U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report 03/12/2024

Well Name: ROSA UNIT Well Location: T31N / R6W / SEC 24 /

NESW / 36.88243 / -107.41618

County or Parish/State: RIO

ARRIBA / NM

Well Number: 101

Type of Well: CONVENTIONAL GAS

WELL

Unit or CA Name: ROSA UNIT

Allottee or Tribe Name:

Unit or CA Number: NMNM78407E

US Well Number: 3003923361 **Well Status:** Producing Gas Well

Operator: LOGOS OPERATING

LLC

Notice of Intent

Lease Number: NMSF078767

Sundry ID: 2779067

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/11/2024 Time Sundry Submitted: 10:36

Date proposed operation will begin: 04/01/2024

Procedure Description: Well was isolated with Semi Composite BP @ 7024' due to PAD 27 completions. LOGOS Operating, LLC request to drill out plug and return well to production, per DHC 5331. See attached operations procedure and wellbore schematic.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

3160_5_Rosa_Unit_101_NOI_to_Drill_Out_Bridge_Plug_20240306_20240311103612.pdf

Received by OCD: NINAAA. ACSAMAAM

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Page 2 of 7

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: MAR 11, 2024 10:36 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: KENNETH G RENNICK BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742 BLM POC Email Address: krennick@blm.gov

Disposition: Approved **Disposition Date:** 03/11/2024

Signature: Kenneth Rennick

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

	20001111001	•
Lease Serial No.	•	
NIMCEOT	0767	

BUREAU OF LAND MANAGEMENT		NMSF078	3767	
SUNDRY NOTICES AND REPORTS ON W Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for suc	re-enter an	6. If Indian, Allottee or		
SUBMIT IN TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agree	ment, Name and/or No.	
I. Type of Well		8. Well Name and No.		
Oil Well X Gas Well Other		ROSA U	NIT 101	
2. Name of Operator LOGOS OPERATING, LLC		9. API Well No. 30-039		
FARMINGTON, NM 87401 (505) 278	(include area code) -8720		OS / BASIN DAKOTA	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) UNIT K SEC 24 T31N 6W 1760' FSL 1850' FWL		11. Country or Parish, RIO ARRIE		
12. CHECK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE OF NOTI	CE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION	TYPE OF AC	ΓΙΟΝ		
X Notice of Intent	=	uction (Start/Resume)	Water Shut-Off Well Integrity	
Subsequent Report Casing Repair New	Construction Reco	omplete	x Other	
	=	porarily Abandon er Disposal	Drill out BP	
the Bond under which the work will be perfonned or provide the Bond No. on f completion of the involved operations. If the operation results in a multiple con completed. Final Abandonment Notices must be filed only after all requirement is ready for final inspection.) Well was isolated with Semi Composite BP @ 7024' due to PAD 27 LOGOS Operating, LLC request to drill out plug and return well to See attached operations procedure and wellbore schematic.	pletion or recompletion in a s, including reclamation, have completions.	new interval, a Form 31 e been completed and th	60-4 must be filed once testing has	s been
4. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)				
Etta Trujillo	Title Regulatory Spec	cialist		
Signature Cta Trujillo	Date 3/11/2024			
THE SPACE FOR FEDI	ERAL OR STATE OF	ICE USE		
Approved by				
	Title		Pate	
Conditions of approval, if any, are attached. Approval of this notice does not warran ertify that the applicant holds legal or equitable title to those rights in the subject lewhich would entitle the applicant to conduct operations thereon.				

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)



DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2023)

Rosa Unit 101 30-039-23361 1760' FSL & 1850' FWL Section 24, T31N, R06W Rio Arriba, New Mexico LAT: 36.8826828° N LONG: -107.4168243° W

Mancos/Dakota

PROJECT OBJECTIVE:

The Rosa Unit 101 is at risk of catastrophic failure from the nearby Pad 27 completions. In order to preserve wellbore integrity and protect the remaining reserves of the well it is recommended to remove the downhole packer, set a bridge plug above the Mancos perforations, effectively commingling the Mancos and Dakota. After offset wells are completed, the bridge plug will be removed and the well will be returned to production as a Mancos/Dakota commingle.

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. Pull tubing and packer out of hole and lay tubing down.
- 5. Set bridge plug within 50' of the Mancos perforations and load the hole with KCL water. SI well for offset completions.
- 6. Once offset well are completed, trip in hole to remove the bridge plug.
- 7. Run in hole with a single 2-3/8" production tubing string.
- Return to production as a Mancos/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Cumulative production is not an applicable allocation method in this case; therefore, production rates were used to determine production allocation.

