

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB  
No. 1004-0137 Expires:  
December 31, 2024

**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.**

5. Lease Serial No. NMSF077972  
6. If Indian, Allottee or Tribe Name

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator LOGOS OPERATING, LLC		8. Well Name and No. RICHARDSON 002
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 278-8720	9. API Well No. 30-045-06621
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 11 T27N R13W SESE (P) 890' FSL, 990' FEL		10. Field and Pool or Exploratory Area BASIN FRUITLAND COAL
		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	Drill out CIBP
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<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 Operating LLC requests permission to mill out cast iron bridge plug (CIBP) and return well to production. This well is currently temporarily abandoned. The well must be returned to production for LOGOS to remain in compliance. See attached operations plan.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Etta Trujillo		Title Regulatory Specialist
Signature 		Date 10/16/2023

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

Approved by	Title	Date
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	

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

(Instructions on page 2)

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240



**Return to Production-NMOCD (2023)**

**Richardson 002**

**30-045-06621**

**890' FSL & 990' FEL**

**Section 11, T27N, R13W**

**San Juan, New Mexico**

**LAT: 36.5849495° N LONG: -107.18293° W**

**Fuitland Coal**

**PROJECT OBJECTIVE:**

This well is currently temporarily abandoned. The well must be returned to production for LOGOS to remain in compliance. In order to return the well to production, the cast iron bridge plug (CIBP) will be milled out and 2-3/8" tubing will be run, and artificial lift will be installed to return the well to production.

**WORKOVER PROCEDURE:**

1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulations.
2. Lay flow lines. Check and record casing and tubing pressures.
3. Nipple down wellhead and nipple up BOP.
4. Trip in hole and mill out cast iron bridge plug, then trip out of hole with mill.
5. Run 2-3/8" tubing and install artificial lift equipment.
6. Rig down and move off location, returning the well to production.

<b>Well Name:</b> RICHARDSON	<b>Well Location:</b> T27N / R13W / SEC 11 / SESE / 36.584869 / -108.182251	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF077972	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3004506621	<b>Well Status:</b> Temporarily Abandoned	<b>Operator:</b> LOGOS OPERATING LLC

**Notice of Intent**

**Sundry ID:** 2756605

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 10/16/2023

**Time Sundry Submitted:** 02:52

**Date proposed operation will begin:** 10/16/2023

**Procedure Description:** LOGOS Operating LLC requests permission to mill out cast iron bridge plug (CIBP) and return well to production. This well is currently temporarily abandoned. The well must be returned to production for LOGOS to remain in compliance. See attached operations plan.

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** No

**NOI Attachments**

**Procedure Description**

3160\_5\_Richardson\_2\_\_Return\_well\_to\_Production\_20231016\_20231016145133.pdf

<b>Well Name:</b> RICHARDSON	<b>Well Location:</b> T27N / R13W / SEC 11 / SESE / 36.584869 / -108.182251	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 2	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
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<b>US Well Number:</b> 3004506621	<b>Well Status:</b> Temporarily Abandoned	<b>Operator:</b> LOGOS OPERATING LLC

**Operator**

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

**Operator Electronic Signature:** ETTA TRUJILLO **Signed on:** OCT 16, 2023 02:51 PM

**Name:** LOGOS OPERATING LLC

**Title:** Regulatory Specialist

**Street Address:** 2010 AFTON PLACE

**City:** Farmington **State:** NM

**Phone:** (505) 324-4154

**Email address:** ETRUJILLO@LOGOSRESOURCESLLC.COM

**Field**

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** KENNETH G RENNICK **BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5055647742 **BLM POC Email Address:** krennick@blm.gov

