

State of New Mexico  
Energy, Minerals and Natural Resources Department

Susana Martinez  
Governor

Ken McQueen  
Cabinet Secretary

Matthias Sayer  
Deputy Cabinet Secretary

Heather Riley, Division Director  
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 10/17/18

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-24909-00-00	RICHARDSON	001E	LOGOS OPERATING, LLC	G	A	San Juan	F	O	2	27	N	13	W

Application Type:

- P&A     Drilling/Casing Change     Location Change  
 Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)  
 Other: Bradenhead repair

Conditions of Approval:

- Notify NMOCD 24 Hours prior to commencing activities.
- Notify the Agencies of any issues discovered.
- Provide any proposed remediation to the agencies for review and approval prior to beginning remediation.

NMOCD Approved by Signature

10/25/18  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

OCT 17 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.*

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF 077972A
2. Name of Operator LOGOS Operating, LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2010 Afton Place Farmington, NM 87401	3b. Phone No. (include area code) (505) 787-2218	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 840 FSL & 1720 FEL, SW/SE, O Sec 02 T27N R13W		8. Well Name and No. Richardson 1E
		9. API Well No. 30-045-24909
		10. Field and Pool or Exploratory Area Basin Dakota
		11. Country or Parish, State San Juan County, 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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	BH Remediation
	<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.)

LOGOS requests to perform a Bradenhead Remediation per the attached procedure and current wellbore diagram.

Reference: RBDMS MPK1819454857

**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**

NMOC D  
OCT 23 2018  
DISTRICT III

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Marie E. Florez		Regulatory Specialist	
Signature		Date 10/17/2018	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title PE	Date 10/19/18
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.

(Instructions on page 2)

NMOC D

**Richardson 1E**  
**API: 30-045-24909**

Richardson 001E Bradenhead Remediation Plan of Action:

1. Contract wellhead company to check for secondary seal and replace if testing indicates failure
2. If wellhead testing/repair is done, conduct re-test of bradenhead
3. If bradenhead gas is not eliminated by wellhead repair, use workover rig for the following:
  - a. Set RBP to conduct casing MIT
  - b. If necessary, run cement bond log and remediate casing



**Wellbore Schematic**

Well Name: Richardson 1E  
 Location: Sec 2, T27N, R13W 840' FSL & 1720' FEL  
 County: San Juan  
 API #: 30-045-24909  
 Co-ordinates: Lat 36.599307 Long -108.184797  
 Elevations: GROUND: 5881'  
 KB: 5892'  
 PBDT: 6149'  
 TD: 6200'

Date Prepared: 10/16/2018 Gomez  
 Last Updated:  
 Spud Date: 4/29/1981  
 Completion Date: 8/15/1981  
 Last Workover Date: 10/12/2007

