

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address LOGOS Operating, LLC 2010 Afton Place Farmington NM 87401		² OGRID Number 289408	
		³ Reason for Filing Code/ Effective Date New Well	
⁴ API Number 30-039-31411	⁵ Pool Name Basin Mancos		⁶ Pool Code 97232
⁷ Property Code 320608	⁸ Property Name Rosa Unit		⁹ Well Number 647H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	19	31N	5W	1	952	FNL	422	FWL	Rio Arriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	21	31N	5W		2376	FSL	122	FEL	Rio Arriba
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

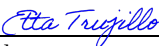
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield NM 87413	G

IV. Well Completion Data

²¹ Spud Date 4/07/2022	²² Ready Date 12/05/2022	²³ TD 20,568' MD / 6910' TVD	²⁴ PBTD 20,501' MD / 6911' TVD	²⁵ Perforations 7558' MD / 20413' MD 6934' TVD / 6911' TVD	²⁶ DHC, MC R-13457
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J-55	338'	365sx (75.7bbbs - 420cf)		
12-1/4"	9-5/8", 47.0#, L-80	6419'	4806sx (1644bbbs - 9228cf) TOC @ surf DV @ 3186' & 4819'		
8-1/2"	5 1/2", 20#, P-110	20,548'	3220sx (797bbbs - 4476cf) TOC ~3554'		
	2 7/8", 6.5#, J-55	pending			

V. Well Test Data

³¹ Date New Oil N/A	³² Gas Delivery Date 12/05/2022	³³ Test Date 12/05/2022	³⁴ Test Length 12hrs	³⁵ Tbg. Pressure N/A	³⁶ Csg. Pressure 2195 psi
³⁷ Choke Size 18/64	³⁸ Oil N/A	³⁹ Water 380 bbbs	⁴⁰ Gas 565 mcf		⁴¹ Test Method F

⁴² 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. Signature:  Printed name: Etta Trujillo Title: Regulatory Specialist E-mail Address: etrujillo@logosresourcesllc.com Date: 1/4/2023	Phone: 505-324-4154	OIL CONSERVATION DIVISION	
	Approved by: PATRICIA MARTINEZ		
	Title: PETROLEUM SPECIALIST		
	Approval Date: 4/18/2023		



Request for Confidential "Tight Hole" Status

LOGOS Operating, LLC
Rosa Unit # 647H
API# 30-039-31411
C-19-31-05W
Rio Arriba County, New Mexico

Per 19.15.7.16 WELL COMPLETION OR RECOMPLETION REPORT AND LOG (Form C-105): LOGOS Operating, LLC.
Request the Division keep Form C-105 and all pertained documentation confidential as of 1/09/2023 for 90 days acceptance of the referenced documents.

Sincerely,

Etta Trujillo
Regulatory Specialist
Email: etrujillo@logosresourcesllc.com
Office: 505-324-4154
Cell: 505-258-2936

