FORM 3160-3 (December 1990)

LIMITED STATES

SUBMIT IN TRIPLICATE* Other instructions on Form approved. Budget Bureau No. 1004-0136

			The leverse side)	Expires December 31, 19		
	MENT OF THE		BLM	5. LEASE DESIGNATION AND SERIAL	NO.	
BUREA	U OF LAND MAN		C DM 3:55	NM-2 6313 978		
APPLICATION FOR	PERMIT TO DE	99 JUL DEEPEN O	D DI IIG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NA	ME	
55415		7 070 1	ANANGTON, NIM	7. UNIT AGREEMENT NAME	 -	
L TYPE OF WORK UKILL [A) DEEPEN	J 0/0 F	AUMINOTOR CON-	/ UNIT AGREEMENT NAME	7.151 -	
) TIPE OF WELL				8. FARM OR LEASE NAME	14-361	
OIL GAS	y[SINGLE	MULTIPLE	¬		
WELL WELL	OTHER	ZONE	ZONE	WF Federal 28		
NAME OF OPERATOR		_		9. WEIL NO.		
ADDRESS OF OPERATOR	Operating Compan			2API#30-04	5-19148	
	15 E Main Ct Emm	10/15	USE WE	10. FIELD AND POOL OR WILDCAT	- 1 1	
/o Walsh Engineering 74.	13 E. Main St., Farn	nington, NM 8 1402	(303)-341-4891	Twin Mounds Pe Lut	Sud A	
t Surface 1525' FSL an	nd 1850' FFI.	e with any State requirements	UG 1 0 1000 /L	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	•	
at proposed Prod. Zone	. 1000 1 <u>DD</u>	(0)77	1 0 1999	T Sec. 28, T30N, R1	A TW	
- p p p p p p p p.			FOM FARM	J 560. 20, 1301V, KI	7 77	
DISTANCE IN MILES AND DIRECTION		POST OFFICE*	Will B	12. COUNTY OR PARISH	13. STATE	
	east of Kirtland, N	1171	~	San Juan	NM	
DISTANCE FROM PROPOSED* LOCAT OR LEASE LINE, FT (Also to nearest drig		Y 16. NO. OF ACRES IN LEAS	E	7. NO. OF ACRES ASSIGNED TO THIS WEL	L _	
1525'		14	440	160 acres		
DISTANCE FROM PROPOSED LOCATI		19. PROPOSED DEPTH		ROTARY OR CABLE TOOLS		
DRILLING, COMPLETED, OR APPLIED 3500'	D FOR ON THIS LEASE, FT.	1220	_{0'}	Rotary		
ELEVATIONS (Show whether DF, RT, GF	R, etc.)		-	22. APPROX. DATE WORK WILL START*		
5540' GR				August 1, 1999		
l.	PROPOSED CASI	NG AND CEMENTING	PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEME	NT	
8-3/4"	7"	20#	120'	36 cu.ft. Cl "B"		
8-3/4" 6-1/4" saction is subject to tech	7" 4.5"	20# 10.5#	120' 1220'	36 cu.ft. Cl "B" 134 cu.ft.w/ 2% metasilica		
8-3/4" 6-1/4" s action is subject to technological review pursuant to appeal pursuant to 43 CF	7" 4.5" nical and 43 CFR 3166.3 FR 3165.4.	20# 10.5# DRILLING OPERATE SUBJECT TO COMP "GENERAL REQUIR	120' 1220' ONS AUTHORIZED LIANCE WITH AT	36 cu.ft. Cl "B" 134 cu.ft.w/ 2% metasilica ARE cu.ft. Cl "B" FACHED	te	
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8-3/4" 6-1/4" s action is subject to technology appeal pursuant to appeal pursuant to A3 CF Richardson Operating Contractions at the above distribution of the contraction of the contra	7" 4.5" Ital and 43 CFR 3166.3 R 3165.4. Impany proposes to the secribed location is the secretary of the	20# 10.5# DAILLING OPERATE SUBJECT TO COMP GENERAL REQUIR o drill a vertical we in accordance with eveyed by La Plata a directly to your offi to obtain BLM road W of Section 28, NV the Twin Peaks Blvd sal is to deepen or plug back, sal ubsurface locations and measur TITLE Pau APPROVAL DATE directly to those rights in	120' 1220' ONS AUTHORIZED ELIANCE WITH AT THEMENTS' Tell to develop the F the attached drilling Archeological Confece. If and pipeline right W/NW of Sec. 33, No. If the pipeline round	36 cu.ft. Cl "B" 134 cu.ft.w/ 2% metasilical ACC cu.ft. Cl "B" FACHED Pictured Cliffs and Fruitland ing and surface use plans. asultants. t-of-ways. This well will be VE/NE, the is described on Plat 4. The control of the co	d Coal accessed b	
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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.



