

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-22940

## APPLICATION FOR PERMIT TO DRILL DEEPEN OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## 5. LEASE DESIGNATION AND SERIAL NO.

NM 6019

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Runyan Federal ☒

## 9. WELL NO.

2

## 10. FIELD AND POOL, OR WILDCAT

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

Section 18-T19S-R23E

## 12. COUNTY OR PARISH

Eddy

## 13. STATE

New Mexico

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

Mesa Petroleum Co

O. C. C.  
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

1980' FNL and 660' FEL

At proposed prod. zone

Same

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

Approximately 12.2 miles (driving distance) south of Hope, N.M.

## 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

908.48

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 18. DISTANCE FROM PROPOSED LOCATION\*

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

1320'

## 19. PROPOSED DEPTH

7900'

## 20. ROTARY OR CABLE TOOLS

Rotary (possibly cable)

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

4081.2' GR

## 22. APPROX. DATE WORK WILL START\*

July 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#	200'	400 sx (sufficient to circ)
12-1/4"	8-5/8"	24#	1750'	1000 sx (sufficient to circ)
7-7/8"	5-1/2"	17#	7900'	800 sx

Propose to drill surface hole with water and possible addition of lost circulation material. Will install bradenhead (13-3/8" x 12" API 3000 psi W.P.) on 13-3/8" casing and drill 12-1/4" hole to approximately 1750' using fresh water and lost circulation material. BOP system will consist of hydraulic pipe and blind rams (12" API 3000 psi). After setting 8-5/8" casing to approximately 1750' and cementing, will then install 12" API 3000 psi x 10" API 3000 psi casinghead spool and nipple up BOP's same as before. Will drill to approximately 3500' using fresh water system. Lower fluid loss and maintain 2-3% KCL from 3500' to 7900' TD. Maximum expected mud weight is 9.6 - 9.7 ppg.

Gas is not dedicated to any purchaser.

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

Steve Douglas

TITLE

Engineer

DATE

5-24-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

6-13-79

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

XC: JLF, MEC, JWH, JWJ, JBH, FILE, USGS

\*See Instructions On Reverse Side