

Form 3160-3  
(September 2001)

FEB 2004

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

200 NOV -5 PM 3:00

070 Farmington, NM

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
NMNM-013860A

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
Federal #4-25 #4

9. API Well No.  
30-045-31998

10. Field and Pool, or Exploratory  
Basin Fruitland Coal

11. Sec., T., R., M., or Blk. and Survey or Area  
C Sec. 25-T28N-R8W, NMPM

12. County or Parish  
San Juan

13. State  
NM

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
Richardson Operating Company

3a. Address  
3100 La Plata Hwy, Farm, NM 87401

3b. Phone No. (include area code)  
564-3100

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface 1245' FNL & 1780' FWL  
At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office\*  
17 miles SE of Blanco, NM

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
1780'

16. No. of Acres in lease  
1200.00

17. Spacing Unit dedicated to this well  
W/2 320.00 Acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.  
125'

19. Proposed Depth  
3,000'

20. BLM/BIA Bond No. on file  
BLM Nationwide #158293308

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6300' GL

22. Approximate date work will start\*  
Upon approval

23. Estimated duration  
2 wweks

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Date

Paul Lehrman

11/4/03

Title

Landman

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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.

\*(Instructions on reverse)

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NMOC

State of New Mexico  
Energy, Minerals & Mining Resources Department  
OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number 30-045- <b>31998</b>	Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code <b>9647</b>	Property Name FEDERAL 41-25	Well Number 4
OGRD No. 19219	Operator Name RICHARDSON OPERATING COMPANY	Elevation 6300'

Surface Location									
UL or Lot C	Sec. 25	Twp. 28 N.	Rge. 8 W.	Lot Lh.	Feet from >	North/South	Feet from >	East/West	County SAN JUAN
					1245'	NORTH	1780'	WEST	

Bottom Hole Location if Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Lh.	Feet from >	North/South	Feet from >	East/West	County

Dedication	Joint ?	Consolidation	Order No.

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

5279' OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N 89° 51' W

\* from BLM/GLO  
\*\* calculated



Hashed Line ||||| W/2 Fruitland Coal

Existing Richardson  
Federal 41-25 #2  
1120 FSL/1010 FWL

070 FERNINGTON, NM

2003 NOV - 5 - AM 3:00

RECEIVED

N 89° 51' W

5280'

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature *Paul Lehrman*

Printed Name  
Paul Lehrman

Title  
Landman

Date  
11/4/03

SURVEYOR CERTIFICATION

I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey  
9/15/03

Signature and Seal  
Professional Surveyor  
GERALD H. LESTON  
NEW MEXICO  
6844  
REGISTERED LAND SURVEYOR

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

## FESUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

NOV 24 PM 2:30

070 Farmington, NM

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NMNM-013860A

6. Indian, Allottee or Tribe Name

N/A

7. Unit or CA/Agreement, Name and/or No.

N/A

8. Well Name and No.

Federal 41-25 #3

9. API Well No.

30-045-31998

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal ✓

11. County or Parish, State

San Juan Co., NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change Well Name</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Richardson Operating Company requests the name of the well as referenced above be changed from the original APD application, which was the Federal 12-25 #4. Per OCD requirements the infill well must have the same name as the parent well, which in this case is the Federal 41-25 #2. The APD filed on 11/4/03 had the name of the well as the Federal 12-25 #4. Therefore the well name shall be the Federal 41-25 #3. All other information submitted to the BLM shall remain the same.

A revised C-102 is attached.

This well has not been drilled.

DEC 10 2003

BY JK

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Paul Lehrman

Title Landman

Signature

Date 11/20/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Title

Date

DEC 10 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FARMINGTON DISTRICT OFFICE  
BY JK

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(Instructions on reverse)

FARMINGTON OCD

## DRILLING PROGRAM

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Subsea Elevation</u>
San Jose	000'	5'	+6,300'
Nacimiento	805'	810'	+5,495'
Ojo Alamo Ss	1850'	1855'	+4,450'
Kirtland Shale	2039'	2044'	+4,261'
Fruitland Formation	2552'	2557'	+3,778'
Pictured Cliffs Ss	2840'	2845'	+3,460'
Total Depth (TD)*	3000'	3005'	+3,300'

Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a floor safety valve and choke manifold rated to 2000 psi. Maximum expected pressure is less than 1000 psi.

**Drilling Program**  
**Richardson Operating Company**

Page Two

**4. CASING AND CEMENTING PROGRAM:**

<u>Hole Size</u>	<u>O.D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>GL Setting Depth</u>
8 3/4"	7"	20	K-55	New	300'
6 1/4"	4 1/2"	10.5	K-55	New	3000'

Surface casing will be cemented to surface with  $\approx 100$  cu.ft. ( $\approx 85$  sx) Class B + 2% CaCl. Volume is based on 100% excess, yield of 1.18 cu.ft./sk, and slurry weight of 15.6 ppg. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with drilling fluid to surface. Thirty barrels of fresh water will then be circulated. Lead with  $\approx 300$  cu.ft. ( $\approx 185$  sx) Class B with 2% metasilicate (yield = 2.06 cu.ft./sk, slurry weight = 12.5 ppg). Tail in with  $\approx 155$  cu.ft. ( $\approx 132$  sx) Class B with 2% CaCl (yield = 1.18 cu.ft./sk, weight = 15.6 ppg). Total cement volume is  $\approx 525$  cu.ft. based on 100% excess and circulating to surface.  
~~535~~

Production casing will have 4 1/2" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Six centralizers will be spaced every other joint starting above the shoe. Six turbolizers will be placed every other joint starting from the top of the well.

**5. MUD PROGRAM:**

Surface casing hole will be drilled with fresh water. Production casing hole will be drilled with a fresh water polymer mud. Weighting material will be drill solids or, if needed, barite. Maximum expected mud weight will be 8.7 ppg. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.

**6. CORING, TESTING, & LOGGING:**

No cores or DSTs are planned. A cased hole CNL/GR will be run from TD to surface.

**7. DOWNHOLE CONDITIONS:**

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be approximately  $\approx 520$  psi.

**8. OTHER INFORMATION:**

The anticipated spud date is November 30, 2003. It should take 5 days to drill and 1 week to complete the well.