

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-23161

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 33277	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" 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 Mesa Petroleum Co			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 1000 Vaughn Building / Midland, Texas 79701			8. FARM OR LEASE NAME Derrick Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2160' FNL & 660' FEL, Lot 9 At proposed prod. zone Same			9. WELL NO. 2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 miles SE of Lake Arthur			10. FIELD AND POOL, OR WILDCAT Undesignated Atoka-Morrow	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660' / 1980'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 5, T16S, R28E	
16. NO. OF ACRES IN LEASE 840.45			12. COUNTY OR PARISH Eddy	
17. NO. OF ACRES ASSIGNED TO THIS WELL 270.5			13. STATE N. Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640' West			19. PROPOSED DEPTH 9400'	
20. ROTARY OR CABLE TOOLS Rotary			21. APPROX. DATE WORK WILL START* March 1, 1980	
22. ELEVATIONS (Show whether DF, RT, GR, etc.) 3652.2' GR			23. PROPOSED CASING AND CEMENTING PROGRAM	

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	350'	400 sx-circ to surface
11"	8-5/8"	24#	1900'	1100 sx-circ to surface
7-7/8"	4-1/2"	10.5# & 11.6#	9400'	sufficient to cover all pay

Propose to drill 17-1/2" hole to approximately 350' without BOPs. After cementing 13-3/8" csg and nipping up 10" API 3000 psi BOPs, will drill 11" hole to approximately 1900' using fresh water as drilling fluid. Will cement 8-5/8" casing to surface, then drill 7-7/8" hole to total depth using same BOP arrangement as before (hydraulic pipe rams, blind rams, and annular bag). Maximum mud weight should not exceed 9.4 ppg based upon nearby well data. See attached reports for other details.

Operator's gas is not dedicated.

NSP 1174

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 R. E. Mathis TITLE Regulatory Coordinator DATE January 15, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE 1-5-80APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side
XC: TLS, JWH, JBH, MEC, FILE, WI OWNERS
Accounting Dept. / Central Records