☐ AMENDED REPORT

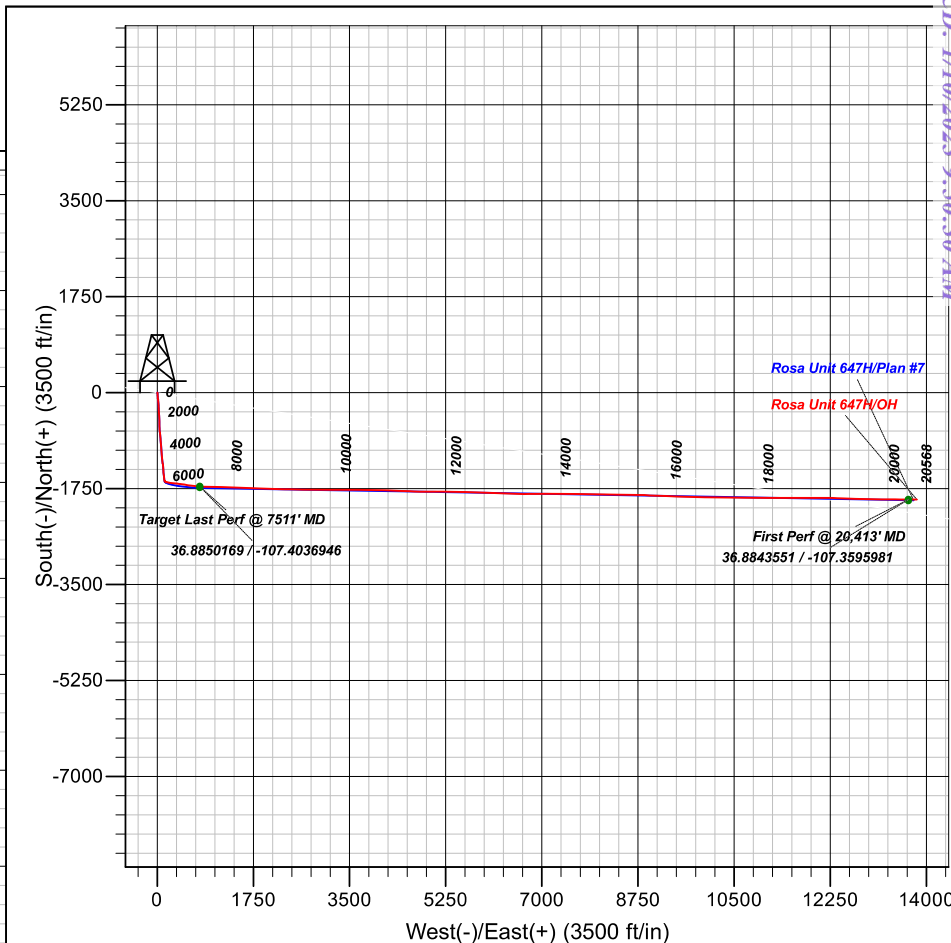
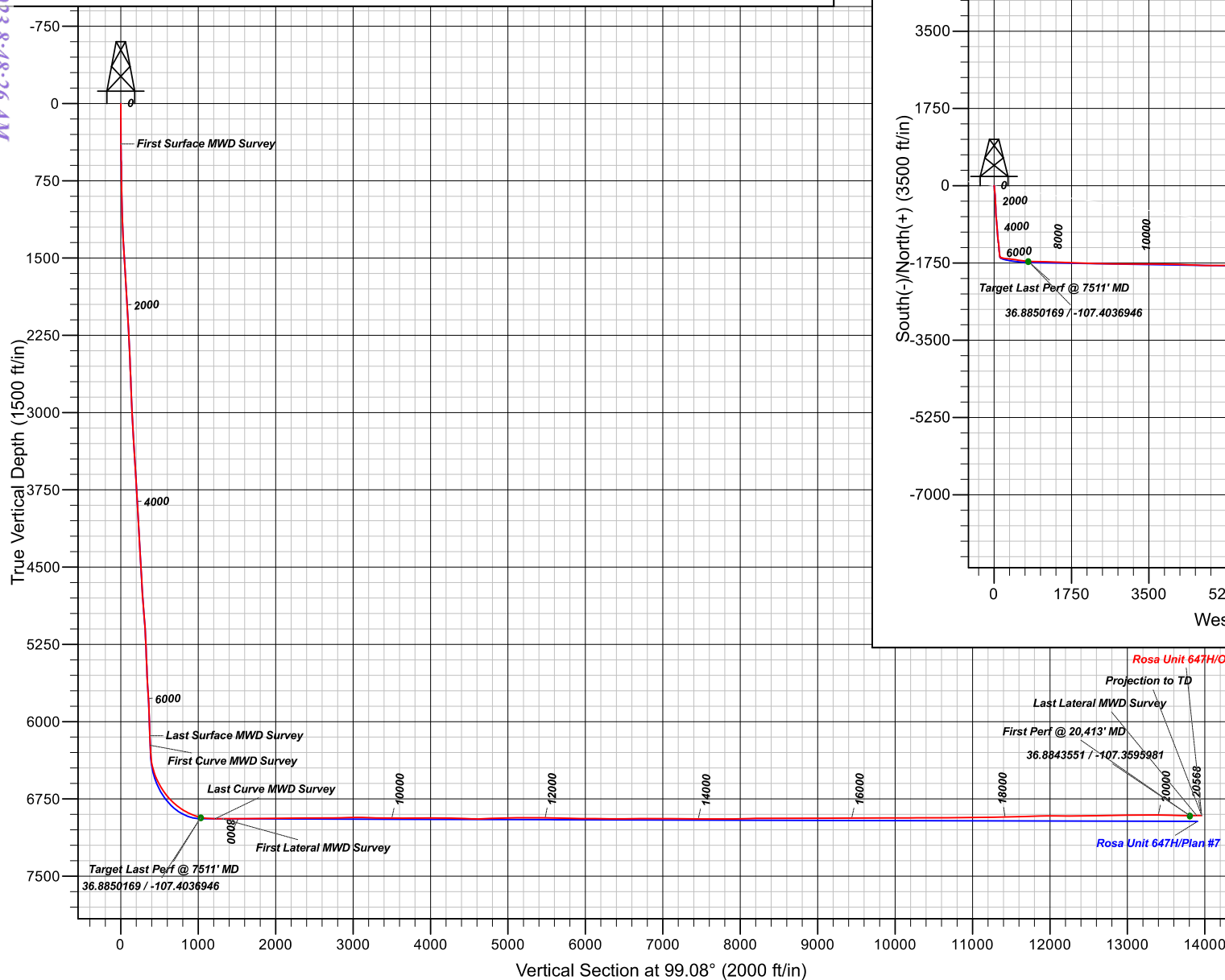


Company Name: Logos Operating LLC
 Project: Rio Arriba, NM NAD83
 Site: Rosa Unit 27
 Well: Rosa Unit 647H
 Wellbore: OH



WELL DETAILS: Rosa Unit 647H

		GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223) 6305.00				
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	2143461.4010	2847958.5770	36.8897155	-107.4063358	A8



Design: OH (Rosa Unit 647H/OH)
Created By: Janie Collins Date: 9:47, October 19 2022
PROJECT DETAILS: Rio Arriba, NM NAD83
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Western Zone
System Datum: Mean Sea Level Local North: True



Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 27

Rosa Unit 647H - Slot A8

OH

Design: OH

Standard Survey Report

19 October, 2022





Lonestar Consulting, LLC

Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 647H - Slot A8
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Site:	Rosa Unit 27	MD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