District I 1625 N. French Dr., Hobbs, NM 88240 District II

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1994

\$11 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87416 OIL CONSERVATION DIVISION M Sub 2040 South Pacheco Santa Fe, NM 87505 99 JUL -6 PM 3: 55

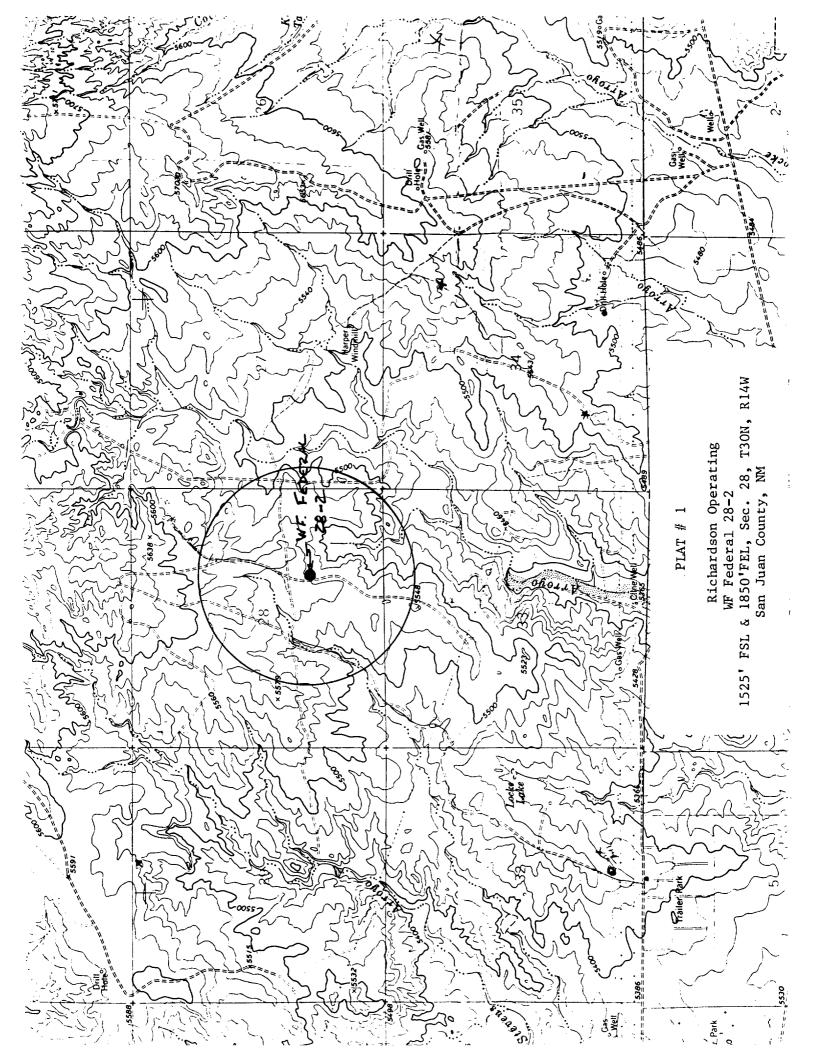
Submit to Appropriate District Office

District [V 2040 South Pacheco, Santa Fe, NM 87505 State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pache	co, Santa Fe	. NM 87505] AMT	ENDED REPORT	
			יתבוון (^^ ∧ T !		^ CD	070 FARM	MINGTON, N	1	~ ~	:NDED KEFOK i	
3004	API Number	EAGU S	ンI	³ Pool 0 6620	Code Code		60.0	CATION PLA E Sud Pool Na Pictured C				
Property (S- C)	<u>// τ υ</u>		3020	· Pro	operty:		Picturea o.	Lliis	Gy.	<u> </u>	
245	67	i				operty . F Fed				* Well Number 28-2		
OGRID.	Na.				•	erator					* Elevation	
019219	1	i		RICE	•		ATING COMPAN	v	ļ	!	5540'	
							Location	<u></u>		<u> </u>	7370	
UL or lot no.	Section	Township	Range	Lot Idn			North/South line	Feet from the	East/West	t line	County	
J	28	30 N	14 W	<u></u>	1525			1850'	E:	ast	San Juan	
····			¹¹ Bo	ttom I	Hole Locati	ion I	f Different From	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	n Feet from t	the	North/South line	Feet from the	East/West	t line	County	
12 Dedicated Acr	res 13 Joint 6	or Infill 14	Consolidation	n Code	15 Order No.				<u> </u>			
160	Y											
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							N APPROVED BY					
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		l			DUS	M.	3	Signature Paul C	. Thom	nean	V	
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								Agent Title				
]	i						7-2-99)			
		-						Date				
								18SUR	VEYOR	CER	TIFICATION	
		İ				1		I hereby certi	ify that the we	ell location	n shown on this plat wa	
		ĺ				1		under my sup	pervision, and		veys made by me or ame is true and correct	
		ĺ					1850'	to the best of		HUDD		
1		l			⊘ ←	-		Date of Sur		WEXICO	(3)	
ļ		 		1		-	· 	Signature and	Seli of Prof	essional su	urwing	
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1525

