Form 3160-5 (June 2019)

## UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BURI	EAU OF LAND MANAGEMENT		J. Lease Scriai No. N	MSF078773
Do not use this f	OTICES AND REPORTS ON W	re-enter an	6. If Indian, Allottee of	or Tribe Name
abandoned well. l	Jse Form 3160-3 (APD) for suc	ch proposals.		
	TRIPLICATE - Other instructions on page	e 2		ement, Name and/or No.  ROSA UNITMV/NMNM78407A, NMN
1. Type of Well  Oil Well  ✓ Gas W	/ell Other		8. Well Name and No	
2. Name of Operator LOGOS OPERA	<del></del>		9. API Well No. 3003	ROSA UNIT/147B
3a. Address 2010 AFTON PLACE, F	TARMINGTON, NM 87401 3b. Phone No. (505) 278-872	(include area code) 20	10. Field and Pool or BLANCO MESAV	Exploratory Area ERDE/BASIN DAKOTA
4. Location of Well (Footage, Sec., T.,R SEC 33/T31N/R5W/NMP	.,M., or Survey Description)		11. Country or Parish RIO ARRIBA/NM	, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF N	OTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYPE OF A	ACTION	
✓ Notice of Intent	Acidize Deep Alter Casing Hydra		Production (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report			Recomplete	Other
			emporarily Abandon	Drill out RBP / Return well to production
Final Abandonment Notice	Convert to Injection Plug peration: Clearly state all pertinent details, in		Vater Disposal	
completed. Final Abandonment Not is ready for final inspection.)  Well was downhole commingle	ons. If the operation results in a multiple comices must be filed only after all requirements and per DHC 5296 on 7/20/2023 and isolated to remove bridge plug and return well	s, including reclamation, atted with RBP @ 5061'	have been completed and due to PAD 31 complet	the operator has detennined that the site tions.
4. I hereby certify that the foregoing is ETTA TRUJILLO / Ph: (505) 324-4	true and correct. Name (Printed/Typed) 154	Regulatory Spec	sialist	
(Electronic Submission)		Date 10/17/2023		
	THE SPACE FOR FEDI	ERAL OR STATE	OFICE USE	
Approved by				
MATTHEW H KADE / Ph: (505) 56	4-7736 / Approved	Petroleum I		10/17/2023 Date
	ned. Approval of this notice does not warrant quitable title to those rights in the subject led duct operations thereon.		GTON	
	B U.S.C Section 1212, make it a crime for an		willfully to make to any d	epartment or agency of the United States

(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**

 $0. \ SHL: \ NWNE \ / \ 940 \ FNL \ / \ 2255 \ FEL \ / \ TWSP: \ 31N \ / \ RANGE: \ 5W \ / \ SECTION: \ 33 \ / \ LAT: \ 36.860723 \ / \ LONG: \ -107.366336 \ ( \ TVD: \ 0 \ feet, \ MD: \ 0 \ feet \ )$   $BHL: \ SWNE \ / \ 1511 \ FNL \ / \ 2268 \ FEL \ / \ TWSP: \ 31N \ / \ RANGE: \ 5W \ / \ SECTION: \ 33 \ / \ LAT: \ 0.0 \ / \ LONG: \ 0.0 \ ( \ TVD: \ 0 \ feet, \ MD: \ 0 \ feet \ )$ 

Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

			*
Lease	Serial	No.	NIMSE079772

BUREAU OF LAND MANAGE	EMENT		5. Lease Seriai No.	MSF078773	
SUNDRY NOTICES AND REPORTS	S ON WELL	S	6. If Indian, Allottee o		
Do not use this form for proposals to di		_	o. II maian, Anouet 0	. 11100 1 valine	
abandoned well. Use Form 3160-3 (APD)					
SUBMIT IN TRIPLICATE - Other instruction	ns on page 2	-	7. If Unit of CA/Agree NMNM78407A	ment, Name a	nd/or No.
1. Type of Well			NMNM78407B 8. Well Name an	d No	
Oil Well X Gas Well Other			Rosa Unit 14'		
2. Name of Operator			9. API Well No.		
LOGOS Operating, LLC  3a. Address 3b. P	Phone No. (includ	de area code)	30-039-26960		
2010 Aften Place Ferminaton NM 97401	05-278-8720	ie area coaej	10. Field and Pool or I Blanco Mesaverde		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)			11. Country or Parish,		
Unit B, Section 33 T31N R05W 940' FNL & 2255' FEL			Rio Arriba, NM		
12. CHECK THE APPROPRIATE BOX(E	S) TO INDICAT	E NATURE OF 1	NOTICE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION		
X Notice of Intent Acidize	Deepen	=	Production (Start/Resume)	=	Shut-Off
Alter Casing	Hydraulic F		Reclamation	_	ntegrity
Subsequent Report Casing Repair	New Constr		Recomplete	x Other	Drill out RBP / Return well to production
Change Plans  Final Abandonment Notice  Convert to Injection	Plug Back	=	Temporarily Abandon Water Disposal		F
13. Describe Proposed or Completed Operation: Clearly state all pertinen	<u> </u>		1	rk and annrovi	mate duration thereof If
determined that the site is ready for final inspection.)  Well was downhole commingled per DHC 5296 on 7/20/2023 and is  LOGOS Operating, LLC request to remove bridge plug and return w			•	ched operation	s procedure.
14. I hereby certify that the foregoing is true and correct. Name (Printed/	Typed)				
Etta Trujillo	Title	Regulatory	Specialist		
Signature Etta Trujillo	Date	10/17/2	2023		
THE SPACE FO	R FEDERA	L OR STATE	OFICE USE		
Approved by					
EF		Title	,	Nata	
Condition of comment is a second of the condition of the		Title	1	Date	
Conditions of approval, if any, are attached. Approval of this notice does recrify that the applicant holds legal or equitable title to those rights in the 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 cr			l willfully to make to any de	partment or ag	ency of the United States

(Instructions on page 2)



## DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2023)

Rosa Unit 147B
30-039-26960
940' FNL & 2255' FEL
Section 33, T31N, R05W
Rio Arriba, New Mexico
LAT: 36.8607216° N LONG: -107.3663025° W
Mesaverde/Dakota

#### PROJECT OBJECTIVE:

Remove packer and set a bridge plug above the Mesaverde perforations and load hole to protect the wellbore during offset completions. Once offset completions are complete, remove bridge plug and downhole commingle Mesaverde and Dakota.

#### **WORKOVER PROCEDURE:**

- 1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM, and NMOCD rules and regulations.
- 2. Lay flow lines. Check and record casing and tubing pressures. Sell pressure down to line. Kill well if necessary.
- 3. Nipple down wellhead and nipple up BOP.
- 4. Release Mesaverde tubing string. Trip out of hole with Mesaverde tubing string and lay down.
- 5. Release Dakota tubing string. Trip out of hole with Dakota tubing string and lay down.
- 6. Run in hole with packer plucker to retrieve Model B Packer at 6209'. Trip out of hole with packer plucker assembly and string.
- 7. Set bridge plug within 50' of the Mesaverde perforations and load the hole with KCL water. SI well for offset completions.
- 8. Once offset completions are complete, trip in hole and remove the bridge plug.
- 9. Run in hole with single 2-1/16" production tubing string.
- 10. Return to production as a Mesaverde/Dakota commingle.

## PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production was used to determine allocations and allocations were verified with recent production history.

## **Cumulative Production**

Cumulative production from well 2028.5 MMcf
Cumulative MV production 667.8 MMcf
Cumulative DK production 1360.7 MMcf

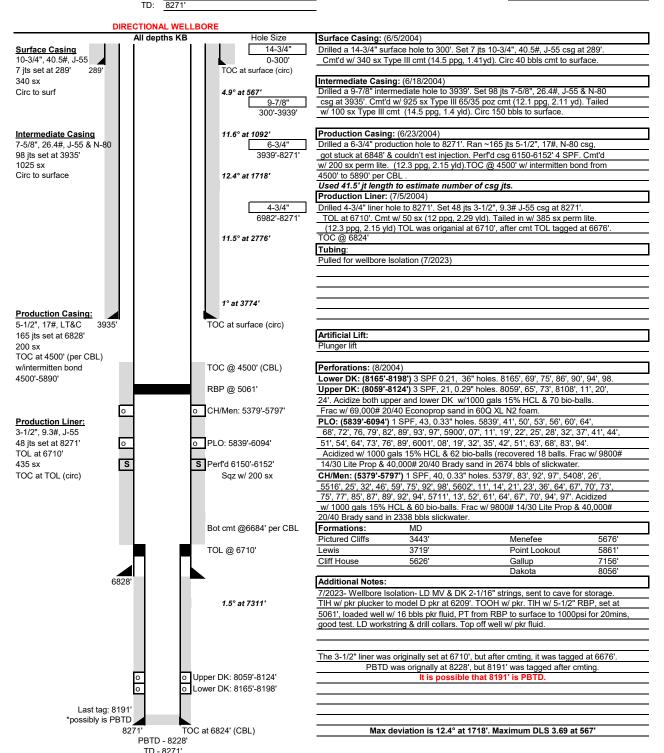
MV allocation = MV cumulative/total cumulative = 667.8/2028.5 = **32.9%** DK allocation = DK cumulative /total cumulative = 1360.7/2028.5 = **67.1%** 



