

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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.
NMSF078769
6. If Indian, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

LOGOS OPERATING, LLC

3a. Address 2010 AFTON PLACE
FARMINGTON, NM 874013b. Phone No. (include area code)
(505) 278-87204. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 19 T31N R05W NENW (C) 965 FNL 480 FWL7. If Unit of CA/Agreement, Name and/or No.
NMNM78407E8. Well Name and No.
ROSA UNIT 649H9. API Well No.
30-039-3141010. Field and Pool or Exploratory Area
BASIN MANCOS11. Country or Parish, State
RIO ARRIBA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input 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 Well	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Integrity	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other - Intermediate	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Casing	
<input type="checkbox"/> Final Abandonment Notice	<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 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.)

8/26-9/1/22 - Walk rig over from Rosa Unit 647H. NU BOP. Test surf csg to 1600psi/30min. Test good. Drill 12.25" intermediate hole f/322' t/6114'.

9/2-5/22 - Cont drilling 12.25" intermediate hole f/6114' t/6272' (TD reached @ 03:00). Circ. POOH. RIH w/9-5/8" t/1222'. Could not pass 1545', tight spots. POOH. RIH w/bit, wash & ream through tight spots f/800' t/2977'. Circ. Lay down directional tools. RU csg equip. RIH w/9-5/8" to 5722'.

9/6-8/22 - Worked 9-5/8" csg to set depth 5727'. RD csg equip. Break circulation. Drill out DV tools. Wash & ream, circ & clean hole. POOH. Work csg down t/5793'.

9/9/22 - RIH w/140jts 9-5/8" csg, 47.0#, BTC, L-80 landed @ 6221' w/FC @ 6131'. DV tools @ 4621' & 3085'. Circ. RU cmt crew. Stage1 CMT lead w/150sxs (100bbbs) 10.5ppg, 3.82cuft/sx & 3427sx (1465bbbs) @ 12.0ppg, 2.3cuft/sx, and Tail w/944sxs(193bbbs) Premium G @ 15.8ppg, 1.15cuft. Drop plug, displace w/435bbbs FW & mud. Bump plug @ 1:30. WOC.

9/10/22 - ND flow lines. Ran CBL. Sent logs to BLM & NMOCD. Received verbal approval from Virgil Lucero (BLM) & Monica Kuehling (NMOCD) to perf sqz holes @ 2500'. Test INT csg to 1500psi/30mins. RIH & perf'd @ 2500' (.41dia/4shots @ 120 phase).

9/11/22 - Pumped stage2 CMT lead w/150sxs (100bbbs) 10.5ppg, 3.82cuft & 940sxs (385bbbs) 12.0ppg, 2.3cuft and Tail w/365sxs(100bbbs) @ 13.6ppg, 1.53cuft. Drop plug, displace w/155bbbs FW. 140bbbs good cmt to surface. TOC @ at surface.

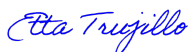
9/12/22 - Finish testing BOPs. PU BHA. TIH. Drill f/2073' t/2525'. Circ. Conduct MIT test, 560psi/30min, witnessed by NMOCD. Test good. Drill cmt f/2525' t/2700'. TIH to 5876'. Drill string pressured up. TOOH, clear obstruction in BHA.

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

Etta Trujillo

Title Regulatory Specialist

Signature



Date 09/27/2022

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

(Instructions on page 2)



Rosa Unit 649H 9-5/8" Remediation Plan

DATE: 9/10/2022

CURRENT WELL INFORMATION:

- Surface casing set at 347' MD (Reference to Ensign T223 KB – 24.5')
- 12-1/4" intermediate section drilled to TD at 6,272' MD
- 9-5/8" 47 ppf L-80 BTC intermediate casing set at 6,221' MD
- Formation Tops:
 - Ojo Alamo – 2447'
 - Kirtland – 2,547'
 - Fruitland – 3,015' MD
 - Pictured Cliffs – 3,363' MD
 - Mesaverde – 4,580' MD
 - Mancos – 6,151' MD
- 9-5/8" Cement Summary below:
 - Cement 9.625" Intermediate Casing with 1465 bbls of 12 ppg Lead and 192 bbls of 15.8 ppg Tail.
 - Ran CBL from min of 500' below TOC to surface. TOC – 2,524' – see attached CBL

PROCEDURE:

