

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

5. Lease Serial No.

I-149-IND-7971

6. If Indian, Allottee or Tribe Name

NAVAJO ALLOTTED

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Burlington Resources Oil & Gas Company LP

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

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

8. Well Name and No.

MUDGE FEDERAL #2

9. API Well No.

30-045-33290

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

UL A (NENE), 1145' FNL & 690' FEL, SEC. 31, T26N, R11W

10. Field and Pool or Exploratory Area

BASIN FRUITLAND COAL

11. Country or Parish, State

San Juan

New Mexico

12. CHECK THE 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

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☒ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

13. 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 recompleting 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleting in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources Oil & Gas, LP requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. A Closed Loop System will be utilized for this P&A.

Notify NMOCD 24 hrs  
prior to beginning  
operations

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

OIL CONS. DIV DIST. 3

AUG 12 2015

BLM'S APPROVAL OR ACCEPTANCE OF THIS  
ACTION DOES NOT RELIEVE THE LESSEE AND  
OPERATOR FROM OBTAINING ANY OTHER  
AUTHORIZATION REQUIRED FOR OPERATIONS  
ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Patsy Clugston

Staff Regulatory Technician

Title

Signature

Date

7/23/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy Salysess

Title PE

Date

7/31/2015

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 FFO

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.

(Instruction on page 2)

NMOCD PV

**ConocoPhillips**  
**MUDGE FEDERAL 2**  
**Expense - P&A**

Lat 36° 26' 55.212" N

Long 108° 2' 17.268" W

**PROCEDURE**

**This project requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.**

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in Wellview. **If there is pressure on the BH, contact the Wells Engineer.**
3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. TOOH w/ rod string and LD (per pertinent data sheet).  
Size: 3/4" Set Depth: 1300'
5. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1,000 psi over SICP high to a maximum of 2,000 psi held and charted for 10 minutes as per COP Well Control Manual. PU and remove tubing hanger
6. TOOH with tubing (per pertinent data sheet).  
Tubing size: 2-3/8" 4.7# J-55 EUE Set Depth: 1320' KB: 11'
7. PU 3-7/8" bit and watermelon mill and round trip as deep as possible above top perforation at 1238'.
8. PU 4-1/2" CR on tubing, and set a 1188'. Pressure test tubing to 1,000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. *If casing does not test, then spot or tag subsequent plugs as appropriate.* POOH w/ tubing.
9. RU wireline and run CBL with 500 psi on casing from CR to surface to identify TOC. *Adjust plugs as necessary for new TOC. Email log copy to Troy Salyers (BLM) at [tsalyers@blm.gov](mailto:tsalyers@blm.gov) and Brandon Powell (NMOCD) at [brandon.powell@state.nm.us](mailto:brandon.powell@state.nm.us) upon completion of logging operations.*

**All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class B mixed at 15.6 ppg with a 1.18 cf/sk yield.**

**10. Plug 1 - Fruitland Formation Top, 885' - 1188', 27 Sacks Class B Cement**

TIH with 2-3/8" tubing. Mix 27 sx Class B cement and spot a balanced plug inside the casing to cover the Fruitland formation top. PUH.

**11. Plug 2 - Kirtland, Ojo Alamo Formation Tops and Surface Plug, 0' - 465', 40 Sacks Class B Cement**

Connect the pump line to the bradenhead valve and attempt to pressure test the BH annulus to 300 psi. Note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix 40 sx Class B cement and spot balanced plug inside casing from 415' to surface, circulating good cement out casing valve. TOOH and LD tubing. SI well and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface, filling the casing and the BH annulus to surface. Shut well in and WOC.

12. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location.





Well Name: MUDGE FEDERAL #2

### Current Schematic

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004533290	031-026N-011W-A	BASIN FRUITLAND COAL		NEW MEXICO	VERTICAL
Ground Elevation (ft)	Original KB RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	
6,212.00	6,223.00	11.00			

#### VERTICAL - Original Hole, 7/1/2015 7:40:01 AM

Vertical schematic (actual)	MD (ftKB)	Formation Tops
	4.9	
	11.2	
	12.1	
	26.9	
	37.1	
	129.9	
	130.2	
	134.2	
	291.0	OJO ALAMO
	415.0	KIRTLAND
	915.0	FRUITLAND
	1,064.3	
	1,078.7	
	1,111.9	
	1,128.0	
	1,237.9	
	1,259.2	
	1,277.5	
	1,278.5	
	1,281.1	PICTURED CLIFFS
	1,281.4	
	1,287.4	
	1,292.6	
	1,299.5	
	1,312.9	
	1,319.6	
	1,320.2	
	1,364.8	
	1,365.2	
	1,365.5	
	1,407.2	
	1,407.8	
	1,412.0	
	1,402.321.9	

1: Surface; 7 in; 6.456 in; 11.0 ftKB; RUN 1 TX PATTERN SHOE, 3 JTS 7" 20# J-55 CSG, 1 LANDING JT; 130.4 ftKB

2: Production; 4 1/2 in; 4.052 in; 11.0 ftKB; RUN 1 FLOAT SHOE @ 1407', 1 4 1/2" 10.5# J-55 SHOE JT, 1 FLOAT COLLAR @ 1365', 7 JTS 4 1/2" 10.5# J-55 CSG, 1 MARKER JT @ 1064', 26 JTS 4 1/2" 10.5# J-55 CSG, 1 MANDREL LANDED @ 09:00 HRS; 1,407.9 ftKB

Polished Rod; 22.00 ft

Sucker Rod Pony; 10.00 ft

Surface Casing Cement; 11.0-130.4; 12/19/2007; PUMP 10 BBLs FW, 50 SKS (11 BBLs) TYPE III CMT, DISP WITH 4 1/2 BBLs FW, CIRC 5 BBLs CMT TO SURFACE

