

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		2004 OCT 28 PM 3							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other _____		RECEIVED							
2. Name of Operator <b>Richardson Operating Company</b>		070 FARMINGTON							
3. Address <b>3100 La Plata Highway, Farmington, NM 87401</b>		3a. Phone No. (include area code) <b>505-564-3100</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>1455' FSL &amp; 1605' FEL Sec. 24 T28N - R8W</b> At top prod. interval reported below At total depth		5. Lease Serial No. <b>NMNM-013860A</b>							
14. Date Spudded <b>09/12/2004</b>		6. If Indian, Allottee or Tribe Name <b>NA</b>							
15. Date T.D. Reached <b>09/17/2004</b>		7. Unit or CA Agreement Name and No. <b>9639</b>							
16. Date Completed <b>10/22/2004</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		8. Lease Name and Well No. <b>Federal 31-24 #3</b>							
17. Elevations (DF, RKB, RT, GL)* <b>6288' GL</b>		9. AFI Well No. <b>30-045-31988</b>							
18. Total Depth: MD <b>2947' GL</b> TVD		10. Field and Pool, or Exploratory <b>Basin Fruitland Coal</b>							
19. Plug Back T.D.: MD <b>2922' GL</b> TVD		11. Sec., T., R., M., on Block and Survey or Area <b>Sec. 24 T28N - R8W</b>							
20. Depth Bridge Plug Set: MD TVD		12. County or Parish <b>San Juan</b> 13. State <b>NM</b>							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>Compensated Neutron Log</b>		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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	285'		110sx Class B	23 bbl	Surface	Circ. 12 bbl
6 1/4"	4.5" J-55	11.6#	+1' GL	2895'		225sx Class B	113 bbl		
						100sx Class B	21 bbl	Surface	Circ. 28 bbl
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"	2827'								
25. Producing Intervals									
Formation	Top	Bottom	26. Perforation Record						
A) <b>Basin Fruitland Coal</b>	2698'	2827'	Perforated Interval	Size	No. Holes	Perf. Status			
B)			2698'-2704'; 2714'-2718'	0.34"	2spf-8 holes	Open			
C)			2722'-2735'		1spf-13 holes				
D)			2741'-2745'-2747'; 2760'		2spf-8 holes				
			2779'-2817'-2827'		2&4spf	42holes: 71 total holes			
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval			Amount and Type of Material						
2698' - 2827'			Spearhead with 1,000 gal 15% HCl.						
			Frac with 71,878 gal gelled fluid, 121,240# 20/40 Brady sand and 40,500# SLC, w/1,226,897 scf N2; 6 stages						
			Flush with 1,785 gal 60Q N2 Foam / Aqua Safe 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)

NMOCD

ACCEPTED FOR RECORD

OCT 20 2004

FARMINGTON FIELD OFFICE  
BY *JB*

## 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	2698'	2827'			

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. WilliamsTitle Engineering Operations Manager

Signature

Charles H. Williams

Date

10/27/2004

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.