

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 081208
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME South Hospah Unit
3. ADDRESS OF OPERATOR 1860 Lincoln St., Suite 1200, Denver, Colorado 80295		8. FARM OR LEASE NAME
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		9. WELL NO. 38
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Hospah South Unit
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12, T17N, R9W
16. NO. OF ACRES IN LEASE		12. COUNTY OR PARISH McKinley
17. NO. OF ACRES ASSIGNED TO THIS WELL		13. STATE New Mexico
18. 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% CaCl₂. 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 well 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 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. SIGNED DA Myers TITLE Div. Production Manager DATE 9-13-77

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: