

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.  
NMSF78767  
6. If Indian, Allottee or Tribe Name**SUBMIT IN TRIPLICATE - Other instructions on page 2**

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
LOGOS OPERATING LLC3a. 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 NE/NW (C) 956 FNL 482 FWL7. If Unit of CA/Agreement, Name and/or No.  
NMNM78407E8. Well Name and No.  
ROSA UNIT 644H9. API Well No.  
30-039-3143010. 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	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well 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 1	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<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.)

8/29/2023 - PU 17.5" BHA. TIH tag cmt @ 331'. Wash & ream to 381'. Drill 17.5" hole f/381' t/520'. Circ. TOOH. RIH w/17.5" tri-cone bit. Run Gyro, survey showed RU 649H @ 2.8'. Plan forward to plug back f/520' t/280' & sidetrack. **Received approval from Monica Kuehling (NMOCD) and Virgil Lucero (BLM) to plug & sidetrack.**

8/30 - 9/1/2023 - TIH to 518'. Circulate & clean hole for cmt plugback. RU cmt equip. Mix & pump Premium Class G cmt w/525sx (88bbls, 530cf) 16.8ppg, 1.01yield. WOC. Estimated TOC @ 314'. Tag cmt @ 341'. Drill cement to 391'. Time drill and sidetrack well @ +- 391'. Drill f/314' t/535' Circulate. TOOH.

9/2 - 9/5/2023 - Pick up drilling BHA and TIH. Continue to drill 17.5" hole f/535' t/3535'. Circulate hole clean. Wiper trip to 2130'. Condition mud & circulate.

9/6 - 9/7/2023 - TOOH. Lay down BHA. RU casing equipment. **RIH w/84jts 13-3/8", J-55 61.0# landed @ 3,519' w/FC @ 3,433'.** Mix & pump 2164 sxs lead premium lead class G cement (732bbls, 4112cf) 40bbls spacer, 12.4ppg, 1.90yield. Tail w/509 sxs premium class G cement (100bbls, 560cf) 15.8ppg, 1.10yield. 21bbls cement to surface. Bump plug @ 01:15 1340psi. RD cement equipment.

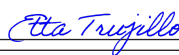
Pressure test will be reported on the next sundry.

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

Etta Trujillo

Title Regulatory Specialist

Signature



Date 09/18/2023

**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

**From:** [Lucero, Virgil S](#)  
**To:** [Kuehling, Monica, EMNRD](#); [drilling](#)  
**Cc:** [Ryan Haddow](#); [Vanessa Fields](#)  
**Subject:** Re: [EXTERNAL] Side Track plan Rosa 644H  
**Date:** Tuesday, August 29, 2023 9:49:09 PM

---

Yes, sorry the BLM approves the plan, I apologize for not stating that on my reply earlier.

We will witness an inspection some time after the side tract begins.

Thank you,  
Virgil Lucero  
Supervisory Petroleum Engineering Technician  
6251 College Blvd, Suite A  
Farmington, NM 87402  
D - 505-564-7752  
C - 505-793-1836  
Email: [vlucero@blm.gov](mailto:vlucero@blm.gov)

---

**From:** Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>  
**Sent:** Tuesday, August 29, 2023 9:25 PM  
**To:** Lucero, Virgil S <[vlucero@blm.gov](mailto:vlucero@blm.gov)>; [drilling@logosresourcesllc.com](mailto:drilling@logosresourcesllc.com)>  
**Cc:** Ryan Haddow <[rhaddow@logosresourcesllc.com](mailto:rhaddow@logosresourcesllc.com)>; Vanessa Fields <[vfields@logosresourcesllc.com](mailto:vfields@logosresourcesllc.com)>  
**Subject:** Re: [EXTERNAL] Side Track plan Rosa 644H

Nmocd approves plan -please keep informed on how things go  
Thank you  
Monica Kuehling  
Nmocd

Get [Outlook for iOS](#)

---

**From:** Lucero, Virgil S <[vlucero@blm.gov](mailto:vlucero@blm.gov)>  
**Sent:** Tuesday, August 29, 2023 9:13:52 PM  
**To:** [drilling@logosresourcesllc.com](mailto:drilling@logosresourcesllc.com)>; Kuehling, Monica, EMNRD <[monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)>  
**Cc:** Ryan Haddow <[rhaddow@logosresourcesllc.com](mailto:rhaddow@logosresourcesllc.com)>; Vanessa Fields <[vfields@logosresourcesllc.com](mailto:vfields@logosresourcesllc.com)>  
**Subject:** Re: [EXTERNAL] Side Track plan Rosa 644H

We appreciate the heads-up, I've heard of this happening before, however I've

never experienced it in our area.

Thank you,  
Virgil Lucero

Supervisory Petroleum Engineering Technician  
6251 College Blvd, Suite A  
Farmington, NM 87402  
D - 505-564-7752  
C - 505-793-1836  
Email: [vlucero@blm.gov](mailto:vlucero@blm.gov)

---

**From:** drilling <drilling@logosresourcesllc.com>

**Sent:** Tuesday, August 29, 2023 9:08 PM

**To:** monica.kuehling@state.nm.us <monica.kuehling@state.nm.us>; Lucero, Virgil S  
<vlucero@blm.gov>

**Cc:** Ryan Haddow <rhaddow@logosresourcesllc.com>; Vanessa Fields  
<vfields@logosresourcesllc.com>

**Subject:** [EXTERNAL] Side Track plan Rosa 644H

<p><b>This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.</b></p>
--

Rosa 644H

20" surface csg depth – 381'

Drilled 17.5" hole to 520'

We drilled to 520' could not get a good survey with MWD due to magnetics. Tripped out of hole this afternoon & ran a Gyro. Gyro Surveys showed we are 2.8' away from Rosa 649H well. Plan going forward would be to pump cmt plug and plug back from 520' to 280' (150' inside of 20" csg). Drill cmt down to just outside of csg & side tract well. If you need any more information please feel free to call me ant time.

**Charles Deardoff**

Drilling Consultant

Cell # 318-286-8400

Rig # 505-491-0666

[drilling@logosresourcesllc.com](mailto:drilling@logosresourcesllc.com)

Well Name: ROSA UNIT	Well Location:	County or Parish/State:
Well Number: 644H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078767	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number: 300393143000X1	Well Status: Drilling Well	Operator: LOGOS OPERATING LLC

Subsequent Report

Sundry ID: 2751892

Type of Submission: Subsequent Report	Type of Action: Drilling Operations
Date Sundry Submitted: 09/18/2023	Time Sundry Submitted: 02:33
Date Operation Actually Began: 08/29/2023	

**Actual Procedure:** 8/29/2023 - PU 17.5" BHA. TIH tag cmt @ 331'. Wash & ream to 381'. Drill 17.5" hole f/381' t/520'. Circ. TOOH. RIH w/17.5" tri-cone bit. Run Gyro, survey showed RU 649H @ 2.8'. Plan forward to plug back f/520' t/280' & sidetrack. Received approval from Monica Kuehling (NMOCD) and Virgil Lucero (BLM) to plug & sidetrack. 8/30 - 9/1/2023 - TIH to 518'. Circulate & clean hole for cmt plugback. RU cmt equip. Mix & pump Premium Class G cmt w/525sx (88bbbs, 530cf) 16.8ppg, 1.01yield. WOC. Estimated TOC @ 314'. Tag cmt @ 341'. Drill cement to 391'. Time drill and sidetrack well @ +- 391'. Drill f/314' t/535' Circulate. TOOH. 9/2 - 9/5/2023 - Pick up drilling BHA and TIH. Continue to drill 17.5" hole f/535' t/3535'. Circulate hole clean. Wiper trip to 2130'. Condition mud & circulate. 9/6 - 9/7/2023 - TOOH. Lay down BHA. RU casing equipment. RIH w/84jts 13-3/8", J-55 61.0# landed @ 3,519' w/FC @ 3,433'. Mix & pump 2164 sxs lead premium lead class G cement (732bbbs, 4112cf) 40bbbs spacer, 12.4ppg, 1.90yield. Tail w/509 sxs premium class G cement (100bbbs, 560cf) 15.8ppg, 1.10yield. 21bbbs cement to surface. Bump plug @ 01:15 1340psi. RD cement equipment. Pressure test will be reported on the next sundry.

SR Attachments

**PA**Actual Procedure

3160\_5\_Rosa\_Unit\_644H\_Intermediate1\_Subsequent\_Report\_20230918143103.pdf

Well Name: ROSA UNIT	Well Location:	County or Parish/State:
Well Number: 644H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078767	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number: 300393143000X1	Well Status: Drilling Well	Operator: 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: SEP 18, 2023 02:30 PM

Name: LOGOS OPERATING LLC

Title: Regulatory Specialist

Street Address: 2010 AFTON PLACE

City: FarmingtonState: 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: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 09/18/2023

Signature: Matthew Kade

**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 266560

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 266560
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
kelly.roberts	None	10/18/2023