

**UNITED STATES
DEPARTMENT OF THE INTERIOR**

(Other instructions on reverse side)

Budget Bureau No. 42-R1425.

AMENDED

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 8405	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1860 Lincoln St., Suite 1200, Denver, Colorado 30203		8. FARM OR LEASE NAME Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 790' FSL and 1190' FEL At proposed prod. zone		9. WELL NO. 19	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2, T25N, R11W	
16. NO. OF ACRES IN LEASE 320.00		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL S/320.00		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		20. ROTARY OR CABLE TOOLS Rotary	
19. PROPOSED DEPTH 6225'		22. APPROX. DATE WORK WILL START* Upon Approval	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6337' GL			

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#/ft.	± 600'	Suff. to circulate to surface Cement in two stages.
7-7/8"	5-1/2"	15.5/ft.	± 6225'	

Plan to drill well as follows:

1. Drill 12 1/4" hole to ± 600'.
2. Set and cement 8-5/8" casing to ± 600' & cement w/sufficient cement to circulate back to surface.
3. Install BOP and test both sets of rams to 1000 psi. for 15 min.
4. Drill 7-7/8" hole to T. D.
5. Set 5 1/2" csg. to T. D. Cement in two stages.
 - a. Cement across Gallup with enough to come out above Gallup.
 - b. Sufficient to cement back to surface casing.
6. This well to be completed through casing perforations and stimulated as necessary to establish commercial production.
7. Clean up area.

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.

SIGNED *D. D. Myers* TITLE Div. Production Manager DATE 8-30-76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

Okaf

*See Instructions On Reverse Side

SEP 2 1976