

<b>Well Name:</b> ROSA UNIT	<b>Well Location:</b> T31N / R5W / SEC 19 / LOT 1 / 36.8896819 / -107.40583	<b>County or Parish/State:</b> RIO ARRIBA / NM
<b>Well Number:</b> 647H	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMSF078769	<b>Unit or CA Name:</b> ROSA UNIT	<b>Unit or CA Number:</b> NMNM78407E
<b>US Well Number:</b> 3003931411	<b>Operator:</b> LOGOS OPERATING LLC	

### Subsequent Report

**Sundry ID:** 2804181

**Type of Submission:** Subsequent Report

**Type of Action:** Workover Operations

**Date Sundry Submitted:** 08/01/2024

**Time Sundry Submitted:** 08:29

**Date Operation Actually Began:** 07/15/2024

**Actual Procedure:** 7/15/2024 - MIRU. 7/16/2024 - ND. NU BOP & function test. TIH w/236jts of 2-7/8" tubing, J-55, 6.5#, landed at 7522'. X-Nipple @ `7521'. ND BOP. NU WH. Swab well. RDMO.

### SR Attachments

#### Actual Procedure

3160\_005\_Rosa\_Unit\_647H\_Tubing\_Installation\_20240716\_20240801082842.pdf

Well Name: ROSA UNIT

Well Location: T31N / R5W / SEC 19 /  
LOT 1 / 36.8896819 / -107.40583County or Parish/State: RIO  
ARRIBA / NM

Well Number: 647H

Type of Well: CONVENTIONAL GAS  
WELL

Allottee or Tribe Name:

Lease Number: NMSF078769

Unit or CA Name: ROSA UNIT

Unit or CA Number:  
NMNM78407E

US Well Number: 3003931411

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: AUG 01, 2024 08:29 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: 08/01/2024

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.**

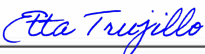
5. Lease Serial No.	NMSF78769
6. If Indian, Allottee or Tribe Name	

<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 647H
2. Name of Operator LOGOS OPERATING, LLC		9. API Well No. 30-039-31411
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) 952' FNL & 422' 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 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	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		Tubing Installation
<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 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 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 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 determined that the site is ready for final inspection.)

7/15/2024 - MIRU.  
7/16/2024 - ND. NU BOP & function test. TIH w/236jts of 2-7/8" tubing, J-55, 6.5#, landed at 7522'. X-Nipple @ '7521'. ND BOP.  
NU WH. Swab well. RDMO.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Etta Trujillo	Title Regulatory Specialist II
Signature 	Date 8/1/2024

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)



Well Name: Rosa Unit 647H  
Location: C - 19 - 31N - 05W, 96S2 FNL & 42Z FWL  
County: Rio Arriba  
API #: 30-039-31411  
Co-ordinates: 36.889715, -107.406336 NMD83  
Operator: LOGOS Operating, LLC

Ground Elevation: 630S'  
KB Elevation: 6330'  
TD (TVD): 6905'-6945'  
TD (MD): 20568'  
PBD: 20501'

Wellbore Schematic

Prepared By: 10/18/2022 CHR  
Reviewed By: 10/18/2022 Moss  
Last Updated: 7/17/2024 Gomez  
Spud Date: 4/7/2022  
Completion Date: 12/5/2022  
Last Workover Date: 7/16/2024

Hole Size

Surface Casing  
13-3/8" 54.5# J-55  
11 1/2" set at 363' GL  
365 sx  
TOC at surface

Intermediate Casing

9-5/8" 47# L-80  
145 lbs set at 6419'  
DV tools at 3186' & 4819'  
Sig 1- 1282 sx  
TOC @ 4819' (DVT)  
Sig 2- 972 sx  
TOC @ 3186' (DVT)  
Sig 3- 2546 sx  
TOC at surface

Production Casing

5-1/2" 20# P-110  
471 lbs set at 20548'  
3220 sx  
Est TOC @ 3450/  
Final TOC TBD by CBL  
Mkr Jls at 4986', 7188',  
10975', & 14982'

Tubing

236 lbs 2-7/8" 6.5# J-55  
X nipple at ~7031'  
XN nipple at ~7521'  
EOT ~7522

Surface Casing: (48/22)

Drilled a 11-1/2" surface hole to 368' (343' GL). Ran 11 lbs 13-3/8" 54.5# J-55 BTC casing at 363' (338' GL).  
Cmt W/ 365 sx Class G cmt W/ 2% CaCl<sub>2</sub> & 1/4 lb/sk Floccie (15.8 ppg & 1.15 cfsk). Circ 25 bbls cmt to surface.

Intermediate Casing: (8/25/22)

Drilled a 12-1/4" intermediate hole to 6439'. Ran 145 lbs 9-5/8" 47# L-80 csq set at 6419'. DV tools at 3186' & 4819'.  
Cmt Stage 1 W/ 430 sx lead cmt (12.0 ppg & 2.3 cfsk) + 652 sx ball cmt (15.8 ppg & 1.15 cfsk). Circ 5 bbl. TOC @ 4819'.  
Cmt Stage 2 W/ 622 sx lead cmt (12.0 ppg & 2.3 cfsk) + 350 sx ball cmt (13.2 ppg & 1.73 cfsk). Circ 41 bbl. TOC @ 3186'.  
Cmt Stage 3 W/ 1416 sx lead cmt (12.0 ppg & 2.3 cfsk) + 1130 sx ball cmt (13.2 ppg & 1.73 cfsk). Circ 280 bbl to surf.