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 27			
Site Position:		Northing:	2,143,451.5859 usft	Latitude:	36.8896880
From:	Lat/Long	Easting:	2,848,002.4398 usft	Longitude:	-107.4061860
Position Uncertainty:		0.00 ft	Slot Radius:	13.200 in	

Well	Rosa Unit 647H - Slot A8					
Well Position	+N/-S	0.00 ft	Northing:	2,143,461.4010 usft	Latitude:	36.8897155
	+E/-W	0.00 ft	Easting:	2,847,958.5770 usft	Longitude:	-107.4063359
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,305.00 ft
Grid Convergence:		0.26 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	9/25/2022	8.58	63.33	49,555.10000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	99.08	

Survey Program	Date	10/19/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
392.00	6,370.00	Survey #1 - Surface MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
6,464.00	7,697.00	Survey #2 - Curve MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
7,792.00	20,568.00	Survey #3 - Lateral MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
392.00	0.55	94.54	391.99	-0.15	1.88	1.88	0.14	0.14	0.00	
482.00	1.04	125.84	481.99	-0.66	2.97	3.04	0.71	0.54	34.78	
572.00	2.87	177.41	571.93	-3.39	3.73	4.22	2.63	2.03	57.30	
661.00	4.73	169.07	660.74	-9.22	4.53	5.93	2.17	2.09	-9.37	
757.00	4.88	181.77	756.40	-17.19	5.15	7.80	1.12	0.16	13.23	



Lonestar Consulting, LLC

Survey Report



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Site:	Rosa Unit 27	MD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
857.00	6.01	174.16	855.95	-26.65	5.55	9.69	1.34	1.13	-7.61
946.00	7.36	175.71	944.34	-36.97	6.46	12.21	1.53	1.52	1.74
1,036.00	9.46	175.80	1,033.37	-50.09	7.43	15.24	2.33	2.33	0.10
1,126.00	11.23	176.91	1,121.90	-66.22	8.44	18.79	1.98	1.97	1.23
1,221.00	13.27	176.68	1,214.74	-86.35	9.57	23.08	2.15	2.15	-0.24
1,317.00	15.42	175.19	1,307.74	-110.07	11.28	28.51	2.27	2.24	-1.55
1,412.00	17.56	174.15	1,398.82	-136.91	13.80	35.23	2.27	2.25	-1.09
1,507.00	18.98	174.59	1,489.03	-166.55	16.72	42.79	1.50	1.49	0.46
1,602.00	19.11	174.74	1,578.83	-197.42	19.60	50.51	0.15	0.14	0.16
1,697.00	18.99	174.69	1,668.63	-228.29	22.46	58.20	0.13	-0.13	-0.05
1,793.00	19.20	175.76	1,759.35	-259.59	25.07	65.72	0.43	0.22	1.11
1,888.00	19.28	176.53	1,849.04	-290.82	27.17	72.73	0.28	0.08	0.81
1,983.00	19.45	176.95	1,938.67	-322.27	28.96	79.46	0.23	0.18	0.44
2,079.00	19.56	177.32	2,029.16	-354.28	30.57	86.09	0.17	0.11	0.39
2,174.00	19.85	178.00	2,118.60	-386.29	31.87	92.43	0.39	0.31	0.72
2,269.00	19.54	178.34	2,208.04	-418.29	32.90	98.49	0.35	-0.33	0.36
2,364.00	19.03	178.19	2,297.71	-449.65	33.85	104.38	0.54	-0.54	-0.16
2,460.00	17.71	177.10	2,388.81	-479.87	35.08	110.37	1.42	-1.38	-1.14
2,555.00	17.43	177.85	2,479.38	-508.52	36.34	116.14	0.38	-0.29	0.79
2,650.00	17.00	177.57	2,570.13	-536.62	37.47	121.68	0.46	-0.45	-0.29
2,746.00	17.24	181.08	2,661.87	-564.86	37.79	126.46	1.10	0.25	3.66
2,841.00	16.43	180.01	2,752.80	-592.37	37.52	130.54	0.91	-0.85	-1.13
2,936.00	16.08	177.36	2,844.01	-618.95	38.13	135.33	0.86	-0.37	-2.79
3,032.00	15.73	175.86	2,936.33	-645.21	39.68	141.01	0.56	-0.36	-1.56
3,127.00	15.16	173.34	3,027.90	-670.39	42.05	147.32	0.93	-0.60	-2.65
3,222.00	14.72	174.92	3,119.69	-694.75	44.56	153.64	0.63	-0.46	1.66
3,317.00	15.94	176.03	3,211.31	-719.79	46.53	159.54	1.32	1.28	1.17
3,413.00	18.20	174.05	3,303.07	-747.86	49.00	166.41	2.43	2.35	-2.06
3,508.00	17.91	173.35	3,393.40	-777.12	52.23	174.21	0.38	-0.31	-0.74
3,603.00	18.48	174.54	3,483.65	-806.62	55.35	181.95	0.72	0.60	1.25
3,697.00	19.34	175.47	3,572.57	-836.97	58.00	189.36	0.97	0.91	0.99
3,793.00	17.35	175.51	3,663.69	-867.09	60.38	196.46	2.07	-2.07	0.04
3,888.00	16.70	174.24	3,754.52	-894.79	62.85	203.28	0.79	-0.68	-1.34
3,982.00	16.19	174.86	3,844.68	-921.28	65.38	209.96	0.57	-0.54	0.66
4,077.00	18.01	175.98	3,935.48	-949.12	67.60	216.54	1.95	1.92	1.18
4,173.00	17.97	175.26	4,026.78	-978.69	69.86	223.44	0.24	-0.04	-0.75
4,268.00	17.85	176.25	4,117.18	-1,007.82	72.03	230.17	0.34	-0.13	1.04
4,363.00	18.44	176.41	4,207.45	-1,037.34	73.92	236.70	0.62	0.62	0.17
4,459.00	18.23	176.07	4,298.58	-1,067.48	75.90	243.41	0.25	-0.22	-0.35
4,554.00	18.55	175.70	4,388.73	-1,097.37	78.05	250.25	0.36	0.34	-0.39
4,650.00	17.76	174.72	4,479.95	-1,127.18	80.54	257.42	0.88	-0.82	-1.02
4,745.00	17.62	176.43	4,570.46	-1,155.96	82.77	264.16	0.57	-0.15	1.80



