

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) ☒ 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 612H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31432
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
L	23	31N	6W		1814' FSL	448' FWL	36.882852	-107.439650	RIO ARRIBA

Section 3 – Completion Information

Producing Method Flowing	Ready Date 11/12/24	Perforations MD 7,154'-17,007'	Perforations TVD 6885' - 6873'
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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): 391946	Communitization Agreement ☒ Yes ☐ No, Order No. NMNM078407E
Surface Casing Action ID: 281800	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 282446	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: 285503	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 291730	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 #612H
API# 30-039-31432
Section 23 T31N R06W
Rio Arriba County, New Mexico

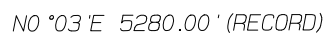
Per 19.15.7.16 (C) of the New Mexico Administrative Code (NMAC) regarding the *Well Completion or Recompletion Report and Log (Form C-105)*, LOGOS Operating, LLC respectfully requests the Division to maintain the confidentiality of Form C-105 and all associated documentation as of **11/12/2024** for a period of 90 days following the acceptance of the referenced documents.

Sincerely,



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

16



SURFACE LOCATION (A)

1814' FSL 448' FWL

SEC 23, T31N, R6W

LAT: 36.882846°N

LONG: -107.439046°W

DATUM: NAD1927

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LAT: 36.882852°N

LONG: -107.439650°W

DATUM: NAD1983



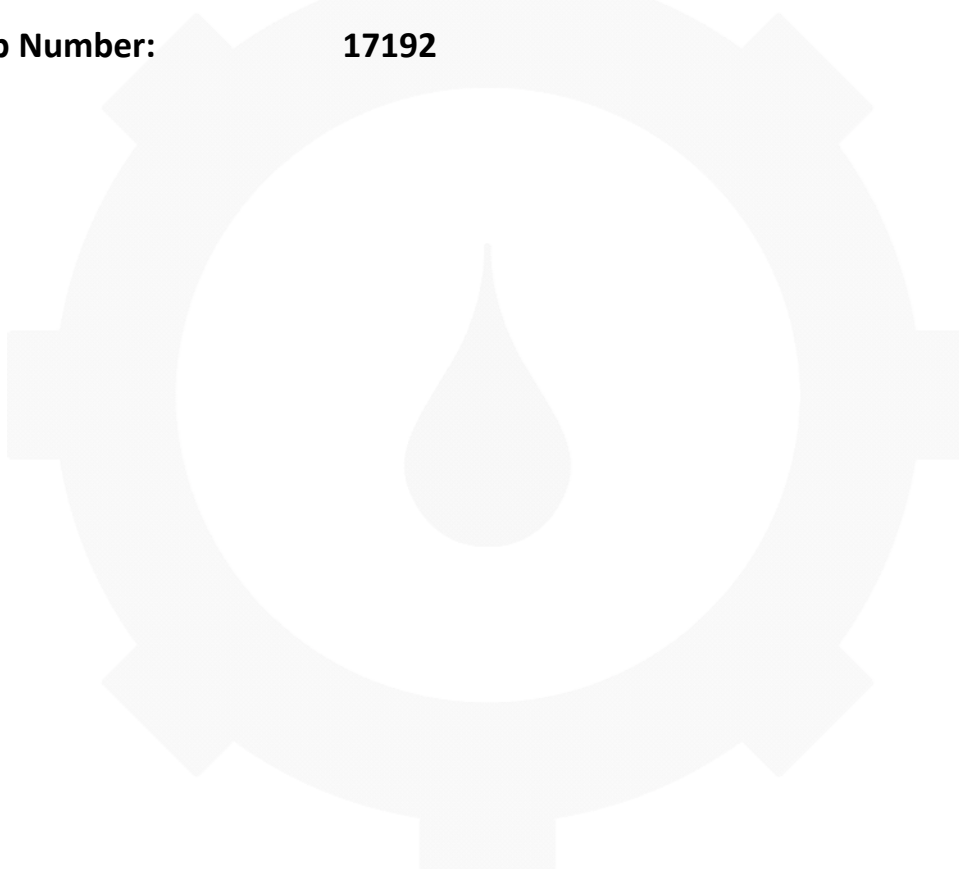
17192
Logos Operating LLC
Rosa Unit 612H - OH
New Mexico
Rio Arriba
H&P 530

End Of Well Report - 11/17/2023

**Innovative Drilling Solutions
Data-Driven Decision**

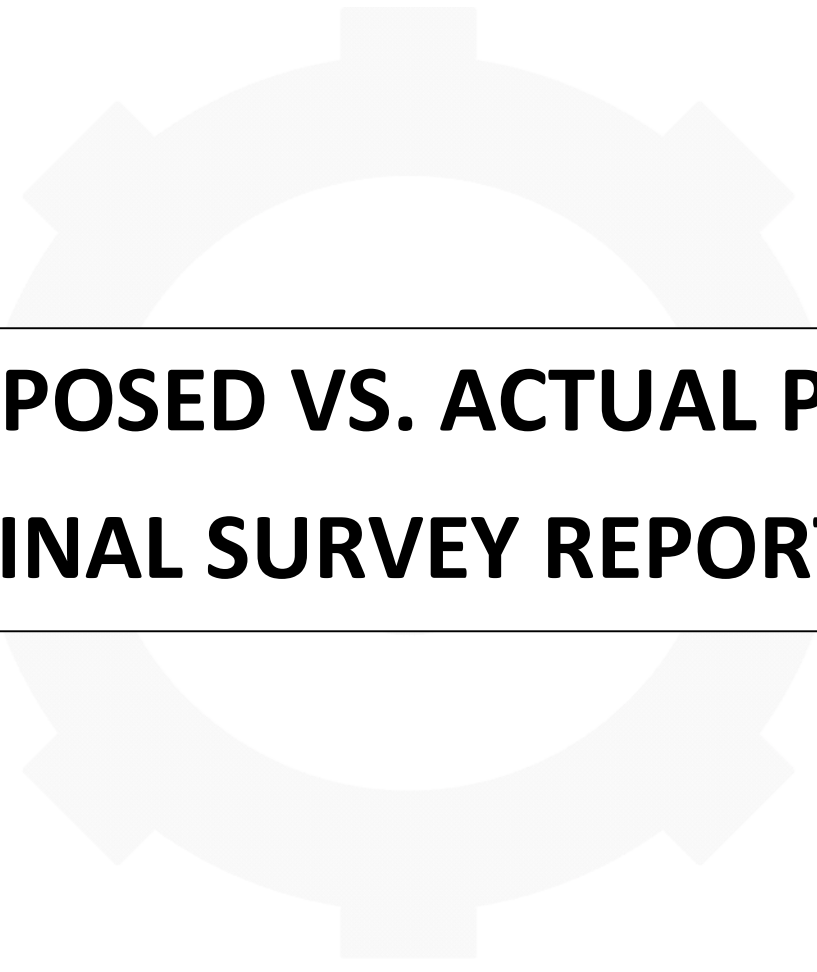


Well Name: Rosa Unit 612H
API Number: 3003931432
County: Rio Arriba County, NM
Scout Job Number: 17192