Total Gas Production Rate 11 Mcfd MC Gas Production Rate 1 Mcfd DK Gas Production Rate 10 Mcfd

MC allocation = MC rate/total rate = 1/11 = 9%
DK allocation = DK rate/total rate = 10/11 = 91%



Surface Casing: (12/19/1983)

Well Name: Rosa Unit 101 Sec 24, T-31N, R-06W 1760 FSL & 1850' FWL Location: County: Rio Arriba, NM API# 30-039-23361 Lat 36.8826828 Long -107.4168243 Co-ordinates: Elevations: GROUND: 6303' KB: 6316' Depths (KB): PBTD: 8055'

Prepared By: 7/10/2023 Peace Reviewed By: 7/11/2023 Moss Last Updated By: 2/5/2024 Moss Spud Date: 12/19/1983 Completion Date: 8/3/1984 Last Workover Date: 10/5/2023

1

TD: 8100' WELLBORE SCHEMATIC All depths KB Hole Size 17-1/2' Surface Casing 13-3/8", 48#, H-40 0-412 10 jts set at 412' 470 sx 412 TOC at surface (circ) TOC at surface 7-7/8" 412'-8100' DV Tool set @ 5121' 6/1984-Sqz w/ 59 cf Class B neat **Production Casing** 4-1/2", 11.6#, N-80 Set at 8100' Stage 1: 900 sx Stage 2: 1850 sx Circ to surface DV tool at 5121' Sqz w/59 cf Class B 4-1/2" Semi-CBP @ 7024' Tubing O MAN: 7074'-7232' 2-3/8", 4.7#, J-55 0 195 jts EOT at 6399' FN at 6398' O DK: 7838'-7859' 00000 O DK: 7884'-7907' O DK: 7910'-7924' O DK: 7926'-7942' O DK: 7958'-7966' 0 O DK: 7974'-7988' 8100 TOC at surface (Circ)

Drilled a 17-1/2" surface hole to 412'. Set 10 jts of 13-3/8" 48# H-40 csg at 412'. Cmt w/ 470 sx (15.6 ppg) of Class B w/ 2% CaC12. Circ 20 bbls to surface. Intermediate Casing: (12/19/1983) Drilled a 7-7/8" hole to 8100'. Set 196 jts of 4-1/2" 11.6# N-80 csg to 8100' Stg 1: Lead- Cmt w/ 800 sx (1309 ft3) of pozzolanic type 50:50, tailed w/ 100 sx of class B

neat. Stg 2: Lead- Cmt w/ 1750 sx of 65/35 poz, tailed w/ 100 sx of class B

Circ to surface. DV tool set at 5121', sqz'd w/ 59 cf of Class B neat cmt Tubing: Length (ft) KB 13 (195) 2-3/8", 4.7#, J-55 tbg jts 6385

> Set at: 6399 ft

Artificial Lift:

Perforations: (6/13/1984)

(1) 1.81" F-nipple @ 6398'

(1) 2-3/8" notched collar

Dakota: 7838'-7859', 7884'-7907', 7910'-7924', 7926'-7942', 7958'-7966', 7974'-7988 (2 SPF, 0.38", 192 holes) Frac $\,$ w/ 44,814# 20/40 sand in 47,850 gal 60# & 50# crosslinked gel. Screened out at max pressure (6500 psi). Attempted 2nd frac w/ 79,500 gal crosslink gel 129,500# 20/40 sand, screened out at 7000 psi

Mancos: 7074'-7232' (1 SPF, 0.36", 158 holes) Frac w/ 52,000 gal, 60# & 50# cross linked gel & 32,000# 20/40 sand. Screened out at 7500 psi.

Formations:				
Ojo Alamo-	2396'	Mancos	6414'	
Fruitland-	2845'	Greenhorn	7646'	
Pictured Cliffs-	3138'	Dakota-	7829'	
Mesaverde	5036'			

Additional Notes:

1984- Completed well and landed 2-3/8" tubing at 8100', sliding sleeve at 7220' and

10/11/1989- TOOH w/ tbg and pkr. LD sliding sleeve and 2 its due to corrosion and scale

PKR was missing middle element, outside emlement were serverly damaged, & top seal was missing hydrallic, hold downs were badly worn. TIH w/ pkr w/ high temp rubbers & wire mesh back-ups on tbg jts. Set pkr @ 7344'& tbg 7911'.

11/14/1995- PKR test failed. Found 1/16" hole in top of pkr. Replaced pkr w/ Mountain

states arrowset pkr and TIH w/ same tbg. Landed pkr @ 7282' & tbg @ 7914'

10/5/2023 - Wellbore commingle & isolation due to offset pad 27 completions. TOOH tbg: 107Y, 44B, 52G, 34R. LD 96 jts due to internal pitting, no scale on tbg, BHA clear. Set 4-1/2" semi-CBP at 7024'. TOOH and LD packer. Set 2-3/8" tbg at 6399'.

Max deviation 2-1/4° at 8068'

PBTD - 8055' TD - 8100'



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 Rosa Unit 101

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 Sec 24, T-31N, R-06W 1760 FSL & 1850' FWL

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 Reviewed By:
 7/11/2023 Moss

 Last Updated By:
 3/11/2024 Trujillo

 Spud Date:
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Max deviation 2-1/4° at 8068'

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 322552

CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	322552
	Action Type:
	[C-103] NOI Workover (C-103G)

CONDITIONS

Created By		Condition Date
kelly.roberts	None	4/1/2024