Lonestar Consulting, LLC

Survey Report



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Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
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Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,840.00	18.17	177.31	4,660.86	-1,185.10	84.36	270.33	0.65	0.58	0.93	
4,935.00	17.38	173.39	4,751.33	-1,213.99	86.69	277.19	1.51	-0.83	-4.13	
5,030.00	19.93	171.29	4,841.33	-1,244.10	90.78	285.98	2.78	2.68	-2.21	
5,109.00	19.46	171.44	4,915.71	-1,270.42	94.78	294.08	0.60	-0.59	0.19	
5,205.00	16.65	169.30	5,006.97	-1,299.75	99.71	303.58	3.01	-2.93	-2.23	
5,300.00	14.84	170.39	5,098.41	-1,325.12	104.27	312.08	1.93	-1.91	1.15	
5,396.00	15.42	176.35	5,191.08	-1,349.98	107.13	318.84	1.73	0.60	6.21	
5,492.00	15.78	178.19	5,283.55	-1,375.77	108.36	324.12	0.64	0.38	1.92	
5,587.00	15.31	176.95	5,375.07	-1,401.20	109.43	329.19	0.61	-0.49	-1.31	
5,682.00	14.85	176.57	5,466.80	-1,425.88	110.83	334.46	0.50	-0.48	-0.40	
5,777.00	14.92	175.69	5,558.61	-1,450.23	112.48	339.93	0.25	0.07	-0.93	
5,872.00	15.35	174.36	5,650.32	-1,474.94	114.63	345.96	0.58	0.45	-1.40	
5,967.00	14.84	174.16	5,742.04	-1,499.55	117.11	352.29	0.54	-0.54	-0.21	
6,030.00	14.01	174.10	5,803.05	-1,515.16	118.71	356.34	1.32	-1.32	-0.10	
6,094.00	13.45	173.56	5,865.22	-1,530.27	120.34	360.33	0.90	-0.88	-0.84	
6,157.00	12.63	173.86	5,926.60	-1,544.39	121.90	364.10	1.31	-1.30	0.48	
6,221.00	11.36	174.11	5,989.20	-1,557.62	123.30	367.56	1.99	-1.98	0.39	
6,284.00	10.28	173.52	6,051.08	-1,569.38	124.57	370.68	1.72	-1.71	-0.94	
6,370.00	9.24	171.73	6,135.83	-1,583.84	126.43	374.79	1.26	-1.21	-2.08	
6,464.00	8.48	169.89	6,228.71	-1,598.13	128.73	379.32	0.86	-0.81	-1.96	
6,560.00	8.59	154.20	6,323.66	-1,611.55	133.09	385.75	2.42	0.11	-16.34	
6,654.00	15.98	118.37	6,415.57	-1,624.06	147.57	402.02	10.95	7.86	-38.12	
6,749.00	25.63	104.08	6,504.32	-1,635.30	179.10	434.93	11.41	10.16	-15.04	
6,845.00	33.79	96.56	6,587.66	-1,643.42	225.86	482.38	9.33	8.50	-7.83	
6,938.00	41.09	96.78	6,661.45	-1,649.99	281.97	538.83	7.85	7.85	0.24	
7,032.00	48.56	95.81	6,728.08	-1,657.21	347.79	604.96	7.98	7.95	-1.03	
7,128.00	55.46	97.78	6,787.13	-1,666.22	422.86	680.51	7.37	7.19	2.05	
7,222.00	61.83	100.32	6,836.03	-1,678.90	502.07	760.73	7.16	6.78	2.70	
7,317.00	68.38	97.91	6,876.00	-1,692.49	587.11	846.85	7.27	6.89	-2.54	
7,412.00	73.71	95.43	6,906.85	-1,702.89	676.31	936.58	6.13	5.61	-2.61	
7,508.00	80.15	93.80	6,928.55	-1,710.40	769.47	1,029.75	6.91	6.71	-1.70	
7,602.00	88.05	90.11	6,938.21	-1,713.56	862.83	1,122.44	9.27	8.40	-3.93	
7,697.00	88.83	92.00	6,940.80	-1,715.31	957.77	1,216.47	2.15	0.82	1.99	
7,792.00	90.44	92.41	6,941.40	-1,718.97	1,052.70	1,310.78	1.75	1.69	0.43	
7,888.00	89.87	92.01	6,941.14	-1,722.67	1,148.63	1,406.09	0.73	-0.59	-0.42	
7,983.00	90.84	92.10	6,940.55	-1,726.07	1,243.56	1,500.38	1.03	1.02	0.09	
8,078.00	90.20	92.16	6,939.69	-1,729.60	1,338.49	1,594.67	0.68	-0.67	0.06	
8,194.00	89.16	91.26	6,940.34	-1,733.07	1,454.44	1,709.71	1.19	-0.90	-0.78	
8,289.00	91.07	91.96	6,940.15	-1,735.73	1,549.39	1,803.90	2.14	2.01	0.74	
8,384.00	90.87	91.71	6,938.54	-1,738.78	1,644.33	1,898.13	0.34	-0.21	-0.26	
8,478.00	90.67	91.89	6,937.28	-1,741.73	1,738.28	1,991.36	0.29	-0.21	0.19	
8,574.00	90.23	91.71	6,936.52	-1,744.74	1,834.23	2,086.58	0.50	-0.46	-0.19	



