

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 18 2016

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

5. Lease Serial No.

SF-047017-A

6. If Indian, Allottee or Tribe Name

**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.*

Farmington Field Office  
Bureau of Land Management

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.

Angel Peak 29

9. API Well No.

30-045-25698

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

Surface Unit I (NESE), 1793' FSL & 593' FEL, Sec. 10, T28N, R11W

10. Field and Pool or Exploratory Area

Otero Chacra / Armenta Gallup

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 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.)

The subject well is part of the proposed Mangum SRC 1C P&A program agreed to with the NMOCD. The attached revised procedure replaces the procedure filed with the P&A NOI submitted on 3/30/2016.

Notify NMOCD 24 hrs  
prior to beginning  
operations

OIL CONS. DIV DIST. 3

JUN 01 2016

**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**

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

Dollie L. Busse

Title Regulatory Technician

Signature

*Dollie L. Busse*

Date

5/16/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

*Jack Lawrence*

Title

PE

Date

5/31/16

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

FTO

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

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**ConocoPhillips**  
**ANGEL PEAK 29**  
**Expense - P&A**

Lat 36° 40' 27.48" N

Long 107° 59' 1.14" 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.

Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and properly plumbed to the surface. Record the casing, intermediate and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present (per Exhibit "A-3").

1. Hold pre-job safety meeting. Comply with all NMOCD/COGCC, BLM, and COP safety and environmental regulations. Test rig anchors prior to moving in rig. **Before RU, run slickline to remove downhole equipment. If an obstruction is found, set a locking-3-slip-stop in the tubing.**

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. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1000 psi over SICP high to a maximum of 2000 psi held and charted for 10 minutes per COP Well Control Manual. PU and remove tubing hanger.

5. TOOH with tubing (per pertinent data sheet).

**Tubing size: 2-3/8" 4.7# J-55 EUE**

**Set Depth: 6015'**

**KB: 13'**

6. PU 6-1/8" bit and watermelon mill and round trip as deep as possible above top of the 4-1/2" Liner at 4972'.

7. PU 7" CR on tubing, and set at 4965'. Pressure test tubing to 1000 psi. Sting out of CR. Tag subsequent plugs as appropriate. POOH with tubing.

8. RU wireline and run CBL from CR at 4965' to surface to identify TOC. Adjust plugs as necessary for new TOC. *Email log copy to Wells Engineer, 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.

**9. Plug 1 - Gallup perforations, 4-1/2" Liner top and Gallup Formation Top, 4865' - 4965', 29 Sacks Class B Cement**  
Mix 29 sx Class B cement and spot a balanced plug inside the casing to cover the Liner top, Gallup Perforations and Formation top. PUH.

**10. Plug 2 - Mancos Formation Top, 4160' - 4260', 55 Sacks Class B Cement**  
RIH and perforate 3 squeeze holes at 4,260'. Establish injection rate into squeeze holes. RIH with a 7" CR and set at 4,210'. Mix 55 sx Class B cement. Squeeze 26 sx outside the casing, leaving 29 sx inside the casing to cover the Mancos Formation top. POOH.

**11. Plug 3 - Mesa Verde Formation Top, 3310' - 3410', 55 Sacks Class B Cement**  
RIH and perforate 3 squeeze holes at 3,410'. Establish injection rate into squeeze holes. RIH with a 7" CR and set at 3,360'. Mix 55 sx Class B cement. Squeeze 26 sx outside the casing, leaving 29 sx inside the casing to cover the Mesa Verde Formation top. POOH.

**12. Plug 4 - Chacra Perforations and Formation Top, 2200' - 2300', 55 Sacks Class B Cement**  
RIH and perforate 3 squeeze holes at 2,300'. Establish injection rate into squeeze holes. RIH with a 7" CR and set at 2,250'. Mix 55 sx Class B cement. Squeeze 26 sx outside the casing, leaving 29 sx inside the casing to cover the Chacra Perforations and formation top. POOH.

13. Roll the hole with water and ensure that the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established (per Exhibit "A-3").

**14. Plug 5 - Pictured Cliffs Formation Top, 1600' - 1700', 55 Sacks Class B Cement**  
RIH and perforate 3 squeeze holes at 1,700'. Establish injection rate into squeeze holes. RIH with a 7" CR and set at 1,650'. Mix 55 sx Class B cement. Squeeze 26 sx outside the casing, leaving 29 sx inside the casing to cover the Pictured Cliffs Formation top. POOH.

