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NEW MEXICO OIL CONSERVATION COMMISSION

30-015-10813
Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.
B-10714

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name State N	
2. Name of Operator Tenneco Oil Company		9. Well No. 4	
3. Address of Operator Box 1031, Midland, Texas		10. Field and Pool, or Wildcat Grayburg Jackson	
4. Location of Well UNIT LETTER E LOCATED 670 FEET FROM THE west LINE AND 2290 FEET FROM THE North LINE OF SEC. 22 TWP. 17-S RGE. 29-E NMMP		12. County Eddy	
19. Proposed Depth 2900		19A. Formation San Andres	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3550 GL	
21A. Kind & Status Plug. Bond In effect		21B. Drilling Contractor Leatherwood Drlg. Company	
22. Approx. Date Work will start Upon approval			

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
11	8 5/8	28#	360	suff. to circulate	
6 3/4	4 1/2	10.5#	2900	suff. to cover zones of interest	

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See attached prognosis

MAY 9 1966

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED
EXPIRES 7-6-66

O. O. G.
AMERICA OFFICE

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed A.W. Lang Title Dist. Prod. Supt. Date May 5, 1966

(This space for State Use)

APPROVED BY M.L. Armstrong TITLE STATE ENGINEER DATE MAY 9 1966

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator TENNECO OIL COMPANY			Lease STATE N		Well No. 4
Unit Letter E	Section 22	Township 17 SOUTH.	Range 29 EAST	County EDDY	
Actual Footage Location of Well: 2290 feet from the NORTH line and 670 feet from the WEST line					
Ground Level Elev.	Producing Formation		Pool	Dedicated Acreage: Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

RECEIVED

MAY 9 1966

U. C. C.
ARTESIA, OFFICE

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

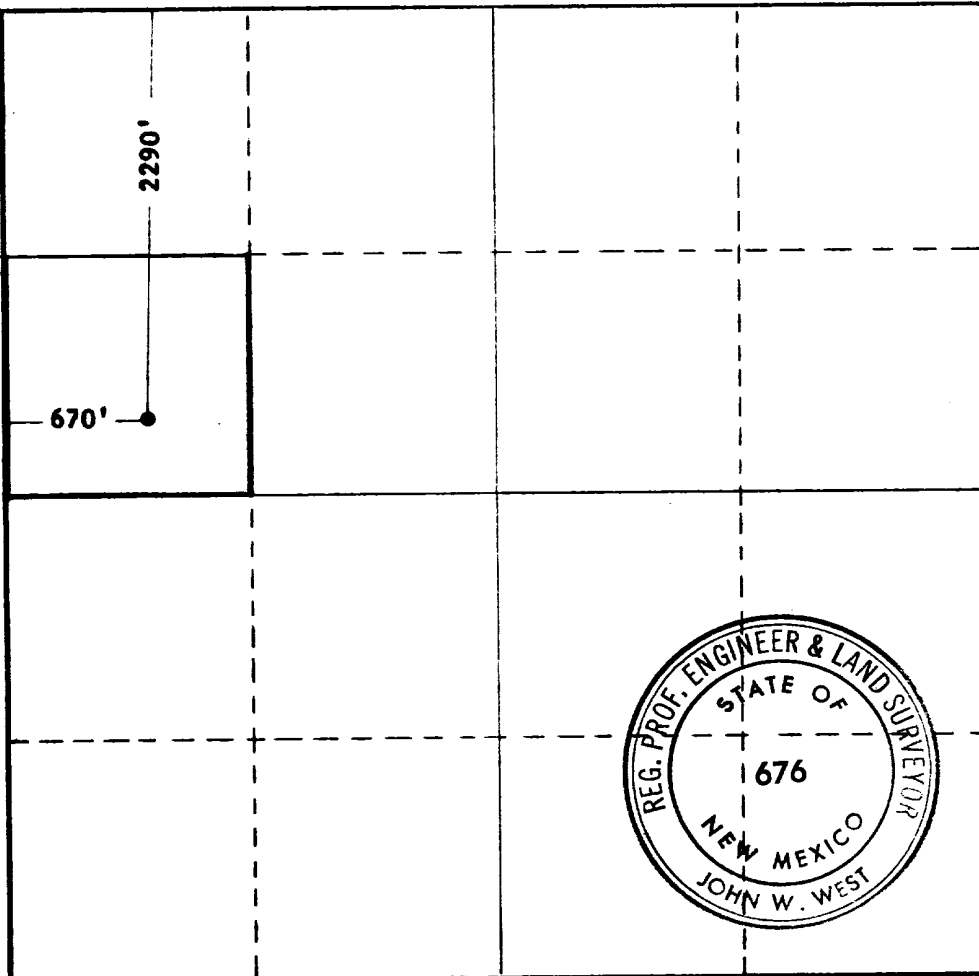
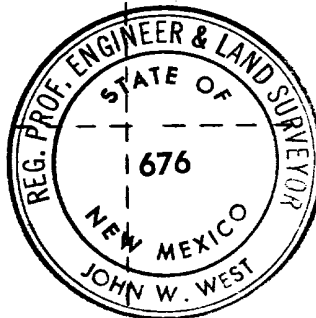
Name
A. W. Lang **A. W. Lang**
Position
Dist. Prod. Engt.
Company
Tenneco Oil Company
Date
May 5, 1966

I hereby certify that the well location shown on this plat 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.

