

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

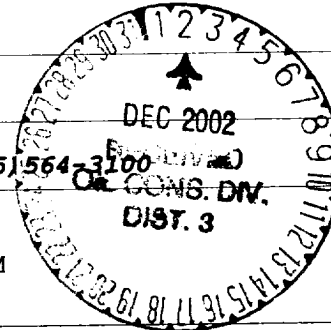
Richardson Operating Company

3. Address and Telephone No.

3100 LaPlata Hwy. Farmington, NM 87401 (505) 564-3100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

835' FNL & 860' FEL, Sec 9, T29N, R14W, NMPM



5. Lease Designation and Serial No.

NMSF 079968

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

ROPCO 9 No.1

9. API Well No.

30-045-30383

10. Field and Pool, or Exploratory Area

Basin FC/Twin Mounds FS

11. County or Parish, State

San Juan, NM

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Copy:OCD DHC Application  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Richardson Operating Company proposes to downhole commingle the Basin Fruitland Coal and Twin Mounds Fruitland Sand - PC in this well. Attached is a copy of their application to downhole commingle these "pre-approved pools", as per NMOC Rule 303C(3)(b)(vii).

CONDITIONS OF APPROVAL  
Adhere to previously issued stipulations.

14. I hereby certify the foregoing is true and correct

Signed

*Jim Lovato*

Title Agent

Date

10/30/02

(This space for Federal or State office use)

Approved by

*Jim Lovato*

Title

Date

NOV 26

Conditions of approval, if any:

NMOC

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
30-045-30383

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.  
Federal NMSF 079968

7. Lease Name or Unit Agreement Name  
ROPCO 9

8. Well No.  
1

9. Pool name or Wildcat  
Basin FC/Twin Mounds FS - PC

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"  
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

2. Name of Operator

Richardson Operating Company

3. Address of Operator

3100 LaPlata Highway, Farmington, NM 87401

4. Well Location

Unit Letter A : 835 Feet From The North Line and 860 Feet From The East Line

Section 9

Township 29N

Range 14W

NMPM

San Juan

County

10. Elevation (Show whether DF,RKB,RT,GR,etc.)

5240' UG

11.

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Downhole Commingling Application ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work)  
SEE RULE 1103.

Richardson Operating Company proposes to downhole commingle the Basin Fruitland Coal and the Twin Mounds Fruitland Sand - PC in this well. Please see the attached for details on downhole commingling these "pre-approved" pools.

Your consideration and approval of this application is appreciated.

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

SIGNATURE

*Charles Neeley*

TITLE Agent

DATE 10/30/02

TYPE OR PRINT NAME Charles Neeley

TELEPHONE NO. 505-486-0211

(This space for State Use)

APPROVED BY

TITLE

DATE

Richardson Operating Company  
ROPCO 9-1  
API No. 30-045-30383  
835' FNL & 860' FEL  
Sec 9, T29N, R14W, NMPM  
San Juan County, New Mexico

Down-hole Commingling Application (Details)

The Navajo 9-1 is a recently drilled Twin Mounds Fruitland Sand – PC / Basin Fruitland Coal well.

Pursuant to Order R-11363, Richardson Operating Company seeks approval to down-hole commingle the “Pre-approved pools and areas”: Basin Fruitland Coal (71629) and the Twin Mounds Fruitland Sand – PC (86620) pools in this well.

The Twin Mounds Fruitland Sand - PC formation is perforated at 888' – 898' in this well. Basin Fruitland Coal formation perforate: 865' – 887'.

Due to the intermingled nature of the pools and since neither pool has enough data to prepare a reliable production forecast or predict the ultimate reserves; therefore, based on production from wells in this Township and wells in Sections 32 & 33 or T30N, R14W, Richardson will allocate the production as follows:

FS – PC Production = 0.51 x Total Production.

Fruitland Coal Production = 0.49 x Total Production.

\* The data used and the corresponding calculations are attached for reference.

The down-hole commingling will not reduce the value of the total remaining production of this well.

Ownership between the two pools is not identical.

