

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 re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

5. Lease Serial No.

NM-97843

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and/or No.

8. Well Name and No.

WF Federal 29-4

9. API Well No.

30-045-30348

10. Field and Pool, or Exploratory Area

Twin Mounds FS PC / BFC

11. County or Parish, State

San Juan County, New Mexico

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Richardson Operating Company

3a. Address

3100 La Plata Highway, Farmington, NM 87401

3b. Phone No. (include area code)

505-564-3100

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

775' FNL & 735' FWL, Sec 29, T30N, R14W

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

TYPE OF SUBMISSION

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

TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>Approval & Copy</u> |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | <u>NMOCD DHC</u> |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | <u>Application</u> |

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give 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 provide 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 in a 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 only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Richardson Operating Company proposes to down-hole commingle the Basin Fruitland Coal with the Twin Mounds Fruitland Sand- PC in this well. As per NMOCD Rule 303C (3) (b) (vii), attached is a copy of the application to downhole commingle these "pre-approved pools".

Your consideration, concurrence and approval of this application is appreciated.



DHC 1560 A2

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Charles Neeley

Title Agent/PE

Signature

Date

7/22/04

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature)

Name
(Printed/Typed)

Title

Petr. Eng

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.

Office

Date

8/25/04

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.

(Continued on next page)

NMOCD

Conditions of approval, if any:

Richardson Operating Company
WF Federal 20-3
Downhole Commingling Application

The WF Federal 29-4 is a producing Twin Mounds Pictured Cliffs well completed in March, 2001. As part of Richardson's development program in their WF (West Farmington) field, this well has been perforated and stimulated in the Basin Fruitland Coal.

Pursuant to NMOCD Order R-11363, Richardson Operating Company seeks approval to down-hole commingle the "Pre-approved pools and areas": Twin Mounds Fruitland Sand PC (86620) and Basin Fruitland Coal (79680) pools in this well.

Based on Richardson Operating wells in this township: both zones have similar bottom hole pressures of approximately 200 psi., both zones produce gas with formation water and no liquid hydrocarbons, and fluids from the two zones are compatible.

WF Federal 29-4

PC Gas Production History

Although initial gas production rates were encouraging averaging 69.5 mcfpd the first 56 days produced, production made a significant decline in December 2002. Production has averaged 5.3 mcfpd, since that time (389 days) with no measurable decline. Richardson Operating proposes to allocate production based on the recent 5.3 mcfpd production history from the Pictured Cliffs with a constant 5.0 mcfpd or 152 mcfpm (30.4 days) future production forecast. Production allocation attributable to the Fruitland Coal Formation will be based on the difference in the production forecast for the Pictured Cliffs and the commingled gas stream of both intervals.

The monthly production from the Pictured Cliffs is proposed to be 5.0 mcf per day produced.

Fruitland Coal Production = Total Production for month – Pictured Cliffs production for month

The production history and production curve are attached for your review.

The Twin Mounds Fruitland Sand PC is perforated: 1062' – 1070'. The Basin Fruitland Coal is perforated: 968' – 974', 1025' and 1051' – 1058'.

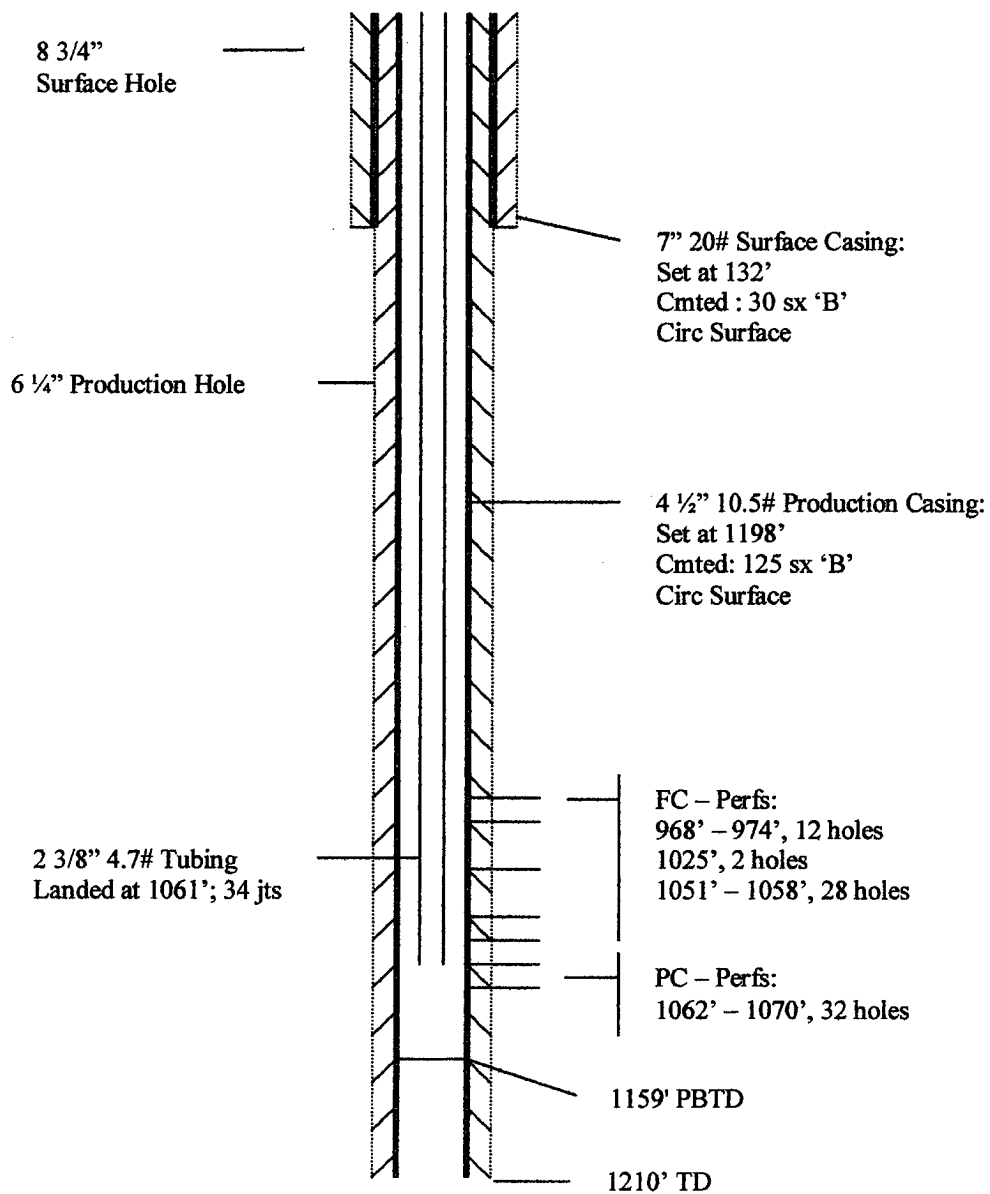
The down-hole commingling will not reduce the value of the total remaining production of this well.