#### **Isolation Wellbore Schematic**

Well Name:	Rosa Unit 147B	
Location:	B-33-31N-05W 940'	FNL & 2255' FEL
County:	Rio Arriba, NM	
API#:	30-039-26960	
Co-ordinates:	Lat 36.8607216, Long -	107.3663025 NAD83
Elevations:	GROUND:	6513'
	KB:	6513'
Depths (KB):	PBTD:	8228'
	TD.	00741

Date Prepared:	11/30/2022 Peace	
Reviewed By:	12/5/2022 Moss	
Last Updated:		
Spud Date:	6/4/2004	
Completion Date:	9/26/2004	
Last Workover Date:	7/14/2023	
•		



Received by OCD: 10/17/2023 2:16:21 PM



# **Wellbore Schematic**

 Well Name: Rosa Unit 147B

 Location: B-33-31N-05W 940' FNL & 2255' FEL

 County: Rio Arriba, NM

 API #: 30-039-26960

 Co-ordinates: Lat 36.8607216, Long -107.3663025 NAD83

 Elevations: GROUND: 6513'

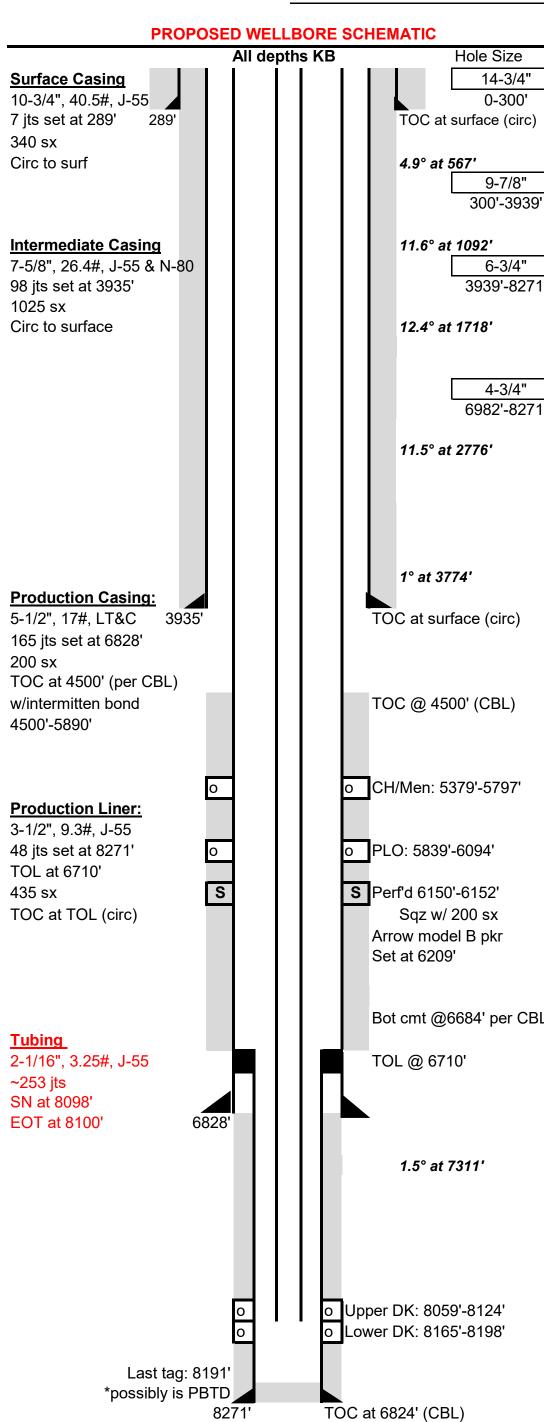
 KB: 6526'

 Depths (KB): PBTD: 8228'

 TD: 8271'

Date Prepared: 11/30/2022 Peace
Reviewed By: 12/5/2022 Moss

Last Updated: 6/4/2004
Completion Date: 9/26/2004
Last Workover Date: N/A



PBTD - 8228' TD - 8271'

