

Form 3160-4
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2021

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

| | |
|---------------------|------------|
| 5. Lease Serial No. | NMSF078769 |
|---------------------|------------|

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other

b. Type of Competition ☒ 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

| | |
|--------------------------------------|--|
| 6. If Indian, Allottee or Tribe Name | |
|--------------------------------------|--|

| | |
|--------------------------------------|------------|
| 7. Unit or CA Agreement Name and No. | NMNM78407E |
|--------------------------------------|------------|

| | |
|----------------------------|----------------|
| 8. Lease Name and Well No. | ROSA UNIT 654H |
|----------------------------|----------------|

| | |
|-----------------|--------------|
| 9. API Well No. | 30-039-31384 |
|-----------------|--------------|

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

At surface 1053' FNL 298' FEL, NENE A, Sec 25 T31N R06W

At top prod. interval reported below

At total depth 73' FSL 1209' FWL, SWSW M, Sec 21 T31N R05W

| |
|--|
| 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 |
|---|-------------------------|

14. Date Spudded
5/2/2019

15. Date T.D.
Reached 07/11/2021

| | |
|--------------------------------|--|
| 16. Date Completed | 9/03/2021 |
| <input type="checkbox"/> D & A | <input checked="" type="checkbox"/> Ready to Prod. |

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

18. Total Depth: MD 18,430'
TVD 7,027'

| | | |
|---------------------|-----|---------|
| 19. Plug Back T.D.: | MD | 18,324' |
| | TVD | 7,023' |

| | |
|----------------------------|-----------|
| 20. Depth Bridge Plug Set: | MD TVD |
|----------------------------|-----------|

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

CBL

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*)

[illegible]

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 | 6174' VD | 7781' VD | 18,283' MD to 7,502' MD | 0.35" / 6SPF | 2544 | open |
| B) | | | | | | | |
| C) | | | | | | | |
| D) | | | | | | | |

[illegible]

| Depth Interval | Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable |
|------------------------|--|
| 18,283' MD - 7,502' MD | Frac'd 53 stages of 24,840,544# 40/70 AZ sand/100# Mesh. 629,670bbls of fluid, |
| | |
| | |

28. Production - Interval A

| | | | | | | | | | |
|----------------------------------|--------------------------------|---------------------|----------------------|--------------|-----------------------|-----------------------|----------------------------------|--------------------------|------------------------------|
| Date First Produced 9/03/2021 | Test Date 9/03/2021 | Hours Tested 12 | Test Production ➡ | Oil BBL 0 | Gas MCF 1579 | Water BBL 840 | Oil Gravity Corr. API. n/a | Gas Gravity n/a | Production Method Flowing |
| Choke Size 18/64 | Tbg. Press. Flwg. SI n/a | Csg. Press. 2158 | 24 Hr. Rate ➡ | Oil BBL 0 | Gas MCF 2736 mcf/d | Water BBL 912 bwpd | Gas/Oil Ratio n/a | Well Status 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 | 2528 | | | | |
| Kirtland | 2644 | | | | |
| Fruitland | 3131 | | | | |
| Pictured Cliffs | 3478 | | | | |
| Lewis | 3591 | | | | |
| Chacara | 4710 | | | | |
| Cliff House | 5545 | | | | |
| Menefee | 5588 | | | | |
| Point Lookout | 5828 | | | | |
| Mancos | 6320 | | | | |

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 9/14/2021

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
To: [Etta Trujillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 654H, Notification of Well Completion Acceptance
Date: Wednesday, November 10, 2021 2:42:51 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **654H**
- US Well Number: **3003931384**
- Well Completion Report Id: **WCR2021111081171**

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 61475

ACKNOWLEDGMENTS

| | |
|---|---|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 61475 |
| | 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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Energy, Minerals and Natural Resources
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CONDITIONS

Action 61475

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| | |
|---|---|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 61475 |
| | Action Type: [C-105] Well (Re)Completion (C-105) |

CONDITIONS

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