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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-4-65

5A. Indicate Type of Lease
STATE ☒ FREE ☐
5. State Oil & Gas Lease No.
B-5114

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. Type of Work		7. Unit Agreement Name	
a. Type of Well OIL ☒ GAS ☐ OTHER ☐		8. Farm or Lease Name	
b. Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐		9. Well No.	
c. Type of Well OIL ☒ GAS ☐ OTHER ☐		10. Field and Pool, or Wildcat	
2. Name of Operator		11. Field and Pool, or Wildcat	
TENNECO OIL COMPANY		GAYBORG JACKSON	
3. Address of Operator		12. County	
Box 1931 MIDLAND, TEXAS		EODD	
4. Location of Well		13. Proposed Depth	
UNIT LETTER C LOCATED 2175 FEET FROM THE LINE		2900	
AND 457 FEET FROM THE LINE OF SEC. 26 TWP. 14N RGE. 24E NMPM		19A. Formation	
		SAN ANDRES	
21. Elevation (Show whether D.R., etc.)		20. Rotary or C.T.	
3550 GL		Rotary	
21A. Kind & Status Plug, Bond		22. Approx. Date Work will start	
IN EFFECT		UPON APPROVAL	
21B. Drilling Contractor			
LEATHAMWOOD DRILLING			

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"	29.4	360	SUFF. TO CIRCULATE	
6 3/4"	4 1/2"	10.54	2900	SUFF. TO COVER ZONES OF INT.	

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MAY 20 1966

O. O. C.
ARTESIA, NEW MEX.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED

EXPIRES 8-17-66

SEE ATTACHED PROGNOSIS

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 Alan Lang Title Asst. Dir. State Date May 12, 1966

(This space for State Use)

APPROVED BY M. L. Armstrong TITLE Asst. Dir. State DATE May 20 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.

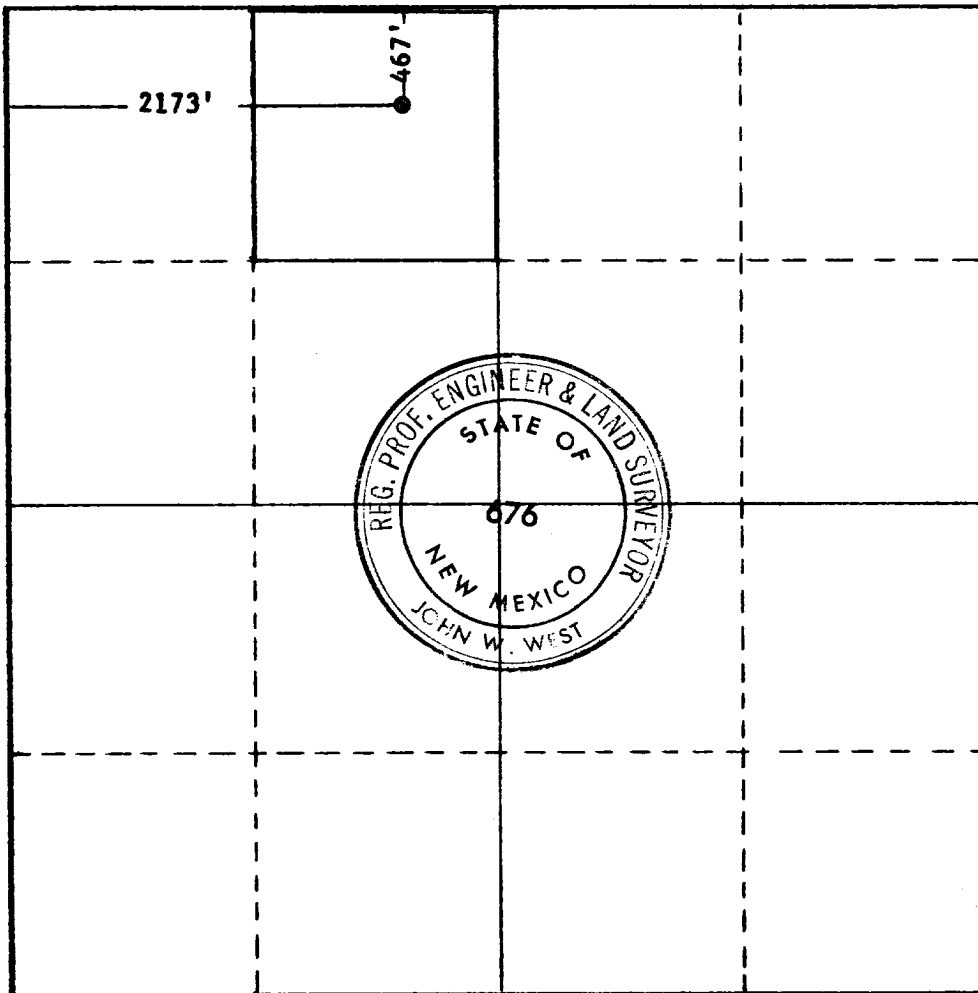
Operator TENNECO OIL COMPANY			Lease STATE "L"		Well No. 20
Unit Letter C	Section 28	Township 17 SOUTH	Range 29 EAST	County EDDY	
Actual Footage Location of Well: 2173' feet from the WEST line and 467 feet from the NORTH line					
Ground Level Elev.	Producing Formation SA	Pool Mr. Jackson	Dedicated Acreage: 40 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 **MAY 20 1966**

