

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYN. M. OIL CORP. COMMISSION
P. O. BOX 1000
ROSWELL, NEW MEXICO

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

Highland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 6326, Odessa, TX 79767-6326

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

At surface

1650' FNL & 990' FWL of Sec. 20

At proposed prod. zone

Same

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

20 miles SW from Jal, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

330'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

1320

19. PROPOSED DEPTH

4500

20. ROTARY OR CABLE TOOLS

Rotary to 4340, Cable tool to 4380'

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

22. APPROX. DATE WORK WILL START*

October 30, 1983

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24	1000'	125 sx Class C Circulate
7-7/8"	5-1/2"	10.5	4500'	1200 sx HLC/W Class C

Additional Information:

1. Surface formation is Tertiary with some Triassic exposed
2. Estimated geological tops: Rustler - 950', Anhydrite - 1000', Base Salt - 1300' Yates - 3000', Lamar Lime - 4100', Delaware Top - 4300'.
3. Pressure control equipment: Double hydrolic pressure tested to 3000 psi, full closing hydril on top tested to 3000 psi. Pressure control diagram is attached. Testing will be on installation, daily and on trips.
4. Proposed circulating medium: 0-1000' - Spud Mud, 1000-4500' - Brine Water
5. Estimate will encounter water from 890' to 950'.
6. Estimate will encounter oil at 4370'.
7. Logging program: Acoustic velocity gamma ray caliper log; FoRxo guard log.
8. No coring or drill stem testing.
9. No abnormal pressures or temperatures are expected to be encountered.
10. Anticipated starting date is October 30, 1983.

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

Marvin L. Smith

TITLE

President

DATE

10-3-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

A.H. Lopez

TITLE

DATE

11/4/83

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

RECEIVED

NOV 8 1993

O.C.D.
HOBBS OFFICE