COPY

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

SEP 23 11 13 AM '64

1a. TYPE OF WORK
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 1031, Midland, Texas

SEP 25 1964
U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FNL & 660' FEL of Section 27
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
NM 045351

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Conoco Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27, T-25-S, R-~~32~~ 34-E

12. COUNTY OR PARISH
Lea

13. STATE
New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any)
660

16. NO. OF ACRES IN LEASE
80

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
5500

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3360 GL (Estimated)

22. APPROX. DATE WORK WILL START*
Upon Approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See Prognosis and plats attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
SIGNED A.W. Lang TITLE Dist. Prod. Superintendent DATE 9-24-64

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
SEP 25 1964
A. R. BROWN
DISTRICT ENGINEER

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128
Revised 5/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

HOBBS OFFICE O. C. C.
1964 SEP 25 AM 8:4

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator	Lease	Well No.
TENNECO OIL COMPANY	CONOCO FEDERAL	1

Unit Letter	Section	Township	Range	County
H	27	25 SOUTH	34 EAST	LEA

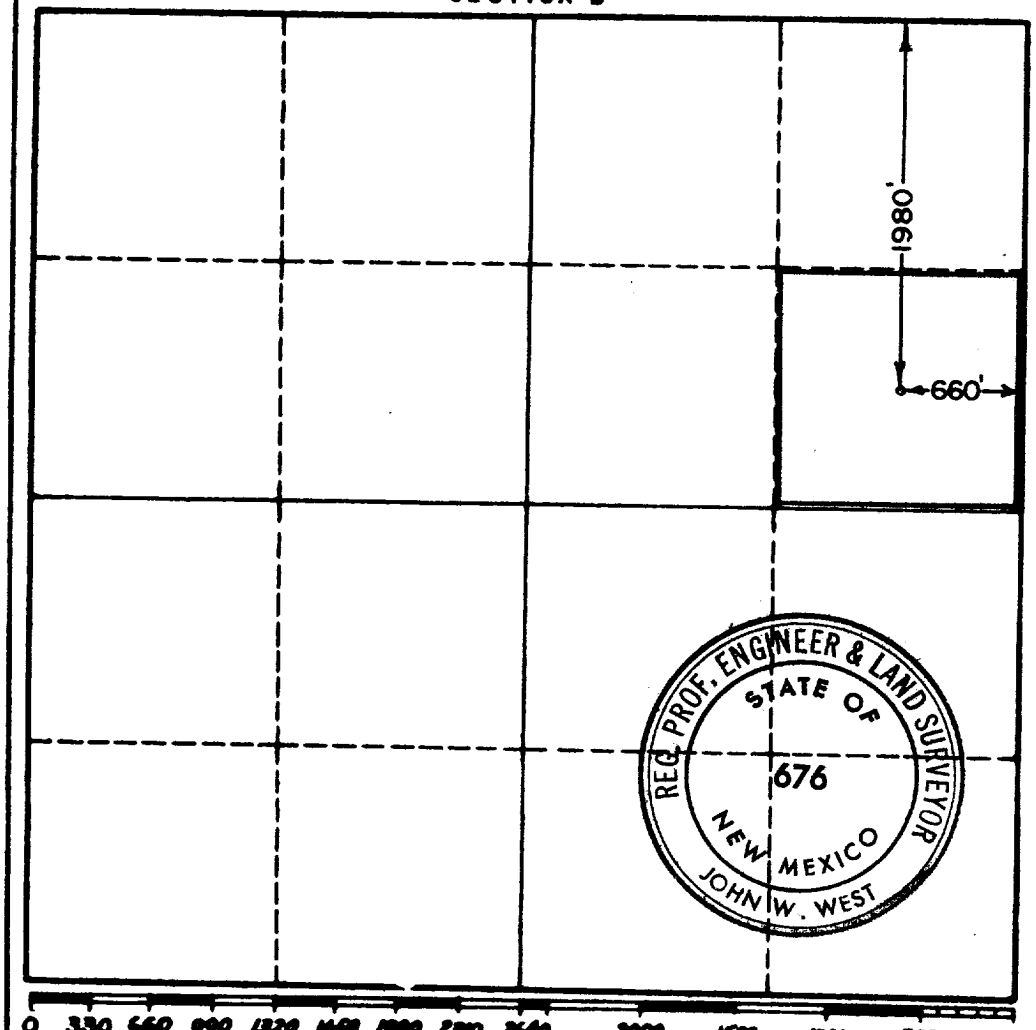
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3360 Est.	Delaware Sand	Wildcat	40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X 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: A.W. Lang