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

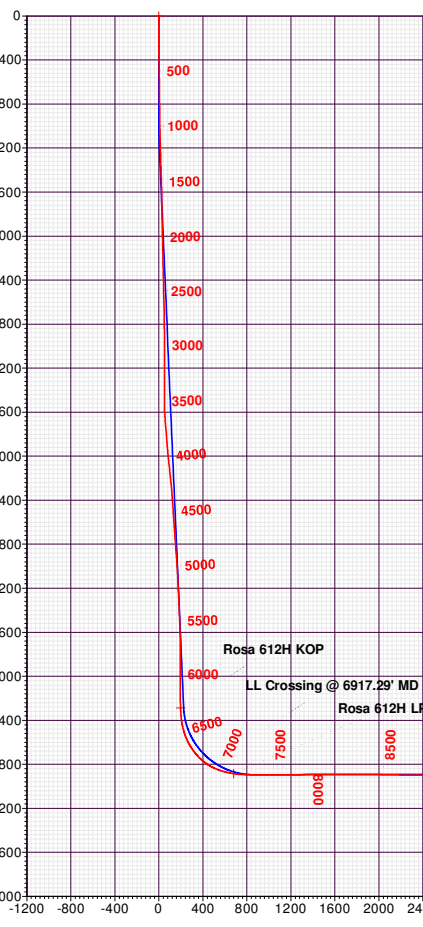
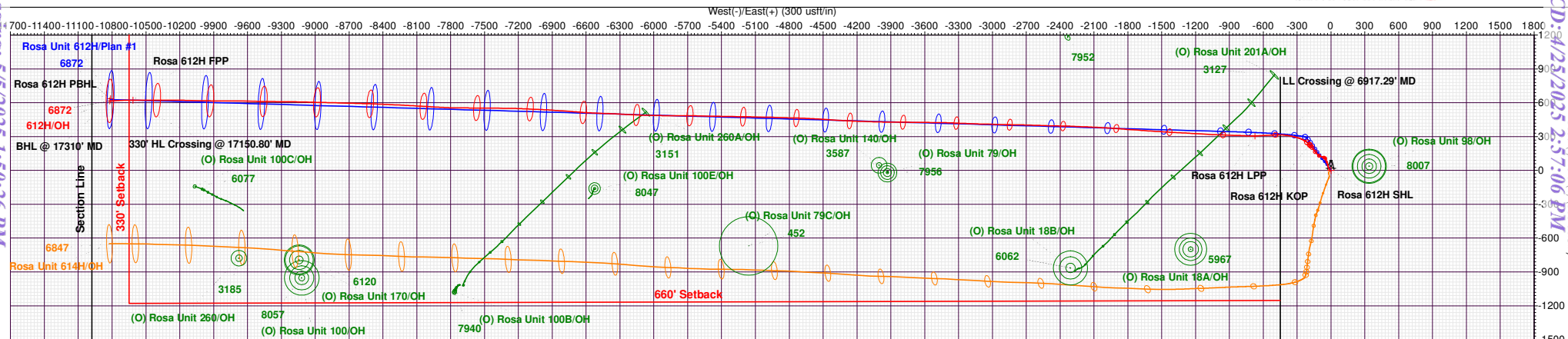
**Innovative Drilling Solutions
Data-Driven Decision**

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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 10
Well: Rosa Unit 612H
Depth Reference: 6287+30 @ 6317.00usft (H&P 530)
Rig: H&P 530
Plan: OH
Job #: 17192

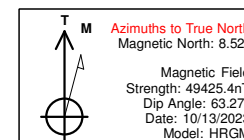
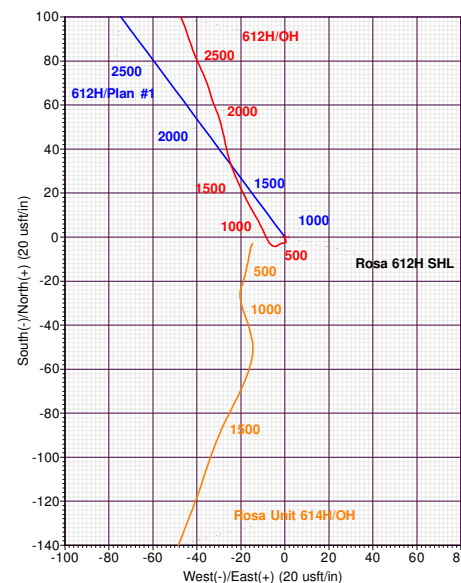


ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation
6917.29	58.98	272.00	6810.71	315.70	-449.09	458.15	614.80	LL Crossing @ 6917.29' MD
17150.80	90.31	268.74	6872.29	621.76	-10660.71	10674.35	10832.60	330' HL Crossing @ 17150.80' MD
17310.00	90.20	267.71	6871.61	616.63	-10891.82	10833.25	10991.80	BHL @ 17310' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northring	Easting	Latitude	Longitude
Rosa 612H SHL	0.00	0.00	0.00	2140920.73	2838226.78	36.882852	-107.439650
Rosa 612H KOP	6287.35	227.76	-190.88	2141147.70	2838034.96	36.883478	-107.440303
Rosa 612H BHL	6871.61	616.63	-10819.82	2141492.72	2827404.50	36.884540	-107.476647
Rosa 612H PBHL	6872.00	635.61	-10813.53	214151.73	2827410.71	36.884592	-107.476625
Rosa 612H FPP	6872.57	622.53	-10614.91	2141499.48	2827609.38	36.884556	-107.475946
Rosa 612H LPP	6885.07	306.39	-672.02	2141224.34	2837553.50	36.883693	-107.441948



TOTAL CORRECTION: 8.52°

Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 10

Rosa Unit 612H

API: 3003931432

OH

Design: OH

Standard Survey Report

14 November, 2023

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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 10			
Site Position:		Northing:	2,140,923.33 usft	Latitude: 36.882859
From:	Lat/Long	Easting:	2,838,241.39 usft	Longitude: -107.439600
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	Rosa Unit 612H			
Well Position	+N/-S	0.00 usft	Northing:	2,140,920.73 usft
	+E/-W	0.00 usft	Easting:	2,838,226.78 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 6,287.00 usft
Grid Convergence:	0.24 °			

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	10/13/2023	8.52	63.27	49,425.38968693

