

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

720 South Colorado Blvd., Denver, CO 80222

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

At surface

1020' FSL, 1180' FEL

At proposed prod. zone

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

See point 1B, Surface Use Plan

## 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

## 19. PROPOSED DEPTH

7980'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 20. ROTARY OR CABLE TOOLS

Rotary

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

6533' G.L.

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

June 15, 1979

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	9-5/8"	36#	250'	Sufficient to circulate to surface
8-3/4"	7"	23#	3600'	Sufficient to circulate to surface
6-1/4"	4-1/2"	per design	7980'	

1. The geologic name of the surface formation is Tertiary San Jose.

## 2&amp;3 Estimated Formation Tops:

Fruitland	+ 2665'	Menefee	+
Pictured Cliffs	+ 3205'	Point Lookout	+
Lewis Shale	+ 3295'	Mancos	+ 5980'
Cliffhouse	+ 4620'	Gallup	+ 6945'
		Greenhorn	+ 7610'
		Dakota A	+ 7730' possible oil/gas producer
		T.D.	+ 7980' possible oil/gas producer

4. Run 9-5/8" OD, K-55 new casing to + 250' and circulate cement to surface. Run 7" OD, K-55 new casing to + 3600' and cement with Class B cement sufficient to circulate to surface. Drill 6-1/4" hole to T.D., run 4-1/2" liner from T.D. to 340'. Cement liner. Casinghead will be an approved API type.

5. Blowout Preventors: Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2" with variable choke. BOPs will be installed, tested and in working order before drilling below surface casing and shall be maintained ready for use until drilling operations are completed. BOPs, drills and tests will be recorded in the IADC Drilling Report. They shall be checked every 24 hours. All rig equipment will be tested to above BOE ratings.

6. Drilling Mud Program: 0 - 250' spud mud, native solids. Use sufficient viscosity to clean hole and run casing. 250' - 3600' low solids. 3600' - T.D. gas.

## 7. Auxiliary Equipment

- Kelly cock will be in use at all times.
- Stabbing valve to fit drill pipe will be present on floor at all times.
- Mud monitoring will be visual, no abnormal pressures are anticipated in this area.
- Floats at bits.
- Drill string safety valve(s) to fit all pipe in the drill string will be maintained on the rig floor while drilling operations are in progress.
- Rotating head will be used while drilling with gas.

8. No cores will be taken. 30' samples will be taken from surface to 3600'. 30' samples will be taken from 3600' to 6800'. 10' samples will be taken from 6800' to T.D. Well surveys will consist of SP/GR/Induction SN/T.D. to surface. GR/FDC/CNL/Caliper from T.D. to base of Mesaverde.

9. No abnormal pressures or temperatures are anticipated. See point #5 for blowout prevention equipment.

10. The drilling of this well will take approximately 10 days. The gas is ~~not~~ contracted.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depth. Give blowout preventer program, if any.

24.

SIGNED

*D. D. Myers*

TITLE

Div. Production Manager

DATE

March 22, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE