

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 type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 2548	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME --	
2. NAME OF OPERATOR PETROLEUM DEVELOPMENT CORPORATION			7. UNIT AGREEMENT NAME --	
3. ADDRESS OF OPERATOR 9720 B Candelaria, NE, Albuquerque, NM 87112			8. FARM OR LEASE NAME Gulf McKay Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' from the south line, 1980' from the west line, Sec. 34, T18S, R32E. At proposed prod. zone			9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 miles south of Maljamar, New Mexico			10. FIELD AND POOL, OR WILDCAT Querecho Plains Bone Spring	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 34, T18S, R32E	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'			12. COUNTY OR PARISH Lea	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3697 G.L.			13. STATE New Mexico	
16. NO. OF ACRES IN LEASE 800			17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
19. PROPOSED DEPTH 13,086			20. ROTARY OR CABLE TOOLS NA	
22. APPROX. DATE WORK WILL START* April 25, 1980				

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
28"	20"	conductor	40'	5 yds. concrete
17 1/2"	13-3/8"	48#	400'	400 sx. 2% gel. 2% Cacl
11"	8-5/8"	32# & 24#	4240'	550 sx.
7-7/8"	5 1/2"	17#	13,086'	250 sx.

The following work to plug back from Morrow and re-complete in the First Bone Spring Sand will be performed immediately after approval:

1. Install BOP, set plug in top of Guiberson Uni-VI packer @ 12576, release on/off tool, pull tubing. Dump 5 sx. (35') of 10/20 Sand on top of packer.
2. Perforate 5 1/2" casing with 4 jet shots at 8850'. Run Baker Model K retainer on tubing, set @ 8800', cement with 300 sx. Class "H" (original top of cement 8960').
3. WOC 72 hrs. Perforate 8503-13 and 8528-35 with 2 jspf. Run tubing & packer, acidize with 2000 gal. Swab test.
4. Fracture treat, if necessary.
5. Take potential test.

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 Charles W. Sanders TITLE Vice President DATE 4-15-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE APR 22 1980

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side