

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report 10 03/11/2024

Well Name: ROSA UNIT Well Location: T31N / R6W / SEC 11 / County or Parish/State: RIO

NENW / 36.91771 / -107.433 ARRIBA / NM

Well Number: 9A Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMSF078771 Unit or CA Name: ROSA UNIT--MV Unit or CA Number:

NMNM78407A

US Well Number: 3003925584 Well Status: Producing Gas Well Operator: LOGOS OPERATING

LLC

Notice of Intent

Sundry ID: 2778452

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 03/07/2024 Time Sundry Submitted: 01:32

Date proposed operation will begin: 03/07/2024

Procedure Description: Wellbore Isolation LOGOS Operating requests to conduct a wellbore isolation for subject well due to offset devolpement. Once offset development is complete, mill out bridge plugs and downhole commingle Mesaverde and Dakota.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

FOR_REGULATORY__Rosa_Unit_009A___Commingle_Allocation_Procedure__with_attachments_final_2024 0307133225.pdf

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Well Name: ROSA UNIT

Well Location: T31N / R6W / SEC 11 / County or Parish/State: Rice 2 of

NENW / 36.91771 / -107.433

Well Number: 9A Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

MELI

Lease Number: NMSF078771 Unit or CA Name: ROSA UNIT--MV Unit or CA Number:

NMNM78407A

US Well Number: 3003925584 **Well Status:** Producing Gas Well **Operator:** LOGOS OPERATING

LLC

ARRIBA / NM

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: LACEY GRANILLO Signed on: MAR 07, 2024 01:32 PM

Name: LOGOS OPERATING LLC

Title: REGULATORY SPECIALIST

Street Address: 2010 AFTON PLACE

City: FARMINGTON State: NM

Phone: (505) 324-4145

Email address: LGRANILLO@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

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DOWNHOLE COMMINGLE PROCEDURE AND ALLOCATION-NMOCD (2024)

Rosa Unit 9A 30-039-25584 1250' FNL & 2245' FWL Section 11, T31N, R06W Rio Arriba, New Mexico LAT: 36.9180298° N LONG: -107.4335175° W Mesaverde/Dakota

PROJECT OBJECTIVE:

Remove packer, run gyro survey, and, pending results, set a bridge plug above the Dakota perforations and a bridge plug below the Mesaverde perforations to isolate the Mancos formation during offset development. Once offset development is complete, mill out bridge plugs 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 D Packer at 6600'. Trip out of hole with packer plucker assembly and string.
- 7. Rig up wireline to run gyro survey. Based on results of gyro survey, if necessary for new well drilling, set bridge plug within 50' of the top Dakota perforation. Set a second bridge plug within 50' below the Mesaverde perforations.
- 8. SI well for offset drilling.
- 9. Once offset drilling is complete, trip in hole and mill out bridge plugs and push to bottom.
- 10. Run in hole with single 2-3/8" production tubing string.
- 11. Return to production as a Mesaverde/Dakota commingle.

PRODUCTION ALLOCATION

Historic production data from both zones in this well was gathered and analyzed. Historical and forecasted rates were used to determine allocations due to a failure that impacted production potential and cumulative allocation accuracy.

Production Rates

Total Production Rate 61 Mcfpd
Mesaverde Production Rate 45 Mcfpd
Dakota Production Rate 16 Mcfpd

MV allocation = MV rate/total rate = 45/61 = **73.8%** DK allocation = DK rate/total rate = 16/61 = **26.2%**



Wellbore Schematic

Well Name:	Rosa Unit 9A	
Location:	C-11-31N-06W	1250' FNL & 2245' FWL
County:	Rio Arriba, NM	
API#:	30-039-25584	
Co-ordinates:	Lat 36.9180298,	Long -107.4335175 NAD83
Elevations:	GROUND:	6247'
	KB:	6261'
Depths (KB):	PBTD:	8171'
	TD.	8195'

Date Prepared: 2/15/2024 Moss Reviewed By: Last Updated: Spud Date: 6/24/1996 Completion Date 8/5/1996 Last Workover Date: N/A

5459'

5864'

7977

No history of any workovers since initial completion.

