

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  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvt.  Other \_\_\_\_\_

2. Name of Operator **Richardson Operating Company**

3. Address **3100 La Plata Highway, Farmington, NM 87401**

3a. Phone No. (include area code)  
**805-564-3100**

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

At surface **540' FSL & 2245' FEL Sec 11 T28N - R8W**

At top prod. interval reported below

At total depth

14. Date Spudded  
**05/20/2004**

15. Date T.D. Reached  
**05/30/2004**

16. Date Completed **09/27/2004**  
 D & A  Ready to Prod.

5. Lease Serial No.  
**NMSF-078390**

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

7. Unit or CA Agreement Name and No.  
**9642**

8. Lease Name and Well No.  
**Federal 41-11 #3**

9. AFI Well No.  
**30-045-31943**

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

Sec., T., R., M., on Block and Survey or Area **Sec. 11 T28N - R8W**

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

17. Elevations (DF, RKB, RT, GL)\*  
**6267' GL**

18. Total Depth: MD **2918' GL**  
TVD

19. Plug Back T.D.: MD **2882' GL**  
TVD

20. Depth Bridge Plug Set: MD  
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" K-55	20#	-1' GL	282'		125sx Class B	26 bbl	Surface	12 bbl circ.
6 1/4"	4.5" J-55	11.6#	+1' GL	2908'		225sx Class B	113 bbl		
						100sx Class B	21 bbl	Surface	32 bbl circ.

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"	2769'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Basin Fruitland Coal	2638'	2770'	2641': 2653'; 2657': 2704'	0.38"	4	Open
B)			2708': 2710'; 2715': 2720'	0.38"	4	Open
C)			2724'-2728'; 2739	0.38"	2spf, 8; 1spf	Open
D)			2759'-2769'	0.38"	4spf, 40	Open

26. Perforation Record

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

Depth Interval	Amount and Type of Material
2641'-2769'	<b>Two Stage Frac:</b> 1st Stage: Spearhead w/ 1,000gal 15% HCl. Frac w/ 73,359gal gelled fluid, 134,032# 20/40 sand, and 1,158,778scf N2, in six stages. Flush w/1,260gal AquaSafe L20. 2nd stage: Spearhead w/ 1,000gal 15% HCl. Frac w/34,952gal gelled fluid; 64,943# 20/40 sand, and 56,951scf N2, in five stages. Flush w/ 2,625gal 60Q N2Foam/AquaSafeL20

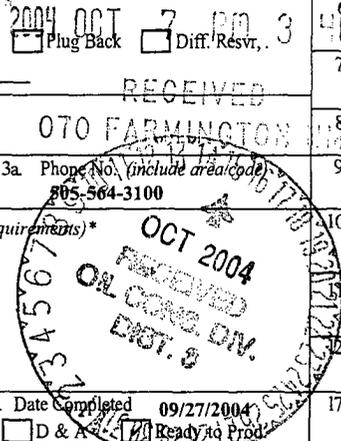
28. Production - Interval A

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**  
OCT 12 2004  
FARMINGTON FIELD OFFICE  
BY *[Signature]*

NWOCOD

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	2638'	2770'			

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) Charles H. Williams

Title Engineering Operations Manager

Signature

*Charles H. Williams*

Date 10/05/2004

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.