Certificate Number



In Lieu of Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

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

Do not use PERMIT	SUNDRY NOTICES AND this form for proposals to drill or to deepen or re- " for such proposals	REPORTS ON WELLS SECTION FOR 4	2				
		970 (70, 11 (32 6)), 11	15.74 Lease Designation and Serial No. NM -97843				
			6. If Indian, Allottee or Tribe Name				
	SUBMIT IN	TRIPLICATE SEP - 8 1999	7. If Unit or CA, Agreement Designation .				
1.	Type of Well ☐ Oil Well	53 to OEI	8. Well Name and No. O WF Federal 28 - 2				
2.	Name of Operator Richardson Operating Company	DIST. 3	9. API Well No. 30-045-29948				
3.	Address and Telephone No. C/O Walsh Engin 7415 East Main, Farmington, NM 87402	neering & Production Corp. 505-327-4892	10. Field and Pool, or Exploratory Area Twin Mounds Pictured Cliffs				
4.	Location of Well (Footage, Sec., T., R., M., or S 1525' FSL & 1850' FEL, Sec. 28, T30N, R1	· · · · · · · · · · · · · · · · · · ·	11. County or Parish, State San Juan, NM.				
	CHECK APPROPRIAT	TE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
	TYPE OF SUBMISSION	TYPE OF	F ACTION				
	☐ Notice of Intent ☑ Subsequent Report ☐ Final Abandonment	☐ Abandonment ☐ Recompletion ☐ Plugging Back ☐ Casing Repair ☐ Altering Casing ☐ Other <u>see below</u>	☐ Change of Plans ☑ New Construction ☐ Non-Routine Fracturing ☐ Water Shut-Off ☐ Conversion to Injection ☐ Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)				
13.	Describe Proposed or Completed Operations (C is directionally drilled, give subsurface location	learly state all pertinent details, and give pertinent dates, incless and measured and true vertical depths for all markers and zo	uding estimated date of starting any proposed work. If well ones pertinent to this work.)*				
Land @ cement 8/29/99 KB. Co	136' KB. Cement w/ 60 sx. (71 cu to surface. - TD 4-1/2" hole @ 1530 hrs. @ 15	D surface hole to 138' @ 1500 hrs. 8/26/99. Ref.) of Class "B" cement w/ 2% CaCl2. PD @ 220'. Run 28 jts. of 4-1/2", 10.5#, ST&C, where the surface is surface.	1630 hrs. 8/26/99. Circulated out 5 bbls of nite band casing (1199.40') & land @ 1204'				
14.	I hereby certify that the foregoing is true and or Signed	Tohn C. Thompson) Title Agent/Engi	neer Date <u>08/31/99</u>				
	(This space for Federal or State office use)						
	Approved by	Title	Date				
Title 18 U	J.S.C. Section 1001, makes it a crime for any per	rson knowingly and willfully to make to any department or a	gency of the United States any false, fictitious or fraudulent				

*See Instruction on Reverse Side

statements or representations as to any matter within its jurisdiction.

ACCEPTED FOR RECORD

SEP 0 2 1999

L & B Speed Drill, Inc.

P.O. BOX 70 • FARMINGTON, NEW MEXICO 87499-0070 • (505) 325-19/19

September 8, 1999

RICHARDSON OPERATING COMPANY 1700 LINCOLN ST., SUITE 1700 DENVER, CO 80203

Re: Directional Survey
Well WF Federal #28-2
1525' FSL & 1850' FEL
Sec. 28, T30N, R14W

Below is the directional survey for your well WF Federal 28.

