

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(See other in-  
structions on  
reverse)

Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

SE-077317

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Cooper #11

API WELL NO.

30-045-28567

10. FIELD AND POOL, OR WILDCAT

Croach Mesa MV

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

Sec 6, T-29-N, R-11-W  
NMJM

12. COUNTY OR PARISH

San Juan

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ DRY ☐ Other

1. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. KRNVR. ☐ Other

2. NAME OF OPERATOR

Southland Royalty Co

3. ADDRESS AND TELEPHONE NO.

PO Box 4289, Farmington, NM 87499

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

At surface

1140'FSL, 1450'FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

07-29-91

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

09-07-91

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\*

5755'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4759'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

Crouch Mesa Mesa Verde 3609-4549'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-IDT-CNL-ML, CAST

27. WAS WELL CORRED

no

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 8 5/8"            | 24.0#           | 224'           | 12 1/4"   | surf 188 cu.ft.                 |               |
| 4 1/2"            | 10.5#           | 4759'          | 7 7/8"    | surf 2830 cu.ft.                |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) |
|------|----------|-------------|---------------|-------------|
|      |          |             |               |             |

30. TUBING RECORD

| SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------------|-----------------|
| 2 3/8" | 4207'          |                 |

31. PERFORATION RECORD (Interval, size and number)

3609-4549' w/1 spf 0.32" holes 35 holes

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 3609-4549'          | 157,000#sand; 185,842 gal.fluid  |

33. PRODUCTION

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

| DATE OF TEST        | HOURS TESTED    | CHOKE SIZE              | PROD'N. FOR TEST PERIOD | OIL—BSL.   | GAS—MCF.                | WATER—BSL. | GAS-OIL RATIO |
|---------------------|-----------------|-------------------------|-------------------------|------------|-------------------------|------------|---------------|
| 04-14-94            | 3 hrs           | 1/2" orifice            | 248 mcf                 |            |                         |            |               |
| FLOW, TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL—BSL.                | WATER—BSL. | OIL GRAVITY-API (CORR.) |            |               |

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

to be sold

TEST WITNESSED BY

K. Johnson

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 Representative

ACCEPTED FOR RECORD

DATE

\*(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

NMOOD OPERATOR

BY

FARMINGTON DISTRICT OFFICE

Smn

RECEIVED  
MAY - 9 1994

OIL CON. DIV.  
DIST. 3

MAY 26 1994

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

| FORMATION       | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC.                                                    | NAME       | TOP         |                  |
|-----------------|-------|--------|--------------------------------------------------------------------------------|------------|-------------|------------------|
|                 |       |        |                                                                                |            | MEAS. DEPTH | TRUE VERT. DEPTH |
|                 |       |        |                                                                                |            |             |                  |
| Ojo Alamo       | 576   | 713'   | White, cr-gr ss.                                                               | Ojo Alamo  | 576'        |                  |
| Kirtland        | 713'  | 1653'  | Gry sh interbedded w/tight, gry, fine-gr ss.                                   | Kirtland   | 713'        |                  |
| Fruitland       | 1653' | 1916'  | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.         | Fruitland  | 1653'       |                  |
| Pictured Cliffs | 1916  | 2615'  | Bn-Gry, fine grn, tight ss.                                                    | Pic.Cliffs | 1916        |                  |
| Chacra          | 2615' | 3513'  | Gry fn grn silty, glauconitic sd stone w/drk gry shale                         | Chacra     | 2615        |                  |
| Mesa Verde      | 3513' | 3644'  | Light gry, med-fine gr ss, carb sh & coal                                      | Mesa Verde | 3513        |                  |
| Menefee         | 3644' | 4256'  | Med-dark gry, fine gr ss, carb sh & coal                                       | Menefee    | 3644        |                  |
| Po. Lookout     | 4256' | 4759'  | Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation | Pt.Lookout | 4256        |                  |
| Mancos          | na'   | na'    | Dark gry carb sh.                                                              | Mancos     | na          |                  |

38. GEOLOGIC MARKERS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

(See other in-  
structions on  
reverse side)

OMB NO. 1004-0137  
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

SF-077317

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME, WELL NO.

