

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: Test Allowable (C-104RT) x New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: LOGOS OPERATING, LLC	OGRID: 289408
Property Name and Well Number: ROSA UNIT 604H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31434
Pool Name: BASIN MANCOS	Pool Code: 97232

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	22	31N	6W		1503' FNL	605' FEL	36.888251	-107.443252	RIO ARRIBA

Section 3 – Completion Information

Producing Method Flowing	Ready Date 11/11/24	Perforations MD 7,243'-16,695'	Perforations TVD 6864'-6865'
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Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 392000	Communitization Agreement ☒ Yes ☐ No, Order No. NMNM078407E
Surface Casing Action ID: 356292	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 378136	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: 391371	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 391908	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: N/A	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name <i>Lacey Granillo</i>	
Title Regulatory Specialist	Date 10/11/24



Request for Confidential "Tight Hole" Status

LOGOS Operating, LLC
Rosa Unit #604H
API# 30-039-31434
Section 22 T31N R06W
Rio Arriba County, New Mexico

Per 19.15.7.16 (C) of the New Mexico Administrative Code (NMAC) regarding the *Well Completion or Recompletion Report and Log (Form C-105)*, LOGOS Operating, LLC respectfully requests the Division to maintain the confidentiality of Form C-105 and all associated documentation as of **11/11/2024** for a period of 90 days following the acceptance of the referenced documents.

Sincerely,



Lacey Granillo
Regulatory Specialist
Cell: 505-787-0118
lgranillo@logosresourcesllc.com

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type	☐ Initial Submittal
			☐ Amended Report
		☒ As Drilled	

WELL LOCATION INFORMATION

API Number 30-039-31434	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 604H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC	Ground Level Elevation 6260'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL H	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 1503' NORTH	Feet from E/W Line 605' EAST	Latitude 36.888251 °N	Longitude -107.443252 °W	County RIO ARRIBA
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Bottom Hole Location

UL D	21	Township 31N	Range 6W	Lot	Feet from N/S Line 281' NORTH	Feet from E/W Line 145' WEST	Latitude 36.891555 °N	Longitude -107.476694 °W	County RIO ARRIBA
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Dedicated Acres 640.00	Penetrated Spacing Unit: N/2 - Section 21, T31N, R6W N/2 - Section 22, T31N, R6W	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit ☐ Yes ☒ No	Consolidation Code UNITIZATION
Order Numbers R-13457			Well setbacks are under Common Ownership: ☐ Yes ☒ No		

Kick Off Point (KOP)

UL A	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 599' NORTH	Feet from E/W Line 187' EAST	Latitude 36.890744 °N	Longitude -107.441820 °W	County RIO ARRIBA
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First Take Point (FTP)

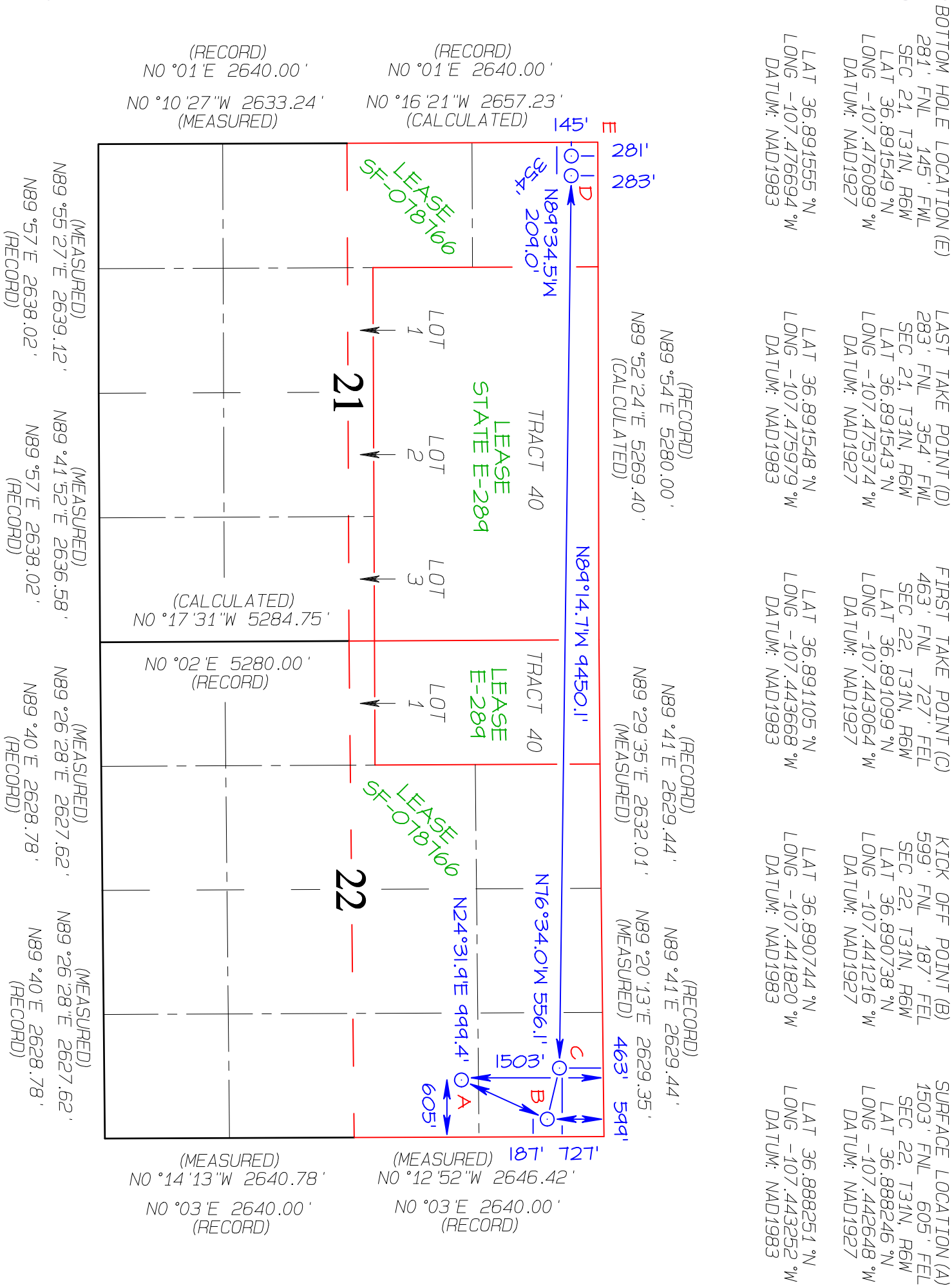
UL A	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 463' NORTH	Feet from E/W Line 727' EAST	Latitude 36.891105 °N	Longitude -107.443668 °W	County RIO ARRIBA
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Last Take Point (LTP)

UL D	Section 21	Township 31N	Range 6W	Lot	Feet from N/S Line 283' NORTH	Feet from E/W Line 354' WEST	Latitude 36.891548 °N	Longitude -107.475979 °W	County RIO ARRIBA
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Unitized Area or Area of Uniform Interest ROSA UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation 6230'
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OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. <u>Lacey Granillo</u> Signature 10/8/24 Date Lacey Granillo Printed Name <u>lgranillo@logosresourcesllc.com</u> E-mail Address	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JASON C. EDWARDS Signature and Seal of Professional Surveyor <table><tr><td>Certificate Number 15269</td><td>Date of Survey JANUARY 13, 2012</td></tr></table>	Certificate Number 15269	Date of Survey JANUARY 13, 2012
Certificate Number 15269	Date of Survey JANUARY 13, 2012		



