Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NMNM-013860A**

1a. Type of Well ☐ Oil Well ☑ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

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

7. Unit or CA Agreement Name and No. **9647**

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

8. Lease Name and Well No. **Federal 41-25 #3**

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

3a. Phone No. *(include area code)* **505-564-3100**

9. AFI Well No. **30-045-31998**

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

At surface **1245' FNL & 1780' FWL, Sec. 25, T28N, R8W**

At top prod. interval reported below

At total depth

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

11. Sec., T., R., M., on Block and Survey or Area **Sec. 25, T28N, R8W**

12. County or Parish **San Juan**

13. State **NM**

14. Date Spudded **09/22/2004**

15. Date T.D. Reached **09/29/2004**

16. Date Completed **10/22/2004** ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **6300' GL**

18. Total Depth: MD **2879'** TVD

19. Plug Back T.D.: MD **2854'** 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
8 3/4"	**7" H-40**	**17#**	**-1' GL**	**265'**		**100sx Class B**	**21 bbl**	**Surface**	**Circ. 12 bbl**
6 1/4"	**4.5" J-55**	**10.5#**	**+1' GL**	**2879'**		**225sx Class B**	**82 bbl**		
						100sx Class B	**21 bbl**	**Surface**	**Circ. 30 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"	**2798'**							

25. Producing Intervals

Formation	Top	Bottom
A) **Basin Fruitland Coal**	**2650'**	**2799'**
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
2670'; 2679'-2683'	**0.38"**	**10; 2spf**	**Open**
2693'-2697'; 2701'-2704'	**0.38"**	**14; 2 spf**	**Open**
2718'; 2732'; 2752'	**0.38"**	**6; 2spf**	**Open**
2788'-2798'	**0.38"**	**40; 4spf**	**Open**

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

Depth Interval	Amount and Type of Material
2670'-2798'	**Spearhead with 1000gal 15% HCl.**
	Frac with 65077gal gelled fluid, 97700# 20/40 Brady sand, 33060# 20/40 SLC, 998580scf N2, all in six stages.
	Flush with 1785gal 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)

RECEIVED
070 FARMINGTON NM
2004 NOV 8 AM 8

NOV 2004
OIL CONS. DIV.
DIST. 3

ACCEPTED FOR RECORD
NOV 15 2004
FARMINGTON FIELD OFFICE
BY

NMOCD

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	**2650'**	**2799'**			

32. Additional remarks (include plugging procedure):

33. Indicate which itmes 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 **10/29/2004**

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.