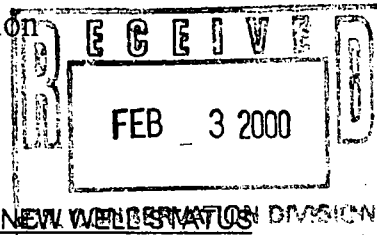


Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131



SUBMIT ORIGINAL
PLUS 2 COPIES
TO THE SANTA FE
OFFICE

APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address Richardson Operating Company 1700 Lincoln Suite 1700 Denver, CO 80203						OGRID Number 019219		
Contact Party Mary Ellen Condon						Phone 303-830-8000		
Property Name WF Federal 34						Well Number 2		
API Number 30-045-29882								
UL	Section	Township	Range	Feet From The	North/South Line	Feet From The	East/West Line	County
	34	30N	14W	1055'	South	1470'	West	San Juan

II. Date/Time Information

Spud Date 8-30-99	Spud Time 9:30	Date Completed 12-2-99	Pool Twin Mounds PC/Basin Fruitland Coal
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- III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.
- IV. Attach a list of all working interest owners with their percentage interests.
- V. AFFIDAVIT:

State of Colorado)
ss.
County of Denver)

David B. Richardson being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature [Signature] Title President Date 2/2/00

SUBSCRIBED AND SWORN TO before me this 2nd day of February, 2000.

[Signature]
Notary Public

My Commission expires: 8-24-02

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature <u>[Signature]</u>	Title <u>P.E. Spec.</u>	Date <u>FEB 14 2000</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: 2/14/00

NOTICE: The operator must notify all working interest owners of this New Well certification.

PVZV2010848004

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Richardson Operating Company

3. Address and Telephone No.

1700 Lincoln, Suite 1700, Denver, Colorado 80203 (303) 830-8000

4. Location of Well (Footage, T, R, M, or Survey Description)

1055' FSL, 1470' FWL

Sec. 34-T30N-R14W

5. Lease Designation and Serial No.

NMNM-0206995

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

WF Federal 34-2

9. API Well No.

30-045-29882

10. Field and Pool, or Exploratory Area

Twin Mounds PC/Basin Fruitland Coal

11. County or Parish, State

San Juan County, 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"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Surface Casing/Cementing
	<input checked="" type="checkbox"/> Other: see below
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form).

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.

If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markets and zones pertinent to this work.)*

Well completed as per attached treatment reports

14. I hereby certify that the foregoing is true and correct

Signed: Cathleen Kelly

Title: Land Manager

Date: 1-20-00

(This space for Federal or State office use)

Approved by: _____

Title: _____

Date: _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 34-2
Date: 12/8/99
Field: Twin Mounds PC Location: 34-30N-14W County: San Juan State: NM
Stimulation Company: Schlumberger Dowell Supervisor: _____

Stage #: 1/2

Sand on location (design): 52,000 Weight ticket: 52,000 Size/type: 20/40 Arizona

Fluid on location: No. of Tanks: 5 Strap: 18' 6" Amount: 1850 bbls Usable: 1750 bbls

Perforations

Depth: 1062' - 1072' Total Holes: 40 PBDT: 1248'
Shots per foot: 4 EHD: 0.38

Breakdown

Acid: 0
Balls: N/A
Pressure: _____ Rate: _____

Stimulation

ATP: 559# AIR: 22.8 bpm
MTP: 751# MIR: 30.7 bpm

	Sand Stage	Pressure	Breaker test
ISIP: <u>343#</u>	pad	641#	20 cps
5 min: <u>311#</u>	1 ppg	632#	break in 1 hr
10 min: <u>279#</u>	2 ppg	659#	
15 min: <u>247#</u>	3 ppg	645#	
	4 ppg	609#	

Job Complete at: 9:48 hrs. Date: 12/8/99 Start flow back: 12/8/99
Total Fluid Pumped: 544 bbls 22,885 gals
Total Sand Pumped: 52,000 Total Sand on Formation: 52,000
Total Nitrogen Pumped: N/A

Notes:

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

(See other instructions on reverse side)

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NMNM-0206995

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

WF Federal 34-2

9. API WELL NO.

30-045-29882

10. FIELD AND POOL, OR WILDCAT

Twin Mounds PC

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 34-T30N-R14W

1. TYPE OF WELL:

OIL WELL ☐

GAS WELL ☒

DRY ☐

Other

2. TYPE OF COMPLETION:

NEW WELL ☒

WORK OVER ☐

DEEP-EN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

Other

3. NAME OF OPERATOR

Richardson Operating Company

4. ADDRESS AND TELEPHONE NO.

1700 Lincoln, Suite 1700, Denver, CO 80203 303-830-8000

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1055' FSL, 1470' FWL

At top prod. interval reported below same

At total depth

same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

San Juan

13. STATE

NM

15. DATE SPUDDED

8/30/99

16. DATE T.D. REACHED

9/1/99

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5513' GL

19. ELEV. CASINGHEAD

5513'

20. TOTAL DEPTH, MD & TVD

1295'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL. HOW MANY?

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

1062' - 1072' Pictured Cliffs

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron Log

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
7"	20#	140'	8 - 3/4"	50 sx (59 cu.ft.)	surface
4 - 1/2"	10.5#	1295'	6 - 1/4"	65 sx (134 cu.ft.)	surface

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 - 3/8"		1057'

31. PERFORATION RECORD (Interval, size and number)

1062' - 1072' 40 holes .38"
4 spf

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1062' - 1072'	52,000 20/40 Arizona Linear Gel

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL	GAS—MCF.	WATER—BBL		GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL	GAS—MCF.	WATER—BBL		OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cathleen Colby

TITLE

Land Manager

DATE

January 29, 2000

*(See Instructions and Spaces for Additional Data on Reverse Side.)

Title 18 U.S.C. Section 1001, makes 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.

37. SUMMARY OF POROUS ZONES: (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):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Fruitland	1034'	1052'				
Pictured Cliffs	1062'	1072'				



RICHARDSON OPERATING COMPANY

1700 Lincoln, Suite 1700
Denver, Colorado 80203 (303) 830-8000
FAX (303) 830-8009

WF FEDERAL 34-1

WORKING INTEREST: RICHARDSON PRODUCTION CO. 100%
1700 LINCOLN SUITE 1700
DENVER, CO 80203
303-830-8000

In Lieu of
Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals

070 FACILITY

5. Lease Designation and Serial No.
NMT 206995

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
WF Federal 34 #2

2. Name of Operator
Richardson Operating Company

9. API Well No.
30-045-29882

3. Address and Telephone No. C/O Walsh Engineering & Production Corp.
7415 East Main, Farmington, NM 87402 505-327-4892

10. Field and Pool, or Exploratory Area
Harper Hill PC/Basin Frt. Coal

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1055' FSL & 1470' FWL, Sec. 34, T30N, R14W

11. County or Parish, State
San Juan, NM.

CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other see below

- ☐ Change of Plans
☒ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

8/30/99 - Spud 8-3/4" hole @ 0930 hrs. TD surface hole 140'. Run 3 jts. of 7", 20#, ST&C casing (130.80') & land @ 136' KB. Cement w/ 50 sx (59 cu.ft.) of Class "B" cement w/ 2% CaCl₂. PD @ 1545 hrs. 8/30/99. Circulated 5 bbls of cement to surface.

9/1/99 - TD 4-1/2" hole @ 1500 hrs. @ 1295'. Run 30 jts. of 4-1/2", 10.5#, ST&C white band casing (1287.58') & land @ 1293' KB. Cement w/ 65 sx (134 cu.ft.) of Class "B" cement w/ 2% Sodium Metasilicate & tail in w/ 75 sx (88.5 cu.ft.) of Class "B". PD @ 19:00 hrs. 9/1/99. Circulated 10 bbls of cement to surface.

14. I hereby certify that the foregoing is true and correct

Signed John C. Thompson (John C. Thompson) Title Agent/Engineer Date 09/09/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

*See Instruction on Reverse Side

ACCEPTED FOR RECORD

SEP 14 1999

FARMINGTON FIELD OFFICE
BY JP

OPERATOR

UNITED STATES

SUBMIT IN DUPLICATE*

FORM APPROVED
OMB NO. 1004-0137

DEPARTMENT OF THE INTERIOR

(See other instructions on reverse side)

Expires: February 28, 1995

BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

NMNM-0206995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

WF Federal 34-2

9. API WELL NO.

30-045-29882

10. FIELD AND POOL, OR WILDCAT

Basin FC

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 34-T30N-R14W

TYPE OF WELL:

OIL WELL ☐

GAS WELL ☒

DRY ☐

Other

TYPE OF COMPLETION:

NEW WELL ☒

WORK OVER ☐

DEEP-EN ☐

PLUG BACK ☐

DIFF. RESVR. ☐

Other

NAME OF OPERATOR

Richardson Operating Company

ADDRESS AND TELEPHONE NO.

1700 Lincoln, Suite 1700, Denver, CO 80203 303-830-8000

LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1055' FSL, 1470' FWL

At top prod. interval reported below same

At total depth

same

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH
San Juan

13. STATE

NM

DATE SPUDDED

8/30/99

16. DATE T.D. REACHED

9/1/99

17. DATE COMPL. (Ready to prod.)

12-14-99

18. ELEVATIONS (DF, RKB, ST, GS, ETC.)*

5513' GL

19. ELEV. CASINGHEAD

5513'

TOTAL DEPTH, MD & TVD

1295'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL. HOW MANY?

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

4. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

1034' - 1052' Fruitland Coal

25. WAS DIRECTIONAL SURVEY MADE

yes

5. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron Log

27. WAS WELL CORED

no

CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
7"	20#	140'	8 - 3/4"	50 sx (59 cu. ft.)	surface
4 - 1/2"	10.5#	1295'	6' 1/4"	65 sx (134 cu. ft.)	surface

LINEAR RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 - 3/8"		1057"

31. PERFORATION RECORD (Interval, size and number)

1034' - 1052' 72 holes .38"
4 spf

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

1034' - 1052'

AMOUNT AND KIND OF MATERIAL USED

50,179 20/40 Arizona

Linear Gel

PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--rate and type of pump)	WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD. FOR TEST PERIOD	OIL-BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
12/14/99	48	1/2"			110	360	
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-MCF.	WATER-BBL.	OIL GRAVITY-API (CORR.)	
20	80			55	180		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

vented

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cathleen Colby

TITLE

Land Manager

DATE

January 20, 2000

*(See Instructions and Spaces for Additional Data on Reverse Side.)

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