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	271.68	

Survey Program	Date	11/14/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
60.00	340.00	Survey #1 (OH)	A020Ga_GYRO-NS	OWSG Gyrocompass Gyro	
428.00	6,208.00	Survey #2 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
6,302.00	11,790.00	Survey #3 - Corrected Run 1 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
11,884.00	17,175.00	Survey #4 - Corrected Run 2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
17,310.00	17,310.00	Survey #5 (OH)	Project	Projection	

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	
60.00	0.48	165.62	60.00	-0.24	0.06	-0.07	0.80	0.80	0.00	
157.00	0.71	164.62	156.99	-1.22	0.32	-0.36	0.24	0.24	-1.03	
249.00	0.67	178.01	248.99	-2.30	0.49	-0.56	0.18	-0.04	14.55	
340.00	1.16	277.03	339.98	-2.72	-0.40	0.32	1.57	0.54	108.81	
428.00	1.10	240.16	427.96	-3.03	-2.02	1.93	0.81	-0.07	-41.90	

SDT Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
518.00	1.10	237.52	517.95	-3.93	-3.50	3.38	0.06	0.00	-2.93	
609.00	0.70	288.32	608.94	-4.22	-4.76	4.64	0.94	-0.44	55.82	
692.00	0.70	294.39	691.93	-3.85	-5.71	5.59	0.09	0.00	7.31	
817.00	1.10	324.27	816.92	-2.56	-7.10	7.02	0.48	0.32	23.90	
907.00	1.80	333.76	906.89	-0.59	-8.23	8.21	0.82	0.78	10.54	
998.00	1.89	335.52	997.84	2.05	-9.48	9.54	0.12	0.10	1.93	
1,090.00	2.99	332.62	1,089.75	5.56	-11.22	11.38	1.20	1.20	-3.15	
1,181.00	2.90	330.60	1,180.63	9.68	-13.44	13.72	0.15	-0.10	-2.22	
1,275.00	3.52	330.69	1,274.49	14.27	-16.02	16.43	0.66	0.66	0.10	
1,370.00	2.99	334.82	1,369.33	19.05	-18.50	19.05	0.61	-0.56	4.35	
1,464.00	3.52	334.20	1,463.18	23.87	-20.80	21.49	0.57	0.56	-0.66	
1,559.00	4.22	338.60	1,557.96	29.75	-23.34	24.21	0.80	0.74	4.63	
1,654.00	3.78	344.31	1,652.73	36.02	-25.47	26.51	0.62	-0.46	6.01	
1,748.00	4.22	347.74	1,746.50	42.38	-27.04	28.27	0.53	0.47	3.65	
1,842.00	3.69	347.39	1,840.28	48.71	-28.43	29.85	0.56	-0.56	-0.37	
1,937.00	3.12	341.67	1,935.11	54.15	-29.91	31.49	0.70	-0.60	-6.02	
2,031.00	3.30	337.81	2,028.96	59.08	-31.74	33.46	0.30	0.19	-4.11	
2,125.00	3.30	342.64	2,122.81	64.17	-33.57	35.44	0.30	0.00	5.14	
2,220.00	3.52	341.67	2,217.64	69.55	-35.30	37.33	0.24	0.23	-1.02	
2,314.00	4.09	334.38	2,311.43	75.31	-37.66	39.85	0.79	0.61	-7.76	
2,409.00	3.60	337.02	2,406.22	81.11	-40.29	42.65	0.55	-0.52	2.78	
2,504.00	2.81	340.09	2,501.07	86.05	-42.25	44.75	0.85	-0.83	3.23	
2,598.00	2.90	342.11	2,594.95	90.47	-43.76	46.40	0.14	0.10	2.15	
2,693.00	2.90	340.09	2,689.83	95.02	-45.32	48.08	0.11	0.00	-2.13	
2,788.00	2.68	336.84	2,784.72	99.32	-47.01	49.90	0.29	-0.23	-3.42	
2,882.00	2.29	336.14	2,878.63	103.06	-48.63	51.63	0.42	-0.41	-0.74	
2,977.00	1.58	340.97	2,973.58	106.03	-49.83	52.92	0.77	-0.75	5.08	
3,072.00	1.32	351.25	3,068.55	108.35	-50.42	53.58	0.39	-0.27	10.82	
3,166.00	0.48	54.10	3,162.53	109.66	-50.27	53.46	1.26	-0.89	66.86	
3,261.00	0.62	86.79	3,257.53	109.92	-49.43	52.63	0.36	0.15	34.41	
3,343.00	0.62	98.30	3,339.53	109.88	-48.55	51.75	0.15	0.00	14.04	
3,488.00	0.22	356.44	3,484.52	110.04	-47.79	51.00	0.48	-0.28	-70.25	
3,582.00	2.20	285.78	3,578.50	110.71	-49.54	52.76	2.27	2.11	-75.17	
3,677.00	4.09	288.68	3,673.35	112.29	-54.50	57.77	2.00	1.99	3.05	
3,772.00	4.79	283.49	3,768.07	114.31	-61.57	64.89	0.85	0.74	-5.46	
3,866.00	4.70	288.50	3,861.74	116.44	-69.04	72.42	0.45	-0.10	5.33	
3,961.00	5.58	286.21	3,956.36	118.97	-77.16	80.62	0.95	0.93	-2.41	
4,055.00	6.59	292.89	4,049.83	122.34	-86.52	90.07	1.31	1.07	7.11	
