Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

5. LEASE DESIGNATION AND SERIAL NO.: SF-077652

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: East

9. WELL NO.: 13

10. FIELD AND POOL, OR WILDCAT: Basin Fruitland Coal

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.24,T-31-N,R-12-W NMPM

2. NAME OF OPERATOR: Southland Royalty Co

3. ADDRESS OF OPERATOR: PO Box 4289, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1160'S, 1560'W
At top prod. interval reported below
At total depth

RECEIVED
OCT 1 1990
OIL CON. DIV.
DIST. 3

14. PERMIT NO.: 30-045-20477 DATE ISSUED:

12. COUNTY OR PARISH: San Juan 13. STATE: NM

15. DATE SPUDDED: 5-8-69 16. DATE T.D. REACHED: 5-10-69 17. DATE COMPL. (Ready to prod.): 08-23-90 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: 6066'GR 19. ELEV. CASINGHEAD:

20. TOTAL DEPTH, MD & TVD: 2605' 21. PLUG BACK T.D., MD & TVD: 2540' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → ROTARY TOOLS: yes CABLE TOOLS:

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Fruitland Coal (2448-2528')

25. WAS DIRECTIONAL SURVEY MADE: no

26. TYPE ELECTRIC AND OTHER LOGS RUN: GR-CCL, NCL

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
8 5/8"	24.0#	114'	12 1/4"	60 sx	
4 1/2"	9.5#	2605'	6 3/4"	250 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	2508'	

31. PERFORATION RECORD (Interval, size and number)
2448-49', 2504-22', 2527-28' w/2spf

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2448-2528'	5000 gal.2% KCl, 25,000gal methanol, 7895 gal.15% HCl 33 gal FS2. Flush w/25 bbls2% KCl

33.* PRODUCTION

DATE FIRST PRODUCTION: shut in, capable of commercial hydrocarbon production
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump):
WELL STATUS (Producing or shut-in):

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
SI 468	SI 468					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): to be sold BHP @ 2500' 494

TEST WITNESSED BY:

ACCEPTED FOR RECORD
SEP 24 1990
FARMINGTON RESOURCE AREA
BY

35. LIST OF ATTACHMENTS: none

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

SIGNED [signature] TITLE Regulatory Affairs DATE 9-10-90

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

37. **SUMMARY OF POROUS ZONES:** (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ojo Alamo	910	959'	White, cr-gr ss.
Kirtland	959'	2123'	Gry sh interbedded w/tight, gry, fine-gr ss.
Fruitland	2123'	2544'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.
Pictured Cliffs	2544'	2605'	Bn-Gry, fine grn, tight ss.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Ojo Alamo	910'	
Kirtland	959'	
Fruitland	2123'	
Pic.Cliffs	2544'	