Sucker Rod; 1,075.00 ft

Sucker Rod Guided Pony; 16.00 ft

Sinker Bar; 150.00 ft

CSG: 1.238.0-1.260.0; 2/28/2008

Shear Coupling; 0.50 ft

Sucker Rod Guided Pony; 8.00 ft

Rod Insert Pump; 12.00 ft

Strainer Nipple; 1.00 ft

Production Casing Cement; 11.0-1,407.9; 12/21/2007; PUMP 10 BBLs FW, 10 BBLs MUD WASH, 10 BBLs FW, 19 SKS (10 BBLs) SCVGR CMT @ 11.1#, 65 SKS (25 BBLs) LEAD CMT @ 12.1#, 90 SKS (23 BBLs) TAIL CMT @ 14.6#, DISP WITH 10 BBLs SUGAR WATER 11 BBLs FRESH WATER, CIRC 30 BBLs TO PIT

Cement Plug; 1,365.0-1,407.9; 12/21/2007

Cement; 1,407.9-1,418.0; 12/21/2007

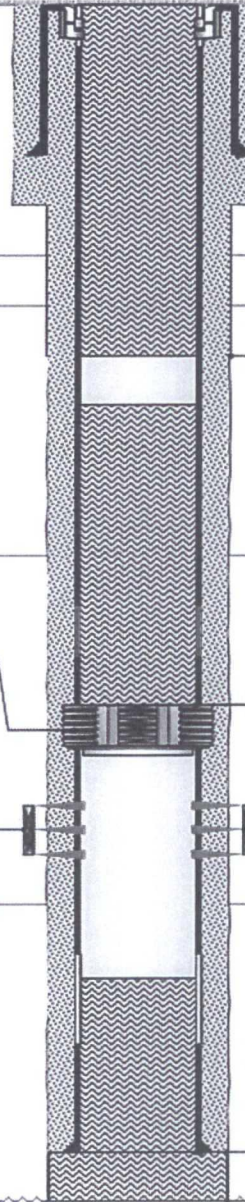


Well Name: MUDGE FEDERAL #2

### Proposed Schematic

API / UWI 3004533290	Surface Legal Location 031-026N-011W-A	Field Name BASIN FRUITLAND COAL	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,212.00	Original K/S RT Elevation (ft) 6,223.00	K/S Ground Distance (ft) 11.00	K/S Casing Flange Distance (ft)	K/S Tubing Hanger Distance (ft)	

#### VERTICAL - Original Hole, 1/1/2020

Vertical schematic (actual)	MD (ftKB)	Formation Tops
	11.2	
	12.1	
	129.9	
	130.2	
	134.8	
	291.0	OJO ALAMO
	415.0	KIRTLAND
	454.9	
	864.8	
	915.0	
<p><b>Cement Retainer: 1,188.0-1,191.0</b> Hydraulic Fracture: 2/29/2008; FRAC FRUITLAND COAL. FORMATION BROKE DOWN 1282 PSI @ 3 BPM. BULLHEAD 12 BBLs 9% FORMIC ACID IN FRONT OF FRAC. PUMPED 2000 GAL 25# X-LINK PRE-PAD FOLLOWED BY 19,546 GAL 25# LINEAR 75% N2 FOAM W/ 66,000# 20/40 BRADY SAND AND 611,277 SCF N2. MAX PSI 4022. MIN PSI 941, AVG PSI 1926. MAX RATE 50 BPM, MIN RATE 17 BPM, AVG RATE 50 BPM. ISIP 3257. WELL PRESSURED OUT RIGHT AT FLUSH. PUMPED A FLUID FLUSH.</p> <p><b>Plug #2: 11.0-465.0; 1/1/2020:</b> Mix 40 sx Class B cement spot balanced plug inside casing from 415' to surface cover the Kirtland and Ojo Alamo.</p> <p><b>Plug #1: 865.0-1,188.0; 1/1/2020:</b> Mix 27 sx Class B cement spot a balanced plug inside casing to cover Fruitland formation top.</p> <p><b>CSG: 1,238.0-1,260.0; 2/28/2008</b> 2; Production; 4 1/2 in; 4,052 in; 11.0 ftKB; RUN 1 FLOAT SHOE @ 1407'. 1 4 1/2" 10.5# J-55 SHOE JT, 1 FLOAT COLLAR @ 1365', 7 JTS 4 1/2" 10.5# J-55 CSG, 1 MARKER JT @ 1064', 26 JTS 4 1/2" 10.5# J-55 CSG, 1 MANDREL LANDED @ 09:00 HRS; 1,407.9 ftKB</p> <p><b>Cement Plug: 1,365.0-1,407.9; 12/21/2007</b> Production Casing Cement; 11.0- 1,407.9; 12/21/2007; PUMP 10 BBLs FW, 10 BBLs MUD WASH. 10 BBLs FW, 19 SKS (10 BBLs) SCVGR CMT @ 11.1#, 65 SKS (25 BBLs) LEAD CMT @ 12.1#, 90 SKS (23 BBLs) TAIL CMT @ 14.6#, DISP WITH 10 BBLs SUGAR WATER 11 BBLs FRESH WATER. CIRC 30 BBLs TO PIT</p> <p><b>Cement: 1,407.9-1,418.0; 12/21/2007</b></p>	935.0	FRUITLAND
	1,064.3	
	1,079.7	
	1,188.0	
	1,190.9	
	1,237.9	
	1,259.8	
	1,286.1	PICTURED CLIFFS
	1,364.8	
	1,365.2	
	1,365.5	
	1,407.2	
	1,407.8	
	1,418.0	
	1,202.381.9	



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: Mudge Federal #2

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: [tsalyers@blm.gov](mailto:tsalyers@blm.gov) [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.