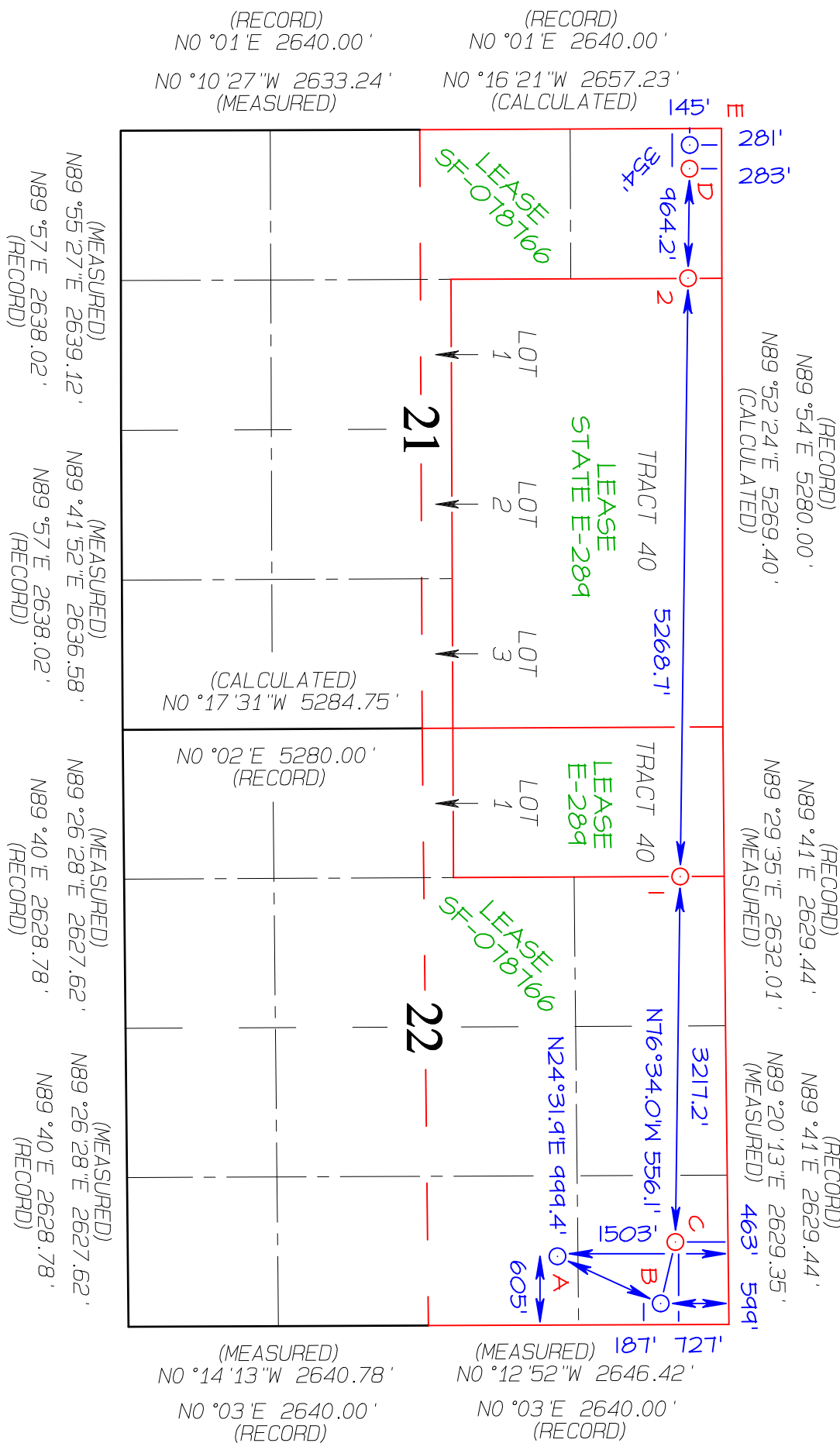
LAT 36.891548°N
LONG -107.475979°W
DATUM: NAD1983

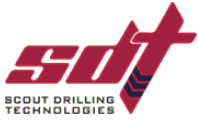
LAT 36.891504°N
LONG -107.472682°W
DATUM: NAD1983

LAT 36.891257°N
LONG -107.454668°W
DATUM: NAD1983

LAT 36.891105°N
LONG -107.443668°W
DATUM: NAD1983

LAT 36.888251°N
LONG -107.443252°W
DATUM: NAD1983





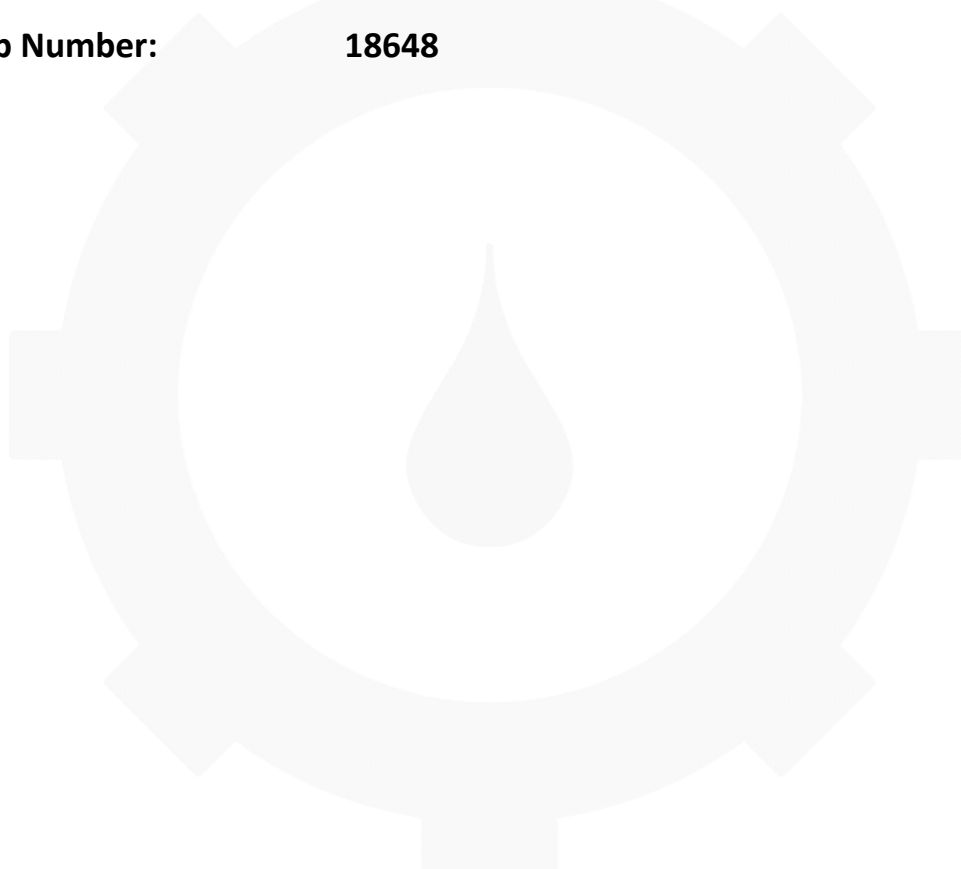
**18648
Logos Operating LLC
Rosa Unit 604H - OH
New Mexico
Rio Arriba
H&P 530**