VERTICAL WELLBORE Hole Size All depths KB Surface Casing: (6/26/1996) **Surface Casing** 13-3/4" Drilled a 13-3/4" surface hole to 550'. Set 12 jts 10-3/4", 40.5#, J-55 csg at 544' Cmt'd w/ 335 sx Class B cmt (395 ft3). Circ 15 bbls cmt to surface. 10-3/4", 40.5#, J-55 0-550 12 jts set at 544' 544' TOC at surface (circ) 335 sx Intermediate Casing: (6/30/1996) Drilled a 9-7/8" intermediate hole to 3704'. Set 89 jts 7-5/8", 26.4#, K-55 csg at 3704' Circ to surf Cmt'd w/ 575 sx Class B 65/35 poz cmt w/ 8% gel (1196 ft3, 12.1 ppg, 2.13 yld). 9-7/8" 550'-3704' Tailed w/ 280 sx Class B cmt (336 ft3, 15.6 ppg, 1.2 yld). Circ 35 bbls to surface. Intermediate Casing Production Casing: (7/5/1996) 7-5/8", 26.4#, K-55 6-3/4" Drilled a 6-3/4" production hole to 8195'. Set 178 jts 5-1/2", 17#, N-80 csg at 8195' 89 its set at 3704' 3704'-8195 Cmt'd w/ 345 sx Class B 50/50 poz cmt w/ 4% gel (467 ft3, 13.4 ppg, 1.29 yld). 855 sx Tailed w/ 100 sx Class H cmt (150 ft3, 15.9 ppg, 1.5 yld). TOC at 3366' per CBL (1996) Circ to surface *top of good cmt at 3700' w/ intermittent cmt up to 3366' MV Tubing: (08/1996) Length (ft) KB 14 (186) 1-1/4" 2.33# J-55 IJ tbg jts 6008 (1) 1.062" SN at 6022' 1 (1) 1-1/4" orange peel perf joint TOC at 3366' (CBL Set at: 6056 ft DK Tubing: (08/1996) 14 3704' TOC at surface (circ) (1) 1-1/2" 2.9# J-55 EUE tbg jt 33 (1) 1-1/2" x 8' pup jt 8 **Production Casing:** (201) 1-1/2" 2.9# J-55 EUE tbg jts 5-1/2", 17#, N-80 (1) Seal Assembly 178 jts set at 8195' (43) 2-1/16" J-55 IJ 10rd tbg jts 1408 *est based on # jts 445 sx 0 U MV: 5419'-5709' (1) 1.375" SN at 8018' TOC at 3366' (CBL) 0 (1) 1-1/2" tbg jt w/ 1/2 MS end 32 *est 0 0 *set w/ 8k compression Set at: 8051 ft 0 0 Artificial Lift: 0 o L MV: 5728'-6059' Perforations: (7/1996) DK: (7960'-8143') 1 SPF. 3, 0.36" holes at 8128', 8132' & 8143'. 2 SPF, 28, 0.36" holes MV Tubing 7960', 63, 66, 69, 8002', 08, 14, 20, 26, 32, 38, 44, 63, 8081'. Acidize w/ 500 gal 15% HCL. Frac w/ 90,000# 20/40 sand & 10,000# super DC coated sand in 660 bbls 60Q N2 foam. 1-1/4" 2.33# J-55 IJ 186 jts Arrow model D pkr L MV: (5728'-6059') 1 SPF, 64, 0.36" holes. 5728', 30, 32, 34, 36, 38, 40, 42, 44, 46, 48 SN at 6022 Set at 6600' EOT at 6056' 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 5800', 02, 04, 08, 10, 20, 24, 31, 35, 39, 42, 57, 67, 69, 92, 95, 98, 5901', 04, 45, 98, 6000', 02, 19, 53, 56, 6059'. Acidized w/ 1500 gal 15% HCL Frac w/ 80.000# 20/40 sand in 2120 bbls slickwater U MV: (5419'-5709') 1 SPF, 63, 0.36" holes. 5419', 61, 63, 91, 94, 97, 5500', 03, 06, 09, 21, 30, 38,41, 60, 63, 66, 69, 5609', 18, 23, 31, 41, 47, 50, 53, 59, 62, 65, 68, 71, 74, 77 80, 88, 91, 94, 97, 5700', 03, 06, 5709'. Acidized w/ 1000 gal 15% HC DK Tubing Frac'd w/ 80,000# 20/40 sand in 1871 bbls slickwater. 1-1/2" 2.9# J-55 EUE MD 245 jts Formations: SN at 8018' Ojo Alamo 2444' Mesaverde EOT at 8051' Kirtland 2559 Mancos *set w/ 8k compression Fruitland 3014 Dakota o DK: 7960'-8143' Pictured Cliffs ٥ 3234 Additional Notes 8/1996 Initial completion. Stim'd MV & DK formations. Set Model D pkr at 6600'. Set 1-1/2" DK EOT at 8051' & 1-1/4" MV EOT at 6056'

