

**UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

HOBBS, NEW MEXICO 88240

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

NM 17241

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Vaca Ridge "20" Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Pitchfork Ranch (Morrow)

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

Sec. 20, T-24-S, R-34-E

12. COUNTY OR PARISH

Lea

13. STATE

N.M.

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

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' FEL & 660' FSL, Sec. 20, T-24-S, R-34-E

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED **12-30-83** 16. DATE T.D. REACHED **3-9-84** 17. DATE COMPL. (Ready to prod.) **3-30-84** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **3519' GR** 19. ELEV. CASINGHEAD **-**

20. TOTAL DEPTH, MD & TVD **15,136'** 21. PLUG BACK T.D., MD & TVD **15,055'** 22. IF MULTIPLE COMPL., HOW MANY* **→** 23. INTERVALS DRILLED BY **XX** ROTARY TOOLS **XX** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

14,386-14,742' Morrow

26. TYPE ELECTRIC AND OTHER LOGS RUN

CNL/FDC w/GR & Cal, GR DIL/CNL & FDC w/Cal

25. WAS DIRECTIONAL SURVEY MADE

Yes

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	599'	17 1/2"	300 sxs Lite + 200 C1 "C"	Circ.
9 5/8"	36.0#	5173'	12 1/4"	1800 sxs Lite + 450 C1 "C"	Circ.
7"	26#	12,990'	8 3/4"	1550 sxs H Lite + 500 C1 "H"	TQC 5300'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	12,590'	15,136'	270		2 7/8"	12,562'	12,562'

31. PERFORATION RECORD (Interval, size and number)

14,386-92' (.375) 7 holes
14,432-46' (.375) 15 holes
14,462-72' (.375) 11 holes
14,656-62' (.375) 7 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) **14,386-14,662'** AMOUNT AND KIND OF MATERIAL USED **Acidz w/7500 gal 7 1/2% acid + 1000 SCF N₂/bbl**

33.* PRODUCTION

DATE FIRST PRODUCTION **6-3-85** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Flowing** WELL STATUS (Producing or shut-in) **Producing**

DATE OF TEST **6-3-85** HOURS TESTED **1** CHOKE SIZE **4.5/64"** PROD'N. FOR TEST PERIOD **→** OIL—BBL. **0** GAS—MCF. **562** WATER—BBL. **0** GAS-OIL RATIO **-**

FLOW. TUBING PRESS. **7250#** CASING PRESSURE **-** CALCULATED 24-HOUR RATE **→** OIL—BBL. **0** GAS—MCF. **562** WATER—BBL. **0** OIL GRAVITY-API (CORR.) **-**

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

35. LIST OF ATTACHMENTS

Logs, Inclination Survey, C-104, Temperature Survey, C-122, Plat

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Darrell Roberts

TITLE

Operations Engineer

DATE

6/11/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

m/p