

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)
845' FSL, 1652' FWL
Sec. 28-T30N-R14W

5. Lease Designation and Serial No.
NM-97843

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
WF Federal 28-3

9. API Well No.
30-045-30379

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

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

12. CHECK APPROPRIATE BOX(s) 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 Collins

Title: Land Manager

Date: January 29, 2001

(This space for Federal or State office use)

Approved by: _____

Title: _____

Date: FEB 07 2001

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

FEB 07 2001

FARMINGTON FIELD OFFICE

BY _____

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 28-3
Date: 12/28/00
Field: Harper Hill Pictured Cliffs Location: 28-30N-14W County: San Juan State: NM
Stimulation Company: American Energy Supervisor: _____

Stage #: 1/2

Sand on location (design): 42,000 Weight ticket: 42,000 Size/type: 20/40 Brady Sand

Fluid on location: No. of Tanks: 2 Strap: 40 Amount: 800 Usable: 780

Perforations

Depth: 1013'-1025' Total Holes: 48 PBTD: 1222'
Shots per foot: 4 EHD: 0.41

Breakdown

Acid: 500 gals
Balls: N/A
Pressure: 3680 Rate: 2.4 bpm

Stimulation

ATP: 550 AIR: 35
MTP: 550 MIR: 35

	Sand Stage	Pressure	Breaker test
ISIP: <u>380</u>	pad	550	20 cps
5 min: <u>310</u>	1 ppg	550	break in 31 mins.
10 min: <u>280</u>	2 ppg	550	
15 min: <u>260</u>	3 ppg	550	
	4 ppg	520	

Job Complete at: 9:53 hrs. Date: 12/28/00 Start flow back: N/A

Total Fluid Pumped: 686

Total Sand Pumped: 41,880 Total Sand on Formation: 41,880

Total Nitrogen Pumped: N/A

Notes:

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 28-3
Date: 12/29/00
Field: Basin Fruitland Coal Location: 28-30N-14W County: San Juan State: NM
Stimulation Company: American Energy Supervisor: _____

Stage #: 2/2

Sand on location (design): 53,580 Weight ticket: 53,580 Size/type: 20/40 Brady Sand

Fluid on location: No. of Tanks: 3 Strap: 60 Amount: 1200 Usable: 1140

Perforations

Depth: 994' - 1010' Total Holes: 64 PBTD: 1222'
Shots per foot: 4 EHD: 0.42

Breakdown

Acid: 500 gals
Balls: N/A
Pressure: 3680 Rate: 2.4 bpm

Stimulation

ATP: 1000 AIR: 38
MTP: 1360 MIR: 38

	Sand Stage	Pressure	Breaker test
ISIP: <u>290</u>	pad	1300	14 cps
5 min: <u>230</u>	1 ppg	1360	break in 31 mins.
10 min: <u>190</u>	2 ppg	1100	
15 min: <u>150</u>	3 ppg	1100	
	4 ppg	1000	

Job Complete at: 13:11 hrs. Date: 12/29/00 Start flow back: N/A

Total Fluid Pumped: 987

Total Sand Pumped: 63,400 Total Sand on Formation: 63,300

Total Nitrogen Pumped: N/A

Notes: