

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 ☒ Other

2. Name of Operator LOGOS OPERATING LLC

3a. Address 2010 AFTON PLACE, FARMINGTON, NM 87401

3b. Phone No. (include area code)  
(505) 278-87207. If Unit of CA/Agreement, Name and/or No.  
ROSA UNIT- MANCOS PA/NMNM78407E

8. Well Name and No. ROSA UT/665H

9. API Well No. 3003931358

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SEC 3/T31N/R5W/NMP10. Field and Pool or Exploratory Area  
BASIN MANCOS/MANCOS W11. 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 checked="" 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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<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	
	<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 recomplete 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 performed 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 recompletion 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 determined that the site is ready for final inspection.)

Verbal approval for field operations was approved by Virgil Lucero and Monica Kuehling on 5/16/2022 via phone conference

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

VANESSA FIELDS / Ph: (505) 324-4145

REGULATORY MANAGER

Title

Signature

Date

05/16/2022

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

KENNETH G RENNICK / Ph: (505) 564-7742 / Approved

Title Petroleum Engineer

Date

05/16/2022

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: NESW / 2247 FSL / 973 FWL / TWSP: 31N / RANGE: 5W / SECTION: 3 / LAT: 36.869522 / LONG: -107.404458 ( TVD: 0 feet, MD: 0 feet )  
PPP: SESW / 344 FSL / 1145 FWL / TWSP: 31N / RANGE: 5W / SECTION: 30 / LAT: 36.864296 / LONG: -107.403874 ( TVD: 7314 feet, MD: 7967 feet )  
BHL: SESW / 212 FSL / 2602 FWL / TWSP: 31N / RANGE: 5W / SECTION: 28 / LAT: 36.863944 / LONG: -107.367778 ( TVD: 7264 feet, MD: 18527 feet )



## 9-5/8" Intermediate Casing Plan Forward

---

**DATE:** 5/16/2022

**CURRENT WELL INFORMATION:**

- Surface casing set at 348' MD (Reference to Ensign T223 KB – 24.5')
- 12-1/4" intermediate section drilled to TD at 6,430' MD on 05/14/2022
- 9-5/8" intermediate casing currently set at 6,415' MD
- 9-5/8" intermediate casing float collar is currently set at 6,329' MD
- 9-5/8" casing run summary below:
  - Ran 9-5/8" casing to bottom, established circulation, and washed down last two joints
  - Circulate two casing volumes prior to cementing
  - Shut down to remove CRT and install cement head for 38 minutes without circulation
  - Unable to regain circulation or work pipe after installing cement head
    - Casing would pressure up to 1,610 psi with 2.10 bbls of 8.8 ppg mud
    - Work casing up to 375k with very barely any movement
  - We think our casing shoe is packed off in the Mancos and loss circulation in the Fruitland coal has us differential stuck.

## **PLAN FORWARD**

1. Rig down 9-5/8" landing joint and install cactus bit guide if possible to prevent any damage to wellhead sealing surfaces.
2. P/U 4.75" bit and 2-7/8" PH6 workstring
3. TIH with workstring inside 9-5/8" casing to 6,300' MD (~30' above 9-5/8" float collar at 6,329')
  - a. **NOTE: Slow down while TIH at 2<sup>nd</sup> DV Tool located at 3,235' MD and 1<sup>st</sup> DV Tool located at 4,778' MD. Discuss parameters for tripping through DV Tools with Weatherford Onsite Representative.**
4. Establish circulation at 6,300' MD, wash down to top of float collar, and begin drilling out 9-5/8" float collar from 6,329' to 6,331' MD. Wash and ream through float collar multiple times after drilling out float collar since we are using an undergauge bit. Note actual depth float collar was tagged and parameters used to drill out in report.
5. POOH with bit and workstring. Slow down at 1<sup>st</sup> and 2<sup>nd</sup> DV tools.
6. Shut blinds once out of the hole and pressure up down casing to check circulation through float shoe.
7. R/U Basin Wireline and RIH with perf guns to 6,402' MD. Correlate and tag per Basin Wireline to verify depth and avoid casing collars.
  - a. Mancos top is at 6,332' so we need to establish circulation no shallower than 6,382' MD for 50' of coverage below Mancos top
8. Verify guns are not across a casing collar before perforating. Perforate 9-5/8" casing at 6,402' MD.
9. POOH with wireline, Remove Cactus Pack Off & Wear Bushing then R/U 9-5/8" landing joint.
10. Establish circulation through perforations. Do not exceed max DV tool pressure per Weatherford Onsite Representative while establishing circulation through perforations.
  - a. **NOTE: Additional perf runs might be needed to establish circulation depending on packoff around 9-5/8" shoe.**
11. Once circulation has been established, pump a minimum of one casing volume while monitoring returns and pump pressure. Verify pump pressure has stabilized and compare to pressure while

circulating through the float shoe before packing off. Discuss with Logos drilling team prior to moving to next step.

12. R/U cement head and pressure test lines to 5,000 psi

- a. Mix and pump lead and tail cement
- b. Drop Cement Plug
- c. Displace cement with water to 471 bbls of water
- d. Slow down displacement rate to 2 bpm or less at 450 bbls displaced (20 bbls prior to full displacement) continue displacing until full displacement at 471 bbls. Record pressure during last 20 bbls of displacement. We will use the pressure during final 20 bbls of displacement to determine what to trap on the well while WOC.

After full displacement is reached, trap final displacement psi on the casing and WOC. After WOC, open the 2" line and monitor for 30 minutes to ensure that cement is set and perforations are holding. If cement is set and well does not try to U-tube, remove cement head and drop the 1<sup>st</sup> weighted opening cone. **DISCUSS additional WOC time with LOGOS drilling team if cement is not set.** Once cone is dropped, reinstall cement head and wait for 30 minutes. Stage pumps up per the tool hand recommendations (DV tool should open at 700-1,000 psi). If DV tool does not open, release pressure and allow more time for opening cone to fall then repeat pressuring up. Once the DV Tool is opened, stage pumps up and roll the hole clean of fluid. Record amount of cement that was observed on surface. Discuss plan forward based off results from 1<sup>st</sup> stage cement job with Logos drilling team prior to moving forward.

Note: If cement circulated to surface off the top of the DV tool located at 4,778' MD, a CBL will not be run to verify cement and no other remediation will be needed.

Note: If cement is not circulated to surface off the top of the DV tool located at 4,778', Logos Operating LLC request approval to run a CBL on the 9-5/8" intermediate casing cement from tagged depth to verify that TOC is at least 6,282' or higher (50' above Mancos formation top at 6,332') confirming that the Mancos formation is isolated from the Mesaverde and thus no remediation would be required.

If a CBL is needed, Logos Operating LLC will submit the CBL to regulatory agencies and move forward with operations per approved APD.

Rosa Unit 665H  
9-5/8" Intermediate Casing Plan Forward

**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 107440

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 107440
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	5/17/2022