

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. **NMSF078764**

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 LLC**3a. Address **2010 AFTON PLACE, FARMINGTON, NM 87401** 3b. Phone No. (include area code)
(505) 278-87204. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 19/T31N/R5W/NMP7. If Unit of CA/Agreement, Name and/or No.
ROSA UNIT/NMNM78407E8. Well Name and No. **ROSA UNIT/646H**9. API Well No. **3003931323**10. Field and Pool or Exploratory Area
BASIN MANCOS/BASIN MANCOS11. 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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 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 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 detennined that the site is ready for final inspection.)

Please see attached P&A Procedure for Rosa Unit 646H. Final Reclamation will be completed when the pad is Final Abandoned.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
DACYE SHULL / Ph: (505) 324-4145Title **REGULATORY TECH**

Signature



Date

08/17/2023**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

MATTHEW H KADE / Ph: (505) 564-7736 / ApprovedTitle **Petroleum Engineer**Date **08/17/2023**

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 **FARMINGTON**

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

Location of Well

0. SHL: NENW / 950 FNL / 453 FWL / TWSP: 31N / RANGE: 5W / SECTION: 19 / LAT: 36.889715 / LONG: -107.405626 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 712 FNL / 454 FWL / TWSP: 31N / RANGE: 5W / SECTION: 19 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

BHL: NENW / 723 FNL / 1927 FWL / TWSP: 31N / RANGE: 5W / SECTION: 21 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)



Wellbore Schematic

Well Name: Rosa Unit 646H
 Location: C Sec 19, T31N, R05W 950' FNL & 453' FWL
 County: Rio Arriba, NM
 API #: 30-039-31323
 Co-ordinates: Lat 36.889721°N Long 107.406229°W (NAD 83)
 Elevations: GROUND: 6305'
 KB: NA
 Depths (KB): PBD: NA
 TD: 322'

Last Updated: 8/11/2023 Moss
 Reviewed By:
 Spud Date: 7/26/2015
 Completion Date: NA
 Last Workover Date: NA

Current Wellbore Schematic

All Depths KB		Hole Size	Surface Casing: (7/27/2015)
<u>Surface Casing</u> 9-5/8", 36#, J-55 11 jts at 317' 101 sx TOC at surface		12-1/4"	Drilled a 12-1/4" surface hole to 322'. Set 11 jts 9-5/8", 36#, J-55 casing at 317'.
		0'-322'	Cmt w/ 101 sx of Type I-II cmt (14.5ppg). Circ 10 bbls to surface.
		<u>Additional Notes:</u>	
		(07/27/2015) Surface set only	
		(05/27/2016) Loaded w/ packer fluid & TA'd.	
			(05/27/2021) MIT test performed. PT to 578# for 30 min, passed test.

Proposed Wellbore Schematic

All Depths KB		Hole Size	Surface Casing: (7/27/2015)
Surface Casing 9-5/8", 36#, J-55 11 jts at 317' 101 sx TOC at surface		12-1/4"	Drilled a 12-1/4" surface hole to 322'. Set 11 jts 9-5/8", 36#, J-55 casing at 317'.
		0'-322'	Cmt w/ 101 sx of Type I-II cmt (14.5ppg). Circ 10 bbls to surface.
		Plug #1: ~139 sx Class G cmt at 15.8 ppg & 1.15 ft3/sx (or equivalent), 5 gal water/sx cmt.	

Objective:

- Permanently "Plug & Abandon" 9 5/8" 36# J-55 surface casing. Casing set depth is at 317', TD at 322'.

Prior to Job:

- Notify BLM & NMOCD

Procedure:

- Mobilize cement equipment to location.
- NU on well head with a diverter.
- Hold Pre-Job safety meeting with all involved parties.
- Tally / TIH with PVC.
- Logos rep will confirm that 9 5/8" is full of fluid.
- Rig up cementing equipment. Fill PVC with fluid and confirm circulation.
- Pump ~139 sx Class G cmt at 15.8 ppg & 1.15 cuft/sx (or equivalent), with ~16.5 bbls of mix water. No displacement.
- TOOH & LD PVC. Top off with cement as needed.
- Cut off wellhead and install a P&A marker

Rosa Unit 646H - P&A Planning

Formations	Tops (ft)
Surface Shoe	317

9-5/8" csg capacity (ft3/ft)	0.4341
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Yield (ft3/sk)	1.15
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Plugs	Reason	Inside/Outside	Top	Bottom	Total Length of Plug (ft)	Inside Csg Volume (cf/ft)	Outside Csg Volume (cf/ft)	# of sx inside (1.15 yield & 50' excess)	# of sx outside (1.15 yield & 100% excess)	Total # sx
1	Surface	Inside	0	317	317	0.4341	-	139		139

Total Cmt	139
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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 253955

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 253955
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Notify NMOCD 24 hours prior to moving on.	8/24/2023