4,149.00	6.20	287.97	4,143.25	126.00	-96.32	99.97	0.72	-0.41	-5.23	
4,244.00	6.50	299.66	4,237.67	130.25	-105.87	109.65	1.39	0.32	12.31	
4,338.00	6.50	315.48	4,331.07	136.68	-114.23	118.19	1.90	0.00	16.83	
4,432.00	6.02	317.59	4,424.51	144.11	-121.28	125.46	0.57	-0.51	2.24	
4,527.00	5.01	314.69	4,519.07	150.70	-127.59	131.96	1.10	-1.06	-3.05	
4,622.00	5.71	315.39	4,613.65	156.99	-133.86	138.40	0.74	0.74	0.74	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)
4,716.00	6.90	325.85	4,707.09	164.99	-140.31	145.09	1.75	1.27	11.13
4,811.00	6.59	327.79	4,801.43	174.32	-146.42	151.47	0.40	-0.33	2.04
4,906.00	7.69	323.21	4,895.69	184.03	-153.14	158.46	1.30	1.16	-4.82
5,000.00	6.02	324.01	4,989.02	193.05	-159.80	165.39	1.78	-1.78	0.85
5,063.00	5.32	323.66	5,051.71	198.08	-163.47	169.21	1.11	-1.11	-0.56
5,126.00	4.88	323.39	5,114.46	202.58	-166.80	172.67	0.70	-0.70	-0.43
5,190.00	4.31	319.61	5,178.25	206.60	-169.98	175.97	1.01	-0.89	-5.91
5,252.00	4.09	321.72	5,240.09	210.11	-172.86	178.95	0.43	-0.35	3.40
5,315.00	3.91	319.00	5,302.93	213.49	-175.66	181.85	0.42	-0.29	-4.32
5,378.00	3.52	319.79	5,365.80	216.59	-178.32	184.59	0.62	-0.62	1.25
5,441.00	3.30	319.96	5,428.69	219.46	-180.73	187.09	0.35	-0.35	0.27
5,504.00	2.90	322.16	5,491.60	222.10	-182.88	189.31	0.66	-0.63	3.49
5,567.00	2.81	324.89	5,554.52	224.62	-184.74	191.25	0.26	-0.14	4.33
5,631.00	2.29	321.55	5,618.46	226.91	-186.44	193.01	0.84	-0.81	-5.22
5,694.00	1.32	319.35	5,681.42	228.45	-187.70	194.31	1.54	-1.54	-3.49
5,756.00	0.48	311.00	5,743.41	229.16	-188.36	195.00	1.37	-1.35	-13.47
5,819.00	0.09	255.54	5,806.41	229.32	-188.61	195.25	0.69	-0.62	-88.03
5,882.00	0.31	209.84	5,869.41	229.16	-188.74	195.38	0.41	0.35	-72.54
5,945.00	0.62	163.78	5,932.41	228.68	-188.73	195.35	0.73	0.49	-73.11
6,008.00	0.62	170.46	5,995.41	228.02	-188.58	195.18	0.11	0.00	10.60
6,071.00	0.88	194.37	6,058.40	227.22	-188.64	195.22	0.64	0.41	37.95
6,107.00	0.40	186.11	6,094.40	226.82	-188.72	195.29	1.35	-1.33	-22.94
6,208.00	0.40	206.32	6,195.40	226.16	-188.92	195.47	0.14	0.00	20.01
6,302.00	3.35	316.22	6,289.35	227.85	-190.96	197.56	3.73	3.14	116.91
6,397.00	9.12	321.72	6,383.74	235.77	-197.55	204.38	6.10	6.07	5.79
6,491.00	17.17	307.41	6,475.23	250.07	-213.22	220.46	9.17	8.56	-15.22
6,586.00	25.16	298.90	6,563.77	268.38	-242.09	249.85	8.99	8.41	-8.96
6,681.00	33.96	288.34	6,646.38	286.54	-285.07	293.35	10.73	9.26	-11.12
6,776.00	42.28	282.79	6,721.07	301.99	-341.53	350.24	9.46	8.76	-5.84
6,871.00	53.22	275.98	6,784.89	313.07	-410.79	419.79	12.67	11.52	-7.17
6,965.00	65.02	268.38	6,833.10	315.80	-491.19	500.23	14.33	12.55	-8.09
7,060.00	75.22	265.54	6,865.37	311.00	-580.27	589.13	11.10	10.74	-2.99
7,154.00	80.58	268.67	6,885.07	306.39	-672.02	680.71	6.57	5.70	3.33
7,249.00	88.72	272.88	6,893.93	307.69	-766.49	775.18	9.64	8.57	4.43
7,336.00	90.26	271.81	6,894.70	311.25	-853.41	862.17	2.15	1.77	-1.23
Actual POE @ 7336' MD									
7,344.00	90.40	271.71	6,894.66	311.49	-861.41	870.17	2.15	1.77	-1.23
7,438.00	89.97	271.71	6,894.35	314.30	-955.37	964.17	0.46	-0.46	0.00
7,533.00	90.00	273.12	6,894.38	318.30	-1,050.28	1,059.16	1.48	0.03	1.48
7,628.00	89.56	273.17	6,894.74	323.51	-1,145.13	1,154.13	0.47	-0.46	0.05
7,723.00	90.87	273.21	6,894.39	328.80	-1,239.98	1,249.09	1.38	1.38	0.04
7,818.00	90.37	272.91	6,893.36	333.87	-1,334.84	1,344.06	0.61	-0.53	-0.32
7,913.00	90.13	273.23	6,892.94	338.96	-1,429.71	1,439.03	0.42	-0.25	0.34

