

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

1360 Lincoln St., Suite 1200, Denver, Colorado 80295

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

At surface

660' FNL and 660' FEL

At proposed prod. zone

Unit A

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

## 5. LEASE DESIGNATION AND SERIAL NO.

081208

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

South Hospah Unit

## 8. FARM OR LEASE NAME

## 9. WELL NO.

38

## 10. FIELD AND POOL, OR WILDCAT

Hospah South Unit

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 12, T17N, R9W

## 12. COUNTY OR PARISH

McKinley

## 13. STATE

New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED  
TO THIS WELL18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

1600'

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6938

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

## 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 lb.	71'	75 sacks
7-7/8"	5-1/2"	15.5 lb.	1565'	100 sacks

We propose to deepen this well 35' into the Lower Sand and plug the Upper Sand perforations as follows:

1. MIRUPU. Pull rods & pump. Tag for fill & POH. Install BOPE.
2. GIH w/Fullbore Cementer packer to 1545'. PT Shoe to 2000#. Pull up to 1300' & establish pump in rate, pressure, F.G.
3. Squeeze perfs w/75 sx "B" cmt w/2% CaCl<sub>2</sub>. Reverse out tubing & hold pressure on well. SDON.
4. POH. Do cement & P.T. casing to 1000#.
5. Do Shoe @ 1565' and deepen to 1600'. Tear out BOPE.
6. Run 2 1/4" tubing pump on 2-7/8" tubing to 1565'. Run rods and place w on production. RDMOP'U.
7. Clean location of all debris.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production 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

*D. A. Meyer*

TITLE

Div. Production Manager

DATE

9-13-77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED  
CONDITIONS OF A PERMIT TO DRILL

TITLE

DATE

E. I. McGRATH

\*See Instructions On Reverse Side