

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB
No. 1004-0137 Expires:
December 31, 2024

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. | NMSF078767 |
| 6. If Indian, Allottee or Tribe Name | |

| | | |
|--|---|--|
| SUBMIT IN TRIPLICATE - Other instructions on page 2 | | 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 19D |
| 2. Name of Operator LOGOS OPERATING, LLC | | 9. API Well No. 30-039-30781 |
| 3a. Address 2010 AFTON PLACE, FARMINGTON NM 87401 | 3b. Phone No. (include area code) 505 278-8720 | 10. Field and Pool or Exploratory Area BLANCO MESAVERDE/BASIN DAKOTA/BASIN MANCOS |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) UNIT L, SECTION 24, T31N R06W, 1980' FSL & 660' FWL | | 11. Country or Parish, State RIO ARRIBA, NEW MEXICO |

| 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 | | Wellbore Isolation / Pressure Monitoring |
| <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 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.)

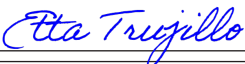
8/25/2023 - MIRU. NU WH. NU BOPE. Scan production tbg out of well. TIH w/5-1/2" string mill to 5000'. SDFW.

8/28/2023 - Continue to TIH w/5-1/2" string mill to 8031'. TOO H & lay down mill. TIH w/5-1/2" CBP & packer. Set CBP @ 7981'. Set packer @ 7946'. Pressure test CBP to 1000psi. TOO H with packer. SDFN.

8/29/2023 - TIH w/5-1/2" CR & packer, set CR @ 6910'. Pressure Test CR to 1000psi/10mins. Test good. Release packer. TOO H. RU equipment to run downhole gauges. SDFN.

8/30/2023 - MU downhole gauge BHA. TIH w/143jts, 2-3/8", J-55, 4.7# and 2-3/8", 72jts, N-80 set @ 6913', banding 1/4" line to tubing. Land in CR @ 6910', pump water down tbg to flush top of retainer while sting in CR. ND BOPE. NU WH. Tied in gauges to surface panel. RD RR.

Well is isolated due to PAD 29 completions.

| | | |
|--|--|--------------------------------|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Etta Trujillo | | Title Regulatory Specialist |
| Signature  | | Date 10/10/2023 |

| 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

(Instructions on page 2)

| | | |
|----------------------------|--|---|
| Well Name: ROSA UNIT | Well Location: T31N / R6W / SEC 24 / NWSW / 36.8833 / -107.42088 | County or Parish/State: RIO ARRIBA / NM |
| Well Number: 19D | Type of Well: CONVENTIONAL GAS WELL | Allottee or Tribe Name: |
| Lease Number: NMSF078767 | Unit or CA Name: ROSA UNIT, ROSA UNIT--MV | Unit or CA Number: NMNM78407A, NMNM78407E |
| US Well Number: 3003930781 | Well Status: Producing Gas Well | Operator: LOGOS OPERATING LLC |

Subsequent Report

Sundry ID: 2755693

Type of Submission: Subsequent Report

Type of Action: Other

Date Sundry Submitted: 10/10/2023

Time Sundry Submitted: 09:57

Date Operation Actually Began: 08/25/2023

Actual Procedure: 8/25/2023 - MIRU. NU WH. NU BOPE. Scan production tbg out of well. TIH w/5-1/2" string mill to 5000'. SDFW. 8/28/2023 - Continue to TIH w/5-1/2" string mill to 8031'. TOOH & lay down mill. TIH w/5-1/2" CBP & packer. Set CBP @ 7981'. Set packer @ 7946'. Pressure test CBP to 1000psi. TOOH with packer. SDFN. 8/29/2023 - TIH w/5-1/2" CR & packer, set CR @ 6910'. Pressure Test CR to 1000psi/10mins. Test good. Release packer. TOOH. RU equipment to run downhole gauges. SDFN. 8/30/2023 - MU downhole gauge BHA. TIH w/143jts, 2-3/8", J-55, 4.7# and 2-3/8", 72jts, N-80 set @ 6913', banding 1/4" line to tubing. Land in CR @ 6910', pump water down tbg to flush top of retainer while stinging in CR. ND BOPE. NU WH. Tied in gauges to surface panel. RD RR. Well is isolated due to PAD 29 completions.

