

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 7 PM 3		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. Resrv.				6. If Indian, Allottee or Tribe Name NA					
Other _____				7. Unit or CA Agreement Name and No. 9642					
2. Name of Operator Richardson Operating Company		3a. Phone No. (include area code) 805-564-3100		8. Lease Name and Well No. Federal 41-11 #3					
3. Address 3100 La Plata Highway, Farmington, NM 87401				9. AFI Well No. 30-045-31943					
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		16. Date Completed 09/27/2004 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		10. Field and Pool, or Exploratory Basin Fruitland Coal					
14. Date Spudded 05/20/2004		15. Date T.D. Reached 05/30/2004		11. Sec., T., R., M., on Block and Survey or Area Sec. 11 T28N - R8W					
18. Total Depth: MD 2918' GL TVD		19. Plug Back T.D.: MD 2882' 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)* 6267' 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	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					26. Perforation Record				
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	
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
2641'-2769'		Two Stage Frac:							
		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)

NWOCOD

ACCEPTED FOR RECORD

OCT 12 2004

FARMINGTON FIELD OFFICE
BY *ak*

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. WilliamsTitle Engineering Operations Manager

Signature

Charles H. WilliamsDate 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.