REGEWEN

2003 OCT 22 PM 2:156 FORM APPROVED Form 3160-3 (September 2001) OMB No. 1004-0136 Expires January 31, 2004 070 Farmington, NVs. Leasenerial No. **UNITED STATES** DEPARTMENT OF THE INTERIOR NMNM-080101 **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: 🔀 DRILL □ REENTER N/A 8. Lease Name and Well No. Oil Well X Gas Well Other ☐ Single Zone ☐ Multiple Zone Federal 32-17 #3 Type of Well: Name of Operator 9. API Well No. Richardson Operating Company 30-045-3b. Phone No. (include area code) Address 10. Field and Pool, or Exploratory 3100 La Plata Hwy, Farm, NM 87401 Basin Fruitland Coal 564-2100 T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) 1950' FSL & 1585' FEL At surface Sec. 17-T28N-R8W, NMPM Same At proposed prod. zone 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 12 miles SE of Blanco, NM 🏸 San Juan MN 17: Spacing Unit dedicated to this well Distance from proposed* 16. No. of Acres in location to nearest property or lease line, ft 690 472.88 S/2 320.00 Acres (Also to nearest drig, unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth 20. BLM/BIA Bond No. on file 2350' 425' applied for, on this lease, ft. BLM Nationwide #158293308 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 2 weeks 5760 GL Upon apporval 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. Operator certification A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signature Name (Printed/Typed) Date Paul Lehrman 10/21/03 Title Landman Approved by (Sign David J. Mankiewicz Name (Printed/Typed) Date JAN 21 2004 Title Office

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.

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct

*(Instructions on reverse)

Conditions of approval, if any, are attached.

operations thereon.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

Form 3160-5 (September 20	01)
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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED

XXI Other Change Well Name

	Expires		
Lease	Schial No		

Lease	Séptial N	lo.

NMM-080101

	abandoned well. Use Form 3160-3 (APD)) for such proposals.	N/A NM 89346
	SUBMIT IN TRIPLICATE - Other instru	ctions on reverse side ingión N	/1. If Unit or CA/Agreement, Name and/or No. N/A
1.	Type of Well		30-045-31979
	Oil Well XX Gas Well Other	15 m 17 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	8. Well Name and No.
2.	Name of Operator		Federal 32-17:#3
	Richardson Operating Company		9. API Well No.
	Address	3b. Phone No (include area code)	30-045- 31979
3	100 La Plata Hwy, Farm, NM 87401	56443100	10. Field and Pool, or Exploratory Area
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description)		Basin Fruitland Coal
			11. County or Parish, State
	1950' FSL & 1585' FEL-Sec. 17-T2	28n-r8W NWSE	San Juan Co., NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION TYPE OF ACTION Acidize Deepen ☐ Production (Start/Resume) Water Shut-Off Well Integrity

Notice of Intent Alter Casing ☐ Fracture Treat Reclamation New Construction Casing Repair Recomplete Subsequent Report Change Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice

Convert to Injection Plug Back Water Disposal Describe Proposed or Completed Operation (clearly state all pertinent patalls, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontal sees subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or performed the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results are multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed that after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Richardson Operating Company requests the name of the well as referenced above be changed from the original APD application, which as the Federal 33-17 #3. Per OCD requirements the infill well must have the same name as the parent well, which is the Federal 32-17 #2. The APD filedon 10/21/03 had the name of the well as the Federal 33-17 #3. Therefore the well name shall be the Federal 32-17 #3. All other information submitted to the BLM will remain the same.

A revised C-102 is attached.

This wel	l has not been drilled.				
14. I hereby certify that to Name (Printed/Typed	the foregoing is true and correct Paul Lehrman	Title	Landman	ACCEPTED FOR RECOR	با
Signature	Vala	Date	11/18/03	NOV 2 1 2003	_
	THIS SPACE FOR FEDER	AL OR	STATE OFFICE USE		
Approved by	David J. Mankiewicz		Title	FARMINGTON DISTRIBUTION OF THE BYDATE	2004
certify that the applicant	if any, are attached. Approval of this notice does not war holds legal or equitable title to those rights in the subject pplicant to conduct operations thereon.	et lanna	Office		
Title 18 U.S.C. Section 1	001 and Title 43 U.S.C. Section 1212, make it a crime for	any nerso	n 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.

(Instructions on reverse)

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code

APA Number

N 89 SI'E (calc.)

30-045-	319	779	716	529	E	Basin Fru	itland Co	ä1		
Property	Code	Property Name						Well Number		
964	9_		FEDERAL 33-17							3
O'GRID N	ů.				Operator N		-			Elevation
19219			R	ICHARDSO	N OPERAT	TING COMP	ANY			5760
- III						ce Location	1-	1		
UL or Lot	Sec.	Twp.	Rge.	Lat kin.			Feet from>	East/	•	County
	7	28 N.	8 W.	<u> </u>	1950	South	1585	Ec	ıst	SAN JUAN
UL or Lot	Bottom Hale Location If Different From Surface UL or Lat Sec. Twp. Rge. Lat Idn. Feet from> North/South Feet from> East/West County									
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<u> </u>	- <u>:</u>	. Eviati	g Richardson					- 6		EYOR CERTIFICATION
\		Federa	1 32-17 #2	• •	•	•		. []	I hereby	certify that the well location lat was plotted from field
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5280' (cdc)

Richardson Operating Company Federal 33-17 #3 1950' FSL & 1585' FEL Section 17, T28N, R8W, NMPM San Juan County, New Mexico

DRILLING PROGRAM

1. ESTIMATED FORMATION TOPS:

Formation	GL Depth	KB Depth	Subsea Elevation
Nacimiento	000,	5'	+5,760'
Ojo Alamo Ss	1069'	1074'	+4,691'
Kirtland Shale	1275'	1280'	+4,485'
Fruitland Formation	1850'	1855'	+3,910'
Pictured Cliffs Ss	2150'	2155'	+3,610'
Total Depth (TD)*	2350'	2355'	+3,410'

^{*}All elevations reflect the ungraded ground level of 5,760'

2. NOTABLE ZONES:

Gas Zones	Water Zones	Coal Zones
Fruitland	Ojo Alamo	Fruitland Coal
Fruitiand	Ojo Alamo	Fruitland C

Pictured Cliffs

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Centralizers will be run through the Ojo Alamo. A turbulizing centralizer will be run at the base of the Ojo Alamo to ensure an adequate cement procedure. 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 floor safety valve and choke manifold rated to 2000 psi. Maximum expected pressure is less than 1000 psi.

Drilling Program Richardson 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	K-55	New	250'
6 1/4"	4 1/2"	10.5	K-55	New	2350'

Surface casing will be cemented to surface with ≈ 100 cu.ft. (≈ 85 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 3 40 cu.ft. (\approx 175 sx) Class B with 2% metasilicate (yield = 2.06 cu.ft./sk, slurry weight = 12.5 ppg). Tail in with \approx 155 cu.ft. (\approx 132 sx) Class B with 2% CaCl (yield = 1.18 cu.ft./sk, weight = 15.6 ppg). Total cement volume is \approx 465 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. 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.

8. OTHER INFORMATION:

The anticipated spud date is November 30, 2003. It should take 5 days to drill and 1 week to complete the well.