

<b>Well Name:</b> ROSA UNIT	<b>Well Location:</b> T31N / R5W / SEC 19 / LOT 1 / 36.889703 / -107.406129	<b>County or Parish/State:</b> RIO ARRIBA / NM
<b>Well Number:</b> 644H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF078767	<b>Unit or CA Name:</b> ROSA UNIT	<b>Unit or CA Number:</b> NMNM78407E
<b>US Well Number:</b> 3003931430	<b>Operator:</b> LOGOS OPERATING LLC	

### Subsequent Report

**Sundry ID:** 2804084

**Type of Submission:** Subsequent Report

**Type of Action:** Workover Operations

**Date Sundry Submitted:** 07/31/2024

**Time Sundry Submitted:** 11:43

**Date Operation Actually Began:** 07/08/2024

**Actual Procedure:** 7/8/2024 - MIRU. ND WH. NU BOP. NU flowline. SDFN. 7/9/2024 - TIH w/232jts 2-7/8" tubing, J-55, 6.5#, landed at 7582', X-nipple @ 7580'. ND BOP. NU WH. Swab well. RDMO. SDFN.

### SR Attachments

#### Actual Procedure

3160\_005\_Rosa\_Unit\_644H\_Tubing\_Installation\_20240709\_20240731114322.pdf

Well Name: ROSA UNIT

Well Location: T31N / R5W / SEC 19 /  
LOT 1 / 36.889703 / -107.406129County or Parish/State: RIO  
ARRIBA / NM

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: 3003931430

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: JUL 31, 2024 11:44 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: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 07/31/2024

Signature: Matthew Kade

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2025

**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

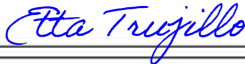
<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No. NMNM78407E
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. ROSA UNIT 644H
2. Name of Operator LOGOS OPERATING, LLC		9. API Well No. 30-039-31430
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 278-8720	10. Field and Pool or Exploratory Area BASIN MANCOS
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) 956' FNL & 482' FWL , SEC 19 31N 5W, UNIT LETTER C		11. 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 checked="" 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 <input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal
	Tubing Installlation

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 recompleate 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 perfonned 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 recompleation 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 detennined that the site is ready for final inspection.)

7/8/2024 - M1RU. ND WH. NU BOP. NU flowline. SDFN.

7/9/2024 - T1H w/232jts 2-7/8" tubing, J-55, 6.5#, landed at 7582', X-nipple @ 7580'. ND BOP. NU WH. Swab well. RDMO. SDFN.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Etta Trujillo	Title Regulatory Specialist 11
Signature 	Date 7/31/2024

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)



Wellbore Schematic

Well Name:	Rosa Unit 644H	Ground Elevation:	6305	Prepared By:	9/26/2023	Peace
Location:	C - Sec 19 T31N, R05W, 96E FNL, 48Z FNL	KB Elevation:	6305	Reviewed By:	10/9/2023	CR
County:	Rio Arriba NM	TD (FND):	6897'	Last Updated:	7/30/2024	Sullivan
API #:	30-039-31430	TD (MD):	15,698'	Spud Date:	6/7/2023	
Coordinates:	36.889688, -107.406129 NAD83	PBTD (MD):	15,598'	Completion Date:	11/2/2023	
Operator:	LOGOS Operating, LLC			Last Workover Date:	7/6/2024	

All Depths KB

Hole Size

Surface Casing

20" 94# J-55  
9 ljs set at 381' (KB)  
1377 sx  
TOC at surface

26"  
0'-381'

TOC at Surface (circ)

Intermediate 1 Casing

13-3/8" 61# J-55  
84 ljs set at 3519'  
2673 sx  
TOC at surface

17'-112"  
381'-5535'

Intermediate 2 Casing

9-5/8" 43.5# L-80  
151 ljs set at 6476'  
DV Tool 1 at 4834'  
Sig 1- 1272 sx  
TOC at DV bbl  
DV Tool 2 at 3578'  
Sig 2- 1319 sx  
TOC at surface

8-112"  
6505'-15,698'

TOC at surface (circ)  
DV Tool 2 at 3578'  
(bypassed)

