

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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.*

**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**

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

**Surface UNIT A (NENE), 945' FNL & 825' FEL. Sec. 27, T31N, R08W**

5. Lease Serial No.

**SF-079037**

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

**Hale 352**

9. API Well No.

**30-045-27650**

10. Field and Pool or Exploratory Area

**Basin FC**

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**

**TYPE OF ACTION**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ 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 recompleat 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 recompleat 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 requests permission to P&A the subject well per the attached procedure, current & proposed wellbore schematics. The Pre-Disturbance oniste was held on 08/13/2015 with Bob Switzer/BLM. The Re-Vegetation Plan is attached. A closed loop system will be utilized for this P&A.

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

**OIL CONS. DIV DIST. 3**

**AUG 28 2015**

Notify NMOCD 24 hrs  
prior to beginning  
operations

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**



**H2S POTENTIAL EXIST**

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

**Arleen White**

**Staff Regulatory Technician**

Title

Signature

*Arleen White*

Date

*8/19/15*

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*Troy Salyers*

Title **PE**

Date **8/26/2015**

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**

*5 xclpc*

**ConocoPhillips**  
**HALE 352**  
**Expense - P&A**

Lat 36° 52' 23.844" N

Long 107° 39' 21.492" 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:** 3136'

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:** 2-7/8" 6.5# EUE (Mix J-55 and L-80)

**Set Depth:** 3168'

**KB:** 12'

7. PU 6-1/4" bit and watermelon mill and round trip as deep as possible above liner top at 2868'.

8. PU 7" CR on tubing, and set a 2818'. 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.**

*See CoA*

**10. Plug 1 - Fruitland Formation Top, 2718' - 2818', 29 Sacks Class B Cement**

TIH. Mix 29 sx Class B cement and spot a balanced plug inside the casing to cover the Fruitland formation top. PUH.

*See CoA*

**11. Plug 2 - Kirtland and Ojo Alamo Formation Tops, 2007' - 2260', 57 Sacks Class B Cement**

Mix 57 sx Class B cement and spot a balanced plug inside the casing to cover the Kirtland and Ojo Alamo formation tops. PUH.

**12. Plug 3 - Nacimiento Formation Top and Surface Plug, 0' - 640', 130 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 130 sx Class B cement and spot balanced plug inside casing from 640' 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.

13. 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.



**Current Schematic**

API / UWI 3004527650	Surface Legal Location 027-031N-008W	Field Name BSN (FTLD COAL)	#3046	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,278.00	Original KB/RT Elevation (ft) 6,290.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

Original Hole, 7/30/2015 7:33:46 AM

Vertical schematic (actual)		MD (ftKB)	Formation Tops
<p>1; Surface; 9 5/8 in; 8.921 in; 12.0 ftKB; 518.0 ftKB</p>	Polished Rod; 22.00 ft	-9.5	
		12.1	
		12.5	
	Pony Rod; 2.00 ft	13.1	
	Pony Rod; 8.00 ft	14.4	
	Pony Rod; 6.00 ft	22.6	
	Pony Rod; 8.00 ft	28.5	
		36.4	
		516.4	
		518.0	
<p>2; Intermediate1; 7 in; 6.366 in; 12.0 ftKB; 2,934.0 ftKB</p>	Surface Casing Cement; 12.0-527.0; 4/19/1990	526.9	
		589.9	NACIMIENTO
	Sucker Rod; 2,925.00 ft	791.0	
		2,057.1	OJO ALAMO
		2,210.0	KIRTLAND
		2,737.2	
		2,836.9	FRUITLAND
		2,868.8	
		2,874.3	
		2,933.1	
<p>4; Production2; 5 1/2 in; 0.000 in; 2,868.6 ftKB; 3,176.0 ftKB</p>	Intermediate Casing Cement; 12.0-2,935.0; 4/21/1990	2,935.0	
		2,940.0	
	Perforations: 2959'-3002'	2,959.6	
	Pony Rod; 16.00 ft	2,961.6	
		2,977.7	
		3,002.6	
	Perforations: 3046'-3173'	3,046.3	
	Sinker Bar; 150.00 ft	3,127.6	
	Shear Coupling; 0.44 ft	3,128.0	
	Guided Pony Rod; 8.00 ft	3,135.5	
		3,136.2	
	Rod Insert Pump; 13.00 ft	3,136.8	
	Gas Anchor/Dip Tube; 8.00 ft	3,149.0	
		3,157.2	
		3,168.3	
		3,173.6	
		3,175.9	PICTURED CLIFFS

**Proposed Schematic**

API / UWI 3004527650	Surface Legal Location 027-031N-008W	Field Name BSN (FTLD COAL) #3046	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 6,278.00	Original KBRT Elevation (ft) 6,290.00	KB-Ground Distance (ft) 12.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

**Original Hole, 1/1/2020**

Vertical schematic (actual)	MD (ftKB)	Formation Tops
	12.1	
	516.4	
	518.0	
1; Surface; 9 5/8 in; 8.921 in; 12.0 ftKB; 518.0 ftKB Surface Casing Cement; 12.0-527.0; 4/19/1990; Cemented w/ 400 sxs Class "B" cmt, 3% CaCl2 circulated 7 bbl to surface	526.9	
	589.9	NACIMIENTO
Plug #3; 12.0-640.0; 1/1/2020; Mix 130 sx Class B cement spot balanced plug inside casing from 640' to surface.	640.1	
	2,006.9	
	2,057.1	OJO-ALAMO
	2,210.0	KIRTLAND
Plug #2; 2,007.0-2,260.0; 1/1/2020; Mix 57 sx Class B cement spot balanced plug inside casing to cover Kirtland & Ojo Alamo formation tops.	2,259.8	
	2,717.8	
Plug #1; 2,718.0-2,818.0; 1/1/2020; Mix 29 sx Class B cement spot balanced plug inside casing to cover Fruitland formation top.	2,817.9	
Cement Retainer: 2,818.0-2,820.0	2,819.9	
	2,836.9	FRUITLAND
	2,868.8	
TOL @ 2868.	2,874.3	
	2,933.1	
2; Intermediate1; 7 in; 6.366 in; 12.0 ftKB; 2,934.0 ftKB Intermediate Casing Cement; 12.0-2,935.0; 4/21/1990; Cemented w/ 500 sxs Class "B" cmt 65-35 Poz, tail w/ 100 sxs Class "B" 2% CaCl2 circulated 18 bbl to surface	2,934.1	
	2,935.0	
	2,940.0	
Perforations: 2959'-3002'	2,959.6	
	3,002.6	
Perforations: 3046'-3173'	3,046.3	
	3,173.6	
4; Production2; 5 1/2 in; 0.000 in; 2,868.6 ftKB; 3,176.0 ftKB	3,175.9	PICTURED CLIFFS



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: Hale 352

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.
3. The following modifications to your plugging program are to be made:
  - a) Set plug #1 (2862-2792) ft. to cover the Fruitland top. BLM picks top of Fruitland at 2842 ft.
  - b) Bring the top of plug #2 to 1942 ft. to cover the Ojo Alamo top. BLM picks top of Ojo Alamo at 1992 ft. Adjust cement volume accordingly.

Low to high concentrations of H<sub>2</sub>S (5 ppm -186 ppm GSV) have been reported in wells within a 1 mile radius of this location.

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.