SR Attachments

Actual Procedure

3160_5_Rosa_Unit_19D_Wellbore_Isolation_Subsequent_Report_20230830_20231010095654.pdf

| | | |
|----------------------------|--|---|
| Well Name: ROSA UNIT | Well Location: T31N / R6W / SEC 24 / NWSW / 36.8833 / -107.42088 | County or Parish/State: RIO ARRIBA / NM |
| Well Number: 19D | Type of Well: CONVENTIONAL GAS WELL | Allottee or Tribe Name: |
| Lease Number: NMSF078767 | Unit or CA Name: ROSA UNIT, ROSA UNIT--MV | Unit or CA Number: NMNM78407A, NMNM78407E |
| US Well Number: 3003930781 | Well Status: Producing Gas Well | 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: OCT 10, 2023 09:57 AM

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: 10/10/2023

Signature: Matthew Kade

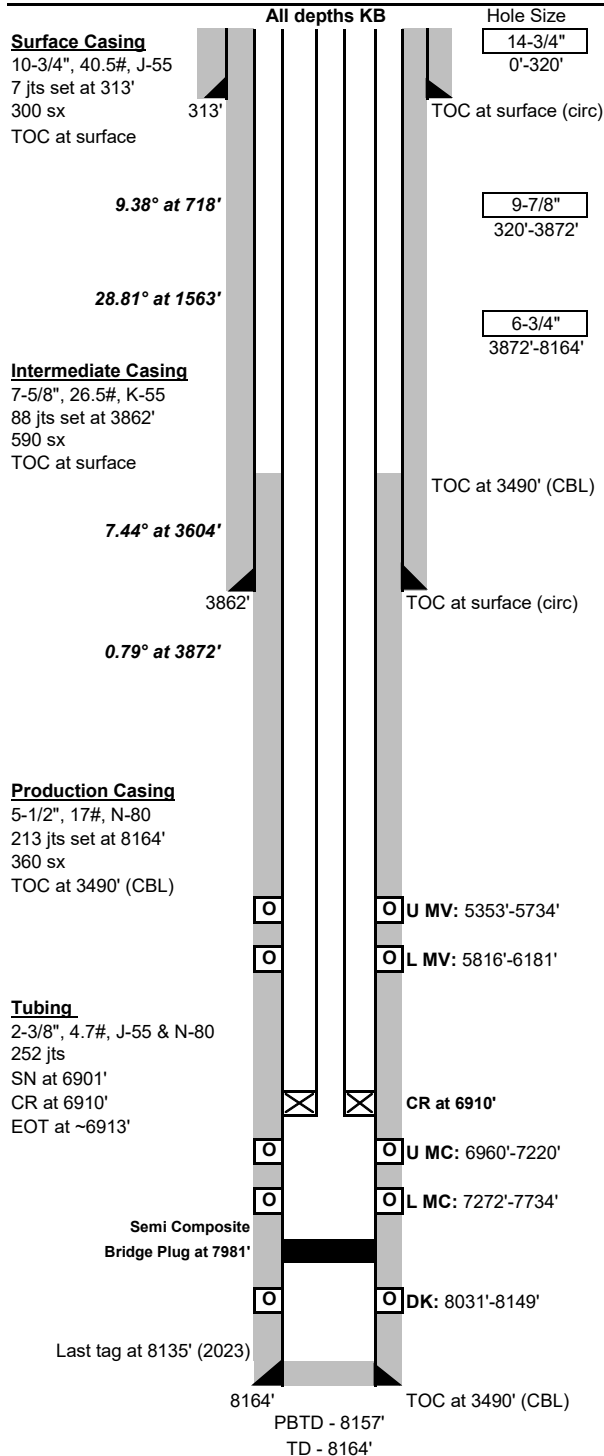


Wellbore Schematic

Well Name: Rosa Unit 019D
 Location: Unit L Sec 24, T31N, R06W 1980' FSL & 660' FWL
 County: Rio Arriba, NM
 API #: 30-039-30781
 Co-ordinates: Lat 36.8833084 Long -107.4208908 NAD83
 Elevations: GROUND: 6311'
 KB: 6325'
 PBTD: 8157'
 TD: 8164'

Last Updated: 7/13/2023 Moss
 Reviewed by:
 Spud Date: 8/25/2009
 Completion Date: 11/16/2009
 Last Workover Date: 5/27/2011
 Last Updated: 9/5/2023 Sprague

