

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

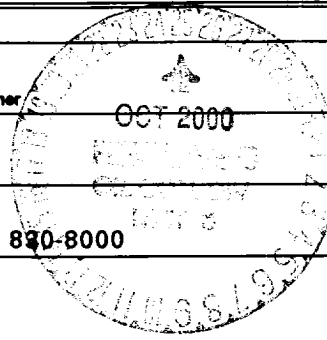
3. Address and Telephone No.

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

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

885' FSL, 856' FWL

Sec. 21-T30N-R14W



5. Lease Designation and Serial No.

NM-25857

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

WF Federal 21-1Y

9. API Well No.

30-045-30031

10. Field and Pool, or Exploratory Area

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

☐

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 in the Fruitland Coal formation as per attached treatment report

200 JUN 12 PM 1:55
OTO PERMITS SECTION, BLM

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

Signed:

Cathleen Colby

Title: Land Manager

(This space for Federal or State office use)

Approved by:

Title:

Date:

OCT 23 2000

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.

ACCEPTED FOR RECORD
BY *[Signature]*
FARMINGTON FIELD OFFICE

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 21-1Y
Date: 3/20/00
Field: Basin Fruitland Coal Location: 21-30N-14W County: San Juan State: NM
Stimulation Company: Schlumberger Supervisor: Paul Culek

Stage #: 1/1

Sand on location (design): 54,200 Weight ticket: n/a Size/type: 20/40 Arizona Sand

Fluid on location: No. of Tanks: 2 Strap: n/a Amount: n/a Usable: 760

Perforations

Depth: 1058'-1070' Total Holes: 49 PBTD: 1208
Shots per foot: 4 EHD:

Breakdown

Acid: 200 gals
Balls: N/A
Pressure: 2830 Rate: 8.6 bpm

Stimulation

ATP: 2372 AIR: 22.7 bpm
MTP: 4079 MIR: 30.7 bpm

	Sand Stage	Pressure	Breaker test
ISIP: <u>435#</u>	pad	3021#	
5 min: <u>334#</u>	1 ppg	2898#	break in 41 min
10 min: <u>261#</u>	2 ppg	2916#	
15 min: <u>243#</u>	3 ppg	2747#	
	4 ppg	2504#	

Job Complete at: 16:28 hrs. Date: 3/20/00 Start flow back: N/A

Total Fluid Pumped: 710 bbl

Total Sand Pumped: 54,220 lbs 20/40 Arizona Total Sand on Formation: 54,220 lbs 20/40 Arizona

Total Nitrogen Pumped: N/A

Notes: Additives Biocide B69 2 lbs Breaker J 2-18 60 lbs Breaker 3-18 27 lbs Coalbed Methane Additive J-473 25 lbs