

RECEIVED

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUL 10 2018

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

**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

5. Lease Serial No.  
**NMNM 18463**  
6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2

1. Type of Well  
 Oil Well     Gas Well     Other

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

2. Name of Operator  
Enduring Resources, LLC

8. Well Name and No.  
**Chaco 2308-14E #152H**

3a. Address  
332 Cr 3100    Aztec, NM 87410

3b. Phone No. (include area code)  
505-636-9743

9. API Well No.  
**30-045-35504**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sur: 1440' FNL & 287' FWL, Sec 14, T23N, R8W -  
BHL: 2288' FNL & 234' FWL, Sec 15, T23N, R8W

10. Field and Pool or Exploratory Area  
**Nageezi Gallup**

11. Country or Parish, State  
San Juan, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other <u>Flare</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Extension</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 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 must 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 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.)

Enduring Resources requests authorization to flare the **Chaco 2308-14E #152H** if a potential cross flow event may occur as a result of a nearby Frac activity on the **Athena 2308 14L #3H (30-045-35876)**.

If a cross flow event on the wells results in nitrogen content above Williams pipeline standards, flaring may begin as soon as **7/23/18 for 30 days**, given approval.

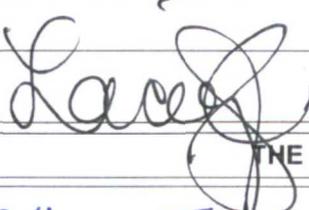
A gas sample will be collected upon the confirmation of the cross flow and sent to a third party for results of the gas analysis. The gas analysis will be submitted upon receipt.

SEE ATTACHED  
FOR CONDITIONS  
OF APPROVAL

**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)  
**Lacey Granillo**

Title Permit Specialist

Signature 

Date 7/11/18

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **William Tambekou**

Title **Petroleum Engineer** Date **7/11/2018**

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 **FFD**

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.

NMOCD

NMOCD  
JUL 13 2018  
DISTRICT III

4



via email transmission – [afelix@enduringresources.com](mailto:afelix@enduringresources.com)

July 5, 2018

Enduring Resources, LLC  
Attn: Andrea Felix  
1050 17<sup>th</sup> Street, Suite 2500  
Denver, CO 80265

**RE: Notice of stimulation operations affecting Athena 2308 14L #3H (API 30-045-35876) ("Notice")**

Operator:

LOGOS Operating, LLC ("LOGOS"), intends to conduct stimulation operations beneath the following lands (the "Lands"):

**Township 23 North, Range 8 West, NMPM**

Section 15: S/2

San Juan County, New Mexico

The aforesaid stimulation operations will be within a one (1) mile radius of one or more existing wells operated by your company, as shown in the map attached as Exhibit "A" hereto.

LOGOS intends to commence the aforesaid stimulation operations on or about July 23, 2018, and to complete such operations on or about July 28, 2018. To protect your well(s), you should immediately undertake any appropriate and necessary mitigation measures and/or make any necessary well or equipment repairs which may result from any potential well damage, performance or other detrimental impacts which may be caused by such stimulation operations.

This Notice is provided to you as a convenience and pursuant to the draft Stimulation best Management Practices dated November 18, 2013, established through the cooperative effort of the Bureau of Land Management's Farmington Field Office, the New Mexico Oil Conservation Department and representatives of the oil and gas industry.



---

Should you have any questions about this Notice or the upcoming operations, please contact Kristy Graham by phone at 505-436-2627 or by email at [kgraham@logosresourcesllc.com](mailto:kgraham@logosresourcesllc.com).

Sincerely,  
**LOGOS Operating, LLC**

*Dawn Howell*

Name: Dawn Howell  
Title: Senior Staff Land Analyst

cc: Chris Jeffus  
Kristy Graham



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington District Office  
6251 College Blvd. - Suite A  
Farmington, New Mexico 87402  
[www.blm.gov/nm](http://www.blm.gov/nm)



In Reply refer To:

## Conditions of Approval

- Flaring is authorized pursuant to 43 CFR 3170, Subpart 3179.102.
- 43 CFR 3179.9 (a) The operator must estimate or measure all volumes of gas vented or flared from wells, facilities and equipment on a lease, unit PA, or communitized area and report those volumes under applicable ONRR reporting requirements.
- Flaring will be authorized until August 21, 2018 if additional time is required, please contact this office accordingly.
- Please take appropriate and necessary safety precautions at this well site during the flaring period.