

Form 3160-4  
(June 2019)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2021

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
 b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing  
 Other: \_\_\_\_\_

2. Name of Operator  
LOGOS Operating, LLC

3. Address  
2010 Afton Place, Farmington, NM 87401

3a. Phone No. (Include area code)  
(505) 278-8720

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 1068' FNL 289' FEL, NENE A, Sec 25 T31N R06W

At top prod. interval reported below

At total depth 1378' FNL 1215' FWL, SWNW E, Sec 28 T31N R05W

14. Date Spudded  
4/27/2019

15. Date T.D.  
Reached 07/26/2021

16. Date Completed 9/03/2021  
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.  
NMSF078769

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
NMNM78407E

8. Lease Name and Well No.  
ROSA UNIT 656H

9. API Well No.  
30-039-31383

10. Field and Pool or Exploratory  
Basin Mancos

11. Sec., T., R., M., on Block and  
Survey or Area Sec 25, T31N, R6W

12. County or Parish  
Rio Arriba County

13. State  
New Mexico

17. Elevations (DF, RKB, RT, GL)\*  
6372'

18. Total Depth: MD 18,240'  
TVD 7,008'

19. Plug Back T.D.: MD 18,130'  
TVD 7,007'

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
 Was DST run? ☒ No ☐ Yes (Submit report)  
 Directional Survey? ☐ No ☒ Yes (Submit copy)

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8" J-55	54.5#	0'	331'		340 sks	71 bbls	surface	20 bbls
12-1/4"	9-5/8" N-80	43.5#	0'	6358'		1628 sks	597 bbls	surface	114 bbls (DV @ 4704', 3138')
8-1/2"	5-1/2" P-110	20.0#	0'	18,219'		2802 sks	785 bbls	TOC @ 6928' per CBL	0

## 24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
Pending								

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mancos	6157' VD	7764' VD	18,088' MD to 7,300' MD	0.35" / 6SPF	2496	open
B)						
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable
18,088' MD - 7,300' MD	Frac'd 53 stages of 24,703,570# 40/70 AZ sand/100# Mesh. 626,577bbls of fluid.

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/03/2021	9/03/2021	12	→	0	300	288	n/a	n/a	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
14/64	n/a	1630	→	0	1544 mcf/d	960bwpd	n/a	Producing	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Nacimiento	0	0			
Ojo Alamo	2518				
Kirtland	2636				
Fruitland	3110				
Pictured Cliffs	3453				
Lewis	3557				
Chacra	4645				
Cliff House	5485				
Menefee	5533				
Point Lookout	5767				
Mancos	6237				

32. Additional remarks (include plugging procedure).

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Etta Trujillo Title Regulatory Specialist  
 Signature Etta Trujillo Date 9/20/2021

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.

(Continued on page 3)

(Form 3160-4, page 2)

**From:** [blm-afmss-notifications@blm.gov](mailto:blm-afmss-notifications@blm.gov)  
**To:** [Etta Trujillo](#)  
**Subject:** Well Name: ROSA UNIT, Well Number: 656H, Notification of Well Completion Acceptance  
**Date:** Wednesday, November 10, 2021 2:49:51 PM

## The Bureau of Land Management

### Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **656H**
- US Well Number: **3003931383**
- Well Completion Report Id: **WCR2021111081253**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

**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**

ACKNOWLEDGMENTS  
  
Action 61486

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 61486
	Action Type: [C-105] Well (Re)Completion (C-105)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS  
  
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	11/16/2021