130' 1/4°

630' 1/2°

1220' 1/2°

ACKNOWLEDGEMENT

STATE OF NEW MEXICO

COUNTY OF SAN JUAN

SIGNED & ACKNOWLEDGE BY:

JAMES L. LUDWICK, DRILLER

The foregoing instrument was acknowledge before me this got day of day of

NOTARY PUBLIC

My commission expires: /0/23/99

Form :116/j-5 (June, 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

SUNDRY N	NMNM-97843			
Do not use this form for p	proposals to drill, or to deepe	n or reentry to a different (6. If Indian, Allotte or Tribe Name
Use "APPL	ICATION FOR PERMIT- for	such proposals	197213733 V	
SUBMIT II	V TRIPLICATE		(32)	7. If Unit or CA, Agreement Designation
. Type of Well			FEB 2000	
Oil Well X	Gas Well	Other	FEB 2000 PECEIVED	Well Name and No.
2. Name of Operator		52	RECON. DN	W/F Federal 28-2
Richardson Operating Company			OIL DIST. 3 C	g. API Well No.
3. Address and Telephone No.		∀ .4 .	(X)	30-045-29948
1700 Lincoln, Suite 1700, Denve		303) 830-8000	1/11/60	19. Field and Pool, or Exploratory Area
Location of Well (Footage, T, R, M, or Surv	rey Description)			Twin Mounds PC
1525' FSL, 1850' FEL				11. County or Parish, State
Sec. 28-T30N-R14W	ANT I TO PERIOD TE MAT	TIPE OF MOTION BETT	OR OTHER DATA	San Juan County, NM
	OX(s) TO INDICATE NAT			
TYPE OF SUBMISSION	 	T	ACTION	Change of Plans
	<u> </u>	Abendonment		Change of Plans New Construction
Notice of Intent	-	Recompletion	1	Non-Routine Fracturing
[V] Subarrana Barrat		Plugging Back Casing Repair		Water Shut-Off
X Subsequent Report		Altering Casing		Conversion to Injection
Final Abandonment Notice		Surface Casing/Cementing		Dispose Water
	x	Other: see below	(Note	i: Report results of multiple completion on Well
	ļ	.	Comp	oletion or Recompletion Report and Log form).
If well is directionally drilled, give subsurface lo	er attached treatmen		nd zones perunent to this wor	200 FEB - 7 AN ID: 54 070 FMALHOTON, AM
14. I hereby certify that the foregoing is true and correct Signed: (This space for Faderal or State office use) Approved by: Cenditions of approval, if any:	<u> </u>	Title: Land Manager		ACOFPTED FOR RECORD
Title 18 U.S.C. Section 1001, makes it a crime fo	r any person knowingly and willfu	ully to make to any departmen	nt or agency of the United Stat	**************************************
statements or representations as to any matter within its ju		and and and and and		BY

RICHARDSON OPERATING COMPANY

FRACTURE TREATMENT REPORT

Operator: Richardson Operating Company			Well Name:	WF Federal 28-2						
Date:				<u>_</u>						
Field:			Location:	28-30N-14V	<u> </u>	County:	San Juan	State:	NM	
Stimulatio	n Company:	American Energy		Supervisor:						
Stage #:	1/1									
Sand on lo	ocation (design):	37500	Weight ticket:	38,700	<u> </u>	_Size/type:	20/40 Brady 5	Sand	
Fluid on lo	ocation:	No. of Tanks:	2	Strap:	18' 6"	Amount	774 bbls	_ Usable:	700)
Perforat	ions									
		Depth:	1072' - 10	82'	_	Total Holes:	40	<u>)</u>	PBTD:	1160'
		Shots per foot:	4		-	EHD:	0.38	3		
Breakdo	nwn									
		Acid:	200 gals		-					
		Balls:	N/A	· · · · · · · · · · · · · · · · · · ·	-					
		Pressure:	725#		_	Rate:	30.8	3	-	
Stimula	tion									
		ATP:	600#			AIR:	30.8 bpm			
		MTP:	725#		-	MIR:	30.8 bpm		_	
				Sand Stage	Pressure			Breaker test	<u> </u>	
				pad	417#			14 cps		
	ISIP		-	1 ppg	725#			break in 1 hr		
	5 min		-	2 ppg	645# 620#					
	10 min		_	3 ppg	604#					
	15 min	:0#	-	4 ppg	1 004					
	Job Complet	te at: 14:11	hrs.		Date:	12/6/9	19	Start flow back	c <u>N/</u>	Α
	Total Fluid F	umped: 402 b	bis 16,91	6 gals	_					
	Total Sand F	Pumped:	0		Total Sand o	n Formation	n: <u>37,50</u>	0		
	Total Nitroge	en Pumped:	N/A							
Notes:										
-										