Cooper #11

10. API WELL NO.

30-045-28567

11. FIELD AND POOL, OR WILDCAT

Crouch Mesa MV

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

Sec 6, T-29-N, R-11-W  
NMPM

12. COUNTY OR  
PARISH  
San Juan

13. STATE  
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

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

2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. EXHAUST ☐ Other 94 MAR -7 PM 4:2

2. NAME OF OPERATOR

Southland Royalty Co

3. ADDRESS AND TELEPHONE NO.

PO Box 4289, Farmington, NM 87499

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

At surface 1140'FSL, 1450'FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

15. DATE SPUDDED

07-29-91

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

09-07-91

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

5755'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4759'

21. PLUG BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,  
HOW MANY\*

23. INTERVALS  
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

Crouch Mesa Mesa Verde 3609-4549'

temporarily abandoned dry hole

25. WAS DIRECTIONAL  
SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL-LDT-CNL-ML, CAST

27. WAS WELL CORED

no

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

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|---------------------------------|---------------|
| 8 5/8"            | 24.0#           | 224'           | 12 1/4"   | surf 188 cu.ft.                 |               |
| 4 1/2"            | 10.5#           | 4759'          | 7 7/8"    | surf 2830 cu.ft.                |               |
|                   |                 |                |           |                                 |               |
|                   |                 |                |           |                                 |               |
|                   |                 |                |           |                                 |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | BACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2 3/8" | 4207'          |                 |
|      |          |             |               |             |        |                |                 |
|      |          |             |               |             |        |                |                 |

31. PREPARATION RECORD (Interval, size and number)

3609-4549' w/l spf 0.32" holes 35 holes

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| 3609-4549'          | 157,000#sand; 185,842 gal.fluid  |
|                     |                                  |
|                     |                                  |
|                     |                                  |

33. PRODUCTION

| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |                         |          |            | WELL STATUS (Producing or shut-in) |               |
|-----------------------|-----------------|----------------------------------------------------------------------|-------------------------|----------|------------|------------------------------------|---------------|
|                       |                 | did not produce - incapable of production                            |                         |          |            | shut in                            |               |
| DATE OF TEST          | HOURS TESTED    | CHOKS SIZE                                                           | PROD'N. FOR TEST PERIOD | OIL—BSL. | GAS—MCF.   | WATER—BSL.                         | GAS-OIL RATIO |
|                       |                 |                                                                      | →                       |          |            |                                    |               |
| FLOW, TURNING 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

none

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

SIGNED

TITLE

Regulatory Representative

DATE

ACCEPTED FOR RECORD

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

MAR 1 1994

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NMOCD

RV

FARMINGTON DISTRICT OFFICE

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. | NAME | TOP         |                  |
|-----------|-----|--------|-----------------------------|------|-------------|------------------|
|           |     |        |                             |      | MEAS. DEPTH | TRUE VERT. DEPTH |
|           |     |        |                             |      |             |                  |

38. GEOLOGIC MARKERS

|                 |       |       |                                                                                |             |       |
|-----------------|-------|-------|--------------------------------------------------------------------------------|-------------|-------|
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| Pictured Cliffs | 1916  | 2615' | Bn-Gry, fine grn, tight ss.                                                    | Pic. Cliffs | 1916  |
| Chacra          | 2615' | 3513' | Gry fn grn silty, glauconitic sd stone w/dr k gry shale                        | Chacra      | 2615  |
| Mesa Verde      | 3513' | 3644' | light gry, med-fine gr ss, carb sh & coal                                      | Mesa Verde  | 3513  |
| Menefee         | 3644' | 4256' | Med-dark gry, fine gr ss, carb sh & coal                                       | Menefee     | 3644  |
| Point Lookout   | 4256' | 4759' | Med-light gry, very fine gr ss w/frequent sh breaks in lower part of formation | Pt. Lookout | 4256  |
| Mancos          | na'   | na'   | Dark gry carb sh.                                                              | Mancos      | na    |