1. TOOH and rig up to run CBL.
 - Run CBL from 500' below top of cement to surface
 - Send CBL to the office for review and regulatory agency notifications.
 2. Pressure test intermediate casing to 1500 psi for 30 minutes with third-party pressure testers.
 - After a successful casing test, wait for approval to move forward with the following operations.
 3. Perforate squeeze hole with 4 spf above top of cement @ 2,500', establish injection rate and circulation, mix and pump cement with 100% excess in open hole and circulate cement to surface.
 4. Rig down cementers. Shut well in and hold pressure on casing. WOC.
 5. TIH with clean out BHA and drill out cement.
 6. Pressure test intermediate casing to 500 psi for 30 minutes with third-party pressure testers.
 7. Move forward with lateral drilling operations.
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Well Name: ROSA UNIT	Well Location: T31N / R5W / SEC 19 / NENW /	County or Parish/State: RIO ARRIBA / NM
Well Number: 649H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078769	Unit or CA Name: ROSA UNIT-MANCOS PA	Unit or CA Number: NMNM78407E
US Well Number: 300393141000X1	Well Status: Temporarily Abandoned	Operator: LOGOS OPERATING LLC

Subsequent Report

Sundry ID: 2694907

Type of Submission: Subsequent Report

Date Sundry Submitted: 09/27/2022

Date Operation Actually Began: 08/26/2022

Type of Action: Other

Time Sundry Submitted: 08:20

Actual Procedure: 8/26-9/1/22 - Walk rig over from Rosa Unit 647H. NU BOP. Test surf csg to 1600psi/30min. Test good. Drill 12.25" intermediate hole f/322' t/6114'. 9/2-5/22 - Cont drilling 12.25" intermediate hole f/6114' t/6272' (TD reached @ 03:00). Circ. POOH. RIH w/9-5/8" t/1222'. Could not pass 1545', tight spots. POOH. RIH w/bit, wash & ream through tight spots f/800' t/2977'. Circ. Lay down directional tools. RU csg equip. RIH w/9-5/8 to 5722'. 9/6-8/22 - Worked 9-5/8" csg to set depth 5727'. RD csg equip. Break circulation. Drill out DV tools. Wash & ream, circ & clean hole. POOH. Work csg down t/5793'. 9/9/22 - RIH w/140jts 9-5/8" csg, 47.0#, BTC, L-80 landed @ 6221' w/FC @ 6131'. DV tools @ 4621' & 3085'. Circ. RU cmt crew. Stage1 CMT lead w/150sxs (100bbbs) 10.5ppg, 3.82cuft/sx & 3427sx (1465bbbs) @ 12.0ppg, 2.3cuft/sx, and Tail w/944sxs(193bbbs) Premium G @ 15.8ppg, 1.15cuft. Drop plug, displace w/435bbbs FW & mud. Bump plug @ 1:30. WOC. 9/10/22 - ND flow lines. Ran CBL. Sent logs to BLM & NMOCD. Received verbal approval from Virgil Lucero (BLM) & Monica Kuehling (NMOCD) to perf sqz holes @ 2500'. Test INT csg to 1500psi/30mins. RIH & perf'd @ 2500' (.41dia/4shots @ 120 phase). 9/11/22 - Pumped stage2 CMT lead w/150sxs (100bbbs) 10.5ppg, 3.82cuft & 940sxs (385bbbs) 12.0ppg, 2.3cuft and Tail w/365sxs(100bbbs) @ 13.6ppg, 1.53cuft. Drop plug, displace w/155bbbs FW. 140bbbs good cmt to surface. TOC @ at surface. 9/12/22 - Finish testing BOPs. PU BHA. TIH. Drill f/2073' t/2525'. Circ. Conduct MIT test, 560psi/30min, witnessed by NMOCD. Test good. Drill cmt f/2525' t/2700'. TIH to 5876'. Drill string pressured up. TOOH, clear obstruction in BHA.

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Lease Number: NMSF078769	Unit or CA Name: ROSA UNIT-MANCOS PA	Unit or CA Number: NMNM78407E
US Well Number: 300393141000X1	Well Status: Temporarily Abandoned	Operator: LOGOS OPERATING LLC

SR Attachments

Actual Procedure

3160_5_Rosa_Unit_649H_INT_Subsequent_Report_20220912_20220927081336.pdf

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: SEP 27, 2022 08:20 AM

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: Accepted

Disposition Date: 09/28/2022

Signature: Kenneth Rennick

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 147092

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 147092
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	10/27/2022