

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

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

5. Lease Designation and Serial No.
NM-99003

6. If Indian, Allottee or Tribe Name

7. If Uak or CA, Agreement Designation

8. Well Name and No.

WF Federal # 30-1

9. API Well No.

30-045-29598

10. Field and Pool, or Exploratory Area

Twin Mounds/Basin Fr. Coal

11. County or Parish, State

San Juan County, NM

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.

c/o Walsh Engineering

7415 E. Main Farmington, NM 87402

505-327-4892

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

1569' FNL & 1104' FEL
Sec. 30, T30N, R14W

RECEIVED
SEP 10 1993
OIL CON. DIV.
DIST. 3

12. CHECK APPROPRIATE BOX(s) 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
☐ 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.)*

Well completed as per attached treatment report

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

Signed John C. Thompson Title Agent/ Engineer

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date SEP 07 1999

ACCEPTED FOR RECORD

FARMINGTON FIELD OFFICE

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.

NMOC

Fracture Treatment Report

Operator: Richardson Operating Company

Report Date: 8/11/99

Well Name: WF Federal 30-1

Location: Sec 30-T30N-R14W

Field: Twin Mounds Fruitland Sand-Pictured Cliffs

County: San Juan

State: New Mexico

TD: 1070'

PBTD: 1030'

Perforations

Interval: 978' - 1004' Shots Per Foot: 2 Total Holes: 52 EHD: 0.30"
Charge: 12.5 grams

Frac Job Started: 11:15 AM **Date:** 11/18/98

Breakdown

Fluid: 1% KCL Water
Acid: None
Balls: None
Pressure: 1780 psig Rate: 6 bpm

Stimulation

Average Treating Pressure: 980 psig Average Pump Rate: 20 bpm
Maximum Treating Pressure: 1028 psig Maximum Pump Rate: 21 bpm

Sand Size/Type: 20/40 Arizona

Stage	Sand (ppg)	Surf Treat (psig)
Pad	0	980
1	1	982
2	2	988
3	3	1028
4	4	1029
Flush	0	965

Total Fluid Pumped: 320 bbls 1% KCL Water
24,323 gal 20 lb N2 Foam 70 Quality

Total Nitrogen Pumped: 177,000 scf

Total Sand Pumped: 39,920 lbs Total Sand on Formation: 39,920 lbs

Job Completed: 11:52 PM Date: 11/18/98

ISIP: 751 psig
5 min: 689 psig
10 min: 656 psig
15 min: 642 psig

Flow Back Started: 1:20 PM Date: 11/18/98

Signature:

Steven B. Smith

Fracture Treatment Report

Operator: Richardson Operating Company

Report Date: 8/11/99

Well Name: WF Federal 30-1
Field: Basin Fruitland Coal

Location: Sec 30-T30N-R14W
County: San Juan
State: New Mexico

TD: 1070'

FBTD: 1030'

Perforations

Interval: 952' - 961'
Charge: grams Shots Per Foot: 4 Total Holes: 44 EHD: 0.41"

Frac Job Started: 9:34 AM Date: 12/15/98

Breakdown

Fluid: 2% KCL Water
Acid: None
Balls: None
Pressure: 1409 psig Rate: 6 bpm

Stimulation

Average Treating Pressure: 1350 psig Average Pump Rate: 24 bpm
Maximum Treating Pressure: 3561 psig Maximum Pump Rate: 25 bpm

Sand Size/Type: 20/40 Arizona

Stage	Sand (ppg)	Surf Treat (psig)
Pad	0	1351
1	1	1321
2	2	3561 Screen Out

Total Fluid Pumped: 118 bbls 2% KCL Water
22,875 gal 20 lb Delta Foam 70 Quality

Total Nitrogen Pumped: 115,000 scf

Total Sand Pumped: 8400 lbs Total Sand on Formation: 7400 lbs

Job Completed: 10:05 AM Date: 12/15/98

ISIP: psig
5 min: psig
10 min: psig
15 min: psig

Flow Back Started: 11:00 AM Date: 12/15/98

Signature:

Steven B. Smith