Position: Dist. Prod. Superintendent

Company: Tenneco Oil Company

Date: 9-24-64

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: 9-19-64

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

John W. West

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

TENNECO OIL COMPANY
DRILLING PROGNOSIS

LEASE: Conoco Federal WELL: No. 1
DISTRICT: Midland FIELD: Wildcat
LOCATION: SE/4 NE/4, Section 27, T-25-S, R-34-E, Lea County, New Mexico

PROJECTED HORIZON: Delaware Sand EST. TD: 5500' EST. ELEVATION: 3360

DRILLING, CASING AND CEMENTING:

1. Drill 12¼" hole to 400'
2. Set 24#/ft 8 5/8" casing and cement with sufficient cement containing 2% $CaCl_2$ to circulate to surface. Use guide shoe with insert float and bar centralizers on first two joints.
3. If float holds, release pressure immediately. Nipple up BOP after 6 hrs WOC. After 12 hrs WOC pressure test to 800 psi and drill out with 7 7/8" bit.
4. Drill 7 7/8 hole to TD.
5. Set 4½" J-55 9.5 lb/ft casing to TD. Cement with Class C cement and tail in with enough Latex to cover producing zone. Latex should be premixed before bringing to location.

DRILLING FLUIDS:

1. Drill with spud mud to 400'. Use bentonite and lime as needed to clean hole.
2. Drill with fresh water native mud to 5250'.
3. From 5250 to TD convert to salt saturated mud having the following properties:

Water Loss:	10 cc
Viscosity:	35-40 seconds
Weight:	10-10.3 lbs/gal

4. Very slight loss of circu tion might be experienced but pre-treatment is not recommended.

DRILLING TIME:

One foot intervals on recorder from surface to TD. 10 foot drilling times recorded from 5000 to TD on company forms. One foot coring times on company forms.

DRILL PIPE MEASUREMENTS:

1. Strap drill pipe on trip nearest 5000 (base of salt).
2. Strap drill pipe on all coring, testing, logging depths and at TD.

DRILLSTEM TEST:

One DST may be required depending on information obtained from cores or logs.

CORES:

One orientated core will be taken in the Delaware at 5330± . A second orientated core may be taken depending on information obtained from the first core.

LOGGING:

Gamma Ray-Sonic and Neutron log (not to be released) will be run over intervals selected by wellsite geologist. Other logs may be run.

HOLE DEVIATION:

1. Maximum deviation of surface hole $\frac{1}{2}^{o}$
2. Run deviation every 500' or nearest trip for bit, whichever occurs first.
3. Hole deviation should not change more than $1\frac{1}{2}^{o}$ in 100'.
4. Maximum hole deviation is:

0	-	1000	1^{o}	2000	-	4000	4^{o}
1000	-	2000	$2\frac{1}{2}^{o}$	4000	-	TD	6^{o}

FORMATION DEPTHS:

Base Salt	5070
Delaware Ls	5330
Delaware Sd	5335
TD	5500

SAMPLES:

One set 10' samples from 5000 to TD. Samples to be washed, sacked and labeled as directed by wellsite geologist. Other samples as directed by wellsite geologist.

Geological supervision from base of salt to total depth.

A. R. Gibson

B. E. Desadier

A. W. Lang