Production Casing: (7/17/2022)

Drilled a 8-1/2" production hole to 20568' (6905'-6945' TVD). Set 471 lbs 5-1/2" 20# P-110 csq at 20548'.  
Mkr Jls at 4986', 7188', 10975', & 14982'. Toe sleeves at 20363' & 20410'.

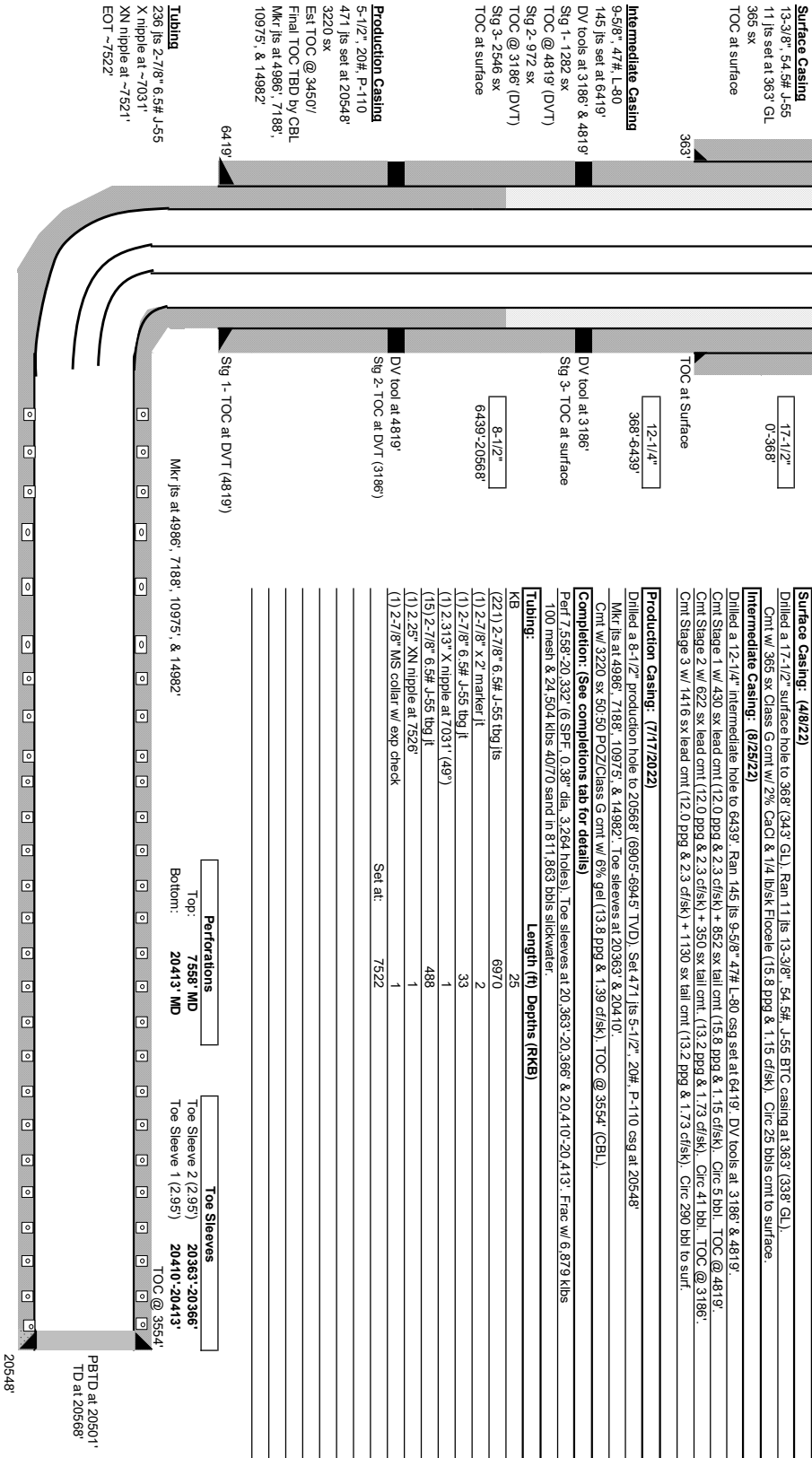
Cmt W/ 3220 sx 50.50 POZ/Class G cmt W/ 6% gel (13.8 ppg & 1.39 cfsk). TOC @ 3554' (CBL).  
Completion: (See completions tab for details)

Perf 7.558'-20.332' (6 SPF, 0.38" dia, 3.264 holes). Toe sleeves at 20.363'-20.366' & 20.410'-20.413'. Frac W/ 6.879 klbs  
100 mesh & 24.504 klbs 40/70 sand in 811.863 bbls slickwater.

Tubing:	Length (ft)	Depths (RKB)
KB	25	
(22) 1" 2-7/8" 6.5# J-55 tq Jls	6970	
(1) 2-7/8" x 2 marker J	2	
(1) 2-7/8" 6.5# J-55 tq J	33	
(1) 2.313" X nipple at 7031' (49")	1	
(15) 2-7/8" 6.5# J-55 tq J	488	
(1) 2.25" XN nipple at 7526'	1	
(1) 2-7/8" MS collar W/ exp check	1	
Set at:	7522	

Perforations	Toe Sleeves
Top: 7558' MD	Toe Sleeve 2 (295') 20363'-20366'
Bottom: 20413' MD	Toe Sleeve 1 (295') 20410'-20413'
	TOC @ 3554'

Formation Tops: (MD)		
Nacimiento	Surface	Chacra 4749'
Ojo Alamo	2503'	Cliff House 5578'
Kirtland	2618'	Menefee 5625'
Fruitland	3113'	Point Lookout 5842'
Pictured Cliffs	3471'	Mancos 6365'
Lewis	3582'	



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 369282

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 369282
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

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