Lonestar Consulting, LLC

Survey Report



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Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,669.00	89.97	91.54	6,936.36	-1,747.44	1,929.19	2,180.78	0.33	-0.27	-0.18	
8,765.00	90.20	93.05	6,936.21	-1,751.28	2,025.11	2,276.11	1.59	0.24	1.57	
8,859.00	90.10	93.11	6,935.97	-1,756.33	2,118.97	2,369.59	0.12	-0.11	0.06	
8,953.00	90.50	91.67	6,935.48	-1,760.25	2,212.89	2,462.95	1.59	0.43	-1.53	
9,049.00	90.94	91.11	6,934.27	-1,762.58	2,308.85	2,558.08	0.74	0.46	-0.58	
9,143.00	90.30	91.25	6,933.25	-1,764.52	2,402.82	2,651.18	0.70	-0.68	0.15	
9,239.00	89.66	91.20	6,933.29	-1,766.57	2,498.80	2,746.28	0.67	-0.67	-0.05	
9,334.00	90.87	90.80	6,932.85	-1,768.23	2,593.78	2,840.33	1.34	1.27	-0.42	
9,428.00	91.34	90.78	6,931.03	-1,769.52	2,687.76	2,933.33	0.50	0.50	-0.02	
9,521.00	90.10	89.88	6,929.87	-1,770.06	2,780.74	3,025.24	1.65	-1.33	-0.97	
9,615.00	89.70	89.93	6,930.03	-1,769.90	2,874.74	3,118.04	0.43	-0.43	0.05	
9,710.00	88.99	89.54	6,931.12	-1,769.46	2,969.74	3,211.77	0.85	-0.75	-0.41	
9,805.00	88.46	90.42	6,933.23	-1,769.43	3,064.71	3,305.55	1.08	-0.56	0.93	
9,898.00	89.26	89.74	6,935.08	-1,769.56	3,157.69	3,397.38	1.13	0.86	-0.73	
9,993.00	89.26	90.36	6,936.31	-1,769.64	3,252.68	3,491.20	0.65	0.00	0.65	
10,088.00	90.67	90.57	6,936.36	-1,770.41	3,347.68	3,585.12	1.50	1.48	0.22	
10,182.00	90.20	90.75	6,935.65	-1,771.50	3,441.67	3,678.11	0.54	-0.50	0.19	
10,279.00	89.20	90.12	6,936.16	-1,772.23	3,538.66	3,774.00	1.22	-1.03	-0.65	
10,374.00	90.13	89.45	6,936.71	-1,771.88	3,633.66	3,867.75	1.21	0.98	-0.71	
10,470.00	90.97	90.75	6,935.79	-1,772.04	3,729.65	3,962.57	1.61	0.88	1.35	
10,565.00	90.67	90.66	6,934.43	-1,773.21	3,824.63	4,056.54	0.33	-0.32	-0.09	
10,659.00	89.60	91.92	6,934.21	-1,775.33	3,918.61	4,149.67	1.76	-1.14	1.34	
10,753.00	89.13	91.45	6,935.25	-1,778.09	4,012.56	4,242.89	0.71	-0.50	-0.50	
10,849.00	89.06	91.91	6,936.77	-1,780.91	4,108.51	4,338.07	0.48	-0.07	0.48	
10,943.00	87.75	91.87	6,939.39	-1,784.01	4,202.42	4,431.30	1.39	-1.39	-0.04	
11,039.00	88.56	92.17	6,942.48	-1,787.39	4,298.31	4,526.52	0.90	0.84	0.31	
11,135.00	89.90	92.49	6,943.77	-1,791.29	4,394.22	4,621.84	1.44	1.40	0.33	
11,232.00	92.18	92.00	6,942.01	-1,795.09	4,491.12	4,718.13	2.40	2.35	-0.51	
11,330.00	91.95	92.18	6,938.48	-1,798.66	4,588.99	4,815.34	0.30	-0.23	0.18	
11,424.00	91.31	91.64	6,935.80	-1,801.79	4,682.90	4,908.56	0.89	-0.68	-0.57	
11,519.00	91.21	91.00	6,933.71	-1,803.98	4,777.85	5,002.67	0.68	-0.11	-0.67	
11,614.00	90.87	90.32	6,931.99	-1,805.07	4,872.83	5,096.63	0.80	-0.36	-0.72	
11,708.00	90.81	90.36	6,930.61	-1,805.63	4,966.82	5,189.53	0.08	-0.06	0.04	
11,804.00	88.96	90.65	6,930.80	-1,806.48	5,062.81	5,284.45	1.95	-1.93	0.30	
11,899.00	88.76	90.84	6,932.69	-1,807.71	5,157.78	5,378.43	0.29	-0.21	0.20	
11,994.00	89.97	91.00	6,933.75	-1,809.24	5,252.76	5,472.46	1.28	1.27	0.17	
12,088.00	89.80	90.62	6,933.93	-1,810.57	5,346.75	5,565.48	0.44	-0.18	-0.40	
12,182.00	89.23	89.90	6,934.73	-1,810.99	5,440.75	5,658.37	0.98	-0.61	-0.77	
12,276.00	88.62	89.91	6,936.49	-1,810.84	5,534.73	5,751.15	0.65	-0.65	0.01	
12,370.00	88.42	90.85	6,938.92	-1,811.46	5,628.69	5,844.03	1.02	-0.21	1.00	
12,464.00	90.20	91.81	6,940.05	-1,813.64	5,722.66	5,937.16	2.15	1.89	1.02	
12,558.00	90.20	92.04	6,939.73	-1,816.80	5,816.60	6,030.43	0.24	0.00	0.24	



