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Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 21 2019

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.*

**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 077972
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) 324-4145	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL, 2630' FWL, C Sec 11 T27N R13W, NE/NW		8. Well Name and No. Richardson #101S
		9. API Well No. 30-045-31674
		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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" 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 recomplate 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 plans to Temporarily Abandon the subject well per the attached procedure and well schematic, with the intent to return the well to production when economics allow.

Verbal approval was received 2/21/19 from Jack Savage/BLM and Brandon Powell/OCD.

Notify NMOCD 24 hrs prior to beginning operations

NMOCD  
MAR 06 2019  
DISTRICT III

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) Tamra Sessions		Regulatory Specialist	
Signature <i>Tamra Sessions</i>		Title	Date 02/21/2019

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>J. Salys</i>	Title PE	Date 3/2/2019
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)

NMOCD



## Temporary Abandonment Procedure

**RICHARDSON 101S  
30-045-31674**

**660' FNL & 2630' FWL  
C-11-27N-13W  
San Juan County, New Mexico  
Lat 36.5951996° Long -108.1885986°  
Fruitland Coal**

CR: \_\_\_\_\_ Production Engineer  
Date

KM: \_\_\_\_\_ Engineering Manager  
Date

DB: \_\_\_\_\_ Production/Workover Manager  
Date

**PROJECT OBJECTIVE:**

TOOH laying down rods and pump. TOOH visually inspecting tubing. TIH with tubing set CIBP to set 50' above top perforation. TOOH. Load hole with packer fluid. Rig up chart recorder and conduct MIT. RDMOL.

**EQUIPMENT REQUESTED ON LOCATION**

1. Rig pit with 1% KCl with biocide (2.5 gal biocide/80 bbl produced water)
2. Rig pump
3. **4-1/2" 11.6# CIBP (Weatherford)**
4. **4-1/2" 11.6# string mill and used bit (Weatherford or Select)**
5. Chart recorder for MIT (2 hour chart, 1000 psig spring) (Big Red Tool)
6. **~25 bbl packer fluid (H&M)**

**PERTINENT DATA:**

KB	5'
PBTD	1579'
EOT	1408'
LAST WORKOVER	9/9/2015
LAST TAG	1464' (4/15/2014)
PRODUCTION CASING SPECS	4-1/2", 11.6#, J-55
TUBING SPECS	2-3/8" 4.7# J-55 EUE

**NOTES:**

- Follow procedure to conduct MIT
- Set CIBP at recommended landing depth, **DO NOT set CIBP > 50' from perforations**
- **Well has a tubing pump installed**

**CONTACTS:**

Catlain Richardson – Consultant Cell (505) 320-3499	Bruce Hare – Tuboscope Cell (505) 330-0913
Krista McWilliams - Artificial Lift Consultant Cell (505) 419-1627	Gary Noyes – Energy Pump Cell (505) 330-1932
Duane Bixler – Workover Rig Supervisor Cell (505) 635-1663	Jason Meechan – Area Lead Cell (505) 486-2612

## 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. RU blow lines from casing valves to rig pit. Kill well as necessary. Blow casing pressure down if necessary.
3. Stack out rods out, J to the right to release on/off tool and TOO H with rods and pump. Send rods to yard for condition determination and storage. Current rod string:

<b>NO.</b>	<b>DESCRIPTION</b>
1	1-1/2" x 22' polished rod w/ liner
2	3/4" pony rods (4', 8')
50	3/4" plain rods
4	1-1/4" sinker bars
1	On/off tool

4. ND WH. NU BOP.

Release tubing hanger and TOO H with tubing, visually inspecting. Lay down joints if required, but ~41 joints will be required to run CIBP to 1295'. Current tubing string:

<b>NO.</b>	<b>DESCRIPTION</b>
44	2-3/8" 4.7# J-55 EUE tubing joints
1	2-3/8" x 2" x 14' x 17' TWE Pump
1	8' sand screen w/ 25 slots

6. TIH with string mill and used bit for 4-1/2" 11.6# casing on tubing string. Make mill run to within 20' of top perforation at 1345'. **Run mill to 1325'**. TOO H and lay down mill and bit.
7. PU CIBP for 4-1/2" 11.6# casing and RIH and set CIBP at 1295' KB.
8. Reverse circulate packer fluid and load hole with ~22 bbl packer fluid (volume with tubing in the well). Conduct preliminary pressure test to ensure CIBP is holding. Do not pressure up beyond 560 psig surface pressure.
9. **Contact NMOCD to witness pressure test with 24 hr notice.**
10. Rig up Big Red Tool to chart pressure test as follows:
  - **Top off packer fluid**
  - **Pressure up to 560 psig surface pressure**
  - **Record pressure on 2 hour chart with 1000 psig spring for 30 minutes**
  - **Contact engineer with results of pressure tests**
11. Bleed of pressure and release Big Red Tool.
12. TOO H with tubing and send to yard for inspection and storage.
13. ND BOP, NU WH.
14. Top off wellbore with packer fluid.
15. RDMOL.



**Wellbore Schematic**

Well Name: Richardson 101S  
 Location: UL C, Sec 11, T27N, R13W 660' FNL & 2630' FWL  
 County: San Juan  
 API #: 30-045-31674  
 Co-ordinates: Lat 36.5951996° Long -108.1885986°  
 Elevations: GROUND: 5927'  
 KB: 5932'  
 Depths (KB): PBDT: 1579'  
 TD: 1606'

Date Prepared: 3/20/2017  
 Last Updated: 2/19/2019 Hespe  
 Spud Date: 10/17/2005  
 Completion Date: 11/4/2005  
 Last Workover Date: 9/10/2015

