

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-23194

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Mesa Petroleum Co.

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 1980' FWL

At proposed prod. zone

Same

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

Approximately 6 miles (driving distance) south/SE 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'

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

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

3935.8' 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# | 200' | 400 sx (sufficient to circ) |
| 12-1/4" | 8-5/8" | 24# | 1700' | 1200 sx (sufficient to circ) |
| 7-7/8" | 5-1/2" | 17# | 4900' | 350 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 1700' 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 1700' 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 total depth using fresh water system but lowering fluid loss at approximately 4000'. Maximum expected mud weight is 8.3 - 8.4 PPG.

Gas is dedicated to Northern Natural Gas Company.

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. Mathews

TITLE

Regulatory Coordinator

DATE

1-29-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

2-26-80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

xc: USGS (6), PARTNERS, MEC, TLS, JBH, JWH, ACCOUNTING, CENTRAL RECORDS