

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		2004 OCT 4 PM		5. Lease Serial No. NMSF-078390					
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 070 FARMINGTON		46. If Indian, Allottee or Tribe Name NA					
2. Name of Operator Richardson Operating Company		3. Address 3100 La Plata Highway, Farmington, NM 87401		7. Unit or CA Agreement Name and No. NA					
3a. Phone No. (include area code) 505-564-3100		4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1185' FSL & 1810' FEL Sec. 10 T28N - R8W At top prod. interval reported below At total depth		8. Lease Name and Well No. Federal 42-10 #3					
14. Date Spudded 05/07/2004		15. Date T.D. Reached 05/15/2004		9. AFI Well No. 30-045-31942					
16. Date Completed 09/21/2004 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		10. Field and Pool, or Exploratory Basin Fruitland Coal		11. Sec., T., R., M., on Block and Survey or Area Sec. 10, T28N, R8W					
18. Total Depth: MD 2512' GL TVD		19. Plug Back T.D.: MD 2453' GL TVD		12. County or Parish San Juan 13. State NM					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Compensated Neutron Log		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)		17. Elevations (DF, RKB, RT, GL)* 5940' GL					
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	256'		175sx Class B	37 bbl	Surface	10bbl circ.
6 1/4"	4.5" J-55	11.6#	+1' GL	2495'		225sx Class B	113 bbl		
						100sx Class B	21 bbl	Surface	28 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"	2415'								
25. Producing Intervals						26. Perforation Record			
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Basin Fruitland Coal		2263'	2415'	2266': 2290': 2294': 2345'		0.36"	2spf, 8 holes	Open	
B)				2350': 2354': 2367': 2371'		0.36"	2spf, 8 holes	Open	
C)				2373': 2394': 2405': 2407'		0.36"	2spf, 8 holes	Open	
D)				2410': 2413': 2415'		0.36"	2spf, 6 holes	Open	
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
2266'-2415'		Spearhead with 1,890 gal 15% HCl							
		Frac with 99,027 gal gelled fluid; 214,323# 20/40 Brady sand, and 1,313,723 SCFN2, all in five stages							
		Flush with 1,365 gal 70Qal N2 Foam/Aqua Safe X20							
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 08 2004

FARMINGTON FIELD OFFICE
BY CLB

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	2263'	2415'			

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

10/01/2004

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.