

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Midland, TX 88210

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

1980' FSL & 1980' FEL, Sec. 27, T-17-S, R-29-E

At proposed prod. zone

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

4 miles southwest of Loco Hills

15. DISTANCE FROM PROPOSED*

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

2710'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1800'

16. NO. OF ACRES IN LEASE

1160

19. PROPOSED DEPTH

3500'

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

NA

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

3557' GR

23.

22. APPROX. DATE WORK WILL START*

12-29-86

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Unknown	8 5/8"	24#	365'	50 SX.
Unknown	7"	20#	2750'	100 SX.

See Attached Procedure.



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 Hobbs

TITLE Engineering Tech III

DATE 12/15/86

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Orig. Sgd. Linda S. C. Rundell

APPROVED BY

Acting Area Manager

TITLE

DATE

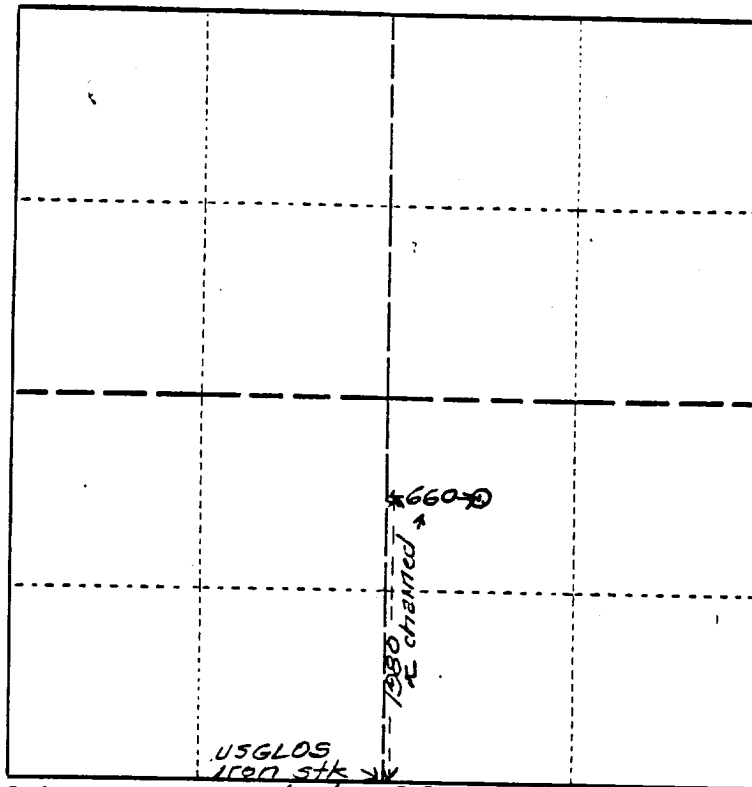
1-13-87

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

1. MIRUPU. POH w/rods & pmp. ND WH. NU BOP. POH w/tbg.
2. RIH w/7" RBP & pkr. Set RBP @ $\pm 2000'$. Press test to $\pm 1000\#$. Spot $\pm 20'$ snd. RU electric line. Perf 2 sqz holes @ $\pm 410'$ or $\pm 50'$ below surf csg.
3. Tie onto 7" csg. Break circ to surf between 7" & 8 5/8" w/10 ppg brine. Pmp ± 50 sx Lite-weight Cl "C" cmt w/18# salt per sx + 1/4# flocele/sx. Attempt to circ to surf. Close in bradenhead & attempt to obtain $\pm 500\#$ sqz. Displ cmt in 7" to $\pm 50'$ of sqz holes. SDFN.
4. RU rev unit w/ ± 400 hp. RIH w/6 1/4" mill tooth bit on DP. DO cmt by reverse circ. Press test sqz perfs to $\pm 500\#$. Clean out to RBP. POH.
5. RIH w/RBP retrieving head. Release & POH w/RBP. Set $\pm 2-500$ bbl tanks & fill with prod wtr.
6. RIH w/6 1/4" journal bearing insert bit on $\pm 20-4$ 3/4" DC's & 3 1/2" DP. Load hole. Clean out open hole to original TD 2950'. Deepen to 3500' with pulling & reverse units running 24 hrs & conventional drilling at ± 45 RPM.
7. Drift & visually inspect $\pm 3800'$ 4 1/2" 10.5# csg ruff coated @ btm $\pm 300'$ & 200' @ 2700-2900'.
8. At TD circ hole clean. POH w/bit. RIH w/4 1/2" full length liner.
9. While rotating liner: Circ & displ annular volume twice. Pmp ± 500 gals reactive spacer ± 400 sx 50/50 poz mix Cl "C" cmt.
10. Install 4 1/2" x 7" 2000# csg head. Cut off excess 4 1/2" csg. SDFN.
11. RU reverse unit. RIH w/3 7/8" bit & $\pm 6-2$ 7/8" DC's. DO float collar & cmt to float shoe. Circ hole clean. POH w/bit.
12. RU elec line. Run GR-CNL-CCL log from PB to $\pm 2000'$. Run GR-CBL from PB to $\pm 2000'$, twice.
13. Block sqz & perf Keely as determined by logs.
14. RIH w/trtg pkr to btm perf. Spot ± 200 gals 15% HCl. Pull & set pkr @ $\pm 100'$ above top perf.
15. Break dwn perfs & pmp away spot acid. Open pkr by pass & pmp acid to pkr. Close by pass & acdz Keely perfs w/ ± 2000 gals + RCNBS + additives @ min 4 BPM. Anticipated trtg press = 2500#. Max press = 6000#. Flush to btm perf.
16. Swb acid load back & eval to Frac.
17. If frac needed, set $\pm 2-500$ bbl frac tanks. Frac Keely perfs w/ $\pm 40,000$ gals of low residue cross-linked wtr plus $\pm 60,000$ #20/40 snd dwn 2 3/8" tbg set @ ± 15 BPM. Flush to $\pm 50'$ above top perf. SDFN.
18. POH w/pkr. RIH w/ $\pm 3360'$ 2 3/8" tbg, SN @ $\pm 3360'$, perf sub & mud anchor w/bull plug to $\pm 3400'$.
19. RIH w/rods & pmpg. RDPU. Start well pmpg.

Company Southland Royalty Company
Lease Robinson Jackson Unit Tr. 1 Well No. 8
Sec 27 T. 17 S., R. 29 E., N.M.P.M.
Location NW 1/4, SE 1/4
County Eddy New Mexico



Scale 4" = 1 mile. marked $\frac{1}{4} \frac{527}{534}$

RECEIVED BY
JAN 14 1987
O. C. D.
ARTESIA, OFFICE

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This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:
Artesia, New Mexico

[Signature]
Registered Professional
Engineer and Land Surveyor.

Surveyed March 17, 1946