



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Drawer U
Artesia, New Mexico

IN REPLY REFER TO:

*copy
for
SF*

January 24, 1964

Tenneco Oil Company
P. O. Box 1091
Midland, Texas

Re: Las Cruces 069881
Expiring January 31, 1964

Gentlemen:

Your Notice of Intention to Drill well No. 1 Mondo Federal (copy attached) in the SE $\frac{1}{4}$ SE $\frac{1}{4}$, sec. 6, T. 17 S., R. 28 E., N.M.P.M., Eddy County, New Mexico to a depth of 7,800 feet to test the Wolfcamp formation is hereby approved subject to compliance with the provisions of the Oil and Gas Operating Regulations and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. A daily progress report is to be furnished in duplicate from spud date until completion of the well.
3. Drilling rig must not be moved from well without prior approval from the Survey (30 CFR 221.34c).

If the lease is to be considered for extension by diligent drilling operations, the lease rental must be timely paid.

Very truly yours,

James A. Knauf
District Engineer

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APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 069881	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR TENNECO OIL COMPANY			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1031, Midland, Texas			8. FARM OR LEASE NAME Hondo Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FSL & 660' FEL of Sec. 6 At proposed prod. zone			9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*			10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-17-S, R-28-E	
16. NO. OF ACRES IN LEASE 920			12. COUNTY OR PARISH Eddy	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. Wildcat			19. PROPOSED DEPTH 7800'	
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* Upon Approval	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3585 GL (Estimated)				
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.

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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. SIGNATURE *A. W. Lang* **A. W. Lang** TITLE **Dist. Prod. Superintendent** DATE **Jan. 21, 1964**
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

RENNETT OIL COMPANY
DRILLING PROGNOSIS

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LEASE: Hondo-Federal
DISTRICT: Midland
PROJECTED TD: 7800'

WELL NO.: 1
FIELD: Wildcat
ESTIMATED ELEVATION: 3585'

LOCATION: 660' FS&EL Section 6, T-17-S, R-23-E, Eddy County, New Mexico

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DRILLING, CASING, AND CEMENTING:

- 1) Drill 17½" hole to approximately 400'.
- 2) Cement 13-3/8", 48# ft., H-40, ST&C Casing @400' with sufficient 50-50 Inco Pozmix with 2% cacl₂ to circulate. Run bar type centralizers on shoe and next two collars above shoe. A regular guide shoe and insert float in 1st collar above shoe can be used.
- 3) If float valve holds, WOC 8 hrs. and nipple up.
- 4) After WOC 12 hrs., pressure test casing with 800 psi and drill out. Do not use excessive RPM or weight until all drill collars are below the shoe.
- 5) Drill 12½" hole to approximately 1850'.
- 6) Run 8-5/8", 24# ft., J-55, ST&C Casing at 1850'. Use bar type centralizers on guide shoe and next two collars above shoe. Use insert float in 1st collar above shoe.
- 7) Cement with sufficient 50-50 Inco Pozmix with 6% gel followed by 100 sz Inco with 2% gel to circulate to surface. All cement to contain 2% cacl₂. Proceed cement with 2 sz lime mixed in 10 bbls. fresh water.
- 8) If float holds, and casing as cemented, release pressure and nipple up. after WOC 12 hrs., pressure test 8-5/8" casing to 1000 psi for 30 min. and drill out cement. Do not exceed 20,000# weight on bit and 60 RPM until all drill collars are below shoe.
- 9) Drill 7-7/8" hole to approximately 7800'. Exact TD will be determined by wellsite geologist.
- 10) Run 4½" casing as follows:
0' - 100' - 4½" 11.6#, J-55, ST&C Casing.
100' - 6000' - 4½" 9.5#, J-55, ST&C Casing.
6000' - 7800' - 4½" 11.6#, J-55, ST&C Casing.
Casing will be run with guide shoe, differential fill, collar and sufficient reciprocating scratchers and centralizers to cover productive interval.
- 11) Cement with sufficient 50-50 Pozmix "S" cement to cover all zones of interest. Tail in with Latex cement to cover perforating intervals. Use 2 sz lime in 10 bbls. water ahead of cement. Mix 2 sz Sodium Bichromate in mud system while circulating to run 4½" casing.
- 12) If float holds, land casing as cemented and nipple up. Run temperature survey after WOC 12 hrs.

