

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other **2004 DEC 2 AM 9 02**  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.,  
Other \_\_\_\_\_ **RECEIVED**

2. Name of Operator **Richardson Operating Company** **070 FARMINGTON NM**

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 **1658' FSL & 812' FEL Sec. 32 T28N - R9W**  
At top prod. interval reported below  
At total depth

5. Lease Serial No.  
**NMSF-078329**

6. If Indian, Allottee or Tribe Name  
**NA**

7. Unit or CA Agreement Name and No.  
**9641**

8. Lease Name and Well No.  
**Federal 31-32 #3**

9. AFI Well No.  
**30-045-31833**

10. Field and Pool, or Exploratory  
**Basin Fruitland Coal**

11. Sec., T., R., M., on Block and Survey or Area **Sec. 32 T28N - R9W**

12. County or Parish **San Juan** 13. State **NM**

14. Date Spudded **07/20/2004** 15. Date T.D. Reached **08/02/2004** 16. Date Completed **11/23/2004**  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
**6882' GL**

18. Total Depth: MD **3042' GL** 19. Plug Back T.D.: MD **3015'** 20. Depth Bridge Plug Set: MD  
TVD TVD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**Compensated Neutron Log**

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8 3/4"	7" H-40	17#	-1' GL	274'		120sx Class B	25 bbl	Surface	Circ. 11 bbl
6 1/4"	4.5" J-55	11.6#	+1' GL	3042'		70sx Class B	15 bbl	Surface	Circ. 3 bbl
						230sx Class B	115 bbl	Surface	Circ. 15 bbl
						50sx Class B	11 bbl	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"	2952'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basin Fruitland Coal	2778'	2952'	2778'; 2842'; 2848'; 2854'	0.38"	2spf; 8 holes	Open
B)			2859'	0.38"	2spf; 2 holes	Open
C)			2866'-2868'	0.38"	3 holes	Open
D)			2931'-2952'	0.38"	2spf; 42holes	Open

26. Perforation Record

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

Depth Interval	Amount and Type of Material
2778'-2952'	Spearhead with 756 gal HCl. Pump 2520 gal water as breakdown. Frac with 70064 gal gelled fluid, 105100# 20/40 Brady sand, 35380# SB Exel sand, 1109407 scf N2, all in five stages. Flush with 1943 gal 600 N2 foam / AquaSafe L20

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
			→						Sundry of tests to follow
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	SI:WOPL
			→						

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. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

DEC 08 2004

FARMINGTON FIELD OFFICE  
BY *[Signature]*

NMOC

## 28b. Production - Interval C

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. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

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. Flwg. SI	Csg. Press.	24 Hr. Rate →	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 Meas. Depth
Fruitland Coal	2778'	2952'			

32. Additional remarks (include plugging procedure):

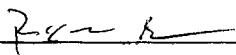
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)   
 ☐ Geologic Report   
 ☐ DST Report   
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification   
☐ Core Analysis   
☐ 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) Ryan BrunerTitle Engineering Assistant

Signature

Date 11/30/2004

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.