End Of Well Report - 09/12/2024

**Innovative Drilling Solutions
Data-Driven Decision**

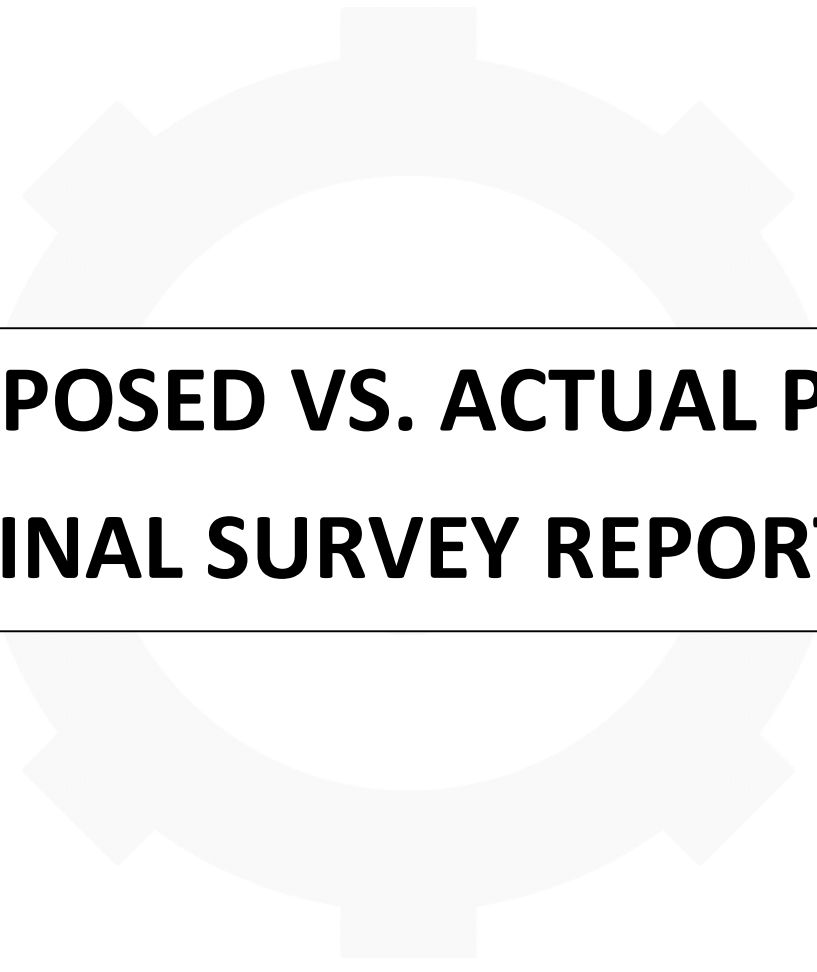


Well Name: Rosa Unit 604H
API Number: 3003931434
County: Rio Arriba County, NM
Scout Job Number: 18648



**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

**Innovative Drilling Solutions
Data-Driven Decision**

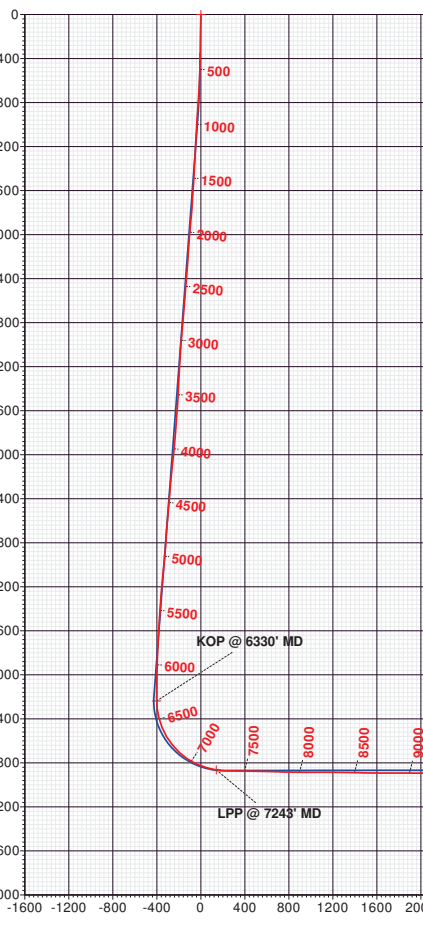
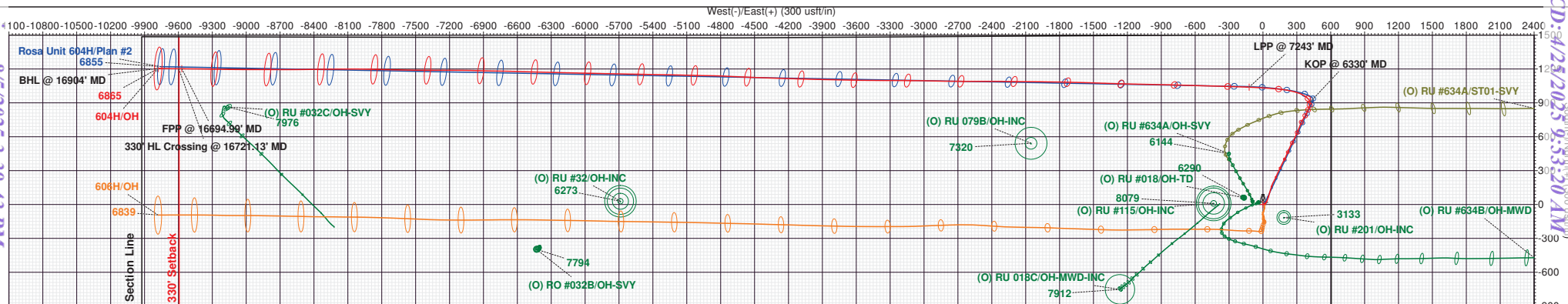
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PROPOSED VS. ACTUAL PLOT FINAL SURVEY REPORT

**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

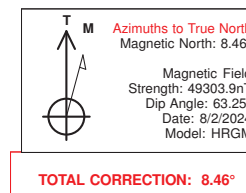
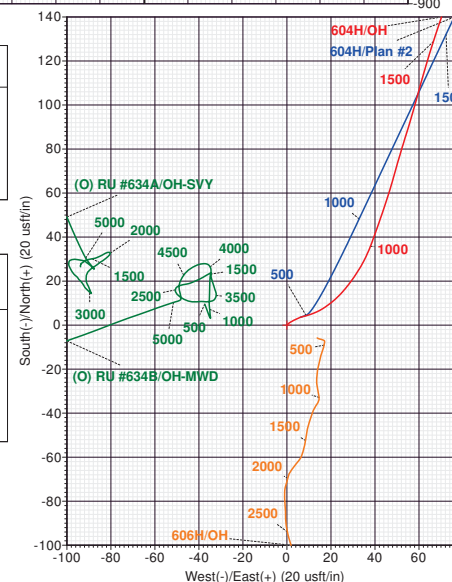


County: Rio Arriba, NM (NAD83)
Site: Rosa Unit 9
Well: Rosa Unit 604H
Depth Reference: 6260+30 @ 6290.00usft (H&P 530)
Rig: H&P 530
Plan: OH
Job #: 18648



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
6330.00	6.48	347.88	6238.20	907.64	418.79	-402.08	1010.86	KOP @ 6330' MD	
7243.00	80.07	272.38	6864.04	1039.05	-121.59	140.61	1586.04	LPP @ 7243' MD	
16694.99	89.77	270.42	6864.70	1202.12	-9570.29	9590.71	11036.84	FPP @ 16694.99' MD	
16721.13	89.83	270.48	6864.79	1202.33	-9596.43	9616.85	11062.98	330' HL Crossing @ 16721.13' MD	
16904.00	89.93	270.88	6865.01	1204.52	-9779.29	9799.72	11245.85	BHL @ 16904' MD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RU 604H SHL	0.00	0.00	0.00	2142882.02	2837165.31	36.888251	-107.443252
RU 604H KOP	6238.20	907.64	418.79	2143791.37	2837580.39	36.890744	-107.441820
RU 604H LPP	6864.04	1039.05	-121.59	2143920.57	2837039.48	36.891105	-107.443668
RU 604H FPP	6864.70	1202.12	-9570.29	2144045.02	2827590.19	36.891548	-107.475979
RU 604H BHL	6865.01	1204.52	-9779.29	2144046.57	2827381.18	36.891555	-107.476694



Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 9

Rosa Unit 604H

OH

Design: OH

Standard Survey Report

24 September, 2024

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Project	Rio Arriba, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		Rosa Unit 9				
Site Position:		Northing:	2,142,882.02	usft	Latitude:	36.888251
From:	Lat/Long	Easting:	2,837,165.31	usft	Longitude:	-107.443252
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well	Rosa Unit 604H					
Well Position	+N/-S	0.00 usft	Northing:	2,142,882.02 usft	Latitude:	36.888251
	+E/-W	0.00 usft	Easting:	2,837,165.31 usft	Longitude:	-107.443252
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,260.00 usft
Grid Convergence:		0.23 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/2/2024	8.46	63.25	49,303.89137376

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	271.05	

Survey Program	Date	9/24/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
45.08	351.50	Survey #1 (OH)	Standard Keeper 105	Standard Wireline Keeper ver 1.0.5	
448.00	16,831.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
16,904.00	16,904.00	Survey #3 (OH)	A026Ua_BLIND	OWSG BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45.08	1.65	43.83	45.07	0.47	0.45	-0.44	3.66	3.66	0.00	
86.58	1.71	59.98	86.56	1.21	1.40	-1.38	1.15	0.14	38.92	
123.72	1.58	58.56	123.68	1.75	2.32	-2.28	0.37	-0.35	-3.82	
151.60	1.20	62.56	151.55	2.09	2.90	-2.86	1.41	-1.36	14.35	
181.70	1.30	65.17	181.65	2.38	3.49	-3.45	0.38	0.33	8.67	
213.64	0.97	65.72	213.58	2.64	4.07	-4.02	1.03	-1.03	1.72	
242.88	1.17	66.02	242.81	2.86	4.57	-4.51	0.68	0.68	1.03	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
271.43	1.00	64.64	271.36	3.09	5.06	-5.00	0.60	-0.60	-4.83	
300.07	0.73	65.66	300.00	3.27	5.45	-5.39	0.94	-0.94	3.56	
328.21	0.77	62.93	328.13	3.43	5.78	-5.72	0.19	0.14	-9.70	
351.50	1.03	71.19	351.42	3.57	6.12	-6.05	1.24	1.12	35.47	
448.00	1.11	77.11	447.90	4.06	7.85	-7.78	0.14	0.08	6.13	
537.00	1.74	73.13	536.88	4.64	9.98	-9.90	0.72	0.71	-4.47	
625.00	3.07	66.55	624.80	5.97	13.43	-13.31	1.54	1.51	-7.48	
742.00	4.90	51.79	741.51	10.31	20.23	-20.03	1.78	1.56	-12.62	
837.00	6.28	39.66	836.06	16.82	26.73	-26.42	1.90	1.45	-12.77	
928.00	7.68	31.46	926.39	25.83	33.08	-32.60	1.88	1.54	-9.01	
1,019.00	10.07	19.98	1,016.30	38.50	38.97	-38.26	3.26	2.63	-12.62	
1,109.00	10.54	18.51	1,104.85	53.70	44.28	-43.29	0.60	0.52	-1.63	
1,199.00	10.06	15.50	1,193.40	69.08	48.99	-47.72	0.80	-0.53	-3.34	
1,294.00	11.57	17.35	1,286.71	86.17	54.05	-52.46	1.63	1.59	1.95	
1,388.00	11.78	15.14	1,378.76	104.43	59.37	-57.44	0.53	0.22	-2.35	
1,483.00	11.86	17.04	1,471.75	123.13	64.76	-62.49	0.42	0.08	2.00	
1,577.00	12.54	19.27	1,563.62	142.00	70.96	-68.34	0.88	0.72	2.37	
1,672.00	12.01	17.71	1,656.45	161.15	77.37	-74.40	0.66	-0.56	-1.64	
1,766.00	11.66	20.19	1,748.45	179.38	83.62	-80.32	0.66	-0.37	2.64	
1,861.00	11.91	28.54	1,841.46	197.00	91.62	-87.99	1.81	0.26	8.79	
1,955.00	10.67	28.68	1,933.64	213.16	100.43	-96.51	1.32	-1.32	0.15	
2,049.00	10.11	27.59	2,026.10	228.10	108.43	-104.23	0.63	-0.60	-1.16	
2,144.00	9.92	22.38	2,119.65	243.06	115.41	-110.93	0.97	-0.20	-5.48	
2,238.00	10.32	22.57	2,212.19	258.32	121.72	-116.97	0.43	0.43	0.20	
2,333.00	11.02	25.83	2,305.55	274.35	128.94	-123.89	0.97	0.74	3.43	
2,427.00	10.90	25.98	2,397.83	290.43	136.75	-131.40	0.13	-0.13	0.16	
2,522.00	10.89	24.71	2,491.12	306.66	144.44	-138.79	0.25	-0.01	-1.34	
2,616.00	10.78	25.49	2,583.44	322.66	151.93	-145.99	0.19	-0.12	0.83	
2,711.00	11.37	24.69	2,676.67	339.19	159.67	-153.42	0.64	0.62	-0.84	
2,805.00	12.01	25.96	2,768.72	356.40	167.82	-161.26	0.73	0.68	1.35	
2,900.00	11.09	27.88	2,861.80	373.36	176.42	-169.55	1.05	-0.97	2.02	
2,994.00	9.89	28.65	2,954.23	388.44	184.52	-177.37	1.29	-1.28	0.82	
3,089.00	8.67	27.17	3,047.98	401.97	191.70	-184.30	1.31	-1.28	-1.56	
3,183.00	8.48	23.89	3,140.93	414.61	197.74	-190.11	0.56	-0.20	-3.49	
3,278.00	8.14	23.67	3,234.93	427.17	203.28	-195.41	0.36	-0.36	-0.23	
3,368.00	7.95	22.91	3,324.05	438.74	208.26	-200.18	0.24	-0.21	-0.84	
3,474.00	7.22	23.36	3,429.12	451.61	213.75	-205.44	0.69	-0.69	0.42	
3,569.00	8.50	25.37	3,523.23	463.43	219.13	-210.60	1.38	1.35	2.12	
3,663.00	11.06	25.19	3,615.85	477.87	225.94	-217.15	2.72	2.72	-0.19	
3,758.00	10.78	21.88	3,709.13	494.36	233.13	-224.03	0.72	-0.29	-3.48	
3,852.00	11.18	24.39	3,801.41	510.82	240.17	-230.77	0.66	0.43	2.67	
3,947.00	11.71	26.06	3,894.52	527.87	248.21	-238.49	0.66	0.56	1.76	
4,041.00	12.69	28.44	3,986.40	545.52	257.32	-247.28	1.17	1.04	2.53	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,136.00	12.32	31.61	4,079.15	563.32	267.60	-257.23	0.82	-0.39	3.34	
4,231.00	12.51	27.09	4,171.93	581.11	277.60	-266.90	1.04	0.20	-4.76	
4,325.00	11.99	24.51	4,263.79	599.06	286.28	-275.26	0.80	-0.55	-2.74	
4,419.00	12.18	23.39	4,355.70	617.05	294.27	-282.91	0.32	0.20	-1.19	
4,514.00	13.69	22.90	4,448.29	636.60	302.62	-290.91	1.59	1.59	-0.52	
4,608.00	12.49	23.05	4,539.85	656.20	310.93	-298.86	1.28	-1.28	0.16	
4,702.00	11.83	23.09	4,631.74	674.42	318.69	-306.28	0.70	-0.70	0.04	
4,797.00	11.98	20.91	4,724.69	692.59	326.03	-313.28	0.50	0.16	-2.29	
4,891.00	11.93	20.95	4,816.66	710.78	332.98	-319.90	0.05	-0.05	0.04	
4,985.00	11.83	24.09	4,908.64	728.65	340.39	-326.98	0.70	-0.11	3.34	
5,079.00	11.49	30.35	5,000.71	745.52	349.06	-335.34	1.39	-0.36	6.66	
5,142.00	11.29	33.16	5,062.47	756.10	355.60	-341.68	0.94	-0.32	4.46	
5,205.00	10.64	32.14	5,124.32	766.19	362.07	-347.97	1.08	-1.03	-1.62	
5,268.00	10.58	30.73	5,186.24	776.08	368.12	-353.83	0.42	-0.10	-2.24	
5,331.00	9.89	29.45	5,248.24	785.77	373.73	-359.27	1.15	-1.10	-2.03	
5,395.00	9.33	26.28	5,311.34	795.20	378.73	-364.10	1.20	-0.88	-4.95	
5,458.00	9.05	26.73	5,373.53	804.21	383.22	-368.42	0.46	-0.44	0.71	
5,521.00	8.87	25.08	5,435.76	813.03	387.51	-372.54	0.50	-0.29	-2.62	
5,646.00	8.69	25.00	5,559.30	830.32	395.58	-380.30	0.14	-0.14	-0.06	
5,709.00	8.64	25.90	5,621.58	838.89	399.66	-384.22	0.23	-0.08	1.43	
5,772.00	8.70	21.71	5,683.86	847.57	403.49	-387.89	1.01	0.10	-6.65	
5,835.00	8.45	18.06	5,746.15	856.40	406.69	-390.93	0.95	-0.40	-5.79	
5,898.00	7.85	16.96	5,808.52	864.92	409.38	-393.46	0.98	-0.95	-1.75	
5,961.00	7.31	18.67	5,870.97	872.83	411.92	-395.85	0.93	-0.86	2.71	
6,024.00	6.62	13.80	5,933.50	880.15	414.07	-397.87	1.44	-1.10	-7.73	
6,087.00	5.73	12.66	5,996.14	886.75	415.62	-399.30	1.43	-1.41	-1.81	
6,184.00	5.00	8.25	6,092.71	895.66	417.29	-400.81	0.86	-0.75	-4.55	
6,300.00	4.28	11.95	6,208.33	904.89	418.91	-402.26	0.67	-0.62	3.19	
6,330.00	6.48	347.88	6,238.20	907.64	418.79	-402.08	10.36	7.34	-80.25	
KOP @ 6330' MD										
6,395.00	12.63	330.35	6,302.28	917.42	414.50	-397.62	10.36	9.46	-26.96	
6,490.00	20.14	317.19	6,393.39	938.48	398.22	-380.95	8.77	7.91	-13.85	
6,584.00	25.89	303.08	6,479.93	961.59	369.98	-352.29	8.44	6.12	-15.01	
6,678.00	32.46	291.74	6,562.03	982.17	329.27	-311.22	9.11	6.99	-12.06	
6,773.00	39.91	284.56	6,638.68	999.31	276.00	-257.64	9.01	7.84	-7.56	
6,868.00	47.38	279.54	6,707.40	1,012.79	211.92	-193.33	8.66	7.86	-5.28	
6,962.00	56.20	275.67	6,765.50	1,022.40	138.79	-120.03	9.92	9.38	-4.12	
7,056.00	65.82	274.01	6,811.01	1,029.27	56.95	-38.08	10.35	10.23	-1.77	
7,151.00	74.13	273.09	6,843.51	1,034.78	-32.05	51.01	8.79	8.75	-0.97	
7,243.00	80.07	272.38	6,864.04	1,039.05	-121.59	140.61	6.50	6.46	-0.77	
LPP @ 7243' MD										
7,245.00	80.20	272.37	6,864.38	1,039.13	-123.56	142.58	6.50	6.46	-0.75	
7,340.00	89.36	271.59	6,873.02	1,042.39	-218.01	237.07	9.68	9.64	-0.82	
7,434.00	89.26	271.90	6,874.15	1,045.25	-311.95	331.06	0.35	-0.11	0.33	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,528.00	89.33	271.74	6,875.30	1,048.24	-405.90	425.04	0.19	0.07	-0.17
7,623.00	89.02	271.42	6,876.67	1,050.86	-500.85	520.03	0.47	-0.33	-0.34
7,718.00	88.55	271.50	6,878.69	1,053.28	-595.80	615.00	0.50	-0.49	0.08
7,812.00	87.98	271.90	6,881.53	1,056.07	-689.72	708.95	0.74	-0.61	0.43
7,907.00	89.13	271.46	6,883.93	1,058.85	-784.64	803.91	1.30	1.21	-0.46
8,001.00	88.79	271.09	6,885.63	1,060.94	-878.60	897.90	0.53	-0.36	-0.39
8,096.00	90.50	271.19	6,886.22	1,062.83	-973.58	992.89	1.80	1.80	0.11
8,191.00	90.03	271.16	6,885.78	1,064.78	-1,068.56	1,087.89	0.50	-0.49	-0.03
8,286.00	89.70	271.40	6,886.01	1,066.90	-1,163.53	1,182.89	0.43	-0.35	0.25
8,380.00	89.16	271.42	6,886.94	1,069.21	-1,257.50	1,276.88	0.57	-0.57	0.02
8,475.00	88.89	271.80	6,888.56	1,071.88	-1,352.45	1,371.86	0.49	-0.28	0.40
8,569.00	88.45	272.05	6,890.74	1,075.04	-1,446.37	1,465.83	0.54	-0.47	0.27
8,664.00	89.70	271.81	6,892.27	1,078.24	-1,541.30	1,560.80	1.34	1.32	-0.25
8,759.00	89.97	271.21	6,892.55	1,080.74	-1,636.27	1,655.80	0.69	0.28	-0.63
8,853.00	89.70	271.80	6,892.82	1,083.21	-1,730.24	1,749.79	0.69	-0.29	0.63
8,948.00	90.00	270.38	6,893.07	1,085.02	-1,825.22	1,844.79	1.53	0.32	-1.49
9,042.00	89.73	271.06	6,893.29	1,086.20	-1,919.21	1,938.79	0.78	-0.29	0.72
9,136.00	91.04	270.53	6,892.66	1,087.50	-2,013.19	2,032.78	1.50	1.39	-0.56
9,230.00	90.71	270.47	6,891.22	1,088.32	-2,107.18	2,126.77	0.36	-0.35	-0.06
9,325.00	90.37	270.53	6,890.33	1,089.15	-2,202.17	2,221.76	0.36	-0.36	0.06
9,419.00	89.90	270.89	6,890.10	1,090.32	-2,296.16	2,315.76	0.63	-0.50	0.38
9,514.00	90.81	269.86	6,889.52	1,090.94	-2,391.16	2,410.75	1.45	0.96	-1.08
9,608.00	90.71	269.87	6,888.27	1,090.72	-2,485.15	2,504.72	0.11	-0.11	0.01
9,703.00	90.67	270.11	6,887.12	1,090.70	-2,580.14	2,599.70	0.26	-0.04	0.25
9,797.00	90.27	270.46	6,886.35	1,091.17	-2,674.14	2,693.68	0.57	-0.43	0.37
9,892.00	90.03	270.46	6,886.11	1,091.93	-2,769.13	2,788.68	0.25	-0.25	0.00
9,986.00	89.60	271.21	6,886.41	1,093.30	-2,863.12	2,882.68	0.92	-0.46	0.80
10,080.00	88.89	271.23	6,887.65	1,095.30	-2,957.09	2,976.67	0.76	-0.76	0.02
10,175.00	90.61	270.28	6,888.06	1,096.55	-3,052.08	3,071.66	2.07	1.81	-1.00
10,269.00	90.20	270.62	6,887.40	1,097.29	-3,146.07	3,165.65	0.57	-0.44	0.36
10,363.00	89.80	270.31	6,887.40	1,098.05	-3,240.07	3,259.65	0.54	-0.43	-0.33
10,458.00	89.66	270.23	6,887.85	1,098.50	-3,335.07	3,354.64	0.17	-0.15	-0.08
10,552.00	89.26	270.22	6,888.73	1,098.87	-3,429.06	3,448.62	0.43	-0.43	-0.01
10,646.00	90.84	270.74	6,888.65	1,099.66	-3,523.06	3,542.61	1.77	1.68	0.55
10,741.00	90.84	271.03	6,887.26	1,101.13	-3,618.03	3,637.60	0.31	0.00	0.31
10,835.00	90.47	271.22	6,886.18	1,102.97	-3,712.01	3,731.60	0.44	-0.39	0.20
10,930.00	90.54	271.14	6,885.34	1,104.93	-3,806.99	3,826.59	0.11	0.07	-0.08
11,024.00	90.37	271.31	6,884.60	1,106.94	-3,900.96	3,920.59	0.26	-0.18	0.18
11,118.00	90.00	271.48	6,884.29	1,109.23	-3,994.93	4,014.59	0.43	-0.39	0.18
11,213.00	89.66	271.61	6,884.58	1,111.79	-4,089.90	4,109.58	0.38	-0.36	0.14
11,307.00	89.26	271.74	6,885.46	1,114.53	-4,183.85	4,203.57	0.45	-0.43	0.14
11,401.00	89.16	271.91	6,886.76	1,117.53	-4,277.80	4,297.56	0.21	-0.11	0.18
11,496.00	88.86	271.94	6,888.40	1,120.72	-4,372.73	4,392.53	0.32	-0.32	0.03