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
8,008.00	90.30	273.59	6,892.59	344.61	-1,524.54	1,533.98	0.42	0.18	0.38	
8,102.00	90.00	273.76	6,892.34	350.63	-1,618.34	1,627.93	0.37	-0.32	0.18	
8,197.00	90.00	274.16	6,892.34	357.19	-1,713.12	1,722.85	0.42	0.00	0.42	
8,291.00	89.87	274.22	6,892.45	364.06	-1,806.86	1,816.76	0.15	-0.14	0.06	
8,386.00	89.73	274.80	6,892.78	371.53	-1,901.57	1,911.64	0.63	-0.15	0.61	
8,481.00	88.86	272.51	6,893.95	377.59	-1,996.36	2,006.57	2.58	-0.92	-2.41	
8,576.00	88.99	273.34	6,895.73	382.43	-2,091.22	2,101.53	0.88	0.14	0.87	
8,670.00	89.56	272.25	6,896.92	387.02	-2,185.10	2,195.51	1.31	0.61	-1.16	
8,765.00	89.23	272.40	6,897.92	390.87	-2,280.02	2,290.49	0.38	-0.35	0.16	
8,859.00	90.00	270.96	6,898.56	393.63	-2,373.97	2,384.49	1.74	0.82	-1.53	
8,954.00	89.70	271.40	6,898.80	395.58	-2,468.95	2,479.49	0.56	-0.32	0.46	
9,048.00	89.46	271.81	6,899.49	398.21	-2,562.91	2,573.48	0.51	-0.26	0.44	
9,142.00	89.19	272.13	6,900.60	401.45	-2,656.85	2,667.47	0.45	-0.29	0.34	
9,237.00	90.13	270.69	6,901.16	403.78	-2,751.81	2,762.47	1.81	0.99	-1.52	
9,331.00	89.63	270.93	6,901.36	405.11	-2,845.80	2,856.46	0.59	-0.53	0.26	
9,425.00	89.56	271.53	6,902.03	407.13	-2,939.78	2,950.45	0.64	-0.07	0.64	
9,520.00	89.29	271.48	6,902.98	409.62	-3,034.74	3,045.45	0.29	-0.28	-0.05	
9,615.00	89.33	272.12	6,904.12	412.61	-3,129.69	3,140.44	0.67	0.04	0.67	
9,709.00	89.09	272.03	6,905.42	416.01	-3,223.62	3,234.43	0.27	-0.26	-0.10	
9,804.00	88.86	272.52	6,907.12	419.78	-3,318.53	3,329.41	0.57	-0.24	0.52	
9,898.00	88.15	271.23	6,909.57	422.86	-3,412.44	3,423.37	1.57	-0.76	-1.37	
9,993.00	89.66	270.78	6,911.39	424.52	-3,507.41	3,518.34	1.66	1.59	-0.47	
10,088.00	89.33	271.03	6,912.22	426.02	-3,602.39	3,613.33	0.44	-0.35	0.26	
10,182.00	89.93	270.19	6,912.83	427.02	-3,696.38	3,707.31	1.10	0.64	-0.89	
10,277.00	89.70	270.42	6,913.14	427.53	-3,791.38	3,802.28	0.34	-0.24	0.24	
10,371.00	89.60	270.03	6,913.71	427.90	-3,885.38	3,896.25	0.43	-0.11	-0.41	
10,466.00	90.98	271.46	6,913.23	429.13	-3,980.36	3,991.23	2.09	1.45	1.51	
10,560.00	90.71	271.83	6,911.84	431.83	-4,074.31	4,085.22	0.49	-0.29	0.39	
10,655.00	90.57	272.09	6,910.78	435.08	-4,169.25	4,180.22	0.31	-0.15	0.27	
10,749.00	90.64	272.82	6,909.79	439.11	-4,263.16	4,274.20	0.78	0.07	0.78	
10,844.00	90.44	273.34	6,908.90	444.21	-4,358.02	4,369.17	0.59	-0.21	0.55	
10,939.00	90.37	273.57	6,908.22	449.94	-4,452.84	4,464.12	0.25	-0.07	0.24	
11,033.00	90.00	273.54	6,907.92	455.76	-4,546.66	4,558.07	0.39	-0.39	-0.03	
11,128.00	90.97	273.07	6,907.12	461.24	-4,641.50	4,653.03	1.13	1.02	-0.49	
11,223.00	90.67	271.13	6,905.76	464.72	-4,736.42	4,748.01	2.07	-0.32	-2.04	
11,318.00	90.67	271.87	6,904.65	467.21	-4,831.38	4,843.00	0.78	0.00	0.78	
11,412.00	90.37	271.85	6,903.79	470.26	-4,925.33	4,937.00	0.32	-0.32	-0.02	
11,506.00	89.53	271.18	6,903.87	472.74	-5,019.29	5,031.00	1.14	-0.89	-0.71	
11,601.00	89.26	271.26	6,904.88	474.77	-5,114.27	5,125.99	0.30	-0.28	0.08	
11,695.00	90.00	270.60	6,905.48	476.29	-5,208.25	5,219.98	1.05	0.79	-0.70	
11,790.00	90.00	270.80	6,905.48	477.45	-5,303.24	5,314.96	0.21	0.00	0.21	
11,884.00	89.97	271.47	6,905.51	479.31	-5,397.22	5,408.96	0.71	-0.03	0.71	
11,978.00	90.07	271.18	6,905.48	481.49	-5,491.20	5,502.95	0.33	0.11	-0.31	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
12,072.00	90.00	271.21	6,905.42	483.45	-5,585.18	5,596.95	0.08	-0.07	0.03	
12,167.00	90.17	270.54	6,905.28	484.90	-5,680.17	5,691.94	0.73	0.18	-0.71	
12,262.00	90.47	270.32	6,904.75	485.61	-5,775.16	5,786.92	0.39	0.32	-0.23	
12,356.00	90.64	269.71	6,903.84	485.64	-5,869.16	5,880.87	0.67	0.18	-0.65	
12,450.00	90.44	271.54	6,902.95	486.66	-5,963.14	5,974.85	1.96	-0.21	1.95	
12,544.00	90.71	270.74	6,902.01	488.53	-6,057.12	6,068.84	0.90	0.29	-0.85	
12,639.00	90.27	273.19	6,901.20	491.79	-6,152.05	6,163.83	2.62	-0.46	2.58	
12,734.00	90.30	272.88	6,900.72	496.82	-6,246.92	6,258.80	0.33	0.03	-0.33	
12,828.00	90.57	272.57	6,900.01	501.29	-6,340.81	6,352.78	0.44	0.29	-0.33	
12,923.00	90.94	272.31	6,898.76	505.33	-6,435.71	6,447.76	0.48	0.39	-0.27	
13,017.00	90.91	272.21	6,897.24	509.04	-6,529.63	6,541.75	0.11	-0.03	-0.11	
13,112.00	90.17	274.35	6,896.34	514.47	-6,624.46	6,636.70	2.38	-0.78	2.25	
13,207.00	89.16	274.06	6,896.90	521.44	-6,719.20	6,731.60	1.11	-1.06	-0.31	
13,301.00	89.23	273.99	6,898.22	528.04	-6,812.96	6,825.52	0.11	0.07	-0.07	
13,395.00	89.53	273.70	6,899.24	534.34	-6,906.75	6,919.44	0.44	0.32	-0.31	
13,490.00	89.70	272.72	6,899.88	539.66	-7,001.59	7,014.41	1.05	0.18	-1.03	
13,584.00	89.87	272.83	6,900.23	544.21	-7,095.48	7,108.39	0.22	0.18	0.12	
13,678.00	90.13	271.88	6,900.23	548.07	-7,189.40	7,202.38	1.05	0.28	-1.01	
