2004 JUN 21 AM 9 09

	[00] OOK	
Form 3160-3 (September 2001)	RECEIVED	FORM APPROVED OMB No. 1004-0136
UNITED STATES	OTO FARMINGTON NIM	Expires January 31, 2004
DEPARTMENT OF THE II		5. Lease Serial No.
BUREAU OF LAND MANA		NMSF-079968 6. If Indian, Allottee or Tribe Name
APPLICATION FOR PERMIT TO DI	RILL OR REENTER	N/A
1a. Type of Work: XIXI DRILL REENTE	ER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well Gas Well Other	XX Single Zone Multiple Zone	8. Lease Name and Well No. WF Federal 33 #5
2. Name of Operator Richardson Operating Company		9. API Well No. 30-045- 32435
3a. Address 3100 La Plata Hwy, Farm., NM 87401	3b. Phone No. (include area code) 564-3100	10 Field and Pool, or Exploratory Basin Fruitland Coal
4. Location of Well (Report location clearly and in accordance with At surface 1855 FSL & 995 FEL At proposed prod. zone Same	any State requirements.*	11. Sec. T., R., M., or Blk. and Survey or Area Sec. 33-T30N-R14W, NMP
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
6 miles NE of Kirtlan	nd, NM	San Juan NM
15. Distance from proposed* location to nearest property or lease line, ft. 995	16. No. of Acres in lease 17. Spaci	ng Unit dedicated to this well
(Also to nearest orig. unit line, it any)		BIA Bond No. on file
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1160		M Nationwide #158293308
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
5436' GL	Upon approval	One week
	24. Attachments	
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas Order No.1, shall be attached to th	is form:
 Well plat certified by a registered surveyor. A Drilling Plan. 	Item 20 above).	ons unless covered by an existing bond on file (see
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	5. Operator certification. 6. Such other site specific intantherized officer.	formation and/or plans as may be required by the
25. Signature	Name (Printed/Typed)	Date
Title	Paul Lehrman	6-21-04
Petroleum Landman Approved Townstate	Name (Printed/Typed)	Date
M/Mankerton		Date 7-26-09
Title AFM	Office FFO	,
Application approval does not warrant or certify the the applicant holds operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those rights in the subject	lease which would entitle the applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i	t 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 *(Instructions on reverse)	to any matter within its jurisdiction.	
(man nemona em reverse)		
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1/	26	
TOMS AUTHORIZED ARE SPLIANCE WITH ATTACHED		subject to technical and spirit burshing to 43 CFR 3165,3
"SEVERAL MEGUIREMENTS".	and appeal p	oursuant to 3 CFR 3165.4
		\

NMOCD

STATE OF NEW MEXICO Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

			WELL		MON AND A	ICREAGE I	DEDICATION	N PL	AT.	·		
	PA Nu		\Box	Pool Co	de				l Name	;		
		2439	435 71629 Basin Fruitland Coal									
Property (Code			_ : :	Property N	perty Nome				Wel Number		
264/	5		~~~	W	/F FEDERA	FEDERAL 33 · 5						
OCRID N	٥.				•	Operator Name Elevation						
19219		<u> </u>	R	CHARDS	ON OPERAT	ING COMP.	ANY			5436'		
	,					e Location						
UL or Lot	Sec	Tup	Rge.	Lot kin		North/South	Feet from>	Eost/	West	County		
	33	30 N.	14 W.		1855	SOUTH	995	<u> </u>	IST	SAN JUAN		
		 	· ~~~~		n Hole Location					_		
UL or Lot	Sec.	Tup.	Rge.	Lot kin	Feet Irom>	North/South	Feet from>	Eost	West	County		
Dedication		int ?	ليننيا	<u>. </u>	<u> </u>	<u>L</u>	<u> </u>	er No.				
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•			4	9 c	dalated	•	1		OPE	RATOR CERTIFICATION		
						Existing Ric	hardson 33 #1 (Fruitland Co		I here	by certify that the information		
					W	770 FNL/19		Uair)	contain	by certify that the information ned herein is true and complete		
				1 1	水	1			to the best of my knowledge and belief.			
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		2 ////				1	•		Tibe	ndman		
Fruit	land	Coal 33	31.93 Ac.	1					Date			
				a		Į.				6-21-04		
				•				1	SUF	RVEYOR CERTIFICATION		
								Ψ)	I here	by certify that the well location is plat was plotted from field of actual surveys made by me der my supervision, and that the		
)	•		WGS 8	4		on thi	s plat was plotted from field of actual surveys made by me		
		20	歪	i T					or un	der my supervision, and that the		
		 -1	RECEIVED FARMINGTON			108183	04.84" N 2.19" W	•	1 2 Calles 1	is true and correct to the best belief.		
			RECEIVED FARMINGTO	. 1		. 10-		2883	Date	of Survey		
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Form 31 5 (Septemb 001)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