DIRECTIONAL WELLBORE



| | |
|--|--------------------|
| Surface Casing: (8/25/2009) | |
| Drilled a 14-3/4" surface hole to 320'. Set 7 jts 10-3/4", 40.5#, J-55 csg at 313'. Cmt w/ 300 sx Type 3 cmt (539 ft3, 13.5 ppg, 1.796 yield), circ 60 bbls to surface. | |
| Intermediate Casing: (9/4/2009) | |
| Drilled a 9-7/8" intermediate hole to 3872'. Set 88 jts 7-5/8", 26.4#, K-55 csg at 3862'. Cmt w/ 490 sx Extendcem cmt (1338 ft3, 11.5 ppg, 2.73 yield). Tail w/ 100sx Premium cmt (118 ft3, 15.6 ppg, 1.18 yield). Circ 100 bbls cmt to surface. | |
| Production Casing: (9/9/2007) | |
| Drilled a 6-3/4" production hole to 8164'. Set 213 jts 5-1/2", 17#, N-80 csg at 8164'. Cmt w/ 360 sx Fraccem cmt (504 ft3, 13.1 ppg, 1.4 yield). TOC at 3490' (CBL 9/16/2009). | |
| Tubing: (05/2011) | Length (ft) |
| KB | 14 |
| (2) 2-3/8", 4.7#, J-55 pup jts (10', 6') | 16 |
| (72) 2-3/8", 4.7#, N-80 tbj jts | 2328 |
| (143) 2-3/8", 4.7#, J-55 tbj jts | 4543 |
| (1) 1.78" SN at 6901' | 1 |
| (1) P-4000C Gauge Assembly | 5 |
| (1) 2-3/8" x 4' pup joint | 4 |
| (1) 2-3/8" cement retainer stinger | 2 |
| Set at: | 6913 ft |
| Artificial Lift: | |
| Plunger lift | |
| Perforations: (11/2009) | |
| DK: (8031'-8149') 78, 034" holes. 8031', 35, 39, 43, 47, 51, 55, 59, 63, 69, 77, 81, 85, 89, 93, 97, 8101', 05, 13, 17, 21, 25, 29, 33, 47, 8149'. Acidize w/ 1993 gal 15% HCL acid. Frac w/ 4,971# 100 mesh sand & 64,277# 40/70 sand in 2519 bbls frac fluid. | |
| L MC (7272'-7734') 81, 0.34" holes. 7272', 82, 92, 99, 7308', 18, 28, 38, 48, 56, 65, 74, 86, 97, 7407', 14, 24, 34, 44, 7531', 43, 63, 7703', 11, 17, 25, 7734'. Acidize w/ 2431 gal 15% FE acid. Frac w/ 6,396# 100 mesh sand & 98,292# 40/70 sand in 10,098 gal frac fluid. | |
| U MC (6960'-7220') 81, 0.34" holes. 6960', 70, 80, 90, 7000', 10, 20, 30, 40, 50, 60, 70, 80, 90, 7100', 10, 20, 30, 40, 50, 60, 70, 80, 90, 7200', 10, 7220'. Acidize w/ 1982 gal 15% FE acid. Frac w/ 6406# 100 mesh sand & 92,349# 40/70 sand in 10,160 gal frac fluid. | |
| L MV (5816'-6181') 69, 0.34" holes. 5816', 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 5900', 04, 08, 12, 16, 20, 24, 28, 32, 36, 40, 50, 54, 60, 64, 68, 80, 82, 96, 98, 6000', 12, 14, 16, 21, 40, 42, 44, 46, 58, 60, 68, 70, 72, 79, 88, 90, 92, 6103', 16, 18, 20, 36, 39, 47, 64, 68, 6181'. Acidize w/ 2000 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 13,000 gal frac fluid. | |
| U MV (5353'-5734') 63, 0.34" holes. 5353', 59, 61, 69, 87, 93, 5405', 07, 19, 27, 39, 55, 62, 78, 92, 94, 96, 98, 5522', 24, 42, 44, 66, 68, 70, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 5600', 02, 04, 06, 08, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 5714', 16, 18, 20, 22, 26, 28, 30, 32, 5734'. Acidized w/ 2000 gal 15% HCL. Frac w/ 81,120# 20/40 sand in 13,000 gal frac fluid. | |
| Formations: | |
| Lewis | 3682' Mancos 6270' |
| Cliff House | 5562' Dakota 8031' |
| Point Lookout | 5814' |
| Additional Notes: | |
| (11/2009) Initial Completion. Perf'd & stim'd MV, MC, & DK formations. Trimming upon completion | |
| (05/2010) Tagged fill at 8117' w/ slickline. CO to PBTD at 8157'. Ran spinner survey. EOT at 8100' | |
| (05/2011) Tag fill at 8096'. Pull tbj, no visible scale. CO to PBTD at 8157'. Ran another spinner survey. Set EOT at 8075'. | |
| (08/2023) Wellbore isolation/ pressure monitoring for Pad 29 offset completions. | |
| Tagged fill at 8135'. Scanned tbj out: N-80 - 101Y, 6B, 1G, 1R; J-55 - 85Y, 45B, 10G, 3R. Minor scale buildup on bottom half of string, LD jt #251 w/ plunger & bumper string. F-nipple had 1-1/16" of scale buildup. Set 5-1/2" Semi-CBP at 7981'. Set CR at 6910'. TIH 2-3/8" tbj w/ pressure gauge assembly and stung into CR. EOT at 6913'. Tied in gauge line to surface panel. | |

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 274363

CONDITIONS

| | |
|---|--|
| Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401 | OGRID: 289408 |
| | Action Number: 274363 |
| | Action Type: [C-103] Sub. Workover (C-103R) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|-----------|----------------|
| kelly.roberts | None | 2/27/2024 |