

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	Spud
	<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.)

6/5 - 6/9/2023 - RU Mo-Te equipment. PU 12-1/4" BHA. Drill 12-1/4" surface hole f/25' t/347 (TD). Spud well @ 15:00 on 6/7/23. TOOH. PU 12-1/4" BHA, drill f/0 t/58'. SDFN.

6/12 - 6/16/2023 - Continue to drill 12-1/4" hole to 347'. Circ and POOH. Pick up 17-1/2" bit and Ream/open hole from 12-1/4" to 17-1/2" hole f/58' t/347'. TOOH. MU 26" PDC bit. Ream/Open hole from 17-1/2" to 26" surface hole f/0 t/347'. Circulate. POOH t/239'. SDFN.

6/17 - 6/22/2023 - Wash & ream f/239' t/347'. Circulate. Lay down BHA. RU csg crew. RIH w/5jts, 20", 94# J-55, BTC to 175', could not pass 175'. Attempted 3 times. TOOH, lay down 5jts 20" casing. RD MoTe equipment. Placed temporary metal plate over surface hole and field fence around the perimeter with well sign.

8/20 - 8/24/2023 - MIRU H&P rig. Prep for spud, layout BHA. Remove cellar cover. PU 17.5" cleanout assembly. RIH to 342'. Wash & ream. Tag bottom @ 376' (New RKB). Circulate & condition. Laydown 17.5 bit. MU 26" bit.

8/25 - 8/26/2023 - RIH w/26" tri-cone bit, clean out assembly to 350'. Wash & ream. TOOH. PU shoe track & RIH w/20" casing, 94#, J-55, BTC to 293', working & washing casing to 298', would not go deeper. POOH, laydown 7jts. RD csg crew. PU BHA #2, wash & ream old hole to 376'. Drill 26" surface hole f/376' t/381' (TD)(to fit new casing tally). Circulate & condition hole. TOOH. Laydown BHA. RU csg tools.

8/27/2023 - RIH w/7jts, 20" csg, 94#, J-55, BTC, landed @ 381'. Circulate. Mix & pump Premium Tail G cement w/1377sx (283bbls, 1583cf) 15.8ppg, 1.15 yield. Dropped plug & displaced with 116bbl FW. Bumped plug w/500psi. 140bbls good cmt back to surface. WOC. RD csg tools.

8/28/2023 - WOC. Test 20" surface csg to 600psi/30mins. Good test. Walk rig to RU 649H & walk rig back to RU 644H.

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 (email chain attached).**

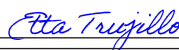
8/30 - 8/31/2023 - TIH to 518'. Circulate & clean hole for cmt plugback. RU cmt equip. Mix & pump Premium Class G cmt w/525sx (88bbls, cf) 16.8ppg, 1.01yield. WOC. Estimated TOC @ 314'.

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

Etta Trujillo

Title Regulatory Specialist

Signature



Date 09/1/2023

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

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	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: 3003931430	Well Status: Drilling Well	Operator: LOGOS OPERATING LLC

Subsequent Report

Sundry ID: 2749215

Type of Submission: Subsequent Report

Date Sundry Submitted: 09/01/2023

Date Operation Actually Began: 06/05/2023

Type of Action: Drilling Operations

Time Sundry Submitted: 12:49

Actual Procedure: 6/5 - 6/9/2023 - RU Mo-Te equipment. PU 12-1/4" BHA. Drill 12-1/4" surface hole f/25' t/347' (TD)'. Spud well @ 15:00 on 6/7/23. TOO. PU 12-1/4" BHA, drill f/0 t/58'. SDFN. 6/12 - 6/16/2023 - Continue to drill 12-1/4" hole to 347'. Circ and POOH. Pick up 17-1/2" bit and Ream/open hole from 12-1/4" to 17-1/2" hole f/58' t/347'. TOO. MU 26" PDC bit. Ream/Open hole from 17-1/2" to 26" surface hole f/0 t/347'. Circulate. POOH t/239'. SDFN. 6/17 - 6/22/2023 - Wash & ream f/239' t/347'. Circulate. Lay down BHA. RU csg crew. RIH w/5jts, 20", 94# J-55, BTC to 175', could not pass 175'. Attempted 3 times. TOO, lay down 5jts 20" casing. RD MoTe equipment. Placed temporary metal plate over surface hole and field fence around the perimeter with well sign. 8/20 -8/24/2023 - MIRU H&P rig. Prep for spud, layout BHA. Remove cellar cover. PU 17.5" cleanout assembly. RIH to 342'. Wash & ream. Tag bottom @ 376' (New RKB). Circulate & condition. Laydown 17.5 bit. MU 26" bit. 8/25 - 8/26/2023 - RIH w/26" tri-cone bit, clean out assembly to 350'. Wash & ream. TOO. PU shoe track & RIH w/20" casing, 94#, J-55, BTC to 293', working & washing casing to 298', would not go deeper. POOH, laydown 7jts. RD csg crew. PU BHA #2, wash & ream old hole to 376'. Drill 26" surface hole f/376' t/381' (TD)(to fit new casing tally). Circulate & condition hole. TOO. Laydown BHA. RU csg tools. 8/27/2023 - RIH w/7jts, 20"csg, 94#, J-55, BTC, landed @ 381'. Circulate. Mix & pump Premium Tail G cement w/1377sx (283bbls, 1583cf) 15.8ppg, 1.15 yield. Dropped plug & displaced with 116bbl FW. Bumped plug w/500psi. 140bbls good cmt back to surface. WOC. RD csg tools. 8/28/2023 - WOC. Test 20" surface csg to 600psi/30mins. Good test. Walk rig to RU 649H & walk rig back to RU 644H. 8/29/2023 - PU 17.5" BHA. TIH tag cmt @ 331'. Wash & ream to 381'. Drill 17.5" hole f/381' t/520'. Circ. TOO. 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 (email chain attached). 8/30 -8/31/2023 - TIH to 518'. Circulate & clean hole for cmt plugback. RU cmt equip. Mix & pump Premium Class G cmt w/525sx

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: 3003931430	Well Status: Drilling Well	Operator: LOGOS OPERATING LLC

(88bbbls, cf) 16.8ppg, 1.01yield. WOC. Estimated TOC @ 314'.