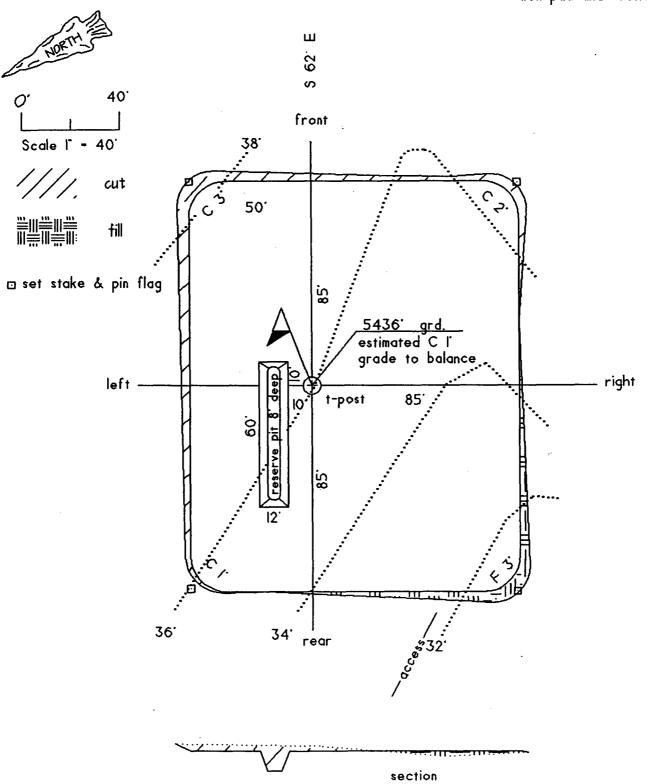
FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 200

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J	MSF	079968	

SUNDRY NOTICES AND REPOR				NMSF-07	9968		
Do not use this form for proposals to di abandoned well. Use Form 3160-3 (APD) t	riii or to re for such oi	-enter an oposals		6. If Indian,	Allott	ee or Tribe Name	
		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		N/A			
SUBMIT IN TRIPLICATE - Other instruc	tions on r	everse si	aey Jije 2		CA/A	greement, Name a	ind/or No.
1. Type of Well		and the same of the profitor has the best	n r	NI/A	-		
Oil Well Gas Well Other			KE NE	CEI 8. Well Na	me and	i No.	
2. Name of Operator			OTO FAR	MIVWF(Feder	al 33 #	15	
Richardson Operating Company	21 72 27	<i>a</i> 1 1		9. API Wel		72116	
3a. Address	3b. Phone No). (include ar	ea code)	30-045-	3		
	564-3100					, or Exploratory A	rea
4. Location of Well (Footage, Sec., T, R., M., or Survey Description) 1855' FSL & 995' FEL, Section 33-T30N-R14W				Basin Fru 11. County			
				San Juan			
12. CHECK APPROPRIATE BOX(ES) TO I	NDICATE	NATURE	OF NOTICE,	REPORT, OF	TO S	HER DATA	
TYPE OF SUBMISSION		TYPE	OF ACTION			···	
Acidize	Deepen		Production (S	start/Resume)		Water Shut-Off	
Notice of Intent Alter Casing	Fracture Ti	reat [Reclamation			Well Integrity	
Subsequent Report Casing Repair	New Const	ruction [Recomplete		\square	Other See Below	change
Change Plans	Plug and A	bandon [Temporarily	Abandon	:	spacing allocation	n
Final Abandonment Notice Convert to Injection	Plug Back		Water Dispos	al			
Request spacing for Fruitland Coal be the E/2 of Section 33 versus unit allocation as E/2 being 331.93 Acres. This well has not been			of the APD rem			s revised C-102	showing
14. 1 hereby certify that the foregoing is true and correct Name (PrintedlTyped)					.		
Paul Lehrman		Title Landn	nan				
Signature		Date 7/23/0	4				
THIS SPACE FO	R FEDERA	LORSTA	TE OFFICE U	SE		h, mil	
Approved by (Signature)	— <u> </u>		d/Typed) / Ay	Sanche +	Title	EP/ROW	Term
Conditions of approval, if any, are attached. Approval of this notice certify that the applicant holds legal or equitable title to those rights which would entitle the applicant to conduct operations thereon.	does not warr in the subject	ant or lease	PFO			EP/ROW Date 7/23	104