8195

PBTD - 8171'

TD - 8195'

TOC at 3366' (CBL)



Proposed Isolation Wellbore Schematic

Well Name:	Rosa Unit 9A	
Location:	C-11-31N-06W	1250' FNL & 2245' FWL
County:	Rio Arriba, NM	
API#:	30-039-25584	
Co-ordinates:	Lat 36.9180298, L	ong -107.4335175 NAD83
Elevations:	GROUND:	6247'
	KB:	6261'
Depths (KB):	PBTD:	8171'
	TD·	8195'

 Date Prepared:
 2/15/2024 Moss

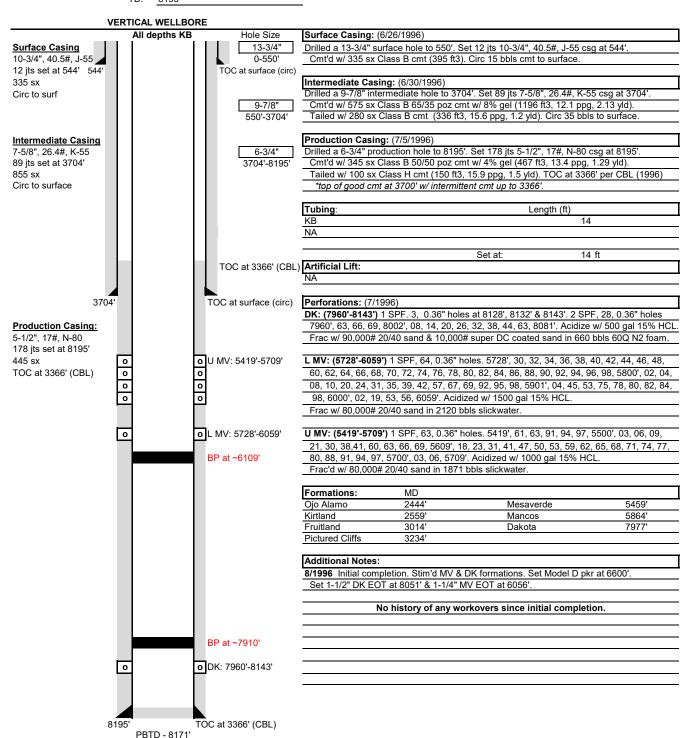
 Reviewed By:
 2/15/2024 Moss

 Last Updated:
 6/24/1996

 Spud Date:
 6/24/1996

 Completion Date:
 8/5/1996

 Last Workover Date:
 N/A



TD - 8195'



Proposed Downhole Commingle Wellbore Schematic

Well Name:	Rosa Unit 9A
Location:	C-11-31N-06W 1250' FNL & 2245' FWL
County:	Rio Arriba, NM
API#:	30-039-25584
Co-ordinates:	Lat 36.9180298, Long -107.4335175 NAD83
Elevations:	GROUND: <u>6247'</u>
	KB: 6261'
Depths (KB):	PBTD: 8171'
	TD: 8195'

