

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)

1060' FNL, 975' FEL

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 34-3

9. API Well No.

30-045-29881

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(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 Colby

Title: Land Manager

ACCEPTED FOR RECORD
Date: 6/3/00

(This space for Federal or State office use)

Approved by: _____

Title: _____

Date: JUN 06 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.

FARMINGTON FIELD OFFICE
BY: _____

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 34-3
Date: 3/9/00
Field: Basin Fruitland Coal Location: 34-30N -14W County: San Juan State: NM
Stimulation Company: Schlumberger Dowell Supervisor: _____

Stage #: 2/2

Sand on location (design): 66,740 Weight ticket: _____ Size/type: 20/40 Brady Sand

Fluid on location: _____ No. of Tanks: _____ Strap: _____ Amount: _____ Usable: _____

Perforations

Depth: 1137'-1144', 1148'-1154' Total Holes: 52 PBTD: 1321'

Shots per foot: 4 EHD: 0.41

Breakdown

Acid: 325 gals

Balls: _____

Pressure: _____ Rate: _____

Stimulation

ATP: 1300# AIR: 31.5 bpm

MTP: 1900# MIR: 31.5 bpm

	Sand Stage	Pressure	Breaker test
	pad		14 cps
ISIP: <u>700#</u>	1 ppg		break in 37 min
5 min: <u>670#</u>	2 ppg		
10 min: <u>635#</u>	3 ppg		
15 min: <u>600#</u>	4 ppg		

Job Complete at: 9:00 hrs. Date: 3/9/00 Start flow back: _____

Total Fluid Pumped: 34,100 gals 811 bbls

Total Sand Pumped: 66,740 Total Sand on Formation: _____

Total Nitrogen Pumped: _____

Notes:

spot acid down tbg toh w/ tbg
start frac

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company Well Name: WF Federal 34-3
Date: 3/2/00
Field: Harper Hill PC Location: 34-30N-14W County: San Juan State: NM
Stimulation Company: Schlumberger Dowell Supervisor: _____

Stage #: 1/2

Sand on location (design): 50,200 Weight ticket: _____ Size/type: 20/40 Brady Sand

Fluid on location: No. of Tanks: 2 Strap: 40 Amount: 800 Usable: 760

Perforations

Depth: 1160' - 1172' Total Holes: 48 PBD: 1321'
Shots per foot: 4 EHD: 0.41

Breakdown

Acid: 400 gals
Balls: N/A
Pressure: _____ Rate: 2.2

Stimulation

ATP: 575# AIR: 31.7 bpm
MTP: 1800# MIR: 30.8 bpm

	Sand Stage	Pressure	Breaker test
ISIP: <u>300#</u>	pad		
5 min: <u>189#</u>	1 ppg		break in 38 min
10 min: <u>0#</u>	2 ppg		
15 min: _____	3 ppg		
	4 ppg		

Job Complete at: 12:03 hrs. Date: 3/2/00 Start flow back: _____

Total Fluid Pumped: 22,050 gals 524 bbls

Total Sand Pumped: 50,200 Total Sand on Formation: 50,200

Total Nitrogen Pumped: N/A

Notes: