

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
(Other instructions on
reverse side)

30-025-30991

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

3. NAME OF OPERATOR
Highland Production Company

4. ADDRESS OF OPERATOR
810 N. Dixie Blvd., Suite 202, Odessa, Texas 79761

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
990' FEL and 990' FSL
At proposed prod. zone
990' FEL and 990' FSL

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
16 Miles SW of Jal, New Mexico

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any) 330'

8. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320'

9. ELEVATIONS (Show whether DF, RT, GR, etc.)
3180 GL

10. NO. OF ACRES IN LEASE
200

11. NO. OF ACRES ASSIGNED TO THIS WELL
40

12. ROTARY OR CABLE TOOLS
Rotary to 4350' and Cable into

13. APPROX. DATE WORK WILL START*
August 6, 1990

14. LEASE DESIGNATION AND SERIAL NO.
LC-062749C

15. IF INDIAN, ALLOTTEE OR TRIBE NAME

16. UNIT AGREEMENT NAME

17. FARM OR LEASE NAME
Conoco "D" Federal

18. WELL NO.
3

19. FIELD AND POOL OR WILDCAT
North Mason (Delaware)

20. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 18, T-26-S
R-32-E, NMPM

21. COUNTY OR PARISH
Lea

22. STATE
New Mexico

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. #	1150'	300 Sacks Class C - Circulate
7 7/8"	5 1/2"	15.5 #	4550'	1000 Sacks HLC w/Class C - Circ

Additional Information:

- Surface formation is Tertiary with some Triassic exposed.
- Estimated geological tops: Rustler - 950'; Anhydrite - 1,050'; Top Salt 1,300'; Castile - 3,000'; Lamar Lime - 4,100'; Top of Delaware - 4,350'.
- Pressure control equipment: Double hydraulic pressure tested to 3,000 PSI, full closing hydril on top tested to 3,000 PSI. Pressure control diagram is attached. Testing will be on installation, daily and on trips.
- Proposed circulating medium: 0-1,100' Spud Mud; 1,100' - 4,550' Brine Water.
- Estimate will encounter water from 890' to 950'.
- Estimate will encounter oil at 4,352'.
- Logging Program: Acoustic velocity gamma ray caliper log: FoRoxo Guard Log.
- No coring or drill stem testing.
- No abnormal pressures or temperatures are expected to be encountered.
- Anticipated starting date is August 6, 1990.

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 July 18, 1990
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 8-27-90
CONDITIONS OF APPROVAL, IF ANY: _____

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED