Form 3160-5

(June, 1990) REVISED

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPROVED
------	----------

Rudget	Bureau	No.	1004-013	5
Dunger	201000			_

Expires: March 31, 1993

i.	Lonco	Designation	and	Serial	No.	

SUNDRY NOTICES AND REPORTS ON WELLS NMNM-0206995 Do not use this form for proposals to drill, or to deepen or reentry to a different reservoir. PH 12: 0 Use "APPLICATION FOR PERMIT--" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well 8. Well Name and No. Other Gas Well Oil Well WF Federal 34-2 2. Name of Operator 9. API Well No. Richardson Operating Company 30-045-29882 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area 1700 Lincoln, Suite 1700, Denver, Colorado 80203 (303) 830-8000 Harper Hill FR Sand PC/Basin Fruitland Coal 4. Location of Well (Footage, T, R, M, or Survey Description) 11. County or Parish, State 1055' FSL, 1470' FWL San Juan County, NM Sec. 34-T30N-R14W CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Abandonment New Construction Recompletion Notice of Intent Non-Routine Fracturing Plugging Back Water Shut-Off Casing Repair Subsequent Report Conversion to Injection Altering Casing Dispose Water Surface Casing/Cementing Final Abandonment Notice (Note: Report results of multiple completion on Well Other: see below 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 College Signed:	Title: Land Manager	CACENTE OF COL					
(This space for Federal or State office used Approved by:	Title:	Date: APR 2 6 2000					
Conditions of approval, if any: 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 arith false; ricettions of SV							
vits or representations as to any matter within its jurisdiction.							

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Date: Field:	Richardson Operating Company 12/8/99 Basin Fruitland Coal on Company: Schlumberger Dowell		Well Name: Location: Supervisor:	WF Federal 34-2 34-30N -14W County: San Juan State: NM					NM	
Stimulatio	n Company:	Schlamberger Dov		_ ~~~						
Stage #:	2/2		50.000) Weight ticket:	50,179		Size/type:	20/40 Arizona	3	
Sand on I	ocation (desig	n):	50,20	_ Weight licker			-			.hle .
Fluid on I	ocation:	No. of Tanks:		5 Strap	5	Amount:	1250 bbis	- Usable	1150 b	1015
Perforat	tions						7/		DOTD:	1248'
		Depth:	1034' - 1	052'	<u> </u>	Total Holes:	7:	2_	FBIU.	1240
		Shots per foot:		4		EHD:	0.3	8		
Breakd	own									
		Acid:	400 gals		_					
		Balls:			<u>·</u>					
		Pressure:	3	70		Rate:	3	.5	_	
Stimul	ation									
		ATP:	560#			AIR:	21.0 bpr	<u>n</u>		
		MTP:	3708#			MIR:	31.4 bpr	n		
	5 m 10 m		 	Sand Stage pad 1 ppg 2 ppg 3 ppg 4 ppg	925# 883# 838# 705# 677#	<u>.</u>		Breaker tes 16 cps in 2 break in 48	0 min	
	Job Comp		– 8 hrs.		Date	e: <u>12/8</u> .	/99	Start flow ba	ck:	12/8/99
			_	211 gals						
	Total San	d Pumped: <u>50,</u> 17	79			Total Sand	on Format	ion: 50,	179	
	Total Nitr	ogen Pumped:								
Notes	spot acid start frac	down tbg toh w/ tbg	}							

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company			Well Name:	WF Federal 34-2						
Date: 12/8/99				24 20N 44	187	Countr	San Juan	State:	NIM	
Field:	Harper Hill FR	Schlumberger Do	woll	Location: Supervisor:	34-30N-14	VV	County:	San Suan	State.	TAIVI
Sumulatio	in Company.	Schlamberger Do	Well	- Supervisor.		<u> </u>	<u> </u>			
Stage #:	1/2									
Sand on lo	ocation (design):	52,000	Weight ticket:	52,000		Size/type:	20/40 Arizona	i	
Fluid on lo	ocation:	No. of Tanks:	5	Strap:	18' 6"	Amount:	1850 bbls	Usable:	1750 b	bls
Perforati	ions									
		Depth:	1062' - 10	72'	· ·	Total Holes:	40	-	PBTD:	1248'
		Shots per foot:	4		-	EHD:	0.38	-		
Breakdo	wn									
		Acid:	0		-					
		Balls:	N/A		-					•
		Pressure:			-	Rate:			_	
Stimulat	ion									
		ATP:	559#		_	AIR:	22.8 bpm		-	
		MTP:	751#		_	MIR:	30.7 bpm		-	
				Sand Stage	Pressure			Breaker test	**************************************	
				pad	641#	<u></u>		20 cps		
	ISIP:	343#		1 ppg	632#			break in 1 hr		
	5 min:	311#	- -	2 ppg	659#					
	10 min:	279#	•	3 ppg	645#					
	15 min:	247#	<u>-</u>	4 ppg	609#					
	Job Complete	e at: 9:48	hrs.		Date	12/8/99	<u>9</u> :	Start flow back	:1:	2/8/99
	Total Fluid P	umped: 544 bb	ols 22,88	5 gals	_					
	Total Sand P	umped: 52,000)		-	Total Sand or	Formation	52,000)	<u></u>
	Total Nitroge	n Pumped:	N/A				- .			
Notes:										
Notes.										