

CONFIDENTIAL - TIGHT HOLE

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

~~NM-078931~~

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

ROPCO FED 12 (A & B)

9. WELL NO.

2

10. FIELD AND POOL OR WILDCAT

W. Kutz

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

Sec. 12, T29N - R13W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

17. NO. OF ACRES ASSIGNED TO THIS WELL

160/320 E/320

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

Immediately Upon Approval

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

1b. TYPE OF WELL

OIL

GAS

SINGLE

MULTIPLE

WELL ☐

WELL ☒ OTHER

ZONE ☐

ZONE ☒

2. NAME OF OPERATOR

303/830-80000

1700 Lincoln, Suite 1700

RICHARDSON OPERATING CO.

Denver, CO 80202

3. ADDRESS OF OPERATOR

303/452-8888

13585 Jackson Drive

PERMITCO INC. - Agent

Denver, CO 80241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At Surface

1630' FNL and 770' FEL

At proposed Prod. Zone

SE NE Sec. 12

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

3 miles east of Farmington, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

770'

16. NO. OF ACRES IN LEASE

80

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

1630'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5525' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7"	20#	200'	60 sx - Circ. to Surf.
6-1/4"	4-1/2"	10.5#	1630'	100 sx - Circ. to Surf.

This action is taken to implement and procedural requirements to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

DRILLING OPERATIONS AUTHORIZED AND SUBJECT TO COMPLIANCE WITH APPLICABLE GENERAL REGULATIONS

Richardson Operating Company proposes to drill a well to 1630' to test the Pictured Cliffs and Fruitland Coal formations. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of New Mexico requirements.

See Onshore Order No. 1 attached.

CONFIDENTIAL - TIGHT HOLE

Richardson Operating Company has been designated by proper lease interest owners to conduct operations on the above mentioned lease. Bonding will be covered under Richardson's Statewide Bond #NM-1711.

RECEIVED
OCT 19 1994

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

[Signature]

Consultant for:

TITLE Richardson Operating Co.

DATE 09/23/94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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.

C-104 For CH & HSE @ NMCCO
R-10700

APPROVED
AS AMENDED
OCT 14 1994
DISTRICT MANAGER

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <u>30-045-29198</u>	Pool Code <u>71629</u> <u>79680</u>	Pool Name <u>W Kutz</u> <u>EXT Basin</u> Pictured Cliffs/Fruitland Coal
Property Code <u>15895</u>	Property Name ROPCO FEDERAL # 12 2	Well Number <u>22-2</u>
OGRID No. 19219	Operator Name RICHARDSON OPERATING CO.	Elevation 5525'

¹⁰ Surface Location











UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	12	29N	13W		1630	NORTH	770	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 160/320	¹³ Joint or Infill	¹⁴ Consolidation Code To be Communitized	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 See attached for Royalty, ORRI and WI Owners	 Pictured Cliffs  Fruitland Coals	Tract III (PC)	Tract I (PC)
		Tract V (FC)	Tract II (FC)
 Pictured Cliffs  Fruitland Coals	 Pictured Cliffs  Fruitland Coals	Tract II (PC)	Tract I (PC)
		Tract III (FC)	Tract II (FC)
 Pictured Cliffs  Fruitland Coals	 Pictured Cliffs  Fruitland Coals	Tract I (FC)	Tract IV (FC)
		Tract I (FC)	Tract I (FC)

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature
Lisa L. Smith

Printed Name
Lisa L. Smith

Authorized Agent for:
Richardson Operating Company

Title
Date 9/23/94

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey
Signature and Seal of Professional Surveyor
6844

Certificate Number
6844

ROPCO Federal 12-2 (A) PC

Tract I	E/2NE/4-12-T29N-R13W	80/160 = 50%	NM-078931	Surface location
Tract II	SW/4NE/4-12-T29N-R13W	40/160 = 25%	NM-078931C	
Tract III	NW/4NE/4-12-T29N-R13W	40/160 = 25%	Fee	

Tract III:
Royalty: Wayne Tarpley (12.5% x 50% x 25% = 1.5625%)
Paula A. Maxwell et vir (12.5 x 50% x 25% = 1.5625%)
ORRI: N. L. DuHaine (2.5% x 25% = .625%)
WI: RPC/JPR (85% x 25% = 21.25%)

ROPCO Federal 12-2 (B) FC

Spacing Unit Working Interest:	Richardson Production Company	90%
	James P. and Sandra S. Richardson, JT	10%