 Date Prepared:
 2/15/2024 Moss

 Reviewed By:
 5/24/1996

 Last Updated:
 6/24/1996

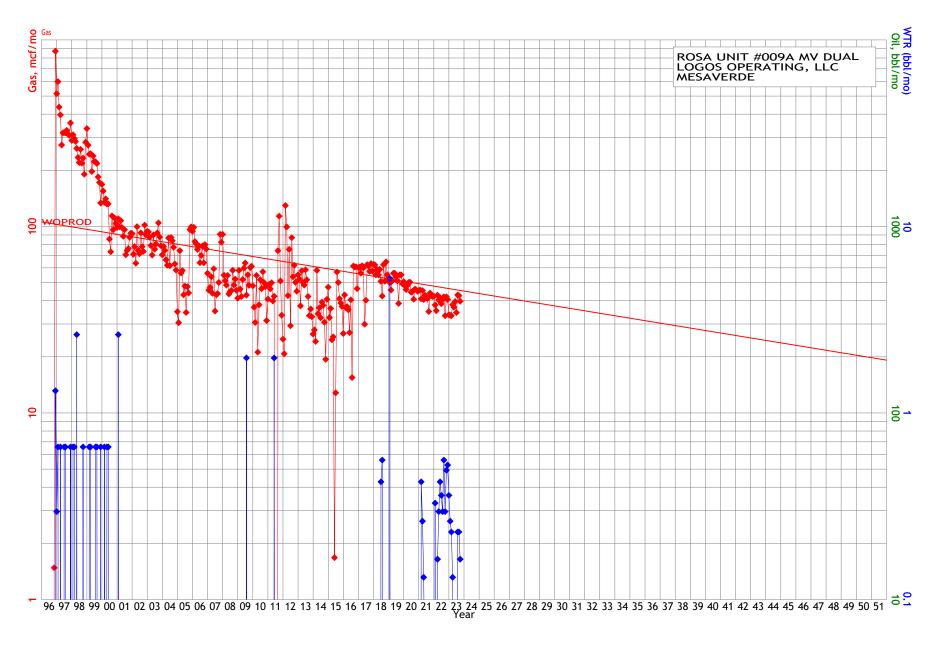
 Completion Date:
 8/5/1996

 Last Workover Date:
 N/A

VERTICAL WELLBORE Hole Size All depths KB Surface Casing: (6/26/1996) **Surface Casing** 13-3/4" Drilled a 13-3/4" surface hole to 550'. Set 12 jts 10-3/4", 40.5#, J-55 csg at 544' 10-3/4", 40.5#, J-55 Cmt'd w/ 335 sx Class B cmt (395 ft3). Circ 15 bbls cmt to surface. 0-550 12 jts set at 544' 544' TOC at surface (circ) 335 sx Intermediate Casing: (6/30/1996) Drilled a 9-7/8" intermediate hole to 3704'. Set 89 jts 7-5/8", 26.4#, K-55 csg at 3704' Circ to surf Cmt'd w/ 575 sx Class B 65/35 poz cmt w/ 8% gel (1196 ft3, 12.1 ppg, 2.13 yld). Tailed w/ 280 sx Class B cmt (336 ft3, 15.6 ppg, 1.2 yld). Circ 35 bbls to surface. 9-7/8" 550'-3704' Intermediate Casing Production Casing: (7/5/1996) 7-5/8", 26.4#, K-55 6-3/4" Drilled a 6-3/4" production hole to 8195'. Set 178 jts 5-1/2", 17#, N-80 csg at 8195' 89 its set at 3704' 3704'-8195' Cmt'd w/ 345 sx Class B 50/50 poz cmt w/ 4% gel (467 ft3, 13.4 ppg, 1.29 yld) 855 sx Tailed w/ 100 sx Class H cmt (150 ft3, 15.9 ppg, 1.5 yld). TOC at 3366' per CBL (1996) Circ to surface *top of good cmt at 3700' w/ intermittent cmt up to 3366' Tubina (1) 2-3/8" x 2' pup jt TOC at 3366' (CBL) (1) 1.78" SN 3704' TOC at surface (circ) Artificial Lift: **Production Casing:** 5-1/2", 17#, N-80 Perforations: (7/1996) 178 jts set at 8195' DK: (7960'-8143') 1 SPF. 3, 0.36" holes at 8128', 8132' & 8143'. 