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DRILLING FLUIDS PROGRAM:

- 1) Surface Hole - 0 to 400'. Spud mud and fresh water.
- 2) Intermediate Hole - 400' to 1850'. Drill with clear water, add enough gel to clean hole good and get good samples. Use Dick's mud seal and fibre if any lost circulation is encountered.
- 3) Below Intermediate Hole - 1850' to TD. Air, gas or fresh water may be used to drill from 1850' to 6700'. At 6700' have hole mudded up with low solids mud, with 36-38 Viscosity, 20-25 CC water loss.

DRILLING TIME:

- 1) Ten foot drilling time from kelly measurements will be kept by driller from surface pipe to TD.
- 2) A four pen recorder will be furnished by the contractor. It should record rate of penetration, torque weight on bit, pump press.

DRILL PIPE MEASUREMENTS:

- 1) Tally drill pipe at all casing points, coring points, logging points and approximately every 1000'.

DRILLING SAMPLES:

- 1) Two sets of 10' samples will be caught from surface to intermediate casing point and 6700' to T.D. A fine mesh screen may have to be installed on shale shaker to catch the fine samples from the upper part of hole, if this is not satisfactory, a mud box may have to be installed in the mud line to insure catching satisfactory samples. Samples will be washed, sacked, labeled in bundles of 100'.

DEVIATION:

- 1) Deviation surveys shall be taken every 100' on surface hole, from 400' to TD. Surveys may be taken every 500' or every trip, whichever occurs first.
- 2) Maximum deviation shall be allowed as follows:

0' - 400':	1°	3000' - 4000' :	4°
400' - 1800':	2°	4000' - 5000' :	5°
1800' - 3000':	3°	5000' - TD :	6°
- 3) Deviation should not change more than $1\frac{1}{2}^{\circ}$ in any 100' interval. If deviation change exceeds $1\frac{1}{2}^{\circ}$ per 100', a string reamer will be run to wipe out dog leg. If deviation change exceeds 2° per 100', hole shall be plugged back and straightened.

BLOW-OUT PREVENTORS:

- 1) Series 900 or better, double ram, manual and remote control preventors shall be used from base of surface casing to TD.
- 2) BOP shall be checked daily and reported on drilling report.
- 3) A rotating drilling head shall be used during any air or gas drilling.

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to
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DAILY DRILLING REPORT:

- 1) The AAODC drilling form shall be used.
- 2) This report shall be completely filled out except for crew hours. Tenneco copy should be mailed to Midland Office every two or three days.
- 3) Morning reports shall be made to the Midland District Office each week day morning between 8:00 and 8:30 A.M., CST.

DRILL STEM TESTING:

- 1) One possible DST in upper Wolfcamp. One definite DST in Lower Wolfcamp and/or Cisco. Additional testing through intermediate casing may be required.

CORING:

- 1) Two fifty foot cores in Lower Wolfcamp and/or Cisco.

LOGGING:

- 1) Gamma-Ray, Sonic and Laterolog from intermediate casing point to surface.
- 2) Dual-Induction Electric W/SP, Gamma and Sonic logs from TD to intermediate casing. Detail on each log about 500'. Microlog of about 500' may be required.

APPROXIMATE FORMATION TOPS:

Yates	470'
Queen	980'
San Andres	1835'
Glorietta	3140'
Tubb	4540'
Abo	5130'
Wolfcamp	6330'
K ₁ Marker	7335'

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E. G.
ARTIFICIAL LIFTER

SECURITY STATUS:

- 1) Any information to be released by Tenneco Exploration Department only.
- 2) An exploration wellsite geologist will be on location through all prospective zones.

APPROVED:


A. W. Lang


J. D. Hicks

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E. G.
ARTIFICIAL LIFTER

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-120
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

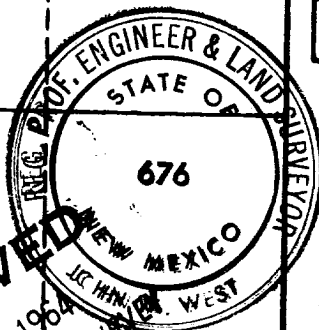
Operator TENNECO OIL COMPANY		Lease HONDO FEDERAL		Well No. 1
Unit Letter P	Section 6	Township 17 SOUTH	Range 28 EAST	County EDDY
Actual Footage Location of Well: 660 feet from the SOUTH line and 660 feet from the EAST line				
Ground Level Elev. 3585 Est.	Producing Formation Lower Wolfcamp	Pool Wildcat	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 1955 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

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SECTION B



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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 January 21, 1964

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 JAN. 18, 1964
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST
Certificate No. N. M. - P. E. & L. S. NO. 676

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0