**Disposition:** Approved **Disposition Date:** 10/17/2023

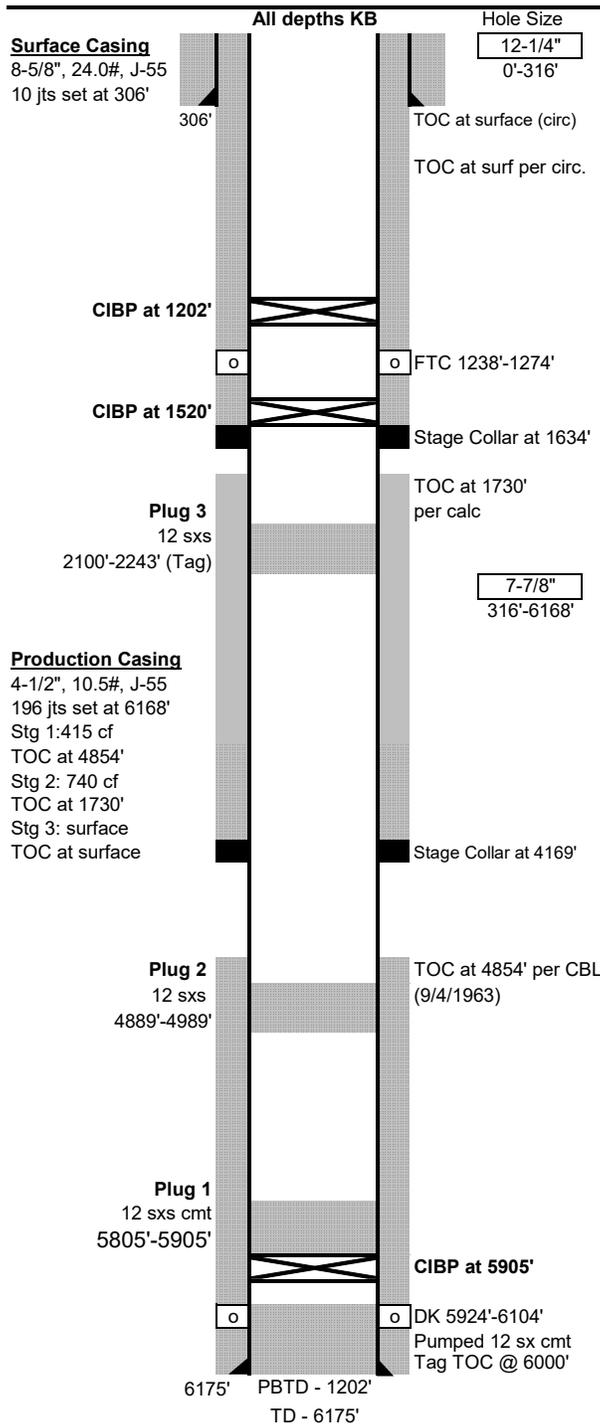
**Signature:** Kenneth Rennick



**Wellbore Schematic**

Well Name: Richardson 2  
 Location: P-11-T27N-R13W 890' FSL & 990' FEL  
 County: San Juan  
 API #: 30-045-06621  
 Co-ordinates: 36.5849495°, -108.18293° NAD83  
 Elevations: GROUND: 5876'  
 KB: 5885'  
 Depths (KB): PBDT: 1202'  
 TD: 6175'

Date Prepared: 11/27/2018 CHR  
 Last Updated: 12/13/2019 Moss  
 Spud Date: 8/14/1963  
 Completion Date: 9/6/1963  
 Last Workover Date: 6/13/2019



**Surface Casing: (08/16/1963)**  
 Drilled a 12-1/4" surface hole to 316'. Set 10 jts 8-5/8", 24.0#, J-55 casing at 306'.  
 Cemented with 200 sxs regular cement; circulated cement to surface.

**Production Casing: (09/16/1963)**  
 Drilled a 7-7/8" production hole to 6175'. Set 196 jts 4-1/2", 10.5#, J-55 casing at 6168'  
 Stage collars @ 4169' KB & 1634' KB  
 Stage 1 cmt w/ 320 cf 20% Diacel "D" Class C cmt + 12-1/2# gilsonite/sk tailed w/ 95 cf Class C cmt + 2% CaCl2. TOC at 4854 per CBL (9/4/1963)  
 Stage 2 cmt w/ 740 cf 20% Diacel "D" Class C cmt + 12-1/2# gilsonite/sk + 2% CaCl2 TOC 1730' per calc (75% efficiency)  
 Stage 3 cmt w/ 585 cf 40% Diacel "D" Class C cmt + 12-1/2# gilsonite/sk + 4% CaCl2 TOC at surface per circ.

**Tubing: (10/11/2013)** Length (ft)  
 NA

**Rods: (10/11/2013)** Length (ft)  
 NA

**Pumping Unit:**  
 NA

**Perforations:**  
 Dakota: (09/06/1963) (6072'-6104') 2SPF. Frac w/ 40,000 gal H2O & 20,000# 20/40 sand (5924'-28', 33'-38', 54'-60, 67'-71', 5974'-6002') 2 SPF. Frac w/ 61,740 gal H2O, 10,000# 40/60 sand & 50,000# 20/40 sand.  
 Fruitland Coal: (7/23/2008) (1238'-46', 63'-1274') 76, 0.43" holes at 4 SPF. Frac w/ 71,724 gal slickwater foam & 5,100# 40/70 sand & 80,100# 20/40 sand.

Formations:	Logs:
Ojo Alamo	9/4/1963 CBL (4700-PB)
Kirtland	8/26/1963 DENSILOG
Fruitland	8/26/1963 Induction
Pictured Cliffs	7/23/2008 RST/GR/CCL
Lewis	7/23/2008 CBL (Surf-1700)
Mesaverde	
Mancos	
Dakota	
Morrison	

**Additional Notes:**  
 (8/6/1996) Clean out to 6088'.  
 (10/17/2007) Clean out 6108'.  
 (7/22/2008) Attempted to plug DK perms w/ 12 sx cmt. TOC at 6000' per tag. Set CIBP @ 5905'. Plug 1: 12 SX Class G 5800'-5900' (50% excess). Plug 2: 12 sx Class G 4889'-4989' (50% excess). Plug 3: 12 sx Class G 2143'-2243' (50% excess). Tag TOC @ 2100'. Set CIBP @ 1520'. Perf & Complete FC formation.  
 (7/6/2009) RTP.  
 (11/26/2010) RTP, replaced 3 tbg jts due to corrosion.  
 (5/18/2011) RTP, replaced 3 tbg jts due to either rod wear or corrosion. Jt #22 was very thin.  
 (7/5/2011) RTP, replaced 41 tbg joints.  
 (12/8/2011) RTP, replaced 2 rods due to pitting.  
 (5/2/2012) RTP rods parted  
 (10/15/2013) RTP: Pulled tubing pump, ran casing scraper + 3 joints, no tag. Removed tubing pump and installed insert pump.  
 (6/13/2019) Ran 3-7/8" bit and string mill to 1228'. Set 4-1/2" CIBP at 1202'. PT to 560 psi for 30 min, test was good. Did not run tbg.  
 \*\*Well has a max deviation of 3/4 degrees at 1865'.

