

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2004

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMNM-89026							
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. Resv. Other _____		6. If Indian, Allottee or Tribe Name N/A							
2. Name of Operator <b>Richardson Operating Company</b>		7. Unit or CA Agreement Name and No. N/A							
3. Address <b>3100 LaPlata Highway, Farmington, NM 87401</b>		8. Lease Name and Well No. <b>WF Federal 6-4(Ropco 6-4)</b>							
3a. Phone No. (include area code) <b>505-564-3100</b>		9. AFI Well No. <b>30-045-31852</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>870' FWL &amp; 1135' FSL</b> At top prod. interval reported below At total depth		10. Field and Pool, or Exploratory <b>TM PC Ext./Basin Fruitland Co.</b>							
14. Date Spudded <b>02/20/2004</b>		11. Sec., T., R., M., on Block and Survey or Area <b>Sec. 6, T29N-R14W, NMPM</b>							
15. Date T.D. Reached <b>02/24/2004</b>		12. County or Parish <b>San Juan</b>							
16. Date Completed <b>03/02/2004</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		13. State <b>NM</b>							
17. Elevations (DF, RKB, RT, GL)* <b>5296' GR</b>									
18. Total Depth: MD <b>770'</b> TVD		19. Plug Back T.D.: MD <b>718'</b> TVD							
20. Depth Bridge Plug Set: MD <b>N/A</b> TVD									
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)		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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8-3/4"	7" H-40	17#	0	120'	125'	70 sz Class B	14.7	0	Surface
6-1/4"	4-1/2" J55	10.5#	0	770'	718'	90 sz Class B	19	0	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"	560'								
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Fruitland Coal		452'	578'	565-575'		34"	40		
B)				456-458'		34"	2		
C)				543-545'		34"	2		
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
456'-575'		Spearhead 500 gals 15% HCL Acid. Pumped 9828 Gals Abormax 1020 as pad, 4741 gals @ 1 ppg, 4737 gals @ 2 ppg, 4733 gals @ 3 ppg, 3100 gals @ 4 ppg, 4225 gals @ 5 ppg slc, flush w/332 gals flush, chemicals GIO-4 .10 ppt, 5 gpt WGA-1A SLR, 1 gpt prosurf I, .50 gpt prosurf II, 1 GPT B-3L, 1 GPT B-4, 150 gpt GA-2, 1 GPT CX-9 10 GPT supersert.							
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
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 65	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
.5			→		125 MCF	150 bbl		flowing	
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)

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## 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
Basin Fruitland Coal	452'	578'			

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) **Jo Becksted**Title **Office Administrator**

Signature

Date **03/09/2004**

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.