

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 81302

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 990' FSL, 840' FWL

At proposed prod. zone

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

15. 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

7310

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

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

5889 DF

22. APPROX. DATE WORK WILL START*

September 7, 1965

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
6 1/4	4 1/2	10.5#	0-6310	First stage 200 sacks
6 1/4	4 1/2	11.6#	6310-7310	Second stage sufficient to circulate to surface.

We propose to rig up, pull tubing. Clean out to TD 5030. Set 5 1/2" retainer above casing shoe and squeeze open hole 4334-5030 with 450 sacks. Take free point on 5 1/2" casing between 2750 and 3580. Cut off casing and pull out of hole. Spot 75 sacks cement on top of 5 1/2" casing stub. Set whipstock on top of cement plug and kick off 3 1/2" hole to approximate TD 7310. Run GR Density log, caliper and induction log. Run 4 1/2" 11.6# and 10.5# J-55 casing. Cement with stage collar set at approx 300' below bottom of Mesaverde. WOC. Log, perforate and frac both Mesaverde and Dakota formations. Set Baker Model "D" packer between zones and complete as a dual. Conduct packer leakage test and deliverability tests.

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 blow-out preventer program, if any.

24.

SIGNED

Harold C. Nichol

TITLE Senior Production Clerk

DATE 9-2-65

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

DATE

SEP 3 1965

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