Surface Casing: (6/5/200	4)	
Drilled a 14-3/4" surface h	ole to 300'. Set 7 jts 10-3/4", 40.5#, J-55	csg at 289'.
	cmt (14.5 ppg, 1.41yd). Circ 40 bbls cmt	
Intermediate Casing: (6/	18/2004)	
	te hole to 3939'. Set 98 jts 7-5/8", 26.4#,	J-55 & N-80
csg at 3935'. Cmt'd w/ 92	5 sx Type III 65/35 poz cmt (12.1 ppg, 2.1	11 yd). Tailed
w/ 100 sx Type III cmt (14	4.5 ppg, 1.4 yld). Circ 150 bbls to surface	
Production Casing: (6/23	3/2004)	
	hole to 8271'. Ran ~165 jts 5-1/2", 17#, N	V-80 csg,
got stuck at 6848' & could	dn't est injection. Perf'd csg 6150-6152' 4	SPF. Cmt'd
w/ 200 sx perm lite. (12.3	ppg, 2.15 yld).TOC @ 4500' w/ intermitte	en bond from
4500' to 5890' per CBL .		
	stimate number of csg jts.	
Production Liner: (7/5/20	,	00741
	8271'. Set 48 jts 3-1/2", 9.3# J-55 csg at 8	
	sx (12 ppg, 2.29 yld). Tailed in w/ 385 sx	
TOC @ 6824'	_ was origanial at 6710', after cmt TOL taç	gged at 6676.
Tubing:		
KB	14	
(~252) 2-1/16" 3.25# J-55	tbg jts 8048	
(1) 2-1/16" X 4' marker jt	4	
(1) 2-1/16" 3.25# J-55 tbg	jt 32	
(1) SN	1	
(1) MS collar	1	
	Set at: 8100	ft
Artificial Lift:		
Upper DK: (8059'-8124') 24'. Acidize both upper an	3 SPF 0.21, 36" holes. 8165', 69', 75', 86 3 SPF, 21, 0.29" holes. 8059', 65', 73', 81 d lower DK w/1000 gals 15% HCL & 70 l	08', 11', 20',
	conoprop sand in 60Q XL N2 foam.	
	F, 43, 0.33" holes. 5839', 41', 50', 53', 56',	
	93', 97', 5900', 07', 11', 19', 22', 25', 28', 3	
	6001', 08', 19', 32', 35', 42', 51', 63', 68', 8	
_	5% HCL & 62 bio-balls (recovered 18 balls	
	# 20/40 Brady sand in 2674 bbls of slickw	
	SPF, 40, 0.33" holes. 5379', 83', 92', 97',	
	5', 92', 98', 5602', 11', 14', 21', 23', 36', 64 94', 5711', 13', 52', 61', 64', 67', 70', 94', 9	
w/ 1000 gals 15% HCL &		op & 40,000#
20/40 Brady sand in 2338	bbls slickwater.	ор & 40,000#
20/40 Brady sand in 2338 Formations:	bbls slickwater. 1D	
20/40 Brady sand in 2338  Formations: M  Pictured Cliffs 34	bbls slickwater.  ID  443' Menefee	5676'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3	bbls slickwater.  ID  443' Menefee  719' Point Lookout	5676' 5861'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3	bbls slickwater.  ID  443' Menefee  719' Point Lookout 626' Gallup	5676' 5861' 7156'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56	bbls slickwater.  ID  443' Menefee  719' Point Lookout	5676' 5861'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes:	bbls slickwater.  ID  443' Menefee  719' Point Lookout 626' Gallup	5676' 5861' 7156'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes: There is no record of any v	bbls slickwater.  ID  443' Menefee  719' Point Lookout  626' Gallup  Dakota  workovers since completion.	5676' 5861' 7156' 8056'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes: There is no record of any of the 3-1/2" liner was origin	bbls slickwater.  MD  443' Menefee  719' Point Lookout  626' Gallup  Dakota  workovers since completion.  hally set at 6710', but after cmting, it was t	5676' 5861' 7156' 8056'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes: There is no record of any of the 3-1/2" liner was origin	bbls slickwater.  ID  443' Menefee  719' Point Lookout  626' Gallup  Dakota  workovers since completion.  ally set at 6710', but after cmting, it was tignally at 8228', but 8191' was tagged after	5676' 5861' 7156' 8056'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes: There is no record of any of the 3-1/2" liner was origin	bbls slickwater.  MD  443' Menefee  719' Point Lookout  626' Gallup  Dakota  workovers since completion.  hally set at 6710', but after cmting, it was t	5676' 5861' 7156' 8056'
20/40 Brady sand in 2338  Formations: M Pictured Cliffs 34 Lewis 3 Cliff House 56  Additional Notes: There is no record of any of the 3-1/2" liner was origin PBTD was origin	bbls slickwater.  ID  443' Menefee  719' Point Lookout  626' Gallup  Dakota  workovers since completion.  ally set at 6710', but after cmting, it was tignally at 8228', but 8191' was tagged after	5676' 5861' 7156' 8056' agged at 6676'.

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

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 276620

#### **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	276620
	Action Type:
	[C-103] NOI Workover (C-103G)

#### CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	11/7/2023