2 SPF, 28, 0.36" holes 445 sx o U MV: 5419'-5709' 7960', 63, 66, 69, 8002', 08, 14, 20, 26, 32, 38, 44, 63, 8081'. Acidize w/ 500 gal 15% HCL. TOC at 3366' (CBL) Frac w/ 90,000# 20/40 sand & 10,000# super DC coated sand in 660 bbls 60Q N2 foam. 0 0 0 0 L MV: (5728'-6059') 1 SPF, 64, 0.36" holes. 5728', 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 5800', 02, 04, 08, 10, 20, 24, 31, 35, 39, 42, 57, 67, 69, 92, 95, 98, 5901', 04, 45, 53, 75, 78, 80, 82, 84, 0 o L MV: 5728'-6059' 98, 6000', 02, 19, 53, 56, 6059'. Acidized w/ 1500 gal 15% HCL. Frac w/ 80,000# 20/40 sand in 2120 bbls slickwater. <u>Tubing</u> 2-3/8" 4.7# J-55 U MV: (5419'-5709') 1 SPF, 63, 0.36" holes. 5419', 61, 63, 91, 94, 97, 5500', 03, 06, 09, ~251 jts 21, 30, 38,41, 60, 63, 66, 69, 5609', 18, 23, 31, 41, 47, 50, 53, 59, 62, 65, 68, 71, 74, 77, 80. 88, 91, 94, 97, 5700', 03, 06, 5709'. Acidized w/ 1000 gal 15% HCL SN at ~8049' EOT at ~8051' Frac'd w/ 80,000# 20/40 sand in 1871 bbls slickwater. MD Formations: Ojo Alamo 2444 Mesaverde 5459 Kirtland 2559' 5864' Mancos 3014' Fruitland Dakota 7977 Pictured Cliffs 3234 Additional Notes: 8/1996 Initial completion. Stim'd MV & DK formations. Set Model D pkr at 6600' Set 1-1/2" DK EOT at 8051' & 1-1/4" MV EOT at 6056' No history of any workovers since initial completion. o DK: 7960'-8143' ٥ TOC at 3366' (CBL)

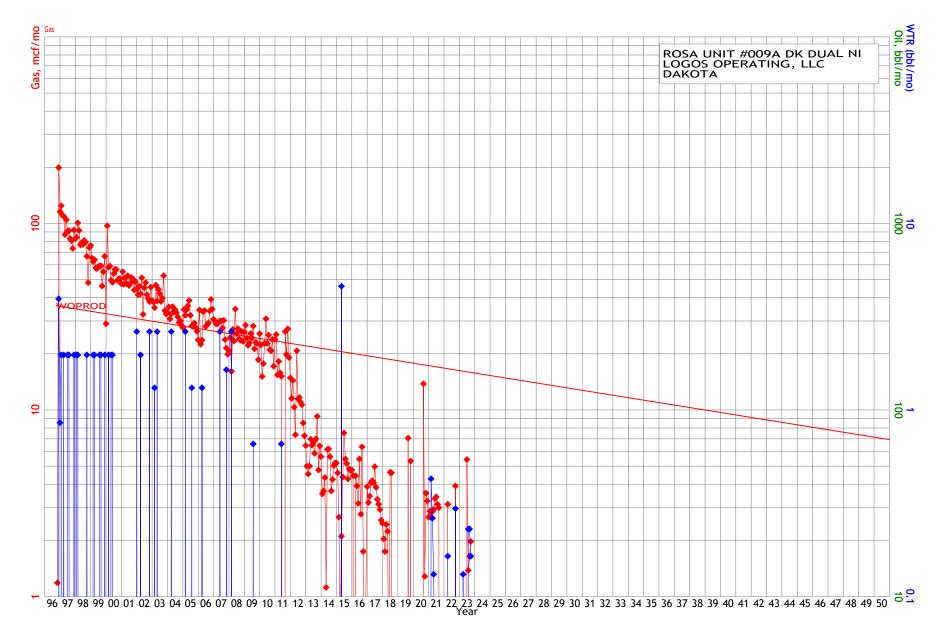
PBTD - 8171'

