

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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. **NMSF078771**
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. ROSA UNIT, ROSA UNIT--DK/NMNM78407B, NMNM78
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/98
2. Name of Operator LOGOS OPERATING LLC		9. API Well No. 3003923265
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/Blanco Mesaverde
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 23/T31N/R6W/NMP		11. Country or Parish, State RIO ARRIBA/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	Wellbore Isolation
<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.)

09/07/2023 - MIRU. ND WH. STRIP TUBING HANGER OFF STRING. NU BOPE, TEST BOPE. GOOD TEST. PU POWER SWIVEL, 4 PACKER @ 7676, FAIL TO RELEASE PACKER, SECURE WELL, SDFW.

09/11/2023 - RU WIRELINE. RIH FREEPOINT PACKER @ 7604, RIH DOWN TO F-NIPPLE @ 7792. RIH 1 3/8 CHEM CUTTER, FAIL TO CUT @ 7600 & 2ND ATTEMPT @ 7532, SECURE WELL SDFN

09/12/2023 - RU WIRELINE. RIH 1 11/16 CHEMICAL CUTTER DOWN TO CUT @ 7524, RD WIRELINE, SCAN OUT 231 JOINTS OF TUBING, LAST JOINT WAS 15 CHEMICAL CUT OFF, PU 4 OVERSHOT, SECURE WELL, SDFN

9/13 9/18/2023 - PU TUBING W/OVERSHOT, JAR ON FISH. PU POWER SWIVEL, CIRC. MILL TO TOP OF FISH @ 7452. TOOH JUNK MILL. TIH W/OVERSHOT. SDFN.

09/19/2023 TIH OVERSHOT TO FISH TOP @ 7452, LATCH ON TO FISH, JAR FREE, TOOH LAY DOWN FISH, TIH 4 CBP & PACKER, SET CBP @ 6260, SET PACKER 10 ABOVE @ 6250, PRES TEST CBP TO 1000 PSI FOR 10 MINS, GOOD TEST, RELEASE PACKER, LDN 34 JNTS TBG, SDFN

09/20/2023 TOOH PACKER, LDN DRILL COLLARS, WASHPIPE, TIH w/189 JTS, 2-3/8" TBG, J-55, 4.7# LANDED @ 6236', SN @ 6194'

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) ETTA TRUJILLO / Ph: (505) 324-4154	Title Regulatory Specialist
Signature	Date 10/06/2023

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

LOAD WELLBORE, PRESSURE TEST CASING TO 500 PSI, GOOD TEST, ND BOPE, NU WH, RDMO

WELL IS ISOLATED DUE TO PAD 29 COMPLETIONS.

Location of Well

0. SHL: NWSW / 1840 FSL / 790 FWL / TWSP: 31N / RANGE: 6W / SECTION: 23 / LAT: 36.88268 / LONG: -107.43803 (TVD: 0 feet, MD: 0 feet)

BHL: NWSW / 1840 FSL / 790 FWL / TWSP: 31N / SECTION: / LAT: 36.88268 / LONG: 107.43803 (TVD: 0 feet, MD: 0 feet)

