

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:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/> |  | 2. NAME OF OPERATOR<br>Southland Royalty Co |  | 3. ADDRESS OF OPERATOR<br>PO Box 4289, Farmington, NM 87499 |  | 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)<br>At surface 865'S 1815'W<br>At top prod. interval reported below<br>At total depth |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>SF-077651 |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |  | 7. UNIT AGREEMENT NAME        |  | 8. FARM OR LEASE NAME<br>Richardson |  | 9. WELL NO.<br>102                              |  | 10. FIELD AND POOL, OR WILDCAT<br>Basin Fruitland Coal |  | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br>Sec. 10, T-31-N, R-12-W NMPM                          |  | 12. COUNTY OR PARISH<br>San Juan                            |  | 13. STATE<br>NM                       |  |                          |  |
| 15. DATE SPUDDED<br>06-17-90                                                                                                                                    |  | 16. DATE T.D. REACHED<br>06-19-90           |  | 17. DATE COMPL. (Ready to prod.)<br>06-28-90                |  | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*<br>6158' GL                                                                                                                              |  | 19. ELEV. CASINGHEAD                             |  | 20. TOTAL DEPTH, MD & TVD<br>2579'   |  | 21. PLUG, BACK T.D., MD & TVD |  | 22. IF MULTIPLE COMPL., HOW MANY*   |  | 23. INTERVALS DRILLED BY<br>ROTARY TOOLS<br>yes |  | 24. CABLE TOOLS                                        |  | 25. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>Fruitland Coal 2394-2548' |  | 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>DIL/LDT/CNL/NGT/MLT |  | 27. WAS DIRECTIONAL SURVEY MADE<br>no |  | 28. WAS WELL CORED<br>no |  |
| 29. 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#                                       |  | 228'                                                        |  | 12 1/4"                                                                                                                                                                          |  | 248 cu.ft.                                       |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 5 1/2"                                                                                                                                                          |  | 15.5#                                       |  | 2579'                                                       |  | 7 7/8"                                                                                                                                                                           |  | 1003 cu.ft.                                      |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 30. LINER RECORD                                                                                                                                                |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| SIZE                                                                                                                                                            |  | TOP (MD)                                    |  | BOTTOM (MD)                                                 |  | SACKS CEMENT*                                                                                                                                                                    |  | SCREEN (MD)                                      |  | 31. TUBING RECORD                    |  | SIZE                          |  | DEPTH SET (MD)                      |  | PACKER SET (MD)                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
|                                                                                                                                                                 |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  | 2 3/8"                               |  | 2537'                         |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 32. PERFORATION RECORD (Interval, size and number)                                                                                                              |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 2394-2402', 2450-53', 2506-18', 2542-48' w/2 spf                                                                                                                |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                                  |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED                                                                                                            |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 2394-2548' 10,480# 40/70 sand;                                                                                                                                  |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 137,700# 20/40 sand;                                                                                                                                            |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 86,090 gal. fluid                                                                                                                                               |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 34. PRODUCTION                                                                                                                                                  |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)                                   |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| shut in, waiting on pipeline; capable of commercial hydrocarbon production                                                                                      |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| DATE OF TEST HOURS TESTED CHOKER SIZE PROD'N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO                                                        |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| SI 201 SI no flange 48 MCF -pitot gge                                                                                                                           |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)                                                |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| SI 201 SI no flange                                                                                                                                             |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 35. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)                                                                                                      |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| to be sold BHP @ 2560' 918                                                                                                                                      |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 36. LIST OF ATTACHMENTS                                                                                                                                         |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| none                                                                                                                                                            |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |
| 37. 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 8-8-90                                                                                                         |  |                                             |  |                                                             |  |                                                                                                                                                                                  |  |                                                  |  |                                      |  |                               |  |                                     |  |                                                 |  |                                                        |  |                                                                                                            |  |                                                             |  |                                       |  |                          |  |

\*(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):

38. GEOLOGIC MARKERS

| FORMATION       | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC.                                            | NAME                                             | TOP                            |                  |
|-----------------|-------|--------|------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|------------------|
|                 |       |        |                                                                        |                                                  | MEAS. DEPTH                    | TRUE VERT. DEPTH |
| Ojo Alamo       | 817   | 905'   | White, cr-gr ss.                                                       | Ojo Alamo<br>Kirtland<br>Fruitland<br>Pic.Cliffs | 817'<br>905'<br>2203'<br>2571' |                  |
| Kirtland        | 905'  | 2203'  | Gry sh interbedded w/tight, gry, fine-gr ss.                           |                                                  |                                |                  |
| Fruitland       | 2203' | 2571'  | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. |                                                  |                                |                  |
| Pictured Cliffs | 2571' | 2579'  | Bn-Gry, fine grn, tight ss.                                            |                                                  |                                |                  |