13,773.00	90.20	271.07	6,899.96	550.52	-7,284.37	7,297.38	0.86	0.07	-0.85	
13,867.00	90.24	270.94	6,899.59	552.17	-7,378.35	7,391.37	0.14	0.04	-0.14	
13,962.00	90.34	270.32	6,899.11	553.21	-7,473.35	7,486.35	0.66	0.11	-0.65	
14,056.00	90.61	269.81	6,898.33	553.32	-7,567.34	7,580.31	0.61	0.29	-0.54	
14,151.00	90.57	270.72	6,897.36	553.76	-7,662.34	7,675.28	0.96	-0.04	0.96	
14,246.00	90.94	270.63	6,896.10	554.88	-7,757.32	7,770.25	0.40	0.39	-0.09	
14,340.00	90.64	272.55	6,894.81	557.48	-7,851.27	7,864.24	2.07	-0.32	2.04	
14,435.00	89.80	273.81	6,894.44	562.75	-7,946.12	7,959.20	1.59	-0.88	1.33	
14,530.00	89.87	273.03	6,894.72	568.42	-8,040.95	8,054.16	0.82	0.07	-0.82	
14,624.00	89.80	273.40	6,894.99	573.69	-8,134.80	8,148.13	0.40	-0.07	0.39	
14,719.00	90.00	272.80	6,895.15	578.83	-8,229.66	8,243.10	0.67	0.21	-0.63	
14,813.00	89.93	272.54	6,895.21	583.21	-8,323.56	8,337.08	0.29	-0.07	-0.28	
14,908.00	90.44	272.25	6,894.90	587.18	-8,418.48	8,432.07	0.62	0.54	-0.31	
15,002.00	90.77	272.10	6,893.91	590.75	-8,512.40	8,526.06	0.39	0.35	-0.16	
15,096.00	91.14	271.54	6,892.34	593.73	-8,606.34	8,620.05	0.71	0.39	-0.60	
15,190.00	91.31	271.65	6,890.33	596.35	-8,700.29	8,714.03	0.22	0.18	0.12	
15,285.00	90.10	271.55	6,889.17	599.00	-8,795.24	8,809.02	1.28	-1.27	-0.11	
15,379.00	90.27	271.29	6,888.86	601.33	-8,889.21	8,903.02	0.33	0.18	-0.28	
15,474.00	90.40	271.76	6,888.31	603.86	-8,984.17	8,998.02	0.51	0.14	0.49	
15,568.00	90.37	271.38	6,887.68	606.43	-9,078.14	9,092.01	0.41	-0.03	-0.40	
15,663.00	90.67	270.98	6,886.81	608.39	-9,173.11	9,187.01	0.53	0.32	-0.42	
15,758.00	90.87	270.67	6,885.54	609.76	-9,268.09	9,281.99	0.39	0.21	-0.33	
15,852.00	90.97	270.26	6,884.03	610.52	-9,362.08	9,375.95	0.45	0.11	-0.44	
15,947.00	89.97	271.10	6,883.25	611.65	-9,457.07	9,470.93	1.37	-1.05	0.88	
16,041.00	90.24	270.92	6,883.08	613.30	-9,551.05	9,564.93	0.35	0.29	-0.19	
16,136.00	90.54	271.01	6,882.43	614.90	-9,646.04	9,659.92	0.33	0.32	0.09	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
16,231.00	90.57	270.87	6,881.51	616.46	-9,741.02	9,754.90	0.15	0.03	-0.15	
16,325.00	90.57	269.49	6,880.57	616.76	-9,835.01	9,848.87	1.47	0.00	-1.47	
16,420.00	90.81	270.98	6,879.43	617.15	-9,930.00	9,943.83	1.59	0.25	1.57	
16,514.00	90.81	270.95	6,878.10	618.73	-10,023.98	10,037.81	0.03	0.00	-0.03	
16,609.00	90.97	270.98	6,876.63	620.33	-10,118.95	10,132.79	0.17	0.17	0.03	
16,703.00	90.44	270.84	6,875.47	621.82	-10,212.93	10,226.77	0.58	-0.56	-0.15	
16,798.00	90.30	270.25	6,874.86	622.73	-10,307.93	10,321.75	0.64	-0.15	-0.62	
16,892.00	90.44	270.23	6,874.25	623.12	-10,401.92	10,415.72	0.15	0.15	-0.02	
16,987.00	90.47	269.86	6,873.49	623.19	-10,496.92	10,510.68	0.39	0.03	-0.39	
17,081.00	90.44	269.61	6,872.75	622.76	-10,590.92	10,604.62	0.27	-0.03	-0.27	
17,105.40	90.40	269.31	6,872.57	622.53	-10,615.32	10,629.00	1.26	-0.18	-1.24	
Actual FPP @ 17105.4' MD										
17,175.00	90.27	268.44	6,872.16	621.16	-10,684.90	10,698.52	1.26	-0.18	-1.24	
17,310.00	90.20	267.71	6,871.61	616.63	-10,819.82	10,833.25	0.54	-0.05	-0.54	
BHL @ 17310' MD										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Rosa 612H SHL	0.00	0.00	0.00	0.00	0.00	2,140,920.73	2,838,226.78	36.882852	-107.439650
- actual wellpath hits target center									
- Point									
Rosa 612H BHL	0.00	0.00	6,871.61	616.63	-10,819.82	2,141,492.72	2,827,404.51	36.884540	-107.476647
- actual wellpath hits target center									
- Point									
Rosa 612H PBHL	0.00	0.00	6,872.00	635.61	-10,813.53	2,141,511.73	2,827,410.72	36.884592	-107.476626
- actual wellpath misses target center by 18.72usft at 17303.08usft MD (6871.64 TVD, 616.90 N, -10812.90 E)									
- Point									
Rosa 612H Actual FPP	0.00	0.00	6,872.57	622.53	-10,615.32	2,141,499.47	2,827,608.99	36.884556	-107.475948
- actual wellpath hits target center									
- Point									
Rosa 612H Actual POE	0.00	0.00	6,894.70	311.25	-853.41	2,141,228.45	2,837,372.09	36.883707	-107.442568
- actual wellpath hits target center									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,336.00	6,894.70	311.25	-853.41	Actual POE @ 7336' MD	
17,105.40	6,872.57	622.53	-10,615.32	Actual FPP @ 17105.4' MD	
17,310.00	6,871.61	616.63	-10,819.82	BHL @ 17310' MD	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Checked By:	_____	Approved By:	_____	Date:	_____
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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 612H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31432
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:	L	23	31N	6W		1814’	South	448’	West	Rio Arriba
BHL	L	21	31N	6W		2456’	South	157’	West	Rio Arriba

Section 3 – Completion Information

Date T.D. Reached 11/11/23	Total Measured Depth of Well 17,310’ (TD)	Acid Volume (bbls) 1,190	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 11/12/23	Plug-Back Measured Depth 17,194	Completion Fluid Used (bbls) 605,813	Were Logs Ran (Y/N) yes
Completion Date 11/9/24	Perforations (MD and TVD) 7,154’-17,007’ (MD- 6,885’-6,873’ (TVD)	Completion Proppant Used (lbs) 22,701 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: 281800	UIC Permit/Order (UIC wells only) ☐ Yes ☐ No, Order No.
Intermediate 1 Casing Action ID: 282446	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID: 285503	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 291730	Cement Squeeze Action ID (if applicable):
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):

Section 5 – Test Data

Date First Production 11/12/24	Production Method Flowing	Well Status Flowing	Gas – Oil Ratio n/a
Date of Test 11/12/24	Choke Size 20/64	Flowing Tubing Pressure n/a	Casing Pressure 2471
24 hr Oil (bbls) 0	24 hr Gas (MCF) 1362	24 hr Water (bbls) 676	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 Etta Trujillo	
Title Regulatory Specialist II	Date 3/2/25

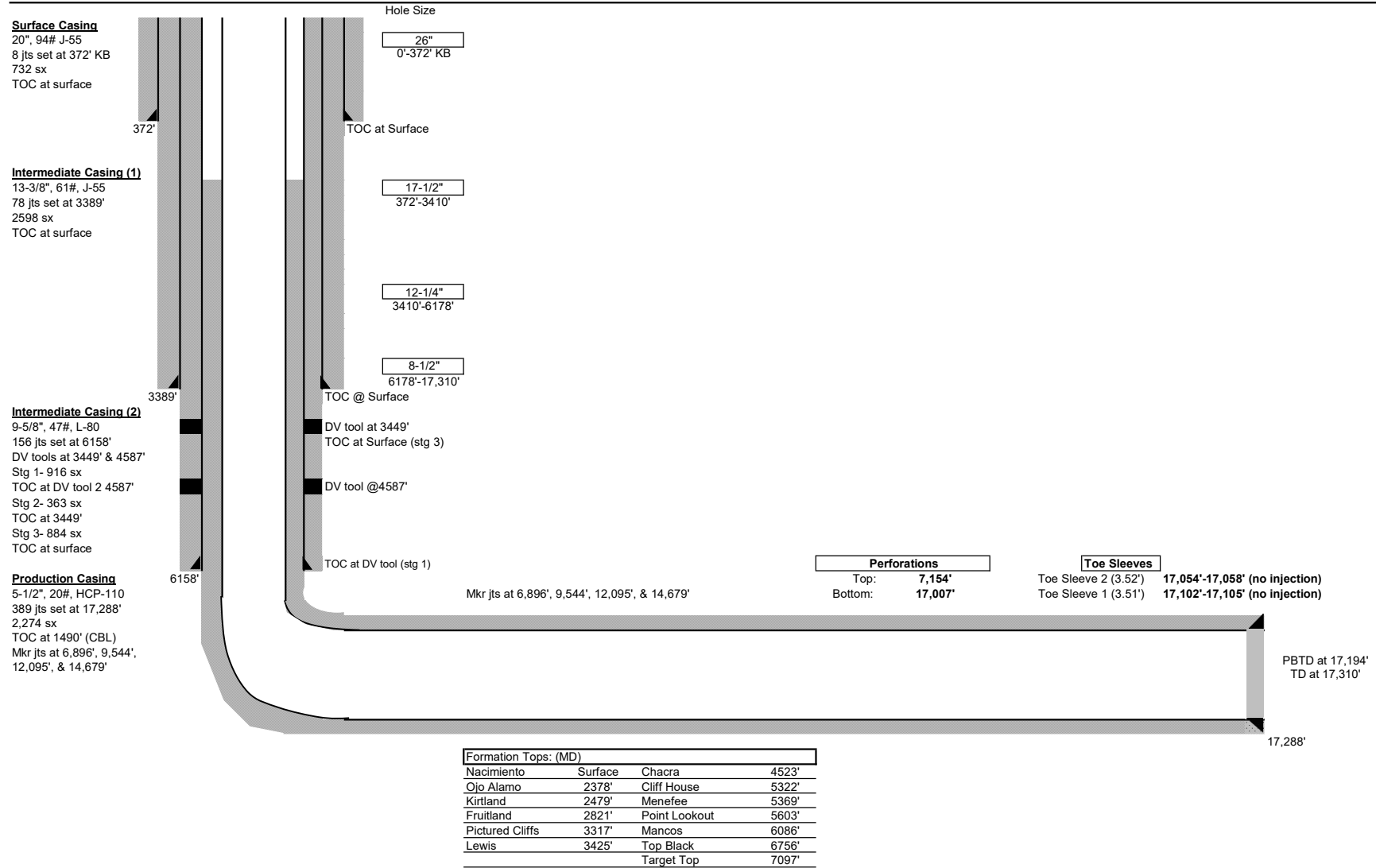
South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo	2378'	2375'	W
T. Yates				T. Kirtland	2479'	2475'	NA
T. 7 Rivers				T. Fruitland	2821'	2817'	G
T. Queen				T. Pictured Cliffs	3317'	3312'	G
T. Grayburg				T. Lewis Shale	3425'	3421'	G
T. San Andres				T. Chacra	4523'	4515'	G
T. Glorieta				T. Cliff House	5322'	5310'	G
T. Yeso				T. Menefee	5369'	5357'	NA
T. Paddock				T. Point Lookout	5603'	5591'	G
T. Blinebry				T. Mancos	6083'	6073'	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 612H
 Location: SHL - Sec 23, T31N, R06W, 1814' FSL, 448' FWL
 County: Rio Arriba
 API #: 30-039-31432
 Co-ordinates: 36.882852, -107.43965 NAD83
 Operator: LOGOS Operating, LLC

Wellbore Schematic
 Ground Elevation: 6287'
 KB Elevation: 6317'
 TD (TVD): 6872'
 TD (MD): 17,310'
 PBTD: 17,194'

Prepared By: 3/19/2024 Peace
 Reviewed/Signed By:
 Last Updated: 11/13/2024 Gomez
 Spud Date: 10/13/2023
 Completion Date: 11/9/2024
 Last Workover Date: N/A



Well Name: ROSA UNIT	Well Location: T31N / R6W / SEC 23 / NWSW / 36.882852 / -107.43965	County or Parish/State: RIO ARRIBA / NM
Well Number: 612H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078766	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number: 3003931432	Operator: LOGOS OPERATING LLC	

Subsequent Report

Sundry ID: 2840112

Type of Submission: Subsequent Report	Type of Action: Other
Date Sundry Submitted: 03/05/2025	Time Sundry Submitted: 09:43
Date Operation Actually Began: 08/30/2024	

Actual Procedure: Well Completion Total Completion Fluid Used: 605,813 bbls Total Completion Proppant Used: 22,701k lbs Perforation intervals Top: 7,154' (MD) 6,885' (TVD) Bottom: 17,007' (MD) 6,873 (TVD) Per the approved operations plan, the 2-7/8", 6.5#, J-55, EUE tubing will be run once volumes and pressures decline and could be close to a year after the well is brought online.

Well Name: ROSA UNIT	Well Location: T31N / R6W / SEC 23 / NWSW / 36.882852 / -107.43965	County or Parish/State: RIO ARRIBA / NM
Well Number: 612H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078766	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number: 3003931432	Operator: LOGOS OPERATING 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 05, 2025 09:44 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: Accepted

Disposition Date: 03/05/2025

Signature: Kenneth Rennick

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

5. Lease Serial No.
NMSF078766

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) 278-8720

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 23/T31N/R6W/NMP

7. If Unit of CA/Agreement, Name and/or No.
ROSA UNIT/NMNM78407E

8. Well Name and No.
ROSA UNIT/612H

9. API Well No. 3003931432

10. Field and Pool or Exploratory Area
BASIN MANCOS/BASIN MANCOS

11. 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				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleate 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 perfonned 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 detennined that the site is ready for final inspection.)

