

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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 Co.

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

At proposed prod. zone

Same

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

10 miles SE of Maljamar

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980

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.

N.A.

19. PROPOSED DEPTH

14,000

20. ROTARY OR CABLE TOOLS

Rotary

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

3783.3 ' GR.

22. APPROX. DATE WORK WILL START*

11-15-79

23.

DRILLING OPERATIONS AUTHORIZED
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"
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#	370	400 sxs
11"	8 5/8"	28 & 32#	5100	1850 sxs
7 7/8"	5 1/2"	17 & 20#	14,000	815 sxs

Propose to set 13 3/8" csg @ 370', Circ. cmt. Set 8 5/8" csg @ 5100', Circ. cmt. Drill to TD of 14,000' to test Morrow & intermediate Horizons. If commercial will run 5 1/2" csg. to TD. Cmt w/sufficient cmt. to bring cmt. back above all productive zones or to approx. 10,000', if Morrow only productive. If intermediate horizons indicate production, will run DV tool @ 8500' + & use additional cmt. volumes to obtain better cmt. over intermediate zone. Will perforate & stimulate Morrow for production acid treatment to be determined on sand interval present, will use approx. 250 gal/ft. MUD PROGRAM: 0-350' spud mud; 350-5100' brine wtr., gel, paper for lost circ. and seepage; 5100-9000' fresh wtr., 9000-10,000' cut brine wtr. 9.0#/gal.; 10,000-11,000' cut brine wtr. 9.5#/gal.; 11,000-12,000' cut brine wtr. with gel & wt. material 10.5#/gal. vis 35 wl 20-25 cc; 12,000-TD starch, gel, Floseal, Drispac 11.00#/gal. vis 38 wl 8-10 cc. thru Morrow. No abnormal pressures anticipated w/BHP at TD expected to be 7000#. (OVER)

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

10-18-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

APPROVED
AS AMENDED
NOV 23 1979
ACTING DISTRICT ENGINEER