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,590.00	89.50	271.93	6,889.74	1,123.89	-4,466.66	4,486.51	0.68	0.68	-0.01
11,685.00	90.10	272.50	6,890.08	1,127.56	-4,561.59	4,581.49	0.87	0.63	0.60
11,780.00	89.83	272.40	6,890.13	1,131.63	-4,656.51	4,676.46	0.30	-0.28	-0.11
11,874.00	89.46	272.95	6,890.72	1,136.01	-4,750.40	4,770.42	0.71	-0.39	0.59
11,969.00	90.44	271.15	6,890.80	1,139.41	-4,845.33	4,865.40	2.16	1.03	-1.89
12,063.00	90.47	271.29	6,890.05	1,141.41	-4,939.31	4,959.40	0.15	0.03	0.15
12,157.00	90.17	271.32	6,889.53	1,143.55	-5,033.28	5,053.39	0.32	-0.32	0.03
12,252.00	89.70	271.48	6,889.64	1,145.87	-5,128.26	5,148.39	0.52	-0.49	0.17
12,346.00	90.77	270.91	6,889.25	1,147.83	-5,222.23	5,242.39	1.29	1.14	-0.61
12,441.00	90.71	271.08	6,888.02	1,149.48	-5,317.21	5,337.38	0.19	-0.06	0.18
12,536.00	90.91	271.18	6,886.68	1,151.36	-5,412.18	5,432.37	0.24	0.21	0.11
12,630.00	90.84	271.14	6,885.25	1,153.26	-5,506.15	5,526.36	0.09	-0.07	-0.04
12,724.00	90.47	270.96	6,884.17	1,154.98	-5,600.13	5,620.35	0.44	-0.39	-0.19
12,818.00	90.44	271.15	6,883.42	1,156.71	-5,694.11	5,714.35	0.20	-0.03	0.20
12,913.00	90.00	270.80	6,883.06	1,158.33	-5,789.10	5,809.35	0.59	-0.46	-0.37
13,007.00	90.40	271.48	6,882.73	1,160.20	-5,883.08	5,903.35	0.84	0.43	0.72
13,102.00	90.24	271.06	6,882.20	1,162.30	-5,978.05	5,998.35	0.47	-0.17	-0.44
13,197.00	89.83	271.38	6,882.14	1,164.33	-6,073.03	6,093.35	0.55	-0.43	0.34
13,291.00	91.04	271.27	6,881.43	1,166.50	-6,167.00	6,187.34	1.29	1.29	-0.12
13,386.00	91.31	271.51	6,879.48	1,168.80	-6,261.95	6,282.32	0.38	0.28	0.25
13,480.00	91.08	271.51	6,877.52	1,171.28	-6,355.90	6,376.29	0.24	-0.24	0.00
13,574.00	90.91	271.36	6,875.89	1,173.64	-6,449.85	6,470.28	0.24	-0.18	-0.16
13,669.00	90.64	271.66	6,874.60	1,176.14	-6,544.81	6,565.27	0.42	-0.28	0.32
13,763.00	90.47	271.83	6,873.69	1,179.00	-6,638.76	6,659.26	0.26	-0.18	0.18
13,858.00	91.24	270.85	6,872.28	1,181.22	-6,733.73	6,754.24	1.31	0.81	-1.03
13,952.00	91.21	271.10	6,870.27	1,182.82	-6,827.69	6,848.22	0.27	-0.03	0.27
14,047.00	90.94	271.24	6,868.48	1,184.76	-6,922.65	6,943.20	0.32	-0.28	0.15
14,141.00	90.87	271.42	6,867.00	1,186.94	-7,016.62	7,037.19	0.21	-0.07	0.19
14,236.00	91.41	270.16	6,865.11	1,188.25	-7,111.59	7,132.17	1.44	0.57	-1.33
14,331.00	91.18	270.12	6,862.96	1,188.48	-7,206.56	7,227.13	0.25	-0.24	-0.04
14,425.00	90.91	270.05	6,861.25	1,188.62	-7,300.55	7,321.10	0.30	-0.29	-0.07
14,519.00	90.74	270.25	6,859.89	1,188.87	-7,394.54	7,415.08	0.28	-0.18	0.21
14,614.00	90.81	270.27	6,858.61	1,189.30	-7,489.53	7,510.06	0.08	0.07	0.02
14,708.00	89.80	271.29	6,858.11	1,190.58	-7,583.51	7,604.06	1.53	-1.07	1.09
14,803.00	89.66	271.24	6,858.56	1,192.68	-7,678.49	7,699.06	0.16	-0.15	-0.05
14,897.00	89.36	271.05	6,859.36	1,194.56	-7,772.47	7,793.05	0.38	-0.32	-0.20
14,991.00	89.09	271.40	6,860.63	1,196.56	-7,866.44	7,887.04	0.47	-0.29	0.37
15,086.00	88.92	271.27	6,862.28	1,198.78	-7,961.40	7,982.03	0.23	-0.18	-0.14
15,180.00	89.80	269.66	6,863.33	1,199.54	-8,055.38	8,076.01	1.95	0.94	-1.71
15,274.00	90.27	269.53	6,863.27	1,198.88	-8,149.38	8,169.98	0.52	0.50	-0.14
15,369.00	90.17	269.42	6,862.91	1,198.01	-8,244.38	8,264.95	0.16	-0.11	-0.12
15,463.00	90.03	269.35	6,862.74	1,197.00	-8,338.37	8,358.91	0.17	-0.15	-0.07
15,557.00	90.03	269.43	6,862.70	1,196.00	-8,432.37	8,452.87	0.09	0.00	0.09
15,652.00	90.24	269.74	6,862.47	1,195.31	-8,527.36	8,547.84	0.39	0.22	0.33

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,746.00	89.87	269.71	6,862.38	1,194.86	-8,621.36	8,641.81	0.39	-0.39	-0.03
15,841.00	89.70	270.18	6,862.74	1,194.77	-8,716.36	8,736.79	0.53	-0.18	0.49
15,935.00	89.66	270.11	6,863.26	1,195.00	-8,810.36	8,830.78	0.09	-0.04	-0.07
16,029.00	89.70	270.19	6,863.79	1,195.25	-8,904.36	8,924.77	0.10	0.04	0.09
16,123.00	89.63	270.04	6,864.34	1,195.44	-8,998.36	9,018.75	0.18	-0.07	-0.16
16,218.00	89.63	270.26	6,864.95	1,195.69	-9,093.35	9,113.74	0.23	0.00	0.23
16,312.00	89.83	271.18	6,865.39	1,196.87	-9,187.34	9,207.73	1.00	0.21	0.98
16,407.00	90.03	271.03	6,865.51	1,198.70	-9,282.33	9,302.73	0.26	0.21	-0.16
16,501.00	90.24	270.84	6,865.29	1,200.23	-9,376.31	9,396.73	0.30	0.22	-0.20
16,595.00	90.37	270.50	6,864.79	1,201.33	-9,470.31	9,490.73	0.39	0.14	-0.36
16,690.00	89.76	270.41	6,864.68	1,202.09	-9,565.30	9,585.72	0.65	-0.64	-0.09
16,694.99	89.77	270.42	6,864.70	1,202.12	-9,570.29	9,590.71	0.32	0.22	0.23
FPP @ 16694.99' MD									
16,721.13	89.83	270.48	6,864.79	1,202.33	-9,596.43	9,616.85	0.32	0.22	0.23
330' HL Crossing @ 16721.13' MD									
16,784.00	89.97	270.63	6,864.90	1,202.94	-9,659.30	9,679.72	0.32	0.22	0.23
16,904.00	89.93	270.88	6,865.01	1,204.52	-9,779.29	9,799.72	0.21	-0.03	0.21
BHL @ 16904' MD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 604H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,142,882.02	2,837,165.31	36.888251	-107.443252
RU 604H KOP - actual wellpath hits target center - Point	0.00	0.00	6,238.20	907.64	418.79	2,143,791.37	2,837,580.39	36.890744	-107.441820
RU 604H LPP - actual wellpath hits target center - Point	0.00	0.00	6,864.04	1,039.05	-121.59	2,143,920.56	2,837,039.48	36.891105	-107.443668
RU 604H FPP - actual wellpath hits target center - Point	0.00	0.00	6,864.70	1,202.12	-9,570.29	2,144,045.02	2,827,590.19	36.891549	-107.475979
RU 604H BHL - actual wellpath hits target center - Point	0.00	0.00	6,865.01	1,204.52	-9,779.29	2,144,046.56	2,827,381.19	36.891555	-107.476694

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,330.00	6,238.20	907.64	418.79	KOP @ 6330' MD
7,243.00	6,864.04	1,039.05	-121.59	LPP @ 7243' MD
16,694.99	6,864.70	1,202.12	-9,570.29	FPP @ 16694.99' MD
16,721.13	6,864.79	1,202.33	-9,596.43	330' HL Crossing @ 16721.13' MD
16,904.00	6,865.01	1,204.52	-9,779.29	BHL @ 16904' MD

Checked By: _____

Approved By: _____

Date: _____

AMENDED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: LOGOS OPERATING, LLC	OGRID: 289408
Property Name and Well Number: ROSA UNIT 604H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31434
Pool Name: BASIN MANCOS	Pool Code: 97232

Section 2 – Well Location										
	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	H	22	31N	6W		1503’	North	605’	East	Rio Arriba
BHL	D	21	31N	6W		281’	North	145’	West	Rio Arriba

Section 3 – Completion Information

Date T.D. Reached 9/10/24	Total Measured Depth of Well 16,904 (TD)	Acid Volume (bbls) 1,190	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 9/14/24	Plug-Back Measured Depth 16,785	Completion Fluid Used (bbls) 589,174	Were Logs Ran (Y/N) Yes
Completion Date 11/2/24	Perforations (MD and TVD) 7,243’-16,695’ (MD)- 6,864’-6,865’ (TVD)	Completion Proppant Used (lbs) 21,580 lbs	List Type of Logs Ran if applicable: Radial Bond Log, Casing Collars, Gamma Ray/VDL

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 356292	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 378136	NOI Recomplete Action ID (if applicable): N/A
Intermediate 2 Casing Action ID: 391371	NOI Plugback Action ID (if applicable): N/A
Production Casing Action ID: 391908	Cement Squeeze Action ID (if applicable): N/A
Tubing Action ID: Pending	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID: N/A	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 11/11/24	Production Method Flowing	Well Status Flowing	Gas – Oil Ratio n/a
Date of Test 11/11/24	Choke Size 20/64	Flowing Tubing Pressure n/a	Casing Pressure 2554
24 hr Oil (bbls) 0	24 hr Gas (MCF) 2593	24 hr Water (bbls) 452	Oil Gravity – API n/a
Disposition of Gas: Sold			

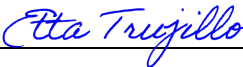
Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.

☐ A Closed Loop System was used.

☒ If an on-site burial was used at the well, report the exact location of the on-site burial:
LAT:36.891500 LONG: -107.428568

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name 	
Title Regulatory Specialist II	Date 3/4/25

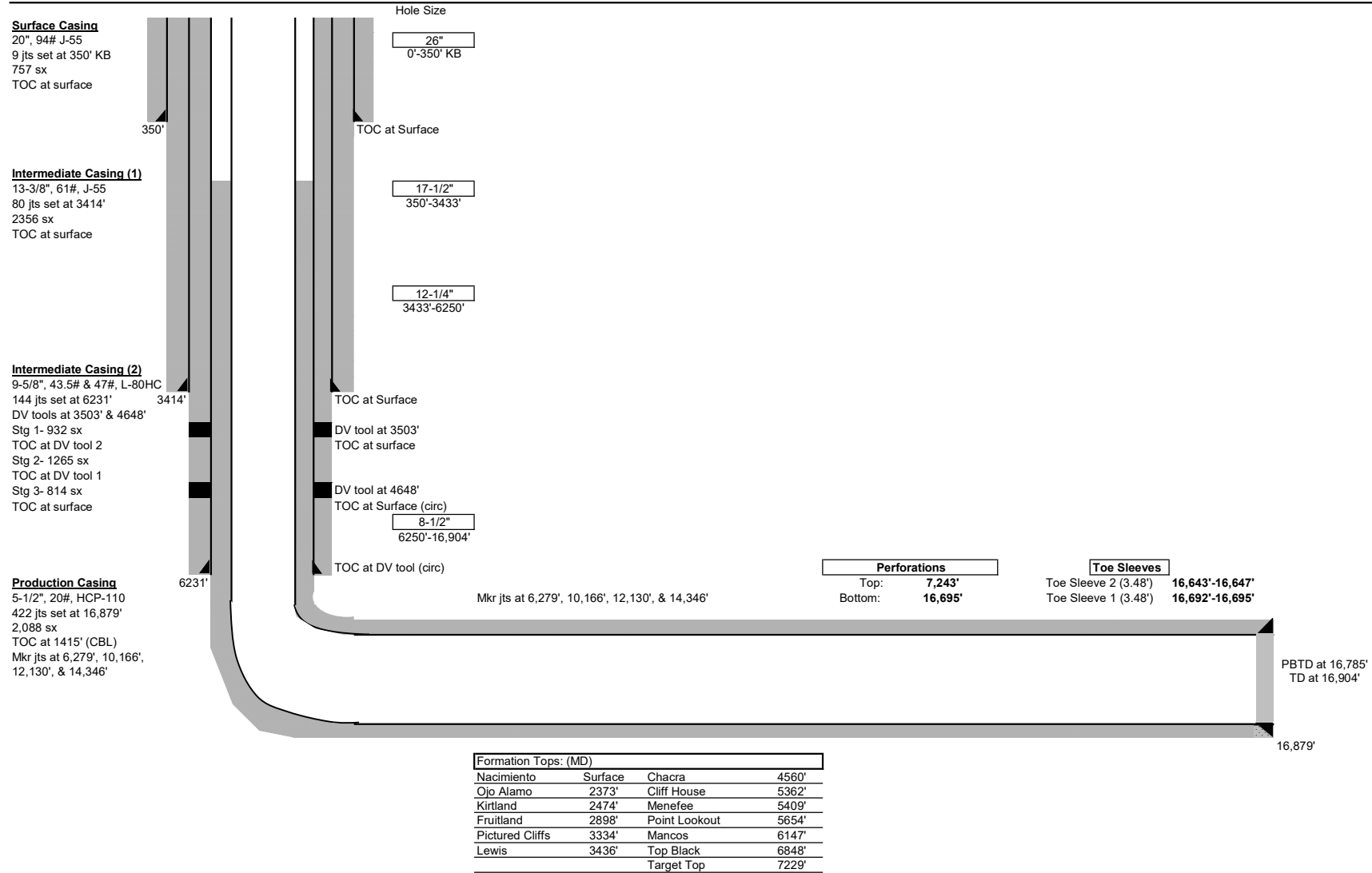
South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo	2373'	2345'	W
T. Yates				T. Kirtland	2474'	2444'	N/A
T. 7 Rivers				T. Fruitland	2898'	2860'	G
T. Queen				T. Pictured Cliffs	3334'	3291'	G
T. Grayburg				T. Lewis Shale	3436'	3392'	G
T. San Andres				T. Chacra	4560'	4493'	G
T. Glorieta				T. Cliff House	5362'	5278'	G
T. Yeso				T. Menefee	5409'	5326'	N/A
T. Paddock				T. Point Lookout	5654'	5567'	G
T. Blinebry				T. Mancos	6147'	6056'	G
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							