SR Attachments

PActual Procedure

3160_5_Rosa_Unit_644H_Spud_Subsequent_Report_20230828_20230901124601.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 01, 2023 12:49 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: 09/05/2023

Signature: Matthew Kade

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

From: Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Sent: Tuesday, August 29, 2023 9:25 PM
To: Lucero, Virgil S <vlucero@blm.gov>; drilling@logosresourcesllc.com>
Cc: Ryan Haddow <rhaddow@logosresourcesllc.com>; Vanessa Fields <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>
Sent: Tuesday, August 29, 2023 9:13:52 PM
To: drilling@logosresourcesllc.com>; Kuehling, Monica, EMNRD <monica.kuehling@emnrd.nm.gov>
Cc: Ryan Haddow <rhaddow@logosresourcesllc.com>; Vanessa Fields <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

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

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

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

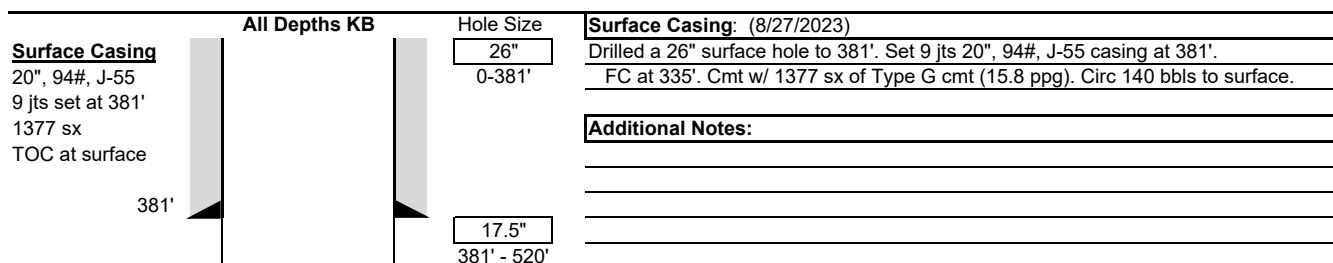
Drilling Consultant
Cell # 318-286-8400
Rig # 505-491-0666
drilling@logosresourcesllc.com



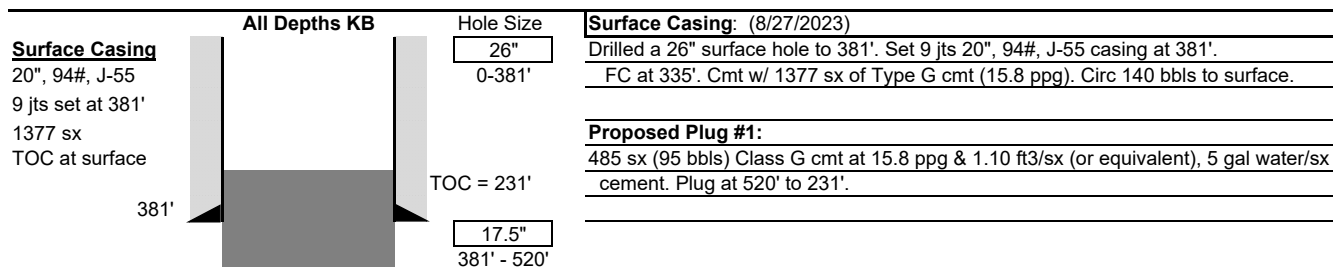
Well Name: Rosa Unit 644H
 Location: Sec 19, T31N, R05W 956' FNL & 482' FWL
 County: Rio Arriba, NM
 API #: 30-039-31430
 Co-ordinates: Lat 36.889703°N Long 107.406129°W (NAD 83)
 Elevations: GROUND: 6305'
 KB: 30'
 Depths (KB): PBTD: NA
 TD: 520'

Prepared By: 8/29/2023 Haddow
 Reviewed By:
 Last Updated:
 Spud Date: 8/29/2023
 Completion Date: NA
 Last Workover Date: NA

Current Wellbore Schematic



Proposed Wellbore Schematic



Objective:

- Plug back to 231' inside 20" casing. Kick off cement plug at 391' and sidetrack well.

Prior to Job:

- Notify BLM.

Procedure:

- Mobilize cement equipment to location.
- P/U 5" drill pipe open ended & TIH t/ 520'
- Circulate 1.5 BU
- Rig up cementing equipment. Test lines.
- Pump ~485 sx Class G cmt at 15.8 ppg & 1.10 cuft/sx (or equivalent), with ~52 bbls of mix water. No displacement.
- POOH to 200'.
- Break circulation and pump a nerf ball down drill string. Circulate BU and circulate at a low rate for ~2 hrs.
- POOH to surface.
- WOC ~12 hrs
- P/U 17.5" BHA.
- TIH to 200'.
- Wash down and tag top of cement. Drill cement to 391'.
- Sidetrack well per ST#1 well plan.

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 262240

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 262240
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

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