**15. Plug 6 - Fruitland Formation Top, 1140' - 1240', 55 Sacks Class B Cement**  
RIH and perforate 3 squeeze holes at 1,240'. Establish injection rate into squeeze holes. RIH with a 7" CR and set at 1,190'. Mix 55 sx Class B cement. Squeeze 26 sx outside the casing, leaving 29 sx inside the casing to cover the Fruitland Formation top. POOH.

16. Cease operations for 30 minutes allowing the bradenhead to be observed for pressure build. Record pressures with crystal gauge for accuracy. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD (per Exhibit "A-3").

**17. Plug 7 - Kirtland and Ojo Formation Tops and Surface Plug, 0' - 670', 306 Sacks Class B Cement**  
RU WL and perforate 4 big hole charge (if available) squeeze holes at 670'. TOOH and RD wireline. Observe well for 30 minutes per BLM regulations. RU pump, close blind rams and establish circulation out bradenhead with water. Circulate BH clean. TIH with 7" CR and set at 620'. Mix 171 sx Class B cement and squeeze until good cement returns to surface out BH valve. Shut BH valve and squeeze to max 200 psi. Sting out of CR and reverse circulate cement out of tubing. TOOH and LD stinger. TIH with open ended tubing to 620'. Mix 135 sx Class B cement and pump inside plug. TOOH and LD Tubing. SI well and WOC.

18. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. RDMO.

**Exhibit "A-3"**

To Final Agreement - Withdrawal of Notice of Violation (3-15-02)  
dated May 4, 2016 from ConocoPhillips Company to NMOCD

**Updated Abandonment Procedures**

The following procedural changes will be required for the P&A Program:

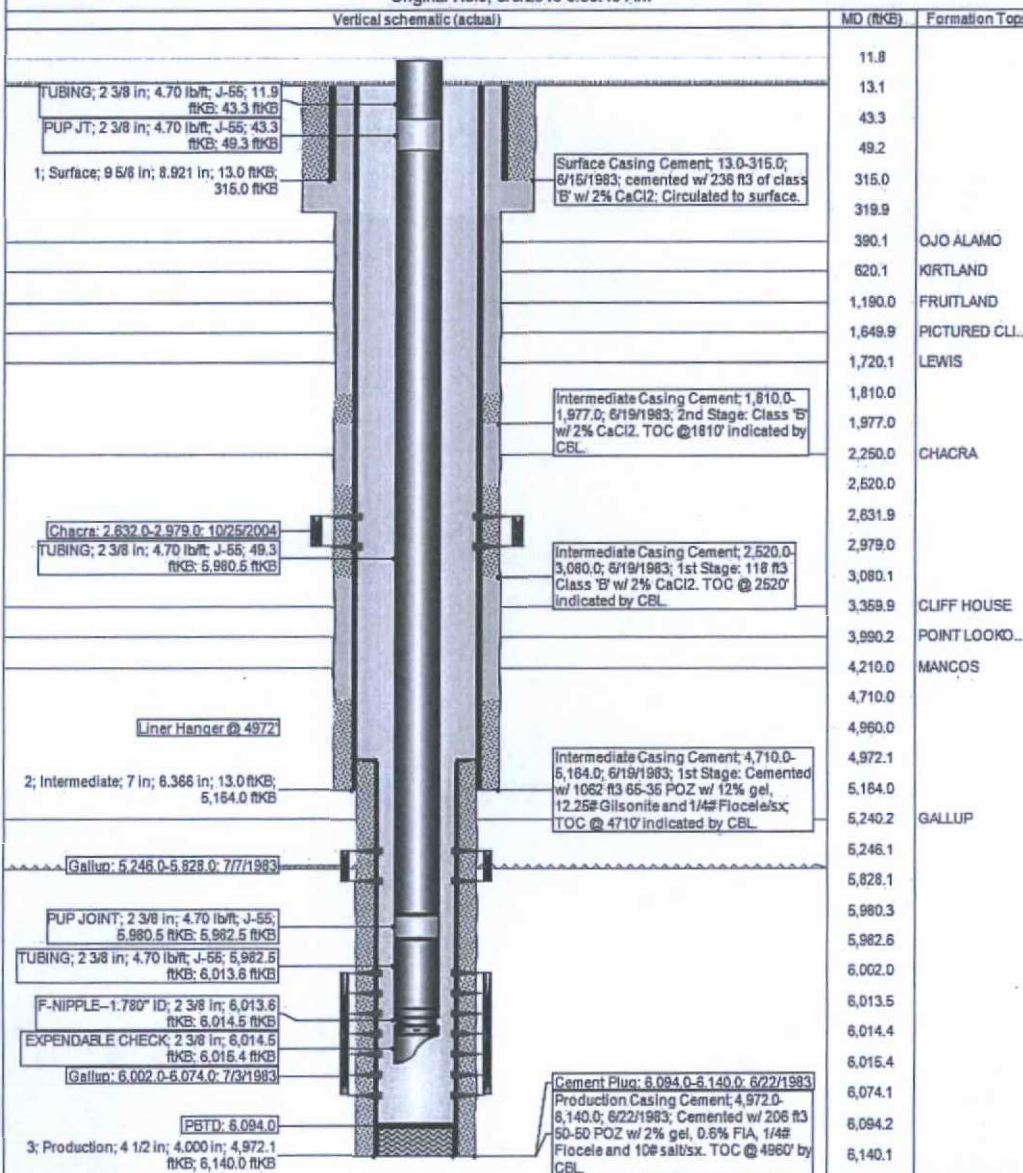
- 1) Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and properly plumbed to the surface. Record the casing, intermediate and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present. After the last set of completion perforations are abandoned with cement, roll the hole with water and ensure that the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established.
- 2) Following the plug over the Fruitland Formation Top, and prior to the plug over the Kirtland and Ojo Alamo Tops:
  - a. Operations will cease for 30 minutes allowing the Bradenhead to be observed for pressure build.
  - b. Pressures will be recorded with a crystal gauge for accuracy.
  - c. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD.
- 3) Within 24 hours of the abandonment and after two weeks, BLM will check for the presence of gas at the base of the dry hole marker and at the weep hole. Note ambient weather conditions when recording the results. If gas is detected, contact the Engineer.
- 4) If a Cathodic Protection well is on the well pad, check for the presence of gas at the vent cap. If gas is present, record results in AFMSS and contact the Engineer.