Lonestar Consulting, LLC

Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 647H - Slot A8
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Site:	Rosa Unit 27	MD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,653.00	89.53	91.36	6,939.95	-1,819.62	5,911.56	6,124.64	1.00	-0.71	-0.72	
12,748.00	89.06	92.63	6,941.12	-1,822.93	6,006.49	6,218.91	1.43	-0.49	1.34	
12,842.00	89.53	93.59	6,942.27	-1,828.02	6,100.35	6,312.39	1.14	0.50	1.02	
12,938.00	89.56	92.58	6,943.04	-1,833.19	6,196.20	6,407.86	1.05	0.03	-1.05	
13,033.00	90.30	93.05	6,943.15	-1,837.86	6,291.09	6,502.29	0.92	0.78	0.49	
13,129.00	90.80	92.68	6,942.23	-1,842.65	6,386.96	6,597.72	0.65	0.52	-0.39	
13,224.00	90.40	92.42	6,941.24	-1,846.88	6,481.86	6,692.10	0.50	-0.42	-0.27	
13,320.00	90.57	90.07	6,940.42	-1,848.97	6,577.83	6,787.19	2.45	0.18	-2.45	
13,415.00	90.30	89.56	6,939.70	-1,848.66	6,672.83	6,880.95	0.61	-0.28	-0.54	
13,510.00	90.20	89.54	6,939.29	-1,847.91	6,767.82	6,974.64	0.11	-0.11	-0.02	
13,605.00	89.60	89.02	6,939.45	-1,846.72	6,862.81	7,068.25	0.84	-0.63	-0.55	
13,699.00	89.26	88.60	6,940.39	-1,844.77	6,956.79	7,160.74	0.57	-0.36	-0.45	
13,794.00	89.13	89.75	6,941.72	-1,843.40	7,051.77	7,254.32	1.22	-0.14	1.21	
13,902.00	88.79	89.57	6,943.68	-1,842.76	7,159.75	7,360.84	0.36	-0.31	-0.17	
13,998.00	89.46	90.37	6,945.15	-1,842.71	7,255.74	7,455.62	1.09	0.70	0.83	
14,094.00	90.40	90.33	6,945.27	-1,843.30	7,351.73	7,550.50	0.98	0.98	-0.04	
14,188.00	90.67	91.20	6,944.39	-1,844.55	7,445.72	7,643.51	0.97	0.29	0.93	
14,284.00	89.66	91.48	6,944.11	-1,846.80	7,541.69	7,738.64	1.09	-1.05	0.29	
14,379.00	90.40	91.20	6,944.06	-1,849.02	7,636.66	7,832.77	0.83	0.78	-0.29	
14,473.00	91.11	91.18	6,942.83	-1,850.97	7,730.64	7,925.87	0.76	0.76	-0.02	
14,568.00	90.34	90.86	6,941.62	-1,852.66	7,825.61	8,019.92	0.88	-0.81	-0.34	
14,664.00	91.01	90.89	6,940.49	-1,854.13	7,921.59	8,114.93	0.70	0.70	0.03	
14,758.00	90.54	90.61	6,939.22	-1,855.36	8,015.58	8,207.93	0.58	-0.50	-0.30	
14,854.00	89.69	90.23	6,939.03	-1,856.06	8,111.57	8,302.84	0.97	-0.89	-0.40	
14,949.00	90.10	90.38	6,939.20	-1,856.57	8,206.57	8,396.73	0.46	0.43	0.16	
15,043.00	91.01	90.37	6,938.29	-1,857.18	8,300.56	8,489.64	0.97	0.97	-0.01	
15,138.00	90.44	90.24	6,937.09	-1,857.69	8,395.55	8,583.52	0.62	-0.60	-0.14	
15,232.00	89.66	91.23	6,937.01	-1,858.89	8,489.54	8,676.52	1.34	-0.83	1.05	
15,328.00	89.43	91.23	6,937.77	-1,860.95	8,585.52	8,771.62	0.24	-0.24	0.00	
15,424.00	90.03	91.18	6,938.22	-1,862.97	8,681.50	8,866.71	0.63	0.63	-0.05	
15,518.00	89.93	92.19	6,938.25	-1,865.74	8,775.46	8,959.93	1.08	-0.11	1.07	
15,611.00	91.41	92.25	6,937.17	-1,869.34	8,868.38	9,052.25	1.59	1.59	0.06	
15,705.00	90.70	92.57	6,935.44	-1,873.29	8,962.28	9,145.60	0.83	-0.76	0.34	
15,800.00	89.83	92.74	6,935.00	-1,877.69	9,057.17	9,240.00	0.93	-0.92	0.18	
15,894.00	90.40	92.32	6,934.81	-1,881.84	9,151.08	9,333.39	0.75	0.61	-0.45	
15,988.00	89.46	92.06	6,934.92	-1,885.43	9,245.01	9,426.71	1.04	-1.00	-0.28	
16,082.00	90.17	92.86	6,935.23	-1,889.47	9,338.92	9,520.08	1.14	0.76	0.85	
16,177.00	90.37	91.69	6,934.78	-1,893.24	9,433.84	9,614.41	1.25	0.21	-1.23	
16,273.00	89.56	91.40	6,934.84	-1,895.83	9,529.81	9,709.58	0.90	-0.84	-0.30	
16,368.00	90.74	91.50	6,934.59	-1,898.23	9,624.78	9,803.73	1.25	1.24	0.11	
16,463.00	90.17	91.87	6,933.83	-1,901.02	9,719.73	9,897.94	0.72	-0.60	0.39	
16,559.00	89.66	91.93	6,933.98	-1,904.21	9,815.68	9,993.19	0.53	-0.53	0.06	



