

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

Name of Operator
RICHARDSON OPERATING COMPANY 019219

Address and Telephone No. c/o Walsh Engr. & Prod. Corp.
7415 E. Main Farmington, N.M. 87402 505 327-4892

Location of Well (Footage, Sec., T., R., M., or Survey Description)
885'FSL & 906'FWL
Section 21, T30N, R14W

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

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 21-1R

9. API Well No.
30-045-29597 30031

10. Field and Pool, or Exploratory Area
Harper Hill FR Sand PC Ext

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

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
- ☐ Change of Plans
- ☐ New Construction
- ☐ Non-Routine Fracturing
- ☐ Water Shut-Off
- ☐ Conversion to Injection
- ☐ Dispose Water

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.)*

Completed well as per attached treatment report.

RECEIVED
JUL 29 1999
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
99 JUN 29 AM 8:03
070 FARMINGTON, NM

I hereby certify that the foregoing is true and correct

Signature _____ Title John C. Thompson - Agent Date 6/21/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

ACCEPTED FOR RECORD

8 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

NMOC

FARMINGTON FIELD OFFICE
BY _____

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Well Name: WF Federal 21-1R
Date: March 18, 1999
Field: Pictured Cliffs Location: 21/30N/14W County: San Juan State: NM
Stimulation Company: American Energy Services Supervisor: John Thompson

Stage #: 1/2

Sand on location (design): 40,000# Weight ticket: 40,560 Size/type: 16/30 Arizona
Fluid on location : No. of Tanks: 1 Strap: 19 Amount: 380 Usable: 360

Perforations:
Depth: 1076' - 1086' Total Holes: 30 PBTD: 1204'
Shots per foot: 3 spf EHD: 0.30"

Breakdown:
Acid: n/a
Balls: n/a
Pressure: 2,280# Rate: 1.7 bpm

Stimulation:
ATP: 1050# AIR: 29.5 bpm
MTP: 2280# MIR: 31 bpm

ISIP:	742#	pad	1090#	14 cps @ 70 degrees break in 36 min.
5 min:	719#	1 ppg	1080#	
10 min:	700#	2 ppg	1070#	
15 min:	687#	3 ppg	1040#	
		4 ppg	1030#	

Job Complete at: 8:40 hrs. Date: 3/18/99 Start flow back: 3/18/99
Total Fluid Pumped: 175
Total Sand Pumped: 40,560# Total Sand on Formation: 39,235#
Total Nitrogen Pumped: 105,800 scf

Notes:

Additives: Foamer - 5 gal/1000 gal. Total 45 gal
Breakers - Enzyme breaker (total of 1/4 gal/1000 gal). Total 3 gal - diluted in 40 gal of water.

Used 55 gal of gel to mix w/ water - gelled tank measured 20#
Frac tank heated to 80 degrees

Signature

