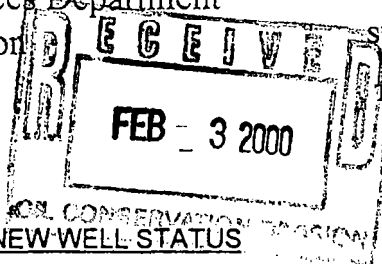


Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131SUBMIT 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 28					Well Number 2		API Number 30-045-29948	
UL	Section	Township	Range	Feet From The	North/South Line	Feet From The	East/West Line	County
	28	30N	14W	1525'	South	1850'	East	San Juan

II. Date/Time Information

Spud Date 8/26/99	Spud Time 9:30	Date Completed 12-15-99	Pool Twin Mounds PC
----------------------	-------------------	----------------------------	------------------------

- 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. Richards 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 David B. Richards Title President Date 2/2/00SUBSCRIBED AND SWORN TO before me this 2nd day of February, 2000.

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>Mark R. [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.

PV2V2010848543

DEPARTMENT OF THE INTERIOR

(See other in-
structions on
reverse side.)

Expires: February 28, 1995

BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		7. UNIT AGREEMENT NAME	
3. NAME OF OPERATOR Richardson Operating Company		8. FARM OR LEASE NAME, WELL NO. WF Federal 28-2	
4. ADDRESS AND TELEPHONE NO. 1700 Lincoln, Suite 1700, Denver, CO 80203 303-830-8000		9. API WELL NO. 30-045-29948	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1525' FSL, 1850' FEL At top prod. interval reported below same At total depth same		10. FIELD AND POOL, OR WILDCAT Twin Mounds PC	
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 28, T30N-R14W		12. COUNTY OR PARISH San Juan	
13. STATE NM		14. PERMIT NO.	
15. DATE SPUNDED 8/26/99		16. DATE T.D. REACHED 8/28/99	
17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5540' GR	
19. ELEV. CASINGHEAD 5540'		20. TOTAL DEPTH, MD & TVD 1220'	
21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL. HOW MANY?	
23. INTERVALS DRILLED BY		24. ROTARY TOOLS X	
25. CABLE TOOLS		26. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 1072' - 1082' Pictured Cliffs	
27. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron Log		28. WAS DIRECTIONAL SURVEY MADE yes	
29. WAS WELL CORED no		30. CASING RECORD (Report all strings set in well)	
31. Casing Size/Grade		Weight, lb./ft.	
7"		20#	
4 - 1/2"		10.5#	
Depth Set (MD)		Hole Size	
138'		8 - 3/4"	
1220'		6 - 1/4"	
Top of Cement, Cementing Record		Amount Pulled	
60 sx (71 cu.ft.)		surface	
65 sx (134 cu.ft.)		surface	
32. LINER RECORD		33. TUBING RECORD	
Size		Top (MD)	
Bottom (MD)		Sacks Cement*	
Screen (MD)		Size	
Depth Set (MD)		Packer Set (MD)	
34. PERFORATION RECORD (Interval, size and number)		35. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
1072' - 1082' 40 holes 0.38" 4 spf		Depth Interval (MD)	
		Amount and Kind of Material Used	
		38.700 20/40 Brady Linear Gel	
36. PRODUCTION		37. WELL STATUS (Producing or shut-in)	
Date First Production		Production Method (Flowing, gas lift, pumping—size and type of pump)	
Date of Test		Hours Tested	
12/16/99		24	
Choke Size		Prod'n. for Test Period	
1/2"		Oil-BBL.	
Gas-MCF.		Water-BBL.	
60		160	
Gas-Oil Ratio		Flow, Tubing Press.	
		Casing Pressure	
15		75	
Calculated 24-Hour Rate		Oil-BBL.	
		Gas-MCF.	
		Water-BBL.	
		160	
38. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.)		39. TEST WITNESSED BY	
vented			
40. LIST OF ATTACHMENTS			
41. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED Cathleen Colley		TITLE Land Manager	
DATE January 20, 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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Pictured Cliffs	1072'	1082'	

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

(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

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)

1525' FSL, 1850' FEL

Sec. 28-T30N-R14W

5. Lease Designation and Serial No.

NMNM-97843

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

WF Federal 28-2

9. API Well No.

30-045-29948

10. Field and Pool, or Exploratory Area

Twin Mounds PC

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

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☐

Surface Casing/Cementing

☒

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 markets and zones pertinent to this work.)*

