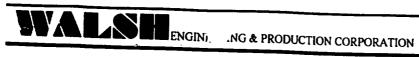
Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 893 BUREAU OF LAND MANAGEMENT 5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS NM-97843 Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. 6. If Indian, Allottoe or Tribe Name Use "APPLICATION FOR PERMIT—" for such proposals 7. If Unit or CA, Agrocment Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well Other 8. Well Name and No. 2. Name of Operator WF Federal #28-1 Richardson Operating Company 019219 9. API Well No. 3. Address and Telephone No. C/O Walsh Engr. & Prod. Corp. 30-045-29880 7415 E. Main Farmington, N.M. 87402 505 327-4892 4. Location of Well (Footage, Soc., T., R., M., or Survey Description) 10. Field and Pool, or Explorators APC & Twin Mounds FISAPC & Basin Fruitland Coal
H. County or Parish, State 985'FNL & 855'FEL Sec. 28, T30N, R14W San Juan County, N.M. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion Subsequent Report **New Construction** Plugging Back Non-Routine Fracturing Casing Repair Final Abandonment Notice Water Shut-Off Altering Casing Conversion to Injection Dispose Water 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 markers and zones pertinent to this work.)* SEE ATTACHED FRACTURE TREATMENT REPORTS OIL CONL DIV.

I broken mitted		
I hereby certify that the foregoing is true and correct Signod Paul C 1/40 1/		
(This space for Federal or State office use)	TidePaul C. Thompson,	ACCEPTED FOR RECORD
Approved by	Tide	JUN 3-0 1999
18 U.S.C. Section 1001 makes it a minutes	NMOCD	FARMINGTON-FIELD OFFICE
presentations as to any matter within its jurisdiction,	wingly and willfully to make to any department or ag	concy of the third States and Architous or fraudulent states

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FRACTURE TREATMENT REPORT

Date:	Operator: Richardson Operating Date: May 27, 1999			Well Name:		WF Federal 28-1			
Fleid:	eld: Fruitland Coal		Location:	28/30N/14W County:					
Stimulatio	mulation Company: BJ Services		Location	Supervis		San Juar		NM	
				- uper via		John The	ompson		
Stage #:	2/2								
Sand on	Sand on location (design):		48,000#	Weight ticket:		48,760# Size/type: 16/30 Ariz			zona
Fluid on	location :	No. of Tanks:	1	Strap:	18.5'	Amount:	340	Usable:	320
Perforati	ons:								
	er tot en egy sin stage girl	Depth:	1106' - 1118'	Petrolic of Control					
				-	Total Holes:	48	-	PBTD:	1295'
		Shots per foot:	4 spf	•	EHD:	0.36"			
Esterica de	MT:								
		Acid:	n/a		and the second				
		5 "		•					
		Balls:	n/a	i					
		Pressure:	Never saw break	Rate	25				
E. Konster Steel		222 462 2222222	John Strong	Rate	2.5 bpm		_		
Stepulati	on:								
		ATP:	4020#						
			1036#	AIR:	25 bpm		-		
		MTP:	1356#	MIR:	30 bpm				•
			***				-		
			3	Cand Stage			Broader (anti-		
	ISIP:	1220#		pad	1320# - 1280#			-	
	5 min:			1 ppg	1253# to		1# / 1000 gal	broke in 40	min.
	10 min:	782#		2 ppg	1182#		Increase to 1	.5#	
	_	763#		3 ppg	Change rate		Gel: 10 cps		
	15 min: _	748#		4 ppg	1355#				
J	ob Comple	ete at:	9:30 hrs.	Date:	5/27/99	Start flov	w back:	<i>5/27/</i> 99 10:	:30
To	otal Fluid I	Pumped:	191 bbls				•		
To	otal Sand I	Pumped:	48,760# T	otal Sand	on Formatio	on:	48,000#		
To	otal Nitrog	en Pumped: 2	200,000 scf			•			
constant br	iefly then : Foame	continued ramer - 3 gal/100		10m 20 0	, m 10 34 Bb	pumped m during	. Continued 3 ppg stage	ramp for , held sand	

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Date: May 24, 1999				Well Name:		WF Federal 28-1				
Field:	Pictured (Lond							
Stimulation	on Compar	ny: BJ Services	Location	28/30N/141	w County:	San Juan		NM		
Stage #:				Supervis	sor:	John Tho	mpson			
Sand on location (design):		55,000#	Weight ticket:		56,000#	_Size/type:	16/30 Arizona			
Fluid on	location :	No. of Tanks:	1	Strap:	18.5'	_Amount:	370 bbls	Usable:	350 bbls	
Perforat	ions:				Ond I Printer, april 1887 pages					
		Depth:	1124' - 1138'		Total Holes:	42		PBTD:	1295'	
	****	Shots per foot:	3 spf	-	EHD:	0.28"	-			
Preside to	WN:	Acid:								
		Balls:	n/a	•						
		Pressure:	1262#	Rate	2.5 bpm		•			
Stimulati	on:								A R Mart Propagation	
		ATP:	800#	AIR:	30 bpm					
		MTP:	1262#	MIR:	30 bpm		•			
					Kitaikes/		to Stage	20 min		
	ISIP:	700#		pad	898#					
	•	700#	•	1 ppg	837#		20 cps			
	5 min:	568#	•	2 ppg	765#					
	10 min:	560#	ı	3 ppg	850#					
	15 min:	559#		4 ppg	874#					
J	ob Compl	ete at:	9:15 hrs.	Date:	5/24/99	Start flov	v back:	10:15 hrs. (5/24/99	
	otal Fiuid		260 bbls				•			
	otal Sand	•		Total Sand	on Formati	on:	55,100#			
	otal Nitrog	en Pumped:	176,000 scf							
Notes:						·			 1	
Additive:	s: Foam Breal	er - 3 gal/100 kers - 1#/1000	00 gal D gal (GBW-10 E)	nzyme B	reaker)					
Pro-Tech		ged frac w/II								
						•				
					Signature		·			