



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

February 26, 1965

*Copy to  
J. J.*

Tenaco Inc.  
P. O. Box 3189  
Midland, Texas

Gentlemen:

Attention to Drill well No. 20 Lee R. Manning Federal  
Your Notice attached) in the NE1/4 sec. 27, T. 18 S., R. 30 E.,  
"B" NCT-1 /County, New Mexico, Lease New Mexico 033775, to a  
H.M.P.M., / feet to test the Queen formation, has been forwarded  
depth of a for approval.  
to this

authority delegated to the Regional Oil and Gas Super-  
Pursuant to Drill described in the foregoing.  
vison to Drill described in the foregoing.  
of 1

Atify the District Engineer, Geological Survey, Drawer U,  
P) New Mexico, in sufficient time for a representative to  
all cementing operations.

Sincerely yours,

(ORIG. SGD.) BILLY J. SHOGER

B. J. SHOGER  
Acting Oil and Gas Supervisor

RECEIVED

MAR 1 1965

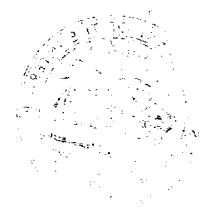
O. C. C.  
ARTESIA, OFFICE

Attachment

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

JAKauf/hb 2/24/65

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



(Orig. 200) BILLY T. SHOGGER

RECEIVED  
GEOLOGICAL SURVEY  
WASHINGTON, D.C.  
JAN 10 1964

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 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'FWL & 1651'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 drg. line, if any)

990'

## 16. NO. OF ACRES IN LEASE

960

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1091'

## 19. PROPOSED DEPTH

3400'

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

QR 3556'

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 13-3/4"      | 10-3/4"        | 32.75 & 21.63#  | 450'          | 350 **             |
| 9-7/8"       | 7-5/8"         | 24 & 15.28#     | 1700'         | 600 ***            |
| 6-3/4"       | 4-1/2"         | 9.5#            | 3400'         | 350 ****           |

\*\* 200 sacks Class "C" 4% gel, followed by 150 sacks Class "C" Neat. Neat to contain accelerator.

\*\*\* Cement with 600 sacks Class "C" 4% gel containing 1% calcium chloride. Use 3.1 pounds salt per gallon of mixing water. Cement to circulate at 1700'

\*\*\*\* Casing to be delivered free of mill lacquer. If not, externally clean. Install centralizer over pay on every joint and on first three joints above pay. Cement with 350 sacks Class "C" Neat containing 10% salt by weight of mixing water.

NOTE: Saturated brine water will be used as drilling fluid - 450' to 1700'

Completion to be through perforations with acid & fracture treatment for stimulation.

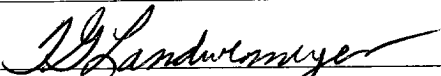
## FORMATION TOPS EXPECTED

|              |       |
|--------------|-------|
| Anhydrite    | 383'  |
| Top of salt  | 513'  |
| Base of salt | 1533' |
| Yates        | 1730' |
| Queen        | 2845' |
| TOTAL DEPTH  | 3400' |

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



TITLE

Civil Engineer

DATE

12/8/64

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

We will comply with R-111A Regulations

\*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 plat, 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**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

