

UNITED STATES  
DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

30-015-23057  
5. LEASE DESIGNATION AND SERIAL NO.  
NM-33277

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Derrick Federal Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Unders Atoka-Morrow

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 5, T16S, R28E

12. COUNTY OR PARISH

Eddy

NM

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

NOV 8 1979

PLUG BACK ☐

b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Mesa Petroleum Co. ✓

O.C.G.  
ARTESIA, OFFICE

3. ADDRESS OF OPERATOR

1000 Vaughn Building/Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

2160' FNL &amp; 1980' FWL, Lot 11

At proposed prod. zone

Same

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

10.5 miles SE of Lake Arthur

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980'

16. NO. OF ACRES IN LEASE

840.45

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

271.21

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

9600

20. ROTARY OR CABLE TOOLS

Rotary

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

3634.6 GR

22. APPROX. DATE WORK WILL START\*

November 1, 1979

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"	11.6#	9600'	Sufficient to cover all pay

Propose to drill 17-1/2" hole to approximately 350' without BOPs. After cementing 13-3/8" casing and nipping up 10" API 3000 psi BOPs, will drill 11" hole to approximately 1900' using brine 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 ram, blind and annular bag). Maximum mud weight should not exceed 9.2 ppg based upon nearby well data. See attached reports for other details.

Operator's gas is not dedicated.

RECEIVED

OCT 15 1979

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

October 11, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

XC: TLS, JWH, JBH, MEC, USGS, FILE, WT OWNERS  
See Instructions On Reverse Side