Lonestar Consulting, LLC

Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 647H - Slot A8
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Site:	Rosa Unit 27	MD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
16,655.00	90.37	91.81	6,933.95	-1,907.34	9,911.63	10,088.43	0.75	0.74	-0.13	
16,749.00	90.47	90.70	6,933.26	-1,909.40	10,005.60	10,181.55	1.19	0.11	-1.18	
16,843.00	89.66	90.58	6,933.16	-1,910.45	10,099.59	10,274.53	0.87	-0.86	-0.13	
16,939.00	90.07	89.89	6,933.38	-1,910.84	10,195.59	10,369.39	0.84	0.43	-0.72	
17,033.00	89.60	90.76	6,933.65	-1,911.37	10,289.59	10,462.29	1.05	-0.50	0.93	
17,128.00	90.23	89.99	6,933.79	-1,912.00	10,384.58	10,556.19	1.05	0.66	-0.81	
17,224.00	90.87	90.31	6,932.87	-1,912.25	10,480.58	10,651.03	0.75	0.67	0.33	
17,321.00	90.90	90.55	6,931.37	-1,912.98	10,577.57	10,746.91	0.25	0.03	0.25	
17,419.00	90.22	90.93	6,930.42	-1,914.24	10,675.55	10,843.87	0.79	-0.69	0.39	
17,514.00	90.50	91.67	6,929.82	-1,916.40	10,770.52	10,937.99	0.83	0.29	0.78	
17,608.00	89.60	91.49	6,929.74	-1,918.99	10,864.49	11,031.19	0.98	-0.96	-0.19	
17,704.00	90.80	90.55	6,929.40	-1,920.70	10,960.47	11,126.23	1.59	1.25	-0.98	
17,798.00	90.64	90.23	6,928.22	-1,921.34	11,054.46	11,219.15	0.38	-0.17	-0.34	
17,893.00	91.24	90.26	6,926.66	-1,921.74	11,149.45	11,313.01	0.63	0.63	0.03	
17,989.00	90.84	89.78	6,924.92	-1,921.78	11,245.43	11,407.79	0.65	-0.42	-0.50	
18,084.00	90.07	89.79	6,924.17	-1,921.42	11,340.42	11,501.54	0.81	-0.81	0.01	
18,177.00	91.04	90.06	6,923.27	-1,921.30	11,433.42	11,593.35	1.08	1.04	0.29	
18,272.00	91.81	89.82	6,920.90	-1,921.20	11,528.39	11,687.12	0.85	0.81	-0.25	
18,366.00	91.47	89.70	6,918.21	-1,920.80	11,622.35	11,779.84	0.38	-0.36	-0.13	
18,459.00	91.07	89.76	6,916.15	-1,920.37	11,715.33	11,871.58	0.43	-0.43	0.06	
18,554.00	90.84	89.70	6,914.57	-1,919.92	11,810.31	11,965.30	0.25	-0.24	-0.06	
18,648.00	90.03	89.57	6,913.85	-1,919.32	11,904.31	12,058.03	0.87	-0.86	-0.14	
18,743.00	89.73	89.99	6,914.05	-1,918.96	11,999.30	12,151.78	0.54	-0.32	0.44	
18,837.00	89.66	90.17	6,914.55	-1,919.09	12,093.30	12,244.62	0.21	-0.07	0.19	
18,932.00	89.13	90.63	6,915.56	-1,919.75	12,188.29	12,338.52	0.74	-0.56	0.48	
19,027.00	89.97	91.35	6,916.30	-1,921.39	12,283.28	12,432.57	1.16	0.88	0.76	
19,122.00	90.67	91.73	6,915.77	-1,923.94	12,378.24	12,526.75	0.84	0.74	0.40	
19,219.00	91.94	91.76	6,913.56	-1,926.90	12,475.17	12,622.93	1.31	1.31	0.03	
19,313.00	91.61	92.25	6,910.65	-1,930.18	12,569.06	12,716.17	0.63	-0.35	0.52	
19,410.00	91.34	92.32	6,908.15	-1,934.05	12,665.95	12,812.46	0.29	-0.28	0.07	
19,504.00	90.97	91.78	6,906.26	-1,937.41	12,759.88	12,905.73	0.70	-0.39	-0.57	
19,600.00	90.34	91.40	6,905.16	-1,940.08	12,855.83	13,000.90	0.77	-0.66	-0.40	
19,695.00	89.83	90.96	6,905.02	-1,942.03	12,950.81	13,095.00	0.71	-0.54	-0.46	
19,788.00	88.93	90.99	6,906.03	-1,943.61	13,043.79	13,187.07	0.97	-0.97	0.03	
19,883.00	90.07	90.17	6,906.86	-1,944.58	13,138.78	13,281.02	1.48	1.20	-0.86	
19,979.00	89.63	89.98	6,907.11	-1,944.70	13,234.78	13,375.83	0.50	-0.46	-0.20	
20,075.00	89.53	90.88	6,907.81	-1,945.42	13,330.77	13,470.74	0.94	-0.10	0.94	
20,171.00	89.40	90.55	6,908.71	-1,946.62	13,426.76	13,565.71	0.37	-0.14	-0.34	
20,267.00	89.30	90.42	6,909.80	-1,947.43	13,522.75	13,660.63	0.17	-0.10	-0.14	
20,362.00	89.13	90.25	6,911.10	-1,947.99	13,617.74	13,754.51	0.25	-0.18	-0.18	
20,455.00	90.70	90.30	6,911.24	-1,948.43	13,710.74	13,846.42	1.69	1.69	0.05	
20,502.00	90.57	90.49	6,910.72	-1,948.76	13,757.73	13,892.87	0.49	-0.28	0.40	