Tract I	S/2SE/4, NW/4SE/4 120/320 = 37.5%	SE-070935	
Tract II	E/2NE/4-12-T29N-R13W 80/320 = 25%	NM-078931	Surface location
Tract III	SW/4NE/4-12-T29N-R13W 40/320 = 12.5%	NM-078931	C
Tract IV	NE/4SE/4-12-T29N-R13W 40/320 = 12.5%	Fee	
Tract V	NW/4NE/4-12-T29N-R13W 40/320 = 12.5%	Fee	

Tract I:
Royalty: USA (12.5% x 37.5% = 4.6875%)
ORRI: Howard C. Smith et ux (5% x 37.5% = 1.875%)
Estate of John J. Redfern, Jr. (1/8 x 1.25% x 37.5% = .05859375%)
Rosalind Redfern (1/8 x 1.25% x 37.5% = .05859375%)
Kerr-McGee Corporation (1/12 x 1.25% x 37.5% = .0390625%)
J.H. Herd (2/12 x 1.25% x 37.5% = .078125%)
John J. Chrisdtmann (3/12 x 1.25% x 37.5% = .1171875%)
Jack Markham (3/12 x 1.25% x 37.5% = .1171875%)
James R. Stephens (1/2 x 1.25% x 37.5% = .234375%)
Earl A. Rogers (1/2 x 1.25% x 37.5% = .234375%)
WI: RPC/JPR (80% x 37.5% = 30%)

Tract II:
 Royalty: USA (12.5% x 25% = 3.125%)
 ORRI: Glenn H. Callow (2.5% x 25% = .625%)
 Arnold E. Carle (2.5% x 25% = .625%)
 James R. Stephens (1.25% x 25% = .3125%)
 WI: RPC/JPR (81.25% x 25% = 20.3125%)

Tract III:
Royalty: USA ($12.5\% \times 12.5\% = 1.5625\%$)
ORRI: Arnold E. Carle ($5\% \times 12.5\% = .625\%$)
James R. Stephens ($1.25\% \times 12.5\% = .15625\%$)
WI: RPC/JPR ($81.25\% \times .125\% = 10.15625\%$)

Tract IV:
Royalty: Thomas A. Dugan ($12.5\% \times 12.5\% = 1.5625\%$)
ORRI: Amoco Production Company ($3.5\% \times 12.5\% = .4375\%$)
WI: RPC/JPR ($84\% \times 12.5\% = 10.5\%$)

Tract V:
Royalty: Wayne Tarpley (12.5% x 50% x 12.5% = .78125%)
Paula A. Maxwell et vir (12.5 x 50% x 12.5% = .78125%)
ORRI: N. L. DuHaine (2.5% x 12.5% = .3125%)
WI: RPC/JPR (85% x 12.5% = 10.625%)

DRILLING PROGRAM

Page 6

Production

Type and Amount

Lead: 100 sks (206.6 cubic feet) Class "B" containing 2% Sodium Metasilicate. Tail: 100 sks (118 cubic feet) Class "B" containing 2% CaCl₂ and 1/4#/sk cellophane flakes.

- o. Richardson Operating Company will meet all requirements set forth under NTL-FRA 90-1. The following procedure will insure adequate protection of all useable waters encountered during the drilling of this well. The base of the Ojo Alamo formation in the subject well is estimated at 163' GLE.
 - 1. Surface casing will be set at 200' KB. A turbulating centralizer will be run on the bottom joint. Two additional centralizers will be run on alternating joints through the Ojo Alamo formation.
 - 2. Class "B" cement containing 2% CaCl and 1/4#/sk cello flakes will be used as a preflush, with excess cement being circulated to surface. Approximately 135% excess cement volume will be pumped.
 - 3. A chronological log keeping record of the pump rate, pump pressure, slurry density, and slurry volume, will be submitted to the BLM in Sundry form pending completion of the job.
- p. The BLM in Farmington, New Mexico should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.
- q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- r. The following reports shall be filed with the District Manager within 30 days after the work is completed.
 - 1. Progress reports, Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:

MAP A

Richardson Operating Company

ROPCO Fed. 12, No. 2 (A & B)

1630' FNL and 770' FEL

SE NE Sec. 12, T29N - R13W

San Juan County, New Mexico

○ Proposed Location

— Proposed Access Route

* Producing Gas Wells

△ Water Wells