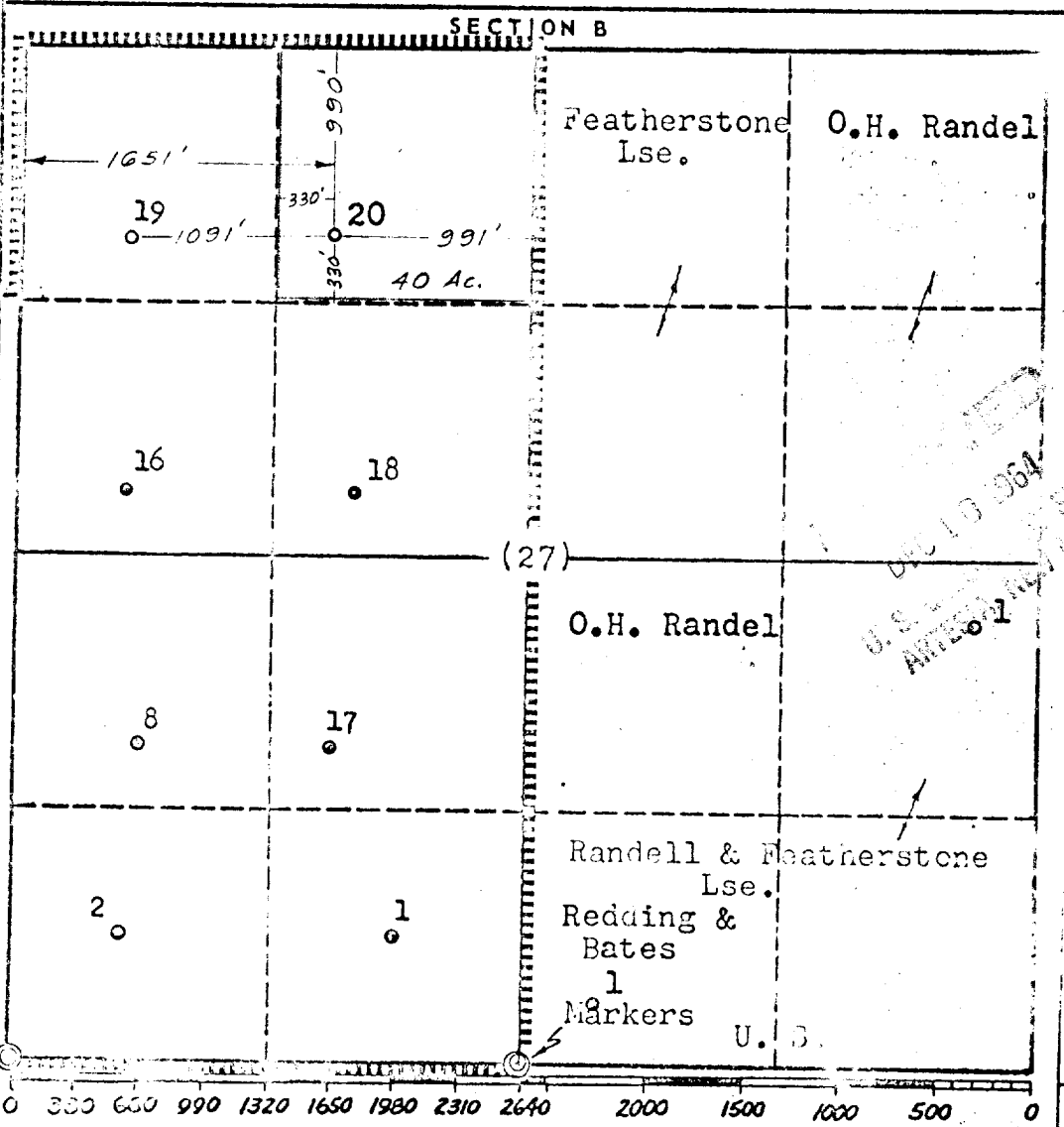
FORM C-128  
 Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

|                                                                                                                                       |                                     |                             |                                                  |                       |                                                      |  |                       |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|--------------------------------------------------|-----------------------|------------------------------------------------------|--|-----------------------|
| Operator<br><b>TEXACO Inc.</b>                                                                                                        |                                     |                             |                                                  |                       | Lease<br><b>Leo R. Manning-Featherstone "B" NCT-</b> |  | Well No.<br><b>20</b> |
| Unit Letter<br><b>C</b>                                                                                                               | Section<br><b>27</b>                | Township<br><b>18 South</b> | Range<br><b>30 East</b>                          | County<br><b>Eddy</b> |                                                      |  |                       |
| Actual Footage Location of Well:<br><b>990</b> feet from the <b>North</b> line and <b>1651</b> feet from the <b>West</b> line Sec. 27 |                                     |                             |                                                  |                       |                                                      |  |                       |
| Ground Level Elev.<br><b>3556</b>                                                                                                     | Producing Formation<br><b>Queen</b> |                             | Pool<br><b>under North Benson Queen-Grayburg</b> |                       | Dedicated Acreage<br><b>40 Acres</b>                 |  |                       |

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 commission action 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 | <b>MAR 1 1965</b>      |
|       |                  | <b>U. C. C.</b>        |
|       |                  | <b>ARTESIA, OFFICE</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 **T. G. Landwermeyer**  
 Position **Civil Engineer**  
 Company **TEXACO Inc.**  
 Date **12/8/64**

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 **9/30/64**  
 Registered Professional Engineer and/or Land Surveyor  
**T. G. Landwermeyer**  
 Certificate No. **17617**