

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. REMVR. ☐ Other ☐

2. NAME OF OPERATOR
Southland Royalty Company

3. ADDRESS OF OPERATOR
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

P.O. Drawer 570, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface (C) 960' FNL & 1720' FWL

At top prod. interval reported below

At total depth

5. LEASE DESIGNATION AND SERIAL NO.

NM-03991

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hill Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Gavilan Mancos

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

Section 24, T25N, R2W

12. COUNTY OR PARISH

Rio Arriba

New Mexico

15. DATE SPUDDED 6-24-85 16. DATE T.D. REACHED 7-10-85 17. DATE COMPL. (Ready to prod.) 9-17-85 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* 7480' KB 19. ELEV. CASINGHEAD 7468' GL

20. TOTAL DEPTH, MD & TVD 8192' 21. PLUG BACK T.D., MD & TVD 8152' 22. IF MULTIPLE PLUGS, HOW MANY? 23. INTERVALS COMPLETED BY ROTARY TOOLS 0-8192' CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6963'-7596' (Mancos) 25. WAS DIRECTIONAL SURVEY MADE Devotional

26. TYPE ELECTRIC AND OTHER LOGS RUN Induction, CDL/CNL and CBL 27. WAS WELL CORRED No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.30#, K-55	432'	12-1/4"	250 sxs (295 cu.ft.) Circ	to surface
5-1/2"	17#, N-80	8192'	7-7/8"	Stage 1: 365 sxs (464 cu.ft.)	Good circ.
and	15.50#, K-55			Stage 2: 210 sxs (350 cu.ft.)	Good circ.
				Stage 3: 350 sxs (969 cu.ft.)	Good circ.

LINER RECORD					TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
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31. PERFORATION RECORD (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
Mancos - Total 43 holes 6963', 6973', 6980', 6990', 7000', 7008', 7022', 7035', 7042', 7050', 7058', 7064', 7072', 7082', 7098', 7108', 7148', 7155', 7164', 7172', 7180', 7194', 7203', 7220', 7233', 7250', 7264', 7273', 7286', 7294'	DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 6973'-7108' Fracd with 99,078 gals 30# gel with 2% KCl water & 92,500# 20/40 sand. 7148'-7596' Fracd with 131,208 gals 30# gel with 2% KCl and 125,000# 20/40 sand

33. CONTINUED OTHER SIDE** PRODUCTION							
DATE FIRST PRODUCTION				PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			
11-01-85				Flowing			
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.
11-01-85		24	1-1/2"	→	202	984	18
FLOW. TUBING PRESS.		CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)
75 psi		400 psi	→	---	---	---	---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be Sold TEST WITNESSED BY Jerry Hatley

35. LIST OF ATTACHMENTS

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

SIGNED Arthur J. Greengard TITLE Secretary

DATE 11-07-85

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONTINUED ITEM #31: 7302', 7315', 7326', 7333', 7347', 7403', 7410', 7428', 7462',
7470', 7480', 7490', 7503', 7575', 7583', 7596'.

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):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
<u>ESTIMATED</u>						
Ojo Alamo	3210'					
Fruitland	3439'					
Pictured Cliffs	3524'					
Chacra	4080'					
Cliff House	5286'					
Point Lookout	5734'					
Greenhorn	7813'					
Graneros	7891'					
Dakota	8037'					

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2. NAME OF OPERATOR
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3. ADDRESS OF OPERATOR
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At total depth

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NM-03991

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7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hill Federal

9. WELL NO.

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10. FIELD AND POOL, OR WILDCAT

Greenhorn-Graneros-Dakota

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

Section 24, T25N, R2W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED 6-24-85 16. DATE T.D. REACHED 7-10-85 17. DATE COMPL. (Ready to prod.) 9-10-85 TA 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* 7480' KB 19. SLEV. CASINGHEAD 7468' GL

20. TOTAL DEPTH, MD & TVD 8192' 21. PLUG BACK T.D., MD & TVD 8152' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-8192' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7822'-7888' (Greenhorn) 7969'-8090' (Dakota) 25. WAS DIRECTIONAL SURVEY MADE Deviational

26. TYPE ELECTRIC AND OTHER LOGS RUN Induction, CDL/CNL and CBL 27. WAS WELL CORRED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.30#, K-55	432'	12-1/4"	250 sacks (295 cu.ft.)	rc to surface
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29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
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30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

Greenhorn - 9 holes
7822', 7829', 7835', 7847', 7855', 7863',
7871', 7879', 7888'.
Dakota - 9 holes: 7969', 7974', 8014',
8020', 8068', 8071', 8075', 8087', 8090'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7822'-7888'	Fract with 70,700 gals 70 Q foam, 5000# 100 mesh sand and 40,100# 20/40 sand.
7969'-8090'	Fract with 5000# 100 mesh sand, 50,000# 20/40 sd and 91,980 gals 30# gel w/2% KCL water.

33. PRODUCTION

DATE FIRST PRODUCTION -- PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL TEMPORARILY ABANDONED - EVALUATING WELL STATUS (Producing or shut-in) Shut In

DATE OF TEST -- HOURS TESTED -- CHOKER SIZE -- PROD'N. FOR TEST PERIOD -- OIL—BSL. -- GAS—MCF. -- WATER—BSL. -- GAS-OIL RATIO --

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY --

35. LIST OF ATTACHMENTS

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

SIGNED

Esther J. Greaney
NOV 20 1985
CON. DIV. SECRETARY

DATE 11-07-85

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NMCCG

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38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
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