

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 & 1980' FWL, Sec. 28, T-18-S, R-33-E

At proposed prod. zone

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

9 miles southeast of Maljamar, New Mexico

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

80

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80

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.)

3780' GR

22. APPROX. DATE WORK WILL START*

10-1-88

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#	350'	Circ w/350 sx. Cl "C"
12 1/4"	8 5/8"	24 & 28#	2900'	Circ w/+1400 sx. Lite "C"
7 7/8"	5 1/2"	15.5 & 17#	11,450'	2100 sx. TOC @ 2900'

Drill 17 1/2" hole to 350'. Set 13 3/8" csg @ 350'. Cmt w/350 sx Cl "C". Circ. Drill 12 1/4" hole to 2900'. Run fluid caliper. Set 8 5/8" csg @ 2900'. Lead w/1200 sx. Lite "C". Tail in w/200 sx Cl "C", circ. Drl to TD to test Middle & Lower Wolfcamp. If commercial run 5 1/2" csg to 11,450'. Cmt w/sufficient volume to bring above all prospective zones. Est TOC @ 2900'. Perf & stimulate Wolfcamp for production.

MUD PROGRAM: 0-350' spud mud; 350-2900' brine; 2900-10,300' cut brine & sweeps (chlorides 30,000+) 10,300-TD cut brine & Drispac. MW 9.0-9.2 (Solids must be less than 5% w/VIS 32-36).

BOP PROGRAM: 13 5/8"-2M annular BOP to be installed on 13 3/8" csg. 11"-3M stack to be installed on 8 5/8" & left on for remainder of drlg. Stack to consist of annular BOP, blind ram BOP & one pipe ram BOP. Test BOP's after setting 8 5/8" csg with an independent tester.

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

Cathy Nohr

TITLE

Operations Tech III

DATE

8/26/88

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY *Orig. Signed by Richard L. Manus*

AREA MANAGER

CONDITIONS OF APPROVAL, IF ANY:

TITLE

CARLSBAD RESOURCE

DATE

11/29/88

*See Instructions On Reverse Side