Form 3160-6 (June, 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANACEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lesse Designation and Serial No. NM-25857

Do not use this form for proposals to	6. If Indian, Allotte or Tribe Name				
Use "APPLICATION FO					
SUBMIT IN TRIPLIC	7. If Unit or CA, Agreement Designation				
Type of Well					
Oil Well X Gas Well	Other	8. Well Name and No.			
Name of Operator	WF Federal 21-3				
chardson Operating Company	9. API Well No.				
Address and Telephone No.	30-045-30261				
700 Lincoln, Suite 1700, Denver, Colora	10. Field and Pool, or Exploratory Area				
Location of Well (Footage, T, R, M, or Survey Descripti	Harper HII Fruitland Sand PC				
100' FSL, 1800' FEL	11. County or Parish, State				
ec. 21-T30N-R14W	San Juan County, NM				
CHECK APPROPRIATE BOX(s) TO I	INDICATE NATURE OF NOTICE, REPORT, OR OT				
TYPE OF SUBMISSION	TYPE OF ACTION				
	Abandonment	Change of Plans			
Notice of Intent	Recompletion	New Construction			
	Pługging Back	Non-Routine Fracturing			
X Subsequent Report	Casing Repair	Water Shut-Off			
	Altering Casing	Conversion to Injection			
Final Abandonment Notice	Surface Casing/Cementing	Dispose Water			
	X Other: see below	(Note: Report results of multiple completion on Well			
If well is directionally drilled, give subsurface locations and me	Il pertinent details, and give pertinent dates, including estimated e easured and true vertical depths for all markets and zones pertine				
the state of the s	easured and true vertical depths for all markets and zones pertine	date of starting any proposed work.			
If well is directionally drilled, give subsurface locations and me	easured and true vertical depths for all markets and zones pertine	date of starting any proposed work. ent to this work.)*			

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardso	on Operating Compa	any V	Vell Name:	WF Federal	21-3				
Date: August 27, 2000									
Field: Pictured (Cliffs		ocation:	21-30N-14V	N	_County:	San Juan	_State:	NM
Stimulation Company	ny: Schlumberger	s	Supervisor:						
Stage #: 1/1									
Sand on location (de	;sign):	73,100 V	Veight ticket:	73,	,100	_Size/type:	20/40 A	Arizona S	Sand
Fluid on location:	No. of Tanks:	2	Strap:	:40	Amount:	::800	_ Usable:	:	760
Perforations									roment out
	Depth:	1191' - 1203'	<u> </u>	- -	Total Holes:	:48	-	PBTD:	1420'
	Shots per foot:	: 4		_ 	EHD:	0.41	_		
Breakdown									<u> Pepago</u> Hilli
	Acid:	500		-					
	Balls:	N/A		-					
	Pressure:	417			Rate:	3	3		
Stimulation : *	19								
	ATP:	409		_	AIR:	22.3 bpm		_	
	MTP:	1822		_	MIR:	31.6 bpm			
			Sanifi State	_	•		Greaker (est		
	* ***		pad	554			20 brook		
	ISIP: 430		1 ppg	531			20 cps break	cin	
	min: 380		2 ppg	490			43 mins.		
	min: 325 min: 307		3 ppg	494 522					
			4 ppg	•			ar (a mi book		****
		: <u>00 </u> hrs.		Date:	8/27/00	- '	Start flow back	c	N/A
Total Flu	uid Pumped:	725	<u></u>	_					
Total Sa	and Pumped:	73,100	0	_ T	otal Sand or	n Formation	ı:	72,800	<u></u>
Total Nit	trogen Pumped:	N/A				_			
Notes:							<u></u>		