Production Casing

5-1/2" 20# HCP-110  
345 ljs set at 15,680'  
2426 sx  
TOC at surface  
Mkr ljs at 7208', 9573'  
11351' & 13397'

DV Tool 1 at 4834'  
TOC at surface (circ)

TOC at DV Tool 1 (circ)

Mkr ljs at 7208', 9573', 11351', 13397'

Perforations:  
Top: 7626'  
Toe Sleeve 2 (2.45') 15450'-15452'  
Toe Sleeve 1 (2.45') 15498'-15500'

TOC @ surface

Tubing  
232 ljs 2-7/8" 6.5# J-55  
X nipple at 7061'  
XN nipple at 7380'  
EOT 7382'

Formation Tops (MD)		
Nacimiento	Surface	Cliff House
	2485'	Menefee
Ojo Alamo	2591'	Point Lookout
	2591'	Manco
Kirtland	2941'	Manco
	2941'	Manco
Frutland	3438'	Top Black
	3438'	Top Black
Pictured Cliffs	3550'	Top Target
	3550'	Top Target
Lewis	4173'	7661'
	4173'	7661'
Chetca		

Surface Casing: (8/27/2023)

Drilled a 26" surface hole to 381' KB. Set 9 ljs 20" 94# J-55 casing at 381' KB.  
Cmt w/ 1377 sx Premium Class G cmt (15.8 ppg, 1.15 yield) Circ 140 bbls cmt to surface.

Intermediate 1 Casing: (8/29/2023)

Drilled a 17'-112" intermediate hole to 3535'. Spot cement plug in open hole @ 3305.18 w/ 525 sx Premium Class G cmt (16.8 ppg & 1.01 yield) circ with drill pipe.  
Set 84 ljs 13-3/8" 61# J-55 csg at 3519'. Cmt w/ 2164 sx Premium Class G 65/35/6 lead cmt (12.4 ppg, 1.9 yield) tailed w/ 509 sx Premium Class G cmt (15.8 ppg, 1.1 yield) Circ 21 bbls cmt to surface.

Intermediate 2 Casing: (9/7/2023)

Drilled a 12-1/4" intermediate hole to 6505'. Set 151 ljs 9-5/8" 43.5# L-80 BTC csg at 6476'. OH packer + DV tools at 3578' & 4834'.  
Cmt 1st sig w/ 814 sx 65/35/6 Premium Class G cmt lead (12.4 ppg & 1.9 yield) + 458 sx Class G cmt tail (15.8 ppg & 1.10 yield). Circ 66 bbls cmt to surface.  
Cmt 2nd sig w/ 1039 sx 65/35/6 Class G cmt lead (12.4 ppg & 1.9 yield) + 280 sx Class G cmt 65/35/6 tail (13.2 ppg & 1.58 yield). Circ 53 bbls cmt to surface.  
Cancelled 3rd stage cement. Closed DVT w/ 200#.

Production Casing: (10/2/2023)

Drilled a 8-1/2" production hole to 15,698' (6,897' VDI). Set 345 ljs 5-1/2" 20# HCP-110 csg at 15,680'.  
Mkr ljs at 7208', 9573', 11351', & 13397'. Toe sleeve #2 at 15450' & Toe sleeve #1 at 15498'.  
Cmt w/ 805 sx Premium Class G 65/35/6 cmt (12.4 ppg & 1.91 cfsk) tailed w/ 1621 sx Premium Class G 65/35/6 cmt (13.2 ppg & 1.59 cfsk).

Completion: (See completions tab for details)

7626'-15,500' (6.0 38" 1832 Strick) Toe sleeves at 15450'-15452' & 15498'-15500'. Free w/ 17,786 396 hlbs 100 mesh & 40/70 sand in 467,640 bbls of slick water.

Tubing		Length (ft) Depths (RKB)	
KB		30	30
(217) 2-7/8" 6.5# J-55 tbg ljs	7061'	7031	
(1) 2.313" X nipple at 7061' (60')		1	7031
(151) 2-7/8" 6.5# J-55 tbg lf	488'	7032	
(1) 2.25" XN nipple at 7560'		1	7520
(1) 2-7/8" MS collar w/ exp check		1	7521
Set at:	7592		

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 369276

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 369276
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	Accepted for record.	9/2/2025