

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

Tenneco Oil Company

## 3. ADDRESS OF OPERATOR

P. O. Box 1714, Durango, Colorado

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

At surface

1190' FSL, 1190' FWL

At proposed prod. zone

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

## 10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

320

## 19. PROPOSED DEPTH

6900'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320 311.6

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6210 GR

## 22. APPROX. DATE WORK WILL START\*

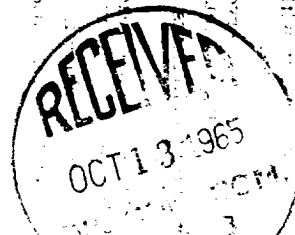
Oct. 13, 1965

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT  |
|--------------|----------------|-----------------|---------------|---|
| 12-1/4       | 8-5/8          | 24#             | 250           | 125 sacks   |
| 7-7/8        | 4-1/2          | 10.5 & 11.6#    | 6900          | 2 stages - 1st stage 200 sacks<br>2nd stage - sufficient to<br>circulate to surface |

We propose to rig up, drill to approximately 6900'. Set long string casing with stage collar set approximately 300' below bottom of Mesaverde. Log, frac and perforate and complete as single Dakota. Run 2-3/8" tubing and test.



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

*Harold C. Nichols*  
Harold C. Nichols

TITLE

Senior Production Clerk

DATE October 11, 1965

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

OCT 21 1965

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

\*See Instructions On Reverse Side

TENNECO OIL COMPANY

Ludwick "A" Lease

1

M 19 30 North 10 West San Juan

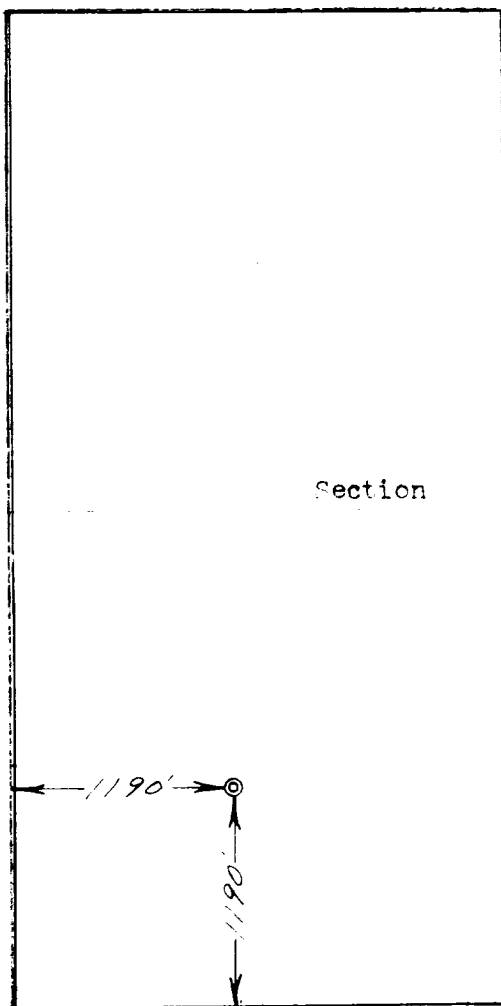
1190 South 1190 West

6210' ungraded Basin Dakota Basin Dakota 34.6 320

1. Outline the ownership of the subject well to colored pencil of accurate record of the past history.
2. If there are any lease(s) to be noted on the well, outline each and identify the ownership interest of the working interest and/or royalty.
3. If more than one lease of different ownership is indicated to the well, have the interests of all owners been fully disclosed by a complete and accurate record of the well history, etc?

Yes \_\_\_\_\_ No \_\_\_\_\_ If any, please specify type of conservation \_\_\_\_\_

It is requested that the following information be furnished to the Bureau of Land Management, Department of the Interior, Washington, D.C. 20540, for the purpose of determining the ownership of the well and the interests of the owners thereof. The information should be furnished to the Bureau of Land Management, Department of the Interior, Washington, D.C. 20540, for the purpose of determining the ownership of the well and the interests of the owners thereof. The information should be furnished to the Bureau of Land Management, Department of the Interior, Washington, D.C. 20540, for the purpose of determining the ownership of the well and the interests of the owners thereof.



Section

19



*Harold C. Nichols*

Harold C. Nichols  
Sr. Production Clerk

Tenneco Oil Company

10-11-65

19 August 1965

*Robert H. Ernst*

N. Mex. 66-18-248