



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Drawer 1857
Roswell, New Mexico 88201

Copy to 27.

May 6, 1964

Texaco Inc.
P. O. Box 3109
Midland, Texas

Gentlemen:

Your Notice of Intention to Drill well No. 19 Leo R. Manning Federal "B" NCT-1 (copy attached) in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 18 S., R. 30 E., N.M.P.M., Eddy County, New Mexico, lease New Mexico 033775, to a depth of 3,400 feet to test the Queen 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. 4814, 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.

Sincerely yours,

(ORIG. S&B.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil & Gas Supervisor

Attachment

cc:
Washington
Mining Branch (2)
NMOCC-Artesia (2) (w/2 cys Notice) —
Artesia
Roswell (2)

JAKnauf:hb 5/1/64

RECEIVED

MAY 7 1964

O. C. C.
ARTESIA, OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



The following is a list of the names of the persons who have been employed by the Geological Survey during the year 1900, in the various divisions of the Survey, and the number of months each has been employed.

The names are arranged in alphabetical order, and the number of months is given in parentheses after each name.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.
Red. Lee. #NM-0331756. IF INDIAN, ALLOTTEE OR TRIBE NAME
*****7. UNIT AGREEMENT NAME
*****8. FARM OR LEASE NAME **NCT-1**
Lee R. Manning Red. "B"9. WELL NO.
19

10. LAND AND POOL, OR WILDCAT

N. Benson Queen Grayburg11. SEC., T., E., M., OR BLE.
AND SURVEY OR AREA**Sec. 27, T-18-S, R-30-E**

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

TEXACO INC.

3. ADDRESS OF OPERATOR

P. O. BOX 3109, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

990' FNL and 560' FWL, Sec. 27

At proposed prod. zone

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

6.4 Miles South of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

560'

16. NO. OF ACRES IN LEASE

96017. 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.**1320'**

19. PROPOSED DEPTH

3400'

20. ROTARY OR CABLE TOOLS

Rotary

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

GR-3464

22. APPROX. DATE WORK WILL START*

At once

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10-3/4"	7-5/8"	15.28	475'	500 sacks *
6-3/4"	4-1/2"	9.5	3400'	350 sacks **

* 350 sacks Class "C" 4% gel followed by
150 sacks Class "C" Neat, all with
accelerator** 350 sacks Class "C" Neat containing 10%
salt by weight of cement. This cement
volume should fill to base of salt.
Externally clean casing & install cen-
tralizers & scratchers over prospec-
tive pays.

CASING PROGRAM

Anhydrite	410'
Top of Salt	510'
Base of Salt	1475'
Yates	1675'
Queen	2815'
Total Depth	3400'

MAY 7 1964

Plan to acidize and fracture the North Benson Queen Formation 2800' to
3300'. Will acidize with 1750 gallons acid and fracture with 30,000
gallons refined oil.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


J. A. Velten
(This space for Federal or State office use)

TITLE

Division Civil Engineer

DATE

4/30/64

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

RECEIVED

MAY 5 1964

U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICOcc: Duval Sulfur & Potash Company
Carlsbad, New Mexico

*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.

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

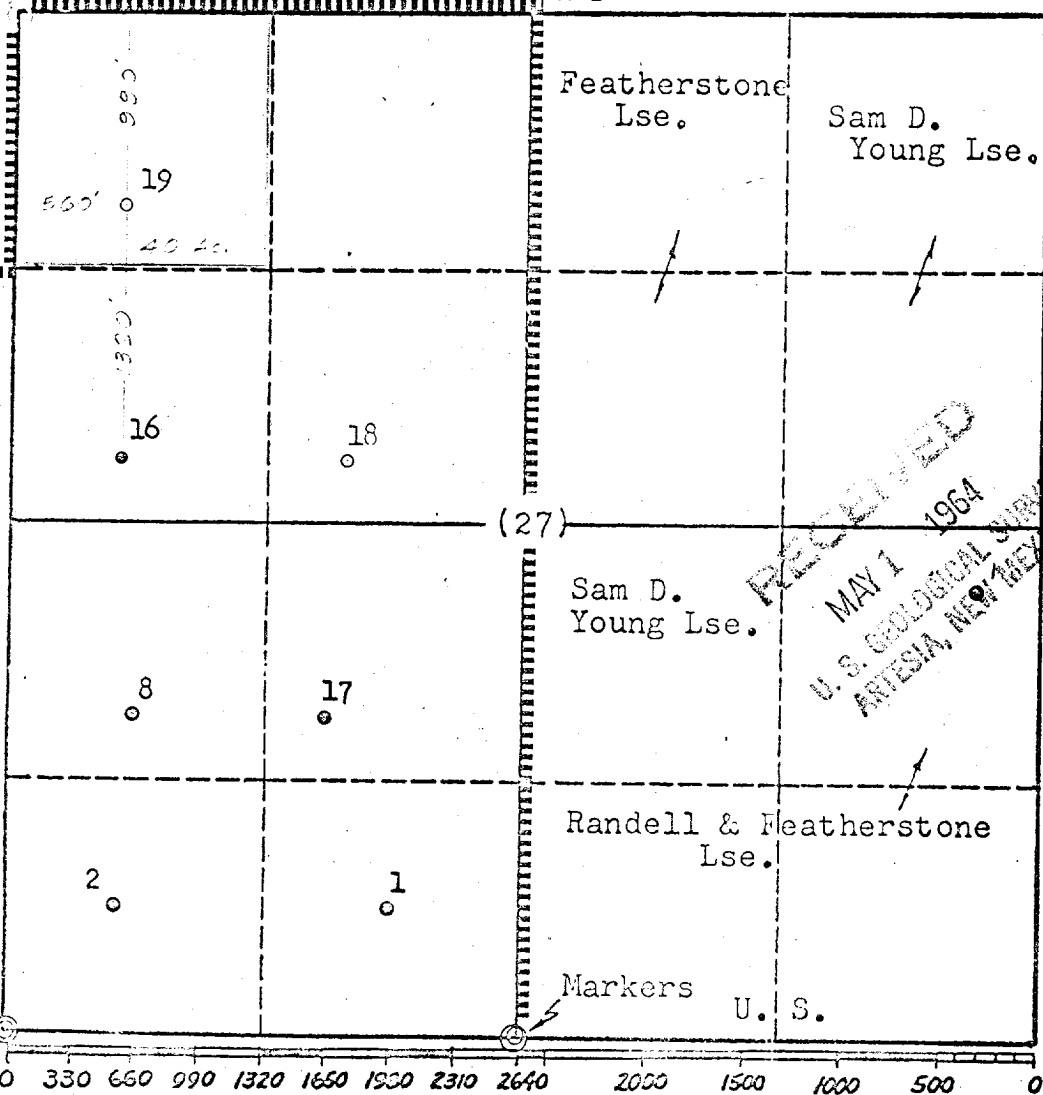
SECTION A

Operator TEXACO Inc.		Lease Leo R. Manning-Federal "B" NCT-1		Well No. 19
Unit Letter D	Section 27	Township 18 South	Range 30 East	County Eddy
Actual Footage Location of Well: 990 feet from the North line and 560 feet from the West line Sec. 27				
Ground Level Elev. 3461	Producing Formation Queen	Pool North Benson Queen-Grayburg	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 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 J. J. Velten
Position
Division Civil Engineer
Company
TEXACO Inc.
Date
4/30/64

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MAY 7 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
4/29/64
Registered Professional Engineer and/or Land Surveyor
J. J. Velten
Certificate No.
8174