Well completed as per attached treatment report

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: _____

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RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 28-2
Date: 12/6/99
Field: Twin Mounds PC Location: 28-30N-14W County: San Juan State: NM
Stimulation Company: American Energy Supervisor: _____

Stage #: 1/1

Sand on location (design): 37500 Weight ticket: 38,700 Size/type: 20/40 Brady Sand

Fluid on location: No. of Tanks: 2 Strap: 18' 6" Amount: 774 bbls Usable: 700

Perforations

Depth: 1072' - 1082' Total Holes: 40 PBTD: 1160'
Shots per foot: 4 EHD: 0.38

Breakdown

Acid: 200 gals
Balls: N/A
Pressure: 725# Rate: 30.8

Stimulation

ATP: 600# AIR: 30.8 bpm
MTP: 725# MIR: 30.8 bpm

	Sand Stage	Pressure	Breaker test
ISIP: <u>255#</u>	pad	417#	14 cps
5 min: <u>255#</u>	1 ppg	725#	break in 1 hr
10 min: <u>180#</u>	2 ppg	645#	
15 min: <u>0#</u>	3 ppg	620#	
	4 ppg	604#	

Job Complete at: 14:11 hrs. Date: 12/6/99 Start flow back: N/A

Total Fluid Pumped: 402 bbls 16,916 gals

Total Sand Pumped: 37,500 Total Sand on Formation: 37,500

Total Nitrogen Pumped: N/A

Notes:



RICHARDSON OPERATING COMPANY

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

WF FEDERAL 28-2

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

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

3. LEASE DESIGNATION AND SERIAL NO.

NMNM-97843

4. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

WF Federal 28-2

9. API WELL NO.

30-045-29948

10. FIELD AND POOL, OR WILDCAT

Twin Mounds PC

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

Sec. 28, T30N-R14W

TYPE OF WELL:

OIL

☐

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 1525' FSL, 1850' FEL

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

1. DATE SPUDDED

8/26/99

16. DATE T.D. REACHED

8/28/99

17. DATE COMPL. (Ready to prod.)

12-16-99

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

5540' GR

19. ELEV. CASINGHEAD

5540'

2. TOTAL DEPTH, MD & TVD

1220'

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

22. IF MULTIPLE COMPL.

HOW MANY?

23. INTERVALS

DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

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

1072' - 1082' Pictured Cliffs

25. WAS DIRECTIONAL

SURVEY MADE
YES

5. TYPE ELECTRIC AND OTHER LOGS RUN

Compensated Neutron Log

27. WAS WELL CORED

no

13. 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#	138'	8 - 3/4"	60 SX (71 cu.ft.)	surface
4 - 1/2"	10.5#	1220'	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)

31. PERFORATION RECORD (Interval, size and number)

1072' - 1082' 40 holes 0.38"
4 spf

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	38,700 20/40 Brady 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	
12/16/99	24	1/2"	→		60	160		
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL	GAS-MCF.	WATER-BBL	OIL GRAVITY-API (CORR.)		
15	75	→		60	160			

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 Colley

TITLE

Land Manager

DATE

January 20, 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.

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

5. Lease Designation and Serial No.
NM -97843

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 28 - 2

2. Name of Operator
Richardson Operating Company

9. API Well No.
30-045-29948

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
Twin Mounds Pictured Cliffs

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1525' FSL & 1850' FEL, Sec. 28, T30N, R14W

11. County or Parish, State
San Juan, NML

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

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

- ☐ 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.)

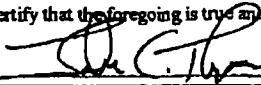
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

8/26/99 - Spud 8-3/4" hole @ 0930 hrs. TD surface hole to 138' @ 1500 hrs. 8/26/99. Run 3 jts. of 7", #20, ST&C casing (130.84'). Land @ 136' KB. Cement w/ 60 sx (71 cu.ft.) of Class "B" cement w/ 2% CaCl₂. PD @ 1630 hrs. 8/26/99. Circulated out 5 bbls of cement to surface.

8/29/99 - TD 4-1/2" hole @ 1530 hrs. @ 1220'. Run 28 jts. of 4-1/2", 10.5#, ST&C, white band casing (1199.40') & land @ 1204' 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 @ 20:00 hrs. 8/28/99. Circulated 10 bbls of cement to surface.

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

Signed



(John C. Thompson)

Title Agent/Engineer

Date

08/31/99

(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