Ownership between the two pools is identical.

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
Well: WF Federal 29-4
API No. 30-045-30348
Location: 775' FNL & 735' FWL
Sec 29, T30N, R14W, NMPM
San Juan, County, New Mexico



Well: WF FEDERAL 29-4
 Operator: RICHARDSON OPERATING CO
 Township: 30.0N Range: 14W
 Section: 29 Unit: D
 Land Type: F County: San Juan
 Total Acres: 160
 Number of 1

No.: 4
 API: 3E+09

Accumulated:

Oil: 0 (BBLs) Gas: 17177 (MCF)
 Water: 19940 (BBLs) Days Prod: 697 (Days)

Year: 2001

Pool Name: TWIN MOUNDS FRUITLAND SAND PC (GAS)

Month	Oil(BBLs)	Gas(MCF)	Water(BBL)	Days Prod	Accum. Oil	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	1721	1500	27	0	1721
April	0	2172	1500	29	0	3893
May	0	1920	1500	29	0	5813
June	0	1322	1500	29	0	7135
July	0	2192	1550	31	0	9327
August	0	1935	1550	31	0	11262
September	0	0	0	0	0	11262
October	0	0	0	0	0	11262
November	0	0	0	0	0	11262
December	0	0	0	0	0	11262
Total	0	11262	9100	176		

Year: 2002

Pool Name: TWIN MOUNDS FRUITLAND SAND PC (GAS)

Month	Oil(BBLs)	Gas(MCF)	Water(BBL)	Days Prod	Accum. Oil	Accum. Gas(MCF)
January	0	0	0	0	0	11262
February	0	0	0	0	0	11262
March	0	0	0	0	0	11262
April	0	0	0	0	0	11262
May	0	0	0	0	0	11262
June	0	12	0	5	0	11274
July	0	55	140	20	0	11329
August	0	997	1020	28	0	12326
September	0	1157	1420	26	0	13483
October	0	73	720	24	0	13556
November	0	1570	550	29	0	15126
December	0	132	600	31	0	15258
Total	0	3996	4450	163		

Year: 2003

Pool Name: TWIN MOUNDS FRUITLAND SAND PC (GAS)

Month	Oil(BBLs)	Gas(MCF)	Water(BBL)	Days Prod	Accum. Oil	Accum. Gas(MCF)
January	0	147	480	31	0	15405
February	0	270	660	28	0	15675

March	0	153	720	31	0	15828
April	0	145	880	30	0	15973
May	0	145	710	31	0	16118
June	0	116	620	30	0	16234
July	0	141	620	31	0	16375
August	0	177	460	31	0	16552
September	0	174	420	30	0	16726
October	0	182	370	31	0	16908
November	0	160	450	30	0	17068
December	0	109	450	24	0	17177
Total	0	1919	6840	358		

Year: 2004

Pool Name: TWIN MOUNDS FRUITLAND SAND PC (GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Prod	Accum.	Oil Accum.	Gas(MCF)
January	0	0	0	0	0	0	17177
February	0	0	0	0	0	0	17177
March	0	0	0	0	0	0	17177
April	0	0	0	0	0	0	17177
May	0	0	0	0	0	0	17177
June	0	0	0	0	0	0	17177
July	0	0	0	0	0	0	17177
August	0	0	0	0	0	0	17177
September	0	0	0	0	0	0	17177
October	0	0	0	0	0	0	17177
November	0	0	0	0	0	0	17177
December	0	0	0	0	0	0	17177
Total	0	0	0	0			

Oil & Gas Production Linear Curve of Well:

WF FEDERAL 29-4 PC

Total Production
Oil: 0
Gas: 17177
Water: 19940
Days Produced: 697

Oil Gas Water

