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Form 3160-3 (September 2001) 观的一点别3,24

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FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

	BUREAU OF LAND MANAG	NMSF-0/8390					
	APPLICATION FOR PERMIT TO DR	6. If Indian, Allottee or Tribe N/A	Name				
la	Type of Work: DRILL REENTER	7. If Unit or CA Agreement, No. N/A	ame and No. 9				
16	. Type of Well: Oil Well X Gas Well Other	ole Zone	8. Lease Name and Well No. Federal 14	4 #2			
2.	Name of Operator RichardsonOperating Company			9. API Well No. 30-045- 3/2	950		
3a	Address 3100 La Plata Hwy, Farm, NM		10. Field and Pool, or Explorator Basin Fruitle				
4.	Location of Well (Report location clearly and in accordance with a At surface 2010' FSL & 1785' FEL  At proposed prod zone Same		Sec. 14-T28N-R8W	•			
14.	Distance in miles and direction from nearest town or post office*  14 miles SE of Blanco, NM			12. County or Parish San Juan	13. State NM		
15.	Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease 1,851.96		g Unit dedicated to this well 320.00 Acres			
18.	Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 425	19. Proposed Depth 2,900'		BIA Bond No. on file tionwide #1582933	08		
21.	Elevations (Show whether DF, KDB, RT, GL, etc.) 6340 GL  22. Approximate date work will start* Upon approval			23. Estimated duration 2 weeks			
	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.
- 2. A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

| Name (Printed/Typed) | Date |
| Paul Lehrman | 10-6-03 |
| Landman |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title | Office |

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 operations thereon.

Conditions of approval, if any, are attached.

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.

\*(Instructions on reverse)

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.4 procedural review pursuant to 43 CFR 3165.4 procedural pursuant to 43 CFR 3

MAR 2004

NMOCD

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

MENDED REPORT

Basin Fruitland Coal   Property Code   Property Name   FEDERAL   H-IH   2   GRID No.   19219   RICHARDSON OPERATING COMPANY   G340'   Surface Location   UL or Lot   Sec   Tsp.   Rgs.   Lot ldh.   Feet from   North/South   Feet from   Surface   County   Location   Feet from   Surface   County   Location   UL or Lot   Sec   Tsp.   Rgs.   Lot ldh.   Feet from   North/South   Feet from   Surface   County   Location   Different From Surface   County   Location   Dedication   Joint ?   Consolidation   Coder No.   No ALLOWABLE WILL ASSISTED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DMISION   S 89 33' E   S299'   Surface   County   Consolidation   Contained berefit is true and complete to the best of my knowledge and bealer.   Signature   County   Consolidation   Contained berefit is true and complete   County   Cou					##CL			ICREAGE L				
Property Code											· · · · · · · · · · · · · · · · · · ·	
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Form 3160-5 (September 2001)	UNITED STATES DEPARTMENT OF THE INT	TERIOR	FORM APPROVED OMB No. 1004-0135 Expires January 31, 2004
•	BUREAU OF LAND MANAGI	5. Lease Serial No.	
SUNDE	Y NOTICES AND REPORT	NMSF-078390	
abandoned w	nis form for proposals to dr ell. Use Form 3160-3 (APD) t	6. If Indian, Allottee or Tribe Name N/A	
	IPLICATE - Other Instruct	ions on reverse side on, NM	7. If Unit or CA/Agreement, Name and/or No. N/A
I. Type of Well  Oil Well XXI Gas Well	7 04		0 W.W
2 Name of Operator			8. Well Name and No. Federal 14-14 #2
	perating Company	· · · · · · · · · · · · · · · · · · ·	9. API Well No
3a. Address 3100 La Plata Hwy,		3b. Phone No. (include area code) 564-3100	30-045-31950
4. Location of Well (Footage, Sec			10. Field and Pool, or Exploratory Area  Basin Fruitland Coal
	5' FEL-Sec.14-T28N-	R8W	11. County or Parish, State
2010 101 4 170			San Juan Co., NM
12. CHECK AF	PROPRIATE BOX(ES) TO II	NDICATE NATURE OF NOTICE, I	REPORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
☐ Notice of Intent	Acidize	Deepen Production (Sta	rt/Resume)
XX Subsequent Report	Casing Repair	New Construction Recomplete	Cother Change Well Name
	Change Plans	Plug and Abandon Temporarily A	
☐ Final Abandonment Notice	Convert to Injection	Plug Back Water Disposal	
Richardson Ope changed from to requirements twas the Federal 33-14 information so	ctionally or recomplete horizontally, he work will be performed or provide olved operations. If the operation results have been small abandonment Notices shall be fifted from the form of the configuration of the configuration of the configuration of the state of the first head of t	give subsurface locations and measured and it is the Bond No. on file with BLM/BIA. Requisits in a multiple completion or recompletion led only after all requirements, including recompleted to the same of the well-cation, which was the bethe same as the part of filed on 10-6-03 had to	any proposed work and approximate duration thereof. The vertical depths of all pertinent markers and zones, sired subsequent reports shall be filed within 30 days in a new interval, a Form 3160-4 shall be filed once lamation, have been completed, and the operator has sell as referenced above be a Federal 33-14 #2. Per OCD cent well, which in this case the name of the well as the Federal 14-14 #2. All other ain the same.
This well has	not been drilled.	BY	MAR 2004
			- Constant
14. I hereby certify that the foregoin Name (Printed/Typed)			
	Paul Lehrman	Title Landman	
Signature	Anh	Date 11/18/03	684957
	THIS SPACE FOR	FEDERAL OR STATE OFFICE USI	ACCEPTED FOR RECORD
			200

Approved by

S. David J. Mankiewicz

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. 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 departs States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

Title

Office

# Richardson Operating Company Federal 33-14 #2 2010' FSL & 1785' FEL Section 14, T28N, R8W, NMPM San Juan County, New Mexico

# **DRILLING PROGRAM**

# 1. ESTIMATED FORMATION TOPS:

<u>Formation</u>	GL Depth	KB Depth	Subsea Elevation
San Jose Fm	000,	5'	+6,340'
Nacimiento	1057'	1062'	+5,283'
Ojo Alamo Ss	1814'	1819'	+4,526'
Kirtland Shale	2060'	2065'	+4,280'
Fruitland Formation	2624'	2629'	+3,716'
Pictured Cliffs Ss	2891'	2896'	+3,449
Total Depth (TD)*	2900'	2905'	+3,440

<sup>\*</sup>All elevations reflect the ungraded ground level of 6,340'

# 2. NOTABLE ZONES:

Gas Zones	Water Zones	Coal Zones
Fruitland	Ojo Alamo	Fruitland Coal

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.

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### 4. CASING AND CEMENTING PROGRAM:

Hole Size	<u>O.D.</u>	Weight (lb/ft)	<b>Grade</b>	<u>Age</u>	GL Setting Depth
8 3/4"	7"	20	K-55	New	300'
6 1/4"	4 1/2"	10.5	K-55	New	2900'

Surface casing will be cemented to surface with  $\approx 100$  cu.ft. ( $\approx 85$  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  $\approx$ 370 cu.ft. ( $\approx$ 180 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  $\approx$ 525 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  $\approx$ 520 psi.

### 8. OTHER INFORMATION:

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