Surveyed
APRIL 30, 1966

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **676**



0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400

Inswell

NO. 4

Grayburg-Jackson

State "N"

Grayburg-Jackson

Grayburg-Jackson

No. 4

Grayburg-Jackson

New Mexico

670' FWL & 2290' FNL, Section 22,
T-17-S, R-29-E, Eddy County, New Mexico

2900'

Oil, Pumping

EST. RES.: 3550 GL

1. Drill 11" hole to 360' with OSC or equivalent.

2. Run and cement 8-5/8", 20#/ft., H-40, ST&C casing to T.D. Cement with class A saturated salt cement. If surface hole is dry drilled because of lost circulation, run a cement basket above the lost circulation zone and fill from the top. Run bar centralizers on guide shoe and bottom two joints. Use guide shoe and insert float.
3. If float holds, release pressure immediately. Center 8-5/8" casing, nipple up and install rotating head and BOP. After 12 hrs. from plug down, go in hole with drill pipe and bit, test casing to 800 psi for 30 min. Drill float collar and cement with water to guide shoe. Blow hole dry with air and drill with air and/or mist to T.D.
4. Drill 6-3/4" hole to T.D. Use W7R-2 or equivalent for first two bits, then run RG7AJ's or equivalents to T.D. Run insert-type reamer at 30' above bit to T.D. Complete drilling program to be furnished to rig.
5. Hole may become wet below 1700'±. Be prepared to mist at this depth.
6. Run 4-1/2", 10.5# casing to T.D. Use guide shoe and float collar. Use centralizers through productive zone.
7. Cement with sufficient class C with 16% gel and 3% salt to reach 2000' (no excess) and tail in with latex-class C to reach 100' above top productive zone (consult Geologist).
8. If float holds, release pressure, set slips & release rig. Run temperature survey after 8 hrs.

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1966

30. 0.0.

Item	Part	Qty	Unit	Notes	Remarks
1. 1000	8-5/8	In. 1000			
2. 1000	4-1/2	In. 1000			
3. 1000	10.5	In. 1000			
4. 1000	10.5	In. 1000			
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100. 1000	10.5	In. 1000			

WELL DRILL

0-360

Spud mud of bentonite, lime for viscosity as needed. If circulation is lost dry drill to casing point.

360-T.D.

Air and/or mist as needed.

- Notes: 1) In the event that hole conditions necessitate going to fluid - brine will be used.
2) Several air or CO₂ blows may occur in the salt section and to a depth of 1400'.
3) Water may occur at 1700'± and misting may be necessary below this depth.
4) Gas may be encountered in Metex sand at 2280'±.

WELL DRILL

1. Use Series 900 blowout preventers as per Company specifications.
2. When tripping up, test blowout preventer and manifold to full working pressure with cold water, or as specified by Company representative.
3. Operate blowout preventers at least once each day, or as Company representative requires.
4. An extra set of drill pipe rams will be required on location at all times while drilling or completing.
5. All choke manifolds, lines and valves will be located at the side of and away from substructure.

WELL PIPE MEASUREMENTS

1. Drill pipe will be tallied at all coring, testing, logging and casing points.

Form

1. The hole shall be within or every 500', whichever is less, and the hole survey will accompany M. S. log and report.
2. Deviation shall not exceed more than 1 1/2° in any 100'. If deviation exceeds 1 1/2° per 100', hole shall be picked back and straightened.
3. Deviation shall be allowed as follows:

0 - 500	1 1/2°	8000 - 9000	1 1/2°
500 - 1000	1 1/2°	9000 - 10000	2 1/2°
1000 - 2000	2 1/2°	10000 - 12000	3 1/2°
2000 - 4000	3 1/2°	12000 - 14000	4 1/2°

Form

1. Recorder with torque, hook load, and rate of penetration will be used.
2. Record 1' drilling time on recorder from 0 to T.D.
3. Record 10' drilling time from 1800 to T.D. on Company Form. Drill time shall be as soon as possible with daily running reports.

Form

1. Sonic or density T.D. to surface.

Form

As directed by geologist

Form

None

Form

None

1. 13 - 10 - 1911

Salt Top	288	Premier Sand	2420
Salt Base	688	San Andres	2443
Yates	683	Oolitic	2618
Queen	1758		
Metex	2280		

1. 13 - 10 - 1911

1. The A.M. Daily Drilling Report will be filled out completely and neatly and 6 hours later. The clear and legible copy will be mailed daily to Tenneco Oil Company. Mail Company drilling sheets as soon as each sheet is finished with Daily Drilling Report.
2. A daily report sheet and a cost sheet will be furnished by the operator for the well. The contractor's tool purser will keep these forms current and complete. The daily cost, total cumulative cost and cumulative mud cost will be given daily along with the Tenneco morning report. At the conclusion of the well, the cost forms will be mailed to Tenneco Oil Company, P. O. Box 1031, Midland, Texas.
3. The morning report shall be called to Tenneco's Midland office as soon after 8:00 A.M. each weekday morning as practical. Phone number is MU 3-4621, area code 915.
4. For notifications at other than office hours, call:

LOGGING:

ENGINEERING:

James Eaton OX 4-7668

A. R. Gibson MU 4-7545

B. E. Desadier MU 4-5390

A. W. Lang MU 2-3010

PREPARED BY:

ATTACHED BY:

A. R. Gibson

A. R. GIBSON

B. E. Desadier

A. W. Lang

J. F. Carnes

Rec'd. 6-20-66

1- Densilog

30-015-10813