

(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2004

5. Lease Serial No.  
14-20-603-2198

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Rpt. ☐ Other

2. Name of Operator

Richardson Operating Company

3. Address

3100 La Plata Highway Farmington, NM 87401

3a. Phone No. (include area code)

(505) 564-3100

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 1978' FNL & 1221' FWL

At top prod. interval reported below Same

At total depth Same

6. If Indian, Allottee or Tribe Name

Navajo

7. Unit or CA Agreement Name and No.

NVA

8. Lease Name and Well No.

Navajo 13-2

9. API Well No.

30-045-30653

10. Field and Pool, or Exploratory

West Kutz PC

11. Sec., T., R., M., on Block and Survey or Area 13-29N-14W NMPM

12. County or Parish

San Juan

13. State

NM

17. Elevations (DF, RKB, RT, GL)\*

5,220'

14. Date Spudded

02/07/02

15. Date T.D. Reached

02/12/02

16. Date Completed

☐ D&A ☒ Ready to Prod.

8-1-02

18. Total Depth: MD 1007'  
TVD

19. Plug Back T.D.: MD 957'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☐ No ☒ Yes (Submit copy)

Compensated Neutron Log

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cement Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|--------------------|-----------------------------|-------------------|-------------|---------------|
| 8 3/4"    | 7"         | 20          | Surface  | 133'        | 135'               | 50 sks                      |                   | To Surface  |               |
| 6 1/4"    | 4 1/2"     | 10.5        | 133'     | 1007'       | 1007'              | 102 sks                     |                   | To Surface  |               |
|           |            |             |          |             |                    |                             |                   |             |               |
|           |            |             |          |             |                    |                             |                   |             |               |
|           |            |             |          |             |                    |                             |                   |             |               |
|           |            |             |          |             |                    |                             |                   |             |               |

24. Tubing Record

| Size   | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2 3/8" | 852'           |                   |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation          | TOP  | Bottom | Perforated Interval | Size  | No. Holes | Perf. Status |
|--------------------|------|--------|---------------------|-------|-----------|--------------|
| A) Pictured Cliffs | 852' | 859'   | 852 - 859'          | 0.43" | 28        |              |
| B)                 |      |        |                     |       |           |              |
| C)                 |      |        |                     |       |           |              |
| D)                 |      |        |                     |       |           |              |

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|----------------|-----------------------------|
|                |                             |
|                |                             |
|                |                             |

28. Production - Interval A

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     | 8/1/02              | 12           | →               | 0       | 83      | 180       |                       |             | FLOWING           |
| Choke Size          | Tbg. Press. P/wg SI | Cog. Press   | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio        | Well Status |                   |
|                     | 305                 | 330          | →               | 0       | 83      | 180       |                       | SHUT-IN     |                   |

28a. Production - Interval B

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                     |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. P/wg SI | Call Press   | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio        | Well Status |                   |
|                     |                     |              |                 |         |         |           |                       |             |                   |

ACCEPTED FOR RECORD

SEP 23 2002

FARMINGTON FIELD OFFICE  
BY *[Signature]*

FARMINGTON COPY

**28b. Production - Interval C**

| Date First Produced | Test Date          | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|--------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Thg Press Flwg. SI | Cog. Press   | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio           | Well Status |                   |

**28c. Production - Interval D**

| Date First Produced | Test Date          | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|--------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Thg Press Flwg. SI | Cog. Press   | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio           | Well Status |                   |

**29. Disposition of Gas (Sold used for fuel, vented, etc.)**
**30. Summary of Porous Zones (Include Aquifers):**

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.

**31. Formation (Log) Markers**

| Formation       | Top  | Bottom | Descriptions, Contents, etc. | Name | Top<br>Meas. Depth |
|-----------------|------|--------|------------------------------|------|--------------------|
| Kirtland Shale  | 000' | 5'     |                              |      |                    |
| Fruitland Coal  | 670' | 675'   |                              |      |                    |
| Pictured Cliffs | 865' | 870'   |                              |      |                    |

**32. Additional remarks (include plugging procedure):**
**33. Circle enclosed attachments:**

- 1 Electrical/Mechanical Logs (1 full set req'd.)    2 Geologic Report    3 DST Report    4 Directional Survey  
 5 Sandry Notice for plugging and cement verification    6 Core Analysis    7 Other: \_\_\_\_\_

**34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\***

Name (please print) Lori McCabe

Title Land Department \_\_\_\_\_

Signature \_\_\_\_\_

Date 9/10/02

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make 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.