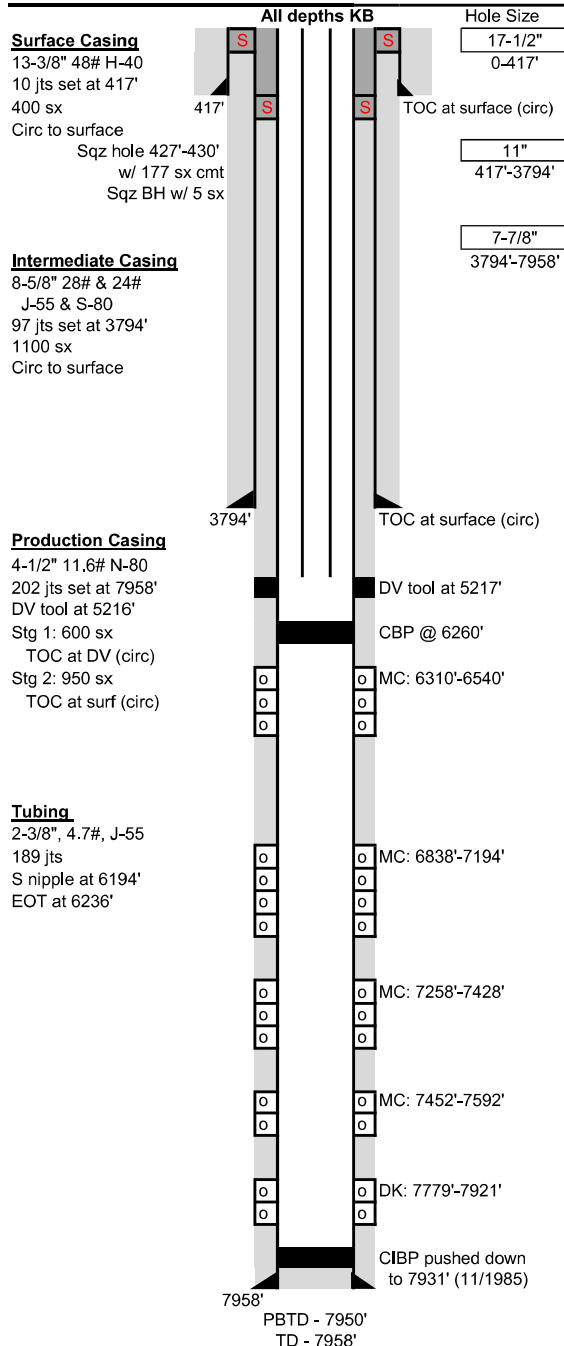


Proposed Wellbore

Well Name: Rosa Unit 098
 Location: L-23-31N-06W 1840' FSL & 790' FWL
 County: Rio Arriba, NM
 API #: 30-039-23265
 Co-ordinates: Lat 36.8829536, Long -107.4384918 NAD1983
 Elevations: GROUND: 6267'
 KB: 6279'
 PBDT: 7950'
 TD: 7958'

Date Prepared: 7/10/2023 Moss
 Reviewed By: 7/11/2023 Peace
 Last Updated: 7/18/2023 Peace
 Spud Date: 9/13/1983
 Completion Date: 12/21/1983
 Last Workover Date: 9/7/2023

VERTICAL WELLBORE



Surface Casing: (9/14/1983)
 Drilled a 17-1/2" surface hole to 417'. Set 10 jts 13-3/8", 48#, H-40 csg at 417'.
 Cmt'd w/ 400 sx Class B cmt (480 ft3, 15.6 ppg), Circ 20 bbls cmt to surface,

Intermediate Casing: (10/5/1983)
 Drilled an 11" intermediate hole to 3794'. Set 97 jts 8-5/8" csg at 3794', (15 jts 28# J-55, 70 jts 24# J-55, 12 jts 28# S-80). Cmt'd w/ 300 sx Class B 65/35 poz w/ 6% gel (12.2 ppg).
 Tailed w/ 600 sx Class B 50/50 poz w/ 6% gel (13.3 ppg) & 200 sx Class B cmt (15.6 ppg).
 Circ 40 bbls to surface.

Production Casing: (10/25/1983)
 Drilled a 7-7/8" production hole to 7958'. Set 202 jts 4-1/2", 11.6#, N-80 csg at 7958'.
 DV tool at 5217'. Cmt stg 1 w/ 500 sx Class B 50/50 poz cmt (13.3 ppg) followed by 100 sx Class B neat cmt (15.6 ppg). Circ 20 bbls. Cmt'd Stg 2 w/ 850 sx Class B 65/35 poz cmt (12.2 ppg) followed by 100 sx Class B neat (15.6 ppg) cmt, Circ 20 bbls to surf.
 11/1985: Identified csg hole from 427'-430'. Sqz'd w/ 120 sx (140 ft3) Class B cmt, circ to surf.
 Hesitation sqz w/ another 57 sx (67ft). BH wouldn't hold pressure so sqz'd w/ 5 sx (5.9 ft3) cmt.

Tubing:	Length (ft)
KB	12
(189) 2-3/8" 4.7# J-55 8rd tbq jts	6192
(1) S Nipple at 6194'	1
(1) 2-3/8" tbq jt w/ 1/2 MS w/ exp check	31

Set at: 6236 ft

Artificial Lift:
 NA

Perforations: (12/1983)
DK: (7779'-7921') 2 SPF, 80, 0.38" holes. 7779'-7797', 7827'-7838', 7868'-7872', & 7914'-7921'.
 Frac w/ 205,000# 20/40 sand in 95,000 gal 50# x-link gel
MC: (7452'-7592') 1 SPF, 140, 0.38" holes. Frac'd this zone multiple times.
 1st frac: H2O frac w/ 50,000 gal 30# x-link gel.
 2nd frac: 32,680# of 20/40 sand in 26,340 gal 30# gel. Screened out at 6200 psi.
MC: (7258'-7428') 1 SP2F, 86, 0.38" holes.
 Frac w/ 65,000# 20/40 sand in 95,000 gal 50# x-link gel.
MC: (6838'-7194') 1 SP2F, 108, 0.39" holes. 6838'-6862', 6864'-6886', 6888'-6910', 6912'-6934', 6936'-6958', 6960'-6982', 6983'-7003', 7010'-7026', 7028'-7050', 7052'-7074' & at 1 SP2F, 55, 0.29" holes. 7076'-7098', 7100'-7122', 7124'-7146', 7148'-7170, & 7172'-7194'.
 Frac w/ 150,000# 20-40 sand in 165,000 gal 50# x-link gel.
MC: (6310'-6540') 1 SP2F, 105, 0.39" holes. 6310'-6324', 6326'-6348', 6350'-6372', 6374'-6396', 6398'-6416', 6420'-6444', 6446'-6468', 6470'-6492', 6494'-6516', 6518'-6540'.
 Frac w/ 64,000# 20/40 sand in 89,572 gal 50# x-link gel.