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Office	Diak	e of New Me	XICO		Form C-103
District I	Energy, Mine	erals and Natu	ral Resources	WELL ABOVE	March 4, 2004
1625 N. French Dr., Hobbs, NM 8824 District II				WELL API NO. 30-045-	
1301 W. Grand Ave., Artesia, NM 88	210	ERVATION		5. Indicate Type	of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 874	130	outh St. Fran		STATE	
District IV	Sant	ta Fe, NM 87	7505	6. State Oil & G	as Lease No. 079965
1220 S. St. Francis Dr., Santa Fe, NM 87505	ſ			N/A	0,,,,,,
	NOTICES AND REPORT	S ON WELLS		7. Lease Name	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PE	ROPOSALS TO DRILL OR TO	DEEPEN OR PLU	UG BACK TO A		
DIFFERENT RESERVOIR. USE "A PROPOSALS.)	APPLICATION FOR PERMIT"	(FORM C-101) FC	DR SUCH		eral 33
1. Type of Well:				8. Well Number	
Oil Well Gas Well	1 XX Other			11/3	
2. Name of Operator Richardson Opera	ting Company			9. OGRID Num 19219	ber
3 Address of Operator	ghway, Farmington	n, NM 8740	01	10. Pool name o	
4. Well Location					
Unit Letter I	: 1855 feet from	the South	line and	995 feet fro	East line
Section _	Townshi	p Ra	14 West	NMPM San J	County
	11. Elevation (Sho		- ·	10000000	
it or Below-grade Tank Application	n (For pit or below-grade tank	closures a form	6 GR C-144 must be attack	red)	
it Location: UL I Sect 33 T	Two 30N Rng 14W Pit type	Drilling _{De}	enth to Groundwater	> 00 Distance from a	earest fresh water well > //2 n;
Distance from nearest surface wat					
	and feet from the			·	•
	ck Appropriate Box t F INTENTION TO:	o maicate i		SEQUENT RE	EPORT OF:
		DON 🗌	REMEDIAL WO		ALTERING CASING 🔲
NOTICE OF PERFORM REMEDIAL WORK TEMPORARILY ABANDON			,		PLUG AND
PERFORM REMEDIAL WORK	K PLUG AND ABAN CHANGE PLANS MULTIPLE		COMMENCE DI	RK 🔲	
PERFORM REMEDIAL WORF TEMPORARILY ABANDON PULL OR ALTER CASING	K PLUG AND ABAN		COMMENCE DE CASING TEST / CEMENT JOB	RK RILLING OPNS.	PLUG AND ABANDONMENT
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PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 13. Describe proposed or of	CHANGE PLANS MULTIPLE COMPLETION Completed operations. (Cl	□ □ □ □ learly state all j	COMMENCE DE CASING TEST / CEMENT JOB OTHER:	RILLING OPNS. AND Pit Permit and give pertinent da	PLUG AND ABANDONMENT
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Richardson Operating Company WF Federal 33 #5 1855' FSL & 995' FEL Section 33, T30N, R14W, NMPM San Juan County, New Mexico

DRILLING PROGRAM

1. ESTIMATED FORMATION TOPS:

<u>Formation</u>	GL Depth	KB Depth	Subsea Elevation
Ojo Alamo/ Kirtland Shale	Surface	5'	+5,436'
Fruitland Fm	770'	850'	+4,666'
Basal Fruitland Coal	955'	1145'	+4,481'
Pictured Cliffs Ss	970'	1165'	+4,466'
Total Depth (TD)*	1050'	1205'	+4,386'
44.44 4 (9)		10.61	

^{*}All elevations reflect the ungraded ground level of 5,436'

2. NOTABLE ZONES:

Gas Zones	Water Zones	Coal Zones
Fruitland	Fruitland Coal	Fruitland Coal

Pictured Cliffs

Water zones will be protected with casing, cement, and water based mud. Fresh water encountered during drilling will be recorded by depth. Centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. Number of centralizers will be based on API standards. A turbulizing centralizer will be run to ensure an adequate cement procedure just below the base of the lowest usable water zone. Oil and gas shows will be tested for commercial potential based on the well site representatives recommendations.

3. PRESSURE CONTROL:

The drilling contract has not yet been awarded, thus the exact BOP model to be used is unknown. (A typical 2,000 psi model has been attached to the end of the drilling program.) Double ram or annular system with a rotating head will be used. All ram preventers and related equipment will be hydraulically tested at nipple up and after any use under pressure to 1000 psi.

Blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. BOP equipment will include a kelly cock, floor safety valve and choke manifold rated to 2000 psi. Maximum expected pressure is less than 1000 psi.

Drilling ProgramRichardson Operating Company

Page Two

4. CASING AND CEMENTING PROGRAM:

Hole Size	<u>O.D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	GL Setting Depth
8 3/4"	7"	20	J-55	New	120'
6 1/4"	4 1/2"	10.5	J-55	New	1050'

Surface casing will be cemented to surface with ≈ 36 cu.ft. (≈ 31 sx) Class B + 2% CaCl. Volume is based on 100% excess, yield of 1.18 cu.ft./sk, and slurry weight of 15.6 ppg. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Production casing hole will first be cleaned of rock chips by circulating at least 150% of hole volume with drilling fluid to surface. Thirty barrels of fresh water will then be circulated. Lead with \approx 145 cu.ft. (\approx 75 sx) Class B with 2% metasilicate (yield = 2.06 cu.ft./sk, slurry weight = 12.5 ppg). Tail in with \approx 65 cu.ft. (\approx 70 sx) Class B with 2% CaCl (yield = 1.18 cu.ft./sk, weight = 15.6 ppg). Total cement volume is \approx 180 cu.ft. based on 100% excess and circulating to surface.

Production casing will have 4 ½" cement guide shoe and self fill float collar. Float will be placed one joint above the shoe. Six centralizers will be spaced every other joint starting above the shoe. Six turbolizers will be placed every other joint starting from the top of the well.

5. MUD PROGRAM:

Surface casing hole will be drilled with fresh water mud. Production casing hole will be drilled with a fresh water polymer mud. Weighting material will be drill solids or, if needed, barite. Maximum expected mud weight will be 8.7 ppg. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.

6. CORING, TESTING, & LOGGING:

No cores or DSTs are planned. A cased hole CNL/GR will be run from TD to surface.

7. **DOWNHOLE CONDITIONS:**

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be approximately ≈520 psi. Although no hydrogen sulfide is expected while drilling, if encountered appropriate safety measures will be instituted. After the well is in production, if hydrogen sulfide is encountered, appropriate safety measures will be instituted to ensure the safety of the public, Richardson employees, contractors, or anyone expected to work or recreate in the vicinity. This may include, but not be limited to, monitoring, flagging or other measures appropriate for the situation.

BLOW OUT PREVENTER