Note: when checking any sample point for the presence of gas, please be prepared for the possibility of anomalous pressure and the H<sub>2</sub>S gas.



District NORTH	Field Name ARMENTA GALLUP #3188	API / UWI 3004525698	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 6/14/1983	Surface Legal Location 010-028N-011W-1	East/West Distance (ft) 593.00	East/West Reference FEL	North/South Distance (ft) 1,793.00
				North/South Reference FSL

Original Hole, 3/8/2016 6:50:45 AM



Schematic - Proposed

API Well	Surface Log Location	Field Name	License No.	State/Province	Well Configuration Type
3004525698	010-028N-011W-I	ARMENTA GALLUP	10133	NEW MEXICO	
Ground Elevation (ft)	Original K&BRT Elevation (ft)	K&B-Ground Distance (ft)		K&B-Casing Hanger Distance (ft)	K&B-Fishing Hanger Distance (ft)
5,579.00	5,592.00	13.00		5,592.00	5,592.00

Original Hole, 1/1/2020 12:12:00 AM

Vertical schematic (actual)		MD (ftKB)	Formation Tops
1; Surface: 9 5/8 in; 8,921 in; 13.0 ftKB; 315.0 ftKB	Surface Casing Cement; 13.0-315.0; 6/15/1983; cemented w/ 236 ft3 of class 'B' w/ 2% CaCl2; Circulated to surface.	13.1	
	Plug #7; 13.0-870.0; 1/1/2020; 171 sx Class B Cement squeeze	319.9	
Bridge Plug - Permanent; 620.0-622.0		620.1	OJO ALAMO KIRTLAND
(Perf. 670.0; 1/1/2020)	Plug #7; 13.0-870.0; 1/1/2020; 135 sx Class B Cement balanced plug	669.9	
Bridge Plug - Permanent; 1,190.0-1,192.0	Plug #6; 1,140.0-1,240.0; 1/1/2020; 28 sx Class B Cement squeeze	1,190.0	FRUITLAND
(Perf. 1,240.0; 1/1/2020)	Plug #6; 1,140.0-1,240.0; 1/1/2020; 29 sx Class B Cement balanced plug	1,240.2	
Bridge Plug - Permanent; 1,650.0-1,652.0	Plug #5; 1,600.0-1,700.0; 1/1/2020; 28 sx Class B Cement squeeze	1,649.9	PICTURED CL...
(Perf. 1,700.0; 1/1/2020)	Plug #5; 1,600.0-1,700.0; 1/1/2020; 29 sx Class B Cement balanced plug	1,700.1	
	Intermediate Casing Cement; 1,810.0-1,977.0; 6/19/1983; 2nd Stage: Class 'B' w/ 2% CaCl2. TOC @ 1810' indicated by CBL.	1,810.0	LEWIS
Bridge Plug - Permanent; 2,250.0-2,252.0	Plug #4; 2,200.0-2,300.0; 1/1/2020; 28 sx Class B Cement squeeze	2,200.1	
(Perf. 2,300.0; 1/1/2020)	Plug #4; 2,200.0-2,300.0; 1/1/2020; 29 sx Class B Cement balanced plug	2,252.0	CHACRA
Chacra; 2,632.0-2,979.0; 10/25/2004		2,620.0	
	Intermediate Casing Cement; 2,520.0-3,080.0; 6/19/1983; 1st Stage: 118 ft3 Class 'B' w/ 2% CaCl2. TOC @ 2520' indicated by CBL.	2,979.0	