Well Name: Rosa Unit 604H
 Location: SHL - H Sec 22, T31N, R06W, 1503' FNL, 605' FEL
 County: Rio Arriba
 API #: 30-039-31434
 Co-ordinates: 36.888251, -107.443252 NAD83
 Operator: LOGOS Operating, LLC

Wellbore Schematic
 Ground Elevation: 6260'
 KB Elevation: 6290'
 TD (TVD): 6865'
 TD (MD): 16,904'
 PBTD: 16,785'

Prepared By: 9/16/2024 Peace
 Reviewed/Signed By:
 Last Updated: 11/13/2024 Gomez
 Spud Date: 6/7/2024
 Completion Date: 11/2/2024
 Last Workover Date: N/A



From: blm-afmss-notifications@blm.gov
To: [Lacey Granillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 604H, Notification of Well Completion Acceptance
Date: Friday, November 29, 2024 11:26:04 AM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **604H**
- US Well Number: **3003931434**
- Well Completion Report Id: **WCR2024112993823**

This notification is automatically generated. Please do not reply to this message as this account is not monitored.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

11/27/2024

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Section 1 - General

Well Completion Report Id: 93823**Submission Date:****BLM Office:** Farmington Field Office**Federal/Indian:** FEDERAL**Lease Number:** NMSF78766**Lease Acres:****Agreement in place?:** YES**Federal or Indian Agreement:** FEDERAL**Agreement Number:** NMNM78407E**Agreement Name:** ROSA UNIT**Additional Information****Keep this Well Completion Report confidential?:** YES**APD Operator:** LOGOS OPERATING LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** BASIN MANCOS**Field Name:** BASIN MANCOS**Well Type:** CONVENTIONAL GAS**Spud Date:** 06-07-2024**Date Total Measured Depth Reached:** 09-10-2024**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		6260	0	0	NONE	
OJO ALAMO	SANDSTONE, SHALE		3960	2345	2373	NONE	
KIRTLAND	SANDSTONE, SHALE		3855	2444	2474	NONE	
FRUITLAND	COAL, SANDSTONE, SHALE		3348	2860	2898	NATURAL GAS	
PICTURED CLIFFS	SANDSTONE, SHALE		3003	3291	3334	NATURAL GAS	
LEWIS	SHALE		2909	3392	3436	NATURAL GAS	
CHACRA	SANDSTONE		1803	4493	4560	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		1006	5278	5362	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		961	5326	5409	NONE	
POINT LOOKOUT	SANDSTONE, SHALE		720	5567	5654	NATURAL GAS	
MANCOS	SANDSTONE, SHALE, SILTSTONE		-575	6056	6147	NATURAL GAS	

Completion and Completed

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM78407E	NMSF078766	NEW		PGW	11-02-2024	11-11-2024	MANCOS	7243	16695	Y	.35		OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	589174	21580	

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1			FLows FROM WELL		SOLD	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	11/11/2024	24	0	2593	452	0	20/64			2554

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.888251	-107.443252	6260	N/A	N/A	FEDERAL	NMSF078766				1503	FNL	605	FEL	31N	6W	22	SENE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.888251	-107.443252	22	6330	6238	FEDERAL	NMSF078766				1503	FNL	605	FEL	31N	6W	22	NENE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891284	-107.476062	6260	0	0	FEDERAL	NMSF078766				0	FNL	0	FWL	31N	6W	21	NWNW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891123	-107.443903	6260	0	0	STATE	STATE				0	FNL	0	FEL	31N	6W	21	Lot 3

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891123	-107.443903	-604	7243	6864	FEDERAL	NMSF078766				456	FNL	796	FEL	31N	6W	22	NENE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891123	-107.443903	6260	0	0	STATE	STATE				0	FNL	0	FEL	31N	6W	22	Lot 1
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891548	-107.475979	-595	16695	6855	FEDERAL	NMSF078766				281	FNL	145	FWL	31N	6W	21	NWNW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.891555	-107.476694	-605	16904	6865	FEDERAL	NMSF078766				281	FNL	145	FWL	31N	6W	21	NWNW

Casing, Liner and Tubing

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	26	0	350	20.0	94	J-55		BUTT		
00	INTERMEDIATE	17.5	0	3414	13.375	61	J-55		LT&C		
00	INTERMEDIATE	12.25	0	6142	9.625	47	L-80		BUTT		
00	PRODUCTION	8.5	0	16879	5.5	20	HCP-110		BUTT		

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield (cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Type I-II Neat G cement	757	1.15	0					155
00	INTERMEDIATE		Class G	1023	1.9	0	class G	242	1.58		2296.2
00	INTERMEDIATE		Lead POZ G	1824	1.9	0	Class G	532	1.1	0	2296.2
00	PRODUCTION		Class g	753	1.8	0	Class g	1335	1.9		508.2

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 604H	US Well Number 3003931434
SHL SENE Sec 22 31N 6W	County RIO ARRIBA	State NM	Lease Number(s) NMSF078766
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name ROSA UNIT	Agreement Number(s) NMNM78407E
Allottee/Tribe Name	Well Pad Name ROSA UNIT	Well Pad Number PAD 9	APD ID 10400088329

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00									

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Attachments

- ROSA_UNIT_604H_LATERAL_LOG_20241127114110.pdf
- Logos__Rosa_Unit_604H_EOWR_SUBMITTED_20241127114136.pdf
- 4.604H_ROSA_UNIT_AS_DRILLED_C_102_signed_20241127114148.pdf
- Rosa_Unit_604H_As_Completed_Well_Schematic_public_20241127114234.pdf

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 455660

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 455660
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 455660

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 455660
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM	8/5/2025