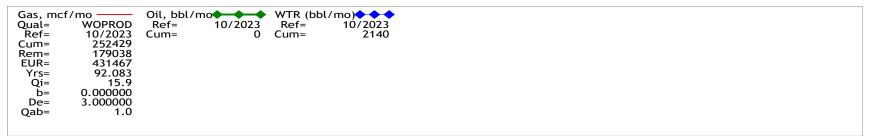
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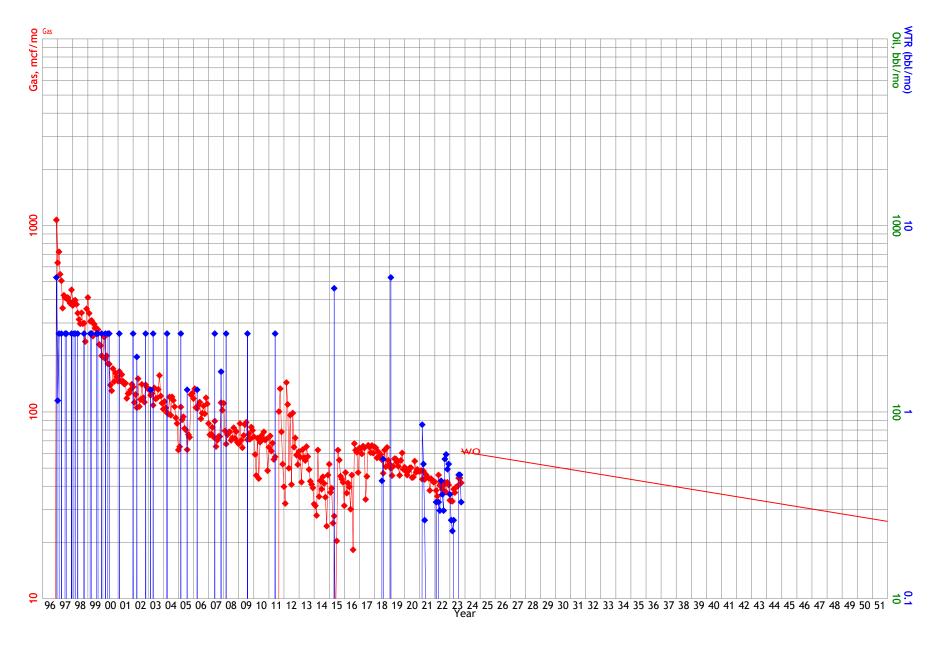


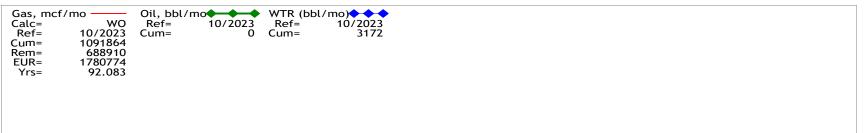
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District I
1625 N. French Dr., Hobbs, NM 88240
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District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 322078

CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	322078
	Action Type:
	[C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Logos is approved to isolate the formations only. Once isolated, Logos shall submit a SR for the work. Prior to altering the well construction again [removing the bridge plug(s)], Logos shall submit a new NOI seeking that approval.	3/28/2024