Bridge Plug - Permanent; 3,360.0-3,362.0	Plug #3; 3,310.0-3,410.0; 1/1/2020; 26 sx Class B Cement squeeze	3,310.0	CLIFF HOUSE
(Perf. 3,410.0; 1/1/2020)	Plug #3; 3,310.0-3,410.0; 1/1/2020	3,361.9	
		3,990.2	POINT LOOKO...
Bridge Plug - Permanent; 4,210.0-4,212.0	Plug #2; 4,160.0-4,260.0; 1/1/2020; 26 sx Class B Cement squeeze	4,210.0	MANCOS
(Perf. 4,260.0; 1/1/2020)	Plug #2; 4,160.0-4,260.0; 1/1/2020; 29 sx Class B Cement balanced plug	4,259.8	
		4,865.2	
Uner Hanger @ 4972			
Bridge Plug - Permanent; 4,965.0-4,967.0	Plug #1; 4,865.0-4,965.0; 1/1/2020; 29 sx Class B Cement balanced plug	4,964.9	
	Intermediate Casing Cement; 4,710.0-5,184.0; 6/19/1983; 1st Stage: Cemented w/ 1062 ft3 65-35 POZ w/ 12% gel, 12.25# Gilsomite and 1/4# Flocele/sx; TOC @ 4710' indicated by CBL.	4,972.1	
2; Intermediate; 7 in; 6,366 in; 13.0 ftKB; 5,164.0 ftKB		5,240.2	GALLUP
Gallup; 5,248.0-5,828.0; 7/7/1983		5,828.1	
	Cement Plug; 5,094.0-6,140.0; 6/22/1983		
Gallup; 6,002.0-6,074.0; 7/3/1983		6,074.1	
(PRD; 6,094.0)	Production Casing Cement; 4,972.0-6,140.0; 6/22/1983; Cemented w/ 206 ft3 50-50 POZ w/ 2% gel, 0.6% FIA, 1/4# Flocele and 10# salt/sx. TOC @ 4960' by CBL.	6,140.1	
3; Production; 4 1/2 in; 4,000 in; 4,972.1 ftKB; 6,140.0 ftKB			



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: Angel Peak 29

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 #2 (4377-4277) ft. inside/outside to cover the Mancos Formation top. BLM picks top of Mancos at 4327 ft.
- b) Set plug #3 (3275-3175) ft. inside/outside to cover the Mesaverde top. BLM picks top of Cliff House at 3225 ft.
- c) Set plug #4 (2582-2482) ft. to cover Chacra perforations and the Chacra Formation top. BLM picks top of Chacra at 2628 ft. Top of Chacra perms at 2632 ft.
- d) Set plug #6 (1391-1291) ft. inside/outside to cover the Fruitland Formation top. BLM picks top of Fruitland at 1341ft.

Operator will run CBL from CR @ 4,965 ft. to surface to verify cement top. Submit the electronic copy of the log for verification to the following addresses: [jwsavage@blm.gov](mailto:jwsavage@blm.gov)  
[Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

H<sub>2</sub>S has not been reported at this location, however, low concentrations of H<sub>2</sub>S (40 ppm GSV) have been reported in the NESW/4 Sec. 11, 28N, 11W.

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.