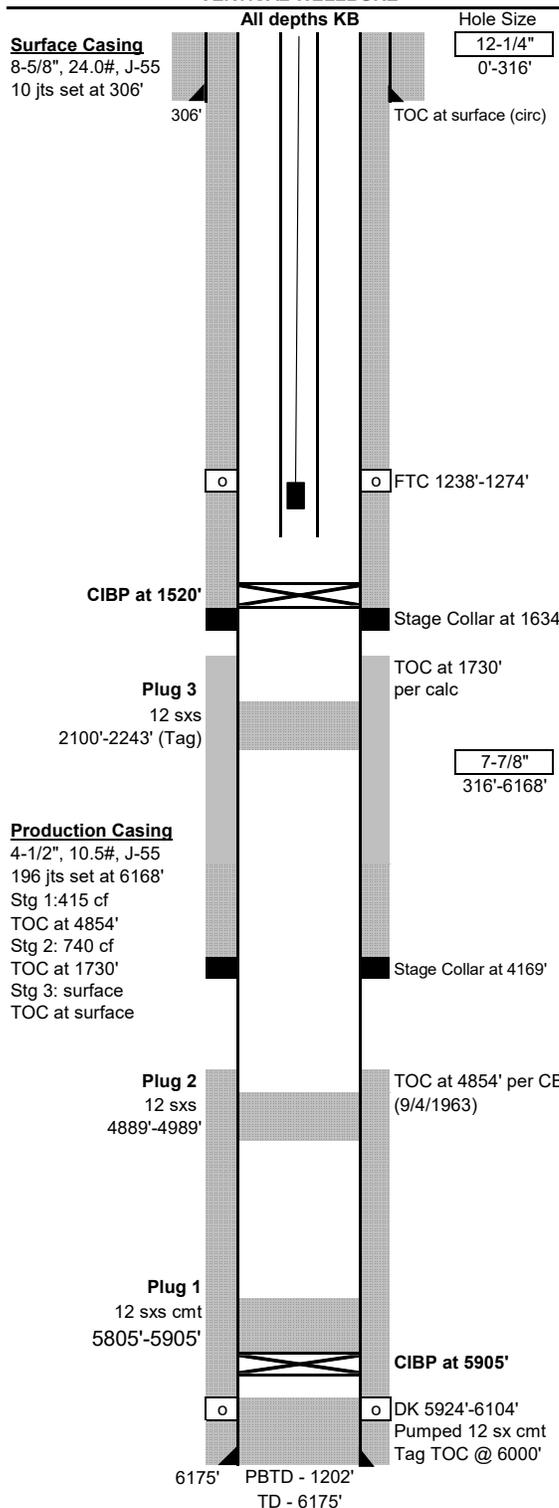


**Proposed Wellbore Schematic**

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**VERTICAL WELLBORE**



**Surface Casing:** (08/16/1963)  
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 Cemented with 200 sxs regular cement; circulated cement to surface.

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 Drilled a 7-7/8" production hole to 6175'. Set 196 jts 4-1/2", 10.5#, J-55 casing at 6168'  
 Stage collars @ 4169' KB & 1634' KB  
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 TOC 1730' per calc (75% efficiency)  
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 TOC at surface per circ.

Tubing:	Length (ft)
KB	9
(~39) 2-3/8" 4.7# J-55 tbg jts	1258
(1) 1.78" SN	1
(1) 2-3/8" x ~32 MS MA	32
Set at:	1300 ft

Rods:	Length (ft)
1-1/4" x 22' Polished rod w/ 1-1/2" x 10' liner	22
(~43) 3/4" plain rods	1075
(2) 3/4" x 8' plain pony rods	16
(6) 1-1/4" sinker bars	150
(1) 21k shear tool	1
(1) 3/4" x 8' guided pony rod	8
2" x 1-1/2" x 12' RWAC pump w/ 4' plgr	12

**Pumping Unit:**  
 Lufkin 114-143-64, 64" stroke length / Max Speed: 10 SPM

**Perforations:**  
 Dakota: (09/06/1963) (6072'-6104') 2SPF. Frac w/ 40,000 gal H2O & 20,000# 20/40 sand  
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Mancos 4150'	
Dakota 5850'	
Morrison 6160'	

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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 276315

**CONDITIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 276315
	Action Type: [C-103] NOI Workover (C-103G)

**CONDITIONS**

Created By	Condition	Condition Date
dmcclore	None	11/7/2023