Formations:	MD	
Pictured Cliffs	3100'	Greenhorn 7592'
Mesaverde	5277'	Dakota 7823'
Gallup	6310'	

Additional Notes:
12/1983 Initial completion. Perf'd & stim'd MC & DK. CO to PBDT 7950'. Set pkr at 7691' & sliding sleeve at 7590'-7593'. Single 2-3/8" tbq string landed at 7929'.
11/1985 Csg Repair. Couldn't release packer at 7691'. Chem cut tbq at 6566'. Jarred pkr free w/ 62k # & pull fish consisting of tbq, sliding sleeve, & pkr. Set BP at 6184' & isolated csg holes between 427'-430'. Sqz w/ 177 sx cmt. DO cmt & PT csg to 1050 psig, held. PT BH to 550 psig, pressured up immediately. Sqz'd BH w/ 5 sx cmt. PT csg again to 2200#, held. PT BH to 400#, held. DO BP & pushed down to 7931'. Ran 2-3/8" tbq w/ pkr & sliding sleeve. EOT at 7880'.
9/2023 Wellbore Isolation. Set CBP at 6260'. Landed TBG at 6236'.

Well Name: ROSA UNIT	Well Location: T31N / R6W / SEC 23 / NWSW / 36.88268 / -107.43803	County or Parish/State: RIO ARRIBA / NM
Well Number: 98	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078771	Unit or CA Name: ROSA UNIT, ROSA UNIT--DK	Unit or CA Number: NMNM78407B, NMNM78407E
US Well Number: 3003923265	Well Status: Producing Gas Well	Operator: LOGOS OPERATING LLC

Subsequent Report

Sundry ID: 2755225

Type of Submission: Subsequent Report

Type of Action: Other

Date Sundry Submitted: 10/06/2023

Time Sundry Submitted: 09:17

Date Operation Actually Began: 09/07/2023

Actual Procedure: 09/07/2023 - MIRU. ND WH. STRIP TUBING HANGER OFF STRING. NU BOPE, TEST BOPE. GOOD TEST, PU POWER SWIVEL, 4 1/2" PACKER @ 7676', FAIL TO RELEASE PACKER, SECURE WELL, SDFW. 09/11/2023 - RU WIRELINE. RIH FREEPOINT PACKER @ 7604', RIH DOWN TO F-NIPPLE @ 7792'. RIH 1 3/8" CHEM CUTTER, FAIL TO CUT @ 7600' & 2ND ATTEMPT @ 7532', SECURE WELL SDFN 09/12/2023 - RU WIRELINE. RIH 1 11/16" CHEMICAL CUTTER DOWN TO CUT @ 7524', RD WIRELINE, SCAN OUT 231 JOINTS OF TUBING, LAST JOINT WAS 15' CHEMICAL CUT OFF, PU 4 1/2" OVERSHOT, SECURE WELL, SDFN 9/13 - 9/18/2023 - PU TUBING W/OVERSHOT, JAR ON FISH. PU POWER SWIVEL, CIRC. MILL TO TOP OF FISH @ 7452'. TOO H JUNK MILL. TIH W/OVERSHOT. SDFN. 09/19/2023 - TIH OVERSHOT TO FISH TOP @ 7452', LATCH ON TO FISH, JAR FREE, TOO H LAY DOWN FISH, TIH 4 1/2 CBP & PACKER, SET CBP @ 6260', SET PACKER 10' ABOVE @ 6250', PRES TEST CBP TO 1000 PSI FOR 10 MINS, GOOD TEST, RELEASE PACKER, LDN 34 JNTS TBG, SDFN 09/20/2023 - TOO H PACKER, LDN DRILL COLLARS, WASHPIPE, TIH w/189 JTS, 2-3/8" TBG, J-55, 4.7# LANDED @ 6236', SN @ 6194' LOAD WELLBORE, PRESSURE TEST CASING TO 500 PSI, GOOD TEST, ND BOPE, NU WH, RDMO WELL IS ISOLATED DUE TO PAD 29 COMPLETIONS.

Well Name: ROSA UNIT

Well Location: T31N / R6W / SEC 23 /
NWSW / 36.88268 / -107.43803County or Parish/State: RIO
ARRIBA / NM

Well Number: 98

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF078771

Unit or CA Name: ROSA UNIT, ROSA
UNIT--DKUnit or CA Number:
NMNM78407B, NMNM78407E

US Well Number: 3003923265

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 06, 2023 09:16 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: 10/06/2023

Signature: Matthew Kade

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 273610

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 273610
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
kelly.roberts	Per NOI approval dated 9/29/2023, A new NOI must be approved prior to removing Bridge Plug.	2/27/2024