If answer is "no," list the owners and tract descriptions which have actually been consolidated. **On reverse side of this form if necessary.** **ARTESIA OFFICE**

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.



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**
 Position **Asst. Prod. Supt**
 Company **Tenneco Oil Co**
 Date **May 18, 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.

Date Surveyed **MAY 13, 1960**

Registered Professional Engineer and/or Land Surveyor

John W. West
 Certificate No.

N.M.P.E. & L.S. 676

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

KENNECO OIL COMPANY

DRILLING PROCEDURE

MIDLAND DISTRICT

SOUTHWESTERN DIVISION

LEASE: State "L"

WELL: No. 20

FIELD: Grayburg-Jackson

STATE: New Mexico

LOCATION: 467' FNL & 2173' FWL, Section 28,
T-17-S, R-29-E, Eddy County, New Mexico

PROJECTED TD: 2900'

TYPE OF WELL: Oil, Pumping

EST. ELEV.: 3550 GL

DRILLING, CASING AND CEMENTING PROGRAM

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MAY 20 1966

P. O. O.
ANTHONY, N. M.

1. Drill 11" hole to 360' with OSC or equivalent.
2. Run and cement 8-5/8", 24#/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.

CRASHING DESIGN

in. O.D.

a. CRASHING

Interval

Length

Height

Grade

Joint

Col.

Top

Base

Top

b. CRASHING

Interval

Length

Height

Grade

Col.

Top

Base

Top

0-360

360

28

H-40

ST&C

Top

Base

Top

Top

c. CRASHING

Interval

Length

Height

Grade

Col.

Top

Base

Top

Interval

Length

Height

Grade

Col.

Top

Base

Top

Top

0-2900

2900

10.5

J-55

8rd.

Top

Base

Top

Top

d. CRASHING

Interval

Length

Height

Grade

Col.

Top

Base

Top

Interval

Length

Height

Grade

Col.

Top

Base

Top

Top

C-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 HEAD EQUIPMENT

1. Use Rammer 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 entire 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 infrastructure.

WELL PIPE REQUIREMENTS

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

DEVIATION

1. Deviation surveys shall be taken on every trip or every 500', whichever is first. All straight hole surveys will accompany AASDC tour sheet reports.
2. Deviation should not change more than $1\frac{1}{2}^{\circ}$ in any 100'. If deviation exceeds 2° per 100', hole shall be plugged back and straightened.
3. Maximum deviation shall be allowed as follows:

0 - 500	1°	4000 - 6000	1°
500 - 1000	$1\frac{1}{2}^{\circ}$	6000 - 8000	5°
1000 - 2000	2°	8000 - 10000	6°
2000 - 4000	3°	12000 - 14000	8°

DRILLING TIME

1. A 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 forms. Mail each sheet as soon as recorded with Daily Drilling Reports.

LOGGING

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

SAMPLES

As directed by geologist

CORES

None

DATA FROM CORES

None

Salt Top	268	Premier Sand	2420
Salt Base	688	San Andres	2443
Yates	688	Colitic	2618
Queen	1758		
Metex	2280		

MINIMUMS
MIDLAND OFFICE

1. The AMCO Daily Drilling Report will be filled out completely and neatly each 8 hour tour. One 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 puncher 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 reports. 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:

LOCATIONS:

EMPLOYEES:

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