Well Completion
Total Completion Fluid Used: 605,813 bbls
Total Completion Proppant Used: 22,701k lbs

Perforation intervals
Top: 7,154' (MD) 6,885' (TVD)
Bottom: 17,007' (MD) 6,873 (TVD)

Per the approved operations plan, the 2-7/8", 6.5#, J-55, EUE tubing will be run once volumes and pressures decline and could be close to a year after the well is brought online.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
ETTA TRUJILLO / Ph: (505) 324-4154

Title
Regulatory Specialist

Signature (Electronic Submission)

Date
03/05/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title
Petroleum Engineer

Date
03/05/2025

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.

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: NWSW / 1814 FSL / 448 FWL / TWSP: 31N / RANGE: 6W / SECTION: 23 / LAT: 36.882852 / LONG: -107.43965 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 0 FSL / 0 FEL / TWSP: 31N / RANGE: 6W / SECTION: 21 / LAT: 36.883794 / LONG: -107.442568 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2471 FSL / 330 FWL / TWSP: 31N / RANGE: 6W / SECTION: 21 / LAT: 36.883794 / LONG: -107.442568 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2159 FSL / 405 FEL / TWSP: 31N / RANGE: 6W / SECTION: 22 / LAT: 36.883794 / LONG: -107.442568 (TVD: 6885 feet, MD: 7154 feet)

BHL: NWSW / 2456 FSL / 157 FWL / TWSP: 31N / RANGE: 6W / SECTION: 21 / LAT: 36.88454 / LONG: -107.476647 (TVD: 6871 feet, MD: 17288 feet)

CONFIDENTIAL

From: blm-afmss-notifications@blm.gov
To: [Lacey Granillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 612H, Notification of Well Completion Acceptance
Date: Friday, November 29, 2024 1:00:08 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **612H**
- US Well Number: **3003931432**
- Well Completion Report Id: **WCR2024112993826**

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 612H	US Well Number 3003931432
SHL NSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

Section 1 - General

Well Completion Report Id: 93826**Submission Date:****BLM Office:** Farmington Field Office**User:** LACEY GRANILLO**Title:** REGULATORY SPECIALIST**Federal/Indian:** FEDERAL**Lease Number:** NMSF078766**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:** 10-14-2023**Date Total Measured Depth Reached:** 11-11-2023**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
NACIMIENTO	SANDSTONE, SHALE		6287	0	0	NONE	
OJO ALAMO	SANDSTONE, SHALE		3949	2375	2378	NONE	
KIRTLAND	SANDSTONE, SHALE		3822	2475	2479	NONE	
FRUITLAND	COAL, SANDSTONE, SHALE		3363	2817	2821	NATURAL GAS	
PICTURED CLIFFS	SANDSTONE, SHALE		2993	3312	3317	NATURAL GAS	
LEWIS	SHALE		2892	3421	3425	NATURAL GAS	
CHACRA	SANDSTONE		1804	4515	4523	NATURAL GAS	
CLIFFHOUSE	SANDSTONE		1004	5310	5322	NATURAL GAS	
MENEFEE	COAL, SANDSTONE, SHALE		956	5357	5369	NONE	
POINT LOOKOUT	SANDSTONE, SHALE		717	5591	5603	NATURAL GAS	
MANCOS	SANDSTONE, SHALE, SILTSTONE		241	6073	6083	NATURAL GAS	

Completion and Completed

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

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	11-09-2024	11-12-2024	MANCOS	7154	17007	Y	.35		OPEN
00	S1	2	NMNM78407E	NMSF078766	NEW		PGW	11-09-2024								

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totte Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	605813	22701	
00	S1	2					

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	
00	S1	2						

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

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	11/12/2024	24	0	1362	676	0	20/64			2471
00	S1	2										

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	36.882852	-107.43965	6287	N/A	N/A	FEDERAL	NMSF078766				1814	FSL	448	FWL	31N	6W	23	NWSW
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.883478	-107.440303	0	6300	6287	FEDERAL	NMSF078766				2042	FSL	257	FWL	31N	6W	23	NWSW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.883794	-107.442568	6287	0	0	FEDERAL	NMSF78766				2471	FSL	330	FWL	31N	6W	21	NWSW

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

	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	36.883794	-107.442568	6287	0	0	FEDERAL	NMSF078766				0	FSL	0	FEL	31N	6W	21	NESE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.883794	-107.442568	-598	7154	6885	FEDERAL	NMSF078766				2159	FSL	405	FEL	31N	6W	22	NESE
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.884556	-107.475947	-586	17007	6873	FEDERAL	NMSF078766				2463	FSL	361	FWL	31N	6W	21	NWSW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	RIO ARRIBA	36.88454	-107.476647	-584	17288	6871	FEDERAL	NMSF078766				2456	FSL	157	FWL	31N	6W	21	NWSW

Casing, Liner and Tubing

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

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	372	20.0	94	J-55		BUTT		
00	INTERMEDIATE	17.5	0	3389	13.375	61	J-55		BUTT		
00	INTERMEDIATE	12.25	0	6158	9.875	47	L-80		BUTT		
00	PRODUCTION	8.5	0	17288	5.5	20	HCP-110		LT&C		

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	732	1.15	0					149.9
00	INTERMEDIATE		Class G	2066	1.9	0	Varicem	532	1.1	0	803.3
00	INTERMEDIATE		Class G	821	1.1	0	Class G	146	1.58		201.9
00	PRODUCTION		Class G	353	1.9	0	Class G	1921	1.5		632.6

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
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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 PAD	Well Pad Number 10	APD ID 10400087274

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

Operator Name LOGOS OPERATING LLC	Well Name ROSA UNIT	Well Number 612H	US Well Number 3003931432
SHL NWSW Sec 23 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 PAD	Well Pad Number 10	APD ID 10400087274

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. 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 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 Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: LOGOS OPERATING LLC

Signed By: LACEY GRANILLO	Title: REGULATORY SPECIALIST	Signed on: 11/27/2024
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Street Address: 2010 AFTON PLACE

City: FARMINGTON	State: NM	Zip: 87401
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Phone: (505)324-4145

Email address: LGRANILLO@LOGOSRESOURCESLLC.COM

Field

Representative Name:

Street Address:

City:	State:	Zip:
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Phone:	Extension:
---------------	-------------------

Email address:

Attachments

- ROSA_UNIT_612H_20241127145229.pdf
- Logos__Rosa_Unit_612H_EOWR_SUBMITTED_20241127145242.pdf
- Rosa_Unit_612H_As_Drilled_C_102_Plat_20240903_signed_20241127145320.pdf
- Rosa_Unit_612H_As_Completed_Well_Schematic_public_20241127145328.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 455873

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 455873
	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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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 455873

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 455873
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Submit CBL Well Log in OCD Permitting as [UF-WL] EP Well Log Submission.	5/5/2025