

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-015-23290

5. LEASE DESIGNATION AND SERIAL NO.  
NM-010907 A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Empire Fed. ~~USA~~ Comm9. WELL NO.  
110. FIELD AND POOL OR WILDCAT  
Undesignated11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
44-1  
Sec 34 T-18-S R-29-E12. COUNTY OR PARISH 13. STATE  
Eddy N.M.

## 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 ☒RECEIVED  
MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Southland Royalty Company ✓

3. ADDRESS OF OPERATOR

1100 Wall Towers West, Midland, Texas 79701

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

At surface

1980 FNL 1980 FEL Sec 34 T-18-S R-29-E

At proposed prod. zone

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

7 miles southwest of Loco Hills, N.M.

15. DISTANCE FROM PROPOSED\*

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

660'

16. NO. OF ACRES IN LEASE

320

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.

NA

19. PROPOSED DEPTH

11,450'

20. ROTARY OR CABLE TOOLS

Rotary

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

3420 GR

22. APPROX. DATE WORK WILL START\*

May 15, 1980

23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 15"          | 11 3/4"        | 42#             | 350'          | 275 sx. Circ.      |
| 11"          | 8 5/8"         | 24#             | 3200'         | 1180 sx. Circ.     |
| 7 7/8"       | 4 1/2"         | 11.6#           | 11,450'       | 735 sx.            |

Propose to set 11 3/4" csg. to 350', circ. cmt. Set 8 5/8" csg @ 3200' circ. cmt. Drill to TD of 11,450' to test Morrow & intermediate horizons. If commercial, will run 4 1/2" csg to TD. Cmt. w/sufficient cmt. to bring cmt. back above all productive zones or to approx. 8500' if Morrow only productive. If intermediate horizons indicate production will run DV tool @ 9600'+ and use additional cmt volumes to obtain better cmt over intermediate zone. Will perf & stimulate Morrow for production. Acid treatment to be determined on sand interval present, will use approx. 200 gals/ft. MUD PROGRAM: 0-350' spud mud; 350-3200' brine wtr, paper for lost circ & seepage; 3200-7500' fresh wtr; 7500-9500' cut brine wtr. 9.5#/gal; 9500-TD Flosal, Drispac, starch & gel bring wt. to 10.0#/gal. vis 40 cc w/ 6cc through the Morrow. No abnormal pressures anticipated w/BHP at TD expected to be 4000 psi BOP PROGRAM: BOP to be installed on 11 3/4" double 10" Ser 900. BOP to be installed on 8 5/8" double 10" Ser 900 plus 10" Ser 900 Hydril plus drilling head. Yellow Jacket, Inc. to test 8 5/8" installation. BOP to be tested by rig daily. GAS IS NOT DEDICATED.

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

*C. Harney Can*

TITLE

District Engineer

DATE

3-5-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

4-15-80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: