

N. M. OIL CONS. COMMISSION  
P. O. BOX 30  
HOBBS, NEW MEXICO 88240SUBMIT IN TRIPL  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-025-28641  
5. LEASE DESIGNATION AND SERIAL NO.

NM 20980

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Vaca Ridge "21" Federal Com.

9. WELL NO.

1

10. KIND AND POOL OF WILDCAT

Pitchfork Ranch (Morrow)

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

Sec. 21, T-24-S, R-34-E

12. COUNTY OR PARISH

13. STATE

Lea

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 ☒MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

21 Desta Drive, Midland, Texas 79705

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

At surface

660' FSL &amp; 1980' FEL, Sec. 21, T-24-S, R-34-E

At proposed prod. zone

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

24 miles west of Jal, New Mexico

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. 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 APPLIES FOR, ON THIS LEASE, FT.

N.A.

19. PROPOSED DEPTH

15,300'

20. ROTARY OR CABLE TOOLS

Rotary

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

3500.5' GR

22. APPROX. DATE WORK WILL START\*

3-15-84

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"	54.5#	600'	500 sx. Circulate
12 1/4"	9 5/8"	36#	5150'	2250 sx. Circulate
8 3/4"	7"	26#	13,000'	1600 sx.
6 1/8"	4 1/2"	15.10#	15,300'	470 sx.

Set 20" conductor @ 40'. Drl 17 1/2" hole & set 13 3/8" csg @ 600'. Circ cmt. Drl 12 1/4" hole & set 9 5/8" csg @ 5150'. Circ cmt. Drl 8 3/4" hole & set 7" csg @ 13,000'. Circ cmt up to 5150'. Drl 6 1/8" hole & set 4 1/2" liner from 12,700' to 15,300'. Complete in Morrow thru 2 7/8" tbg and PBR set in top of liner.

MUD PROGRAM: 0-600' spud mud; 600-5150' brine water; 5150-13,300' cut brine water; 13,000-14,450' brine; 14,450-15,300' invert oil base. MW 12.5#, VIS 80, BHP @ TD expected to be 8800 psi.

BOP PROGRAM: 13 5/8"-3M annular BOP to be installed on 13 3/8" csg. 11"-10M BOP stack to be installed on 9 5/8" and left on for remainder of drilling. Stack to consist of drilling head, annular BOP, blind ram BOP and two pipe ram BOP's. Test BOP's after setting 9 5/8" csg & 7" csg w/Yellow Jacket, Inc.

## GAS 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

*Danell Roberts*

TITLE

Operations Engineer

DATE

3/9/84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

\*Orig. Sgd. Earl R. Cunningham

TITLE

District Manager

DATE

MAR 12 1984

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

RECEIVED

MAR 13 1997

MOBIL