copy 1.

March 22, 1963

Tennece Oil Company
P. O. Box 307
Hobbs, New Mexico

Gentlemen:

Your Notice of Intention to Drill well No. 1 USA Elliott (copy attached) in the SW¼SE¼ sec. 29, T. 18 S., R. 30 E., N.M.P.M., Eddy County, New Mexico, lease Las Cruces 068402, to a depth of 3250 feet to test the Grayburg formation, has been forwarded to this office for approval.

Pursuant to authority delegated to the Regional Oil and Gas Supervisor on May 10, 1962, 27 F.R. 4614, I hereby approve the Notice of Intention to Drill described in the foregoing.

Please notify the District Engineer, Geological Survey, Drawer U, Artesia, New Mexico, in sufficient time for a representative to witness all cementing operations.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Attachment

Copy to: Washington
Mining Branch (2)
NMOCC-Artesia (2) (w/2 cys Notice)
Artesia
Roswell (2)

JAKnauf:hb 3/18/63

RECEIVED
MAR 2[illegible] 1963
O. C. C.
ARTESIA, OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N. M. O. C. C. COPY

Form 9-331a
(Feb. 1961)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Las Cruces
Lease No. LC 068402
Unit 0

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 15, 1963

USA-Elliott LC 068402

Well No. 1 is located 660 ft. from {N/S} line and 1920 ft. from {E/W} line of sec. 29

SW/4 SE/4 Sec. 29 (¼ Sec. and Sec. No.) | 18-S (Twp.) | 30-E (Range) | NMPM (Meridian)

Wildcat (Field) | Eddy (County or Subdivision) | New Mexico (State or Territory)

The elevation of ground level above sea level is 3440 ft. est.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See prognosis and plats attached.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Texaco Oil Company

Address Box 307

Hobbs, New Mexico

By A. W. Lang

Title District Production Superintendent

GPO 862040

TENNECO OIL COMPANY
PROGNOSIS TO DRILL AND COMPLETE

Lease: USA-Elliott LC-068402 Well No.: 1

District: Hobbs Field: Wildcat

Location: 660' FSL & 1920' FEL of Sec. 29, T-18-S, R-30-E, Eddy County, New Mexico

Projected Horizon: Grayburg

Estimated TD: 3250' Estimated Elevation: 3440' GL

Drilling, Casing & Cement:

1. Drill 13-3/4" hole to approximately 500'.
2. Set 9-5/8", 36#, J-55 at approximately 500' with an insert float collar in top of shoe joint. Cement with sufficient Incor High Early Portland cement containing 2% HA-5 to circulate. Slurry weight should be 14.85#/gal. Pumping time is 1 hr. & 12 mins.
3. If float valve holds, release pressure after WOC 4 hrs. and nipple up.
4. WOC a total of 8 hrs. and pressure test casing with 1000 psi for 30 mins. and drill out cement.

NOTE: The weight on the bit should not exceed 20,000# and rotary speed should not exceed 60 rpm until top of drill collars are below base of the casing.

5. Drill 7-7/8" hole to approximately 3250'. Exact TD will be determined by wellsite geologist.
6. Core approximately 200', as determined by wellsite geologist, between 2650' and 3000' with a 7-13/16 x 4-1/4 diamond core head. Run junk basket on last two trips prior to 2650'.
7. A DST may be run in the Queen at the discretion of the wellsite geologist.
8. Formation tops are expected as follows:

Yates Sand	1550'
Queen Sand	2650'
Penrose	2850'
Grayburg	3100'

9. Set 5-1/2", 17#, J-55, EW, casing @ TD. Use an insert float collar and float shoe. Cement with a minimum of 100 sx or sufficient 50-50 Pozmix "S" with 2% gel (slurry weight 15#/gal) to bring top of cement 600' above top of pay zone. Tail in with sufficient regular cement containing latex (slurry weight 14.5#/gal to 15.1#/gal) to cover the pay zone.

NOTE:

A. If hole contains mud, precede cement with 20 bbl water containing 2 sx lime.
B. Add 2 sx sodium bichromate to circulating system prior to running casing.

10. If float valve holds, release rig when plug is down.
11. WOC 8 hrs. and run temperature survey.
12. After WOC 18 hrs., rig up DDU, run tubing, displace water with oil and pressure test casing with 1500 psi for 30 mins.

Drilling Fluid:

1. Drill surface hole with fresh water and native mud.
2. Drill from base of surface casing to approximately 2600' with salt water and native mud. Mud should be of sufficient quality to return good samples.
3. At 2600' the mud should have the following characteristics which will be maintained to TD:

A. Type: Salt gel.
B. Viscosity: 35-40 sec/qt.
C. Water Loss: 5 cc or less.
D. Weight: 10 to 10.5#/gal.

NOTE:

A. Do not suspend drilling operations to mix mud.
B. See alternate program for air drilling requirements.

Drilling Time:

1. Record 1' drilling time from surface to TD with a geolograph or equivalent recorder.
2. Record 10' drilling time from 1400' to TD on forms provided by company.

Drill Pipe Measurements:

1. Tally DP on last trip prior to 2650'.
2. Tally DP at all casing points, coring points, and @ TD under company supervision.

Samples:

1. Catch 10' samples from base of surface casing to TD unless otherwise directed by wellsite geologist.
2. Catch 15 min. circulating samples for 60 mins. as directed by wellsite geologist.
3. Samples will be washed, sacked, and labeled as directed by wellsite geologist.

Blowout Preventer:

1. Double ram with manual and remote hydraulic or air controls are required. BOP's will be tested daily.

Hole Deviation:

1. Run slope test every 100' on surface hole. Maximum allowable deviation in surface hole is 1-1/2°.
2. Run slope test every 500' from base of surface casing to TD.
3. If hole deviation changes more than 1-1/2° in any 100' interval, a string reamer will be run to wipe out dog leg.
4. If hole deviation changes more than 2° in any 100' interval, the hole will be plugged back and straightened.
5. Maximum allowable hole deviation from base of surface casing to TD is 4°.

Surveys:

1. Run Gamma Ray Sonic with detailed sections as required.
2. Run Laterolog through detailed sections.
3. A Microlaterolog may be run through detailed sections at discretion of wellsite geologist.
4. Run Gamma Ray correlation log for perforating control.

Daily Records:

1. The A.A.O.D.C. Daily Drilling Record will be filled out completely and one copy mailed to the Hobbs District Production Office.
2. A daily verbal morning report will be made to the Hobbs District Production Office by telephone between 7:00 and 7:30 A.M., MST. The report will be a resume of the previous day's operation.

Completion:

1. To be determined at TD.

Alternate Program:

Contractor has option of drilling with air or mud. If air is used, the following revisions are necessary:

1. Drill with air from base of surface casing to TD.
2. Coring will be done with air.
3. There may be several shut-downs to check fluid entry.

4. If hole will not dust below 2600', mud will be used as drilling fluid.
5. At TD, load hole with brine water.

APPROVED: C. W. Nance
C. W. Nance

APPROVED: A. W. Lang
A. W. Lang

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128
Revised 5/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator	Lease	Well No.
TENNECO OIL COMPANY	LC 068402 USA ELLIOTT	1

Unit Letter	Section	Township	Range	County
O	29	18 SOUTH	30 EAST	EDDY

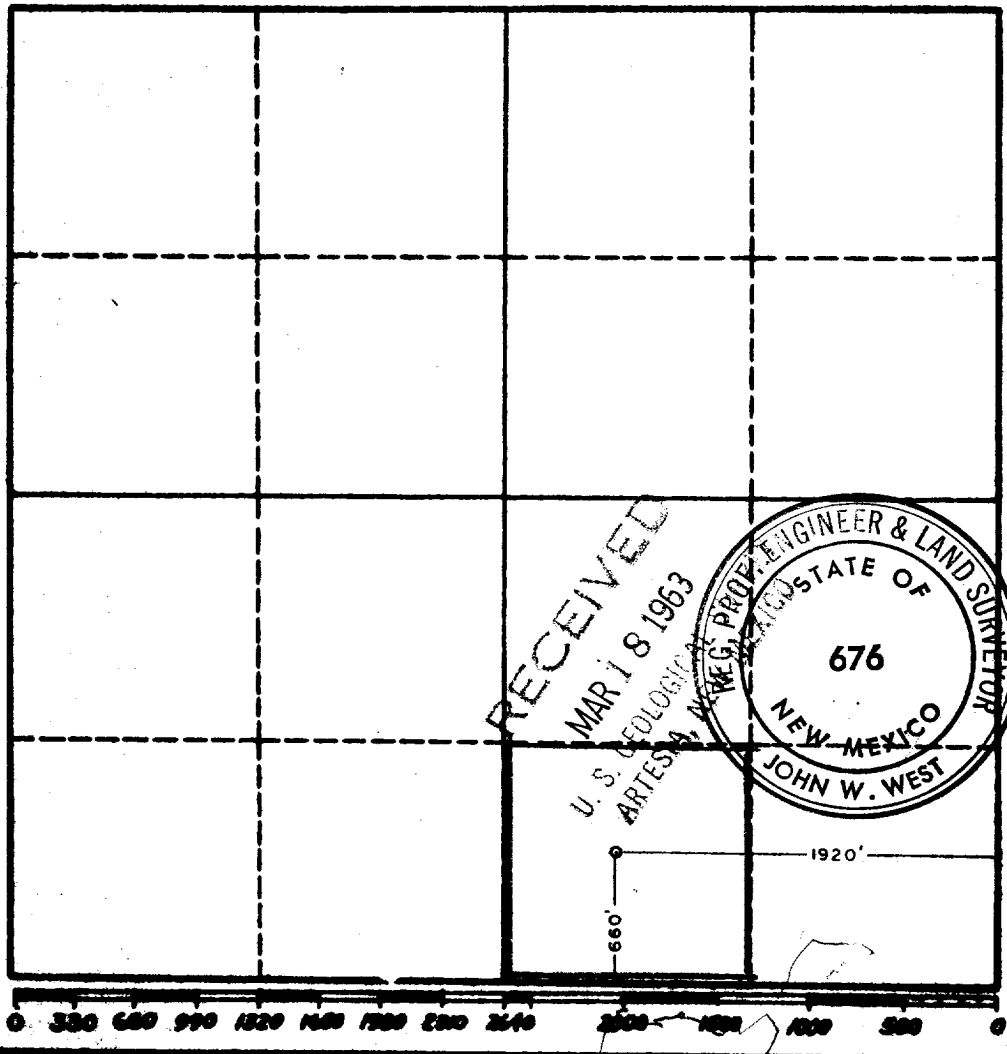
Actual Footage Location of Well:
1920 feet from the EAST line and 660 feet from the SOUTH line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
[illegible]	[illegible]	[illegible]	[illegible] 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 _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

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 [illegible]
Position [illegible]
Company [illegible]
Date [illegible]

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 Surveyed
3-12-63

Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST

Certificate No.
N. M. - P.E. & L.S. No. 676