Richardson Operating Company has sent notice to all interest owners in the spacing units by certified mail (return receipt) of their intent to apply for down-hole commingling. No objection was received within 20 days of sending the notice.

A copy of this application has been submitted via Sundry Notice Form 3160-5 to the Bureau of Land Management.

Your consideration and approval of this application is appreciated.

## Richardson Operating Company

### Downhole Commingling Allocation Methodology

This document describes the methodology used in determining the allocation between the proposed pools to be commingled in the ROPCO 9-1 well. Production data was obtained from the On-Gard system when possible. The POPCO 4 #3 data was obtained using current production for Richardson Operating Company files. For consistency the average production from the wells was calculated by using a minimum of 6 months of initial production in the well. This average should represent the initial potential of the well. Data was gathered for Section 4, T29N, R14W and the eight adjacent sections.

The data from four sections did not provide a reliable correlation to determine the allocation: Section 34, T29N R14W, Section 5, Section 8, and Section 9 T29N R14W.

#### Section 32 T30N R14W:

Fruitland Coal:	Dugan Bi Knobs Com 90	23 Mcf/day
	Dugan Bi Knobs 91	75 Mcf/day
Pictured Cliffs:	Dugan Bi Knobs 1	52 Mcf/day
	Dugan Bi Knobs 2R	104 Mcf/day
	Richardson WF State 32-1	42 Mcf/day

FC avg. = 49

PC avg. = 66

**Section 32 allocation = 43% FC, 57% PC**

#### Section 33 T30N R14W:

Fruitland Coal:	Richardson WF Federal 33-1	203 Mcf/day
Pictured Cliffs:	Dugan Cline #1R	75 Mcf/day
	Richardson WF Federal 33 #3	555 Mcf/day

FC avg. = 203

PC avg. = 315

**Section 33 allocation = 39% FC, 61% PC**

#### Section 4 T29N R14W:

Commingled FC/PC:	Richardson Ropco 4 #3	425 Mcf/day
Pictured Cliffs:	Richardson Ropco 4 #2	231 Mcf/day
	Richardson Ropco 4 #4	129 Mcf/day

Comm. avg. = 425

PC avg. = 180

**Section 4 allocation = 57% FC, 43% PC**

Richardson Operating Company  
Downhole Commingling Allocation Methodology (Continued)  
Page 2

**Section 3 T29N R14W:**

Fruitland Coal:	Dugan Federal 1 #99	187Mcf/day
	Richardson WF Federal 3 #2	160 Mcf/day
Pictured Cliffs:	Dugan Federal 1 #7	266 Mcf/day
	Richardson WF Federal 3 #1	128 Mcf/day

FC avg. = 174

PC avg. = 160

**Section 3 allocation = 47% FC, 53% PC**

**Section 10 T29N R14W:**

Fruitland Coal:	Dugan Federal 1 #98	165 Mcf/day
Pictured Cliffs:	Richardson Ropco 10 #2	115 Mcf/day

FC avg. = 165

PC avg. = 115

**Section 10 allocation = 59% FC, 41% PC**

**Summary:**

**Section 32 allocation = 43% FC, 57% PC**

**Section 33 allocation = 39% FC, 61% PC**

**Section 4 allocation = 57% FC, 43% PC**

**Section 3 allocation = 47% FC, 53% PC**

**Section 10 allocation = 59% FC, 41% PC**

**AVERAGE = 49% FC, 51% PC**

**The proposed allocation for the ROPCO 9 No.1 will be 49% Fruitland Coal and 51% Pictured Cliffs.**

## **Conditions of Approval:**

### **Notice of Intent: Down hole commingle**

**Richardson Operating Company  
Ropco 9 # 1  
835 FNL & 860 FEL  
Sec 9, T29N, R14W**

- 1) Due to the Basin Fruitland Coal and Twin Mounds Pictured Cliffs intervals being Close in proximately to each other, and lack of reliable production history to make accurate determinations. You will be given authorization to produce the well with your proposed Allocation factors until December 1, 2003. At the end of period, you will be required to resubmit your allocations factors.