Lonestar Consulting, LLC Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 647H - Slot A8
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Site:	Rosa Unit 27	MD Reference:	GL 6305' & RKB 24.5' @ 6329.50ft (Ensign T223)
Well:	Rosa Unit 647H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
20,568.00	90.57	90.49	6,910.06	-1,949.32	13,823.73	13,958.13	0.00	0.00	0.00	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
392.00	391.99	-0.15	1.88	First Surface MWD Survey	
6,370.00	6,135.83	-1,583.84	126.43	Last Surface MWD Survey	
6,464.00	6,228.71	-1,598.13	128.73	First Curve MWD Survey	
7,511.00	6,929.06	-1,710.59	772.42	Target Last Perf @ 7511' MD	
7,511.00	6,929.06	-1,710.59	772.42	36.8850169 / -107.4036946	
7,697.00	6,940.80	-1,715.31	957.77	Last Curve MWD Survey	
7,792.00	6,941.40	-1,718.97	1,052.70	First Lateral MWD Survey	
20,413.00	6,911.49	-1,948.22	13,668.74	First Perf @ 20,413' MD	
20,413.00	6,911.49	-1,948.22	13,668.74	36.8843551 / -107.3595981	
20,502.00	6,910.72	-1,948.76	13,757.73	Last Lateral MWD Survey	
20,568.00	6,910.06	-1,949.32	13,823.73	Projection to TD	

Submit a Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-039-31411
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☐
2. Name of Operator LOGOS OPERATING, LLC		6. State Oil & Gas Lease No. NMSF078769
3. Address of Operator 2010 AFTON PLACE FARMINGTON, NM 87401		7. Lease Name or Unit Agreement Name ROSA UNIT
4. Well Location Unit Letter C : 952 feet from the NORTH line and 422 feet from the WEST line Section 19 Township 31N Range 05W NMPM County RIO ARRIBA		8. Well Number 647H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6305'		9. OGRID Number 289408
		10. Pool name or Wildcat BASIN MANCOS

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

11/3 - 7/2022 - Run CBL (Est TOC @ 3554'). RU frac stack. Pressure test 5-1/2" prod csg to 1600psi/30mins. Test good. Waiting on frac & wireline operations.
 11/8/2022 - NU frac. Frac thru open toe sleeves @ 20,410' - 20,413' & 20,363' - 20,366'. Set CFP @ 20,348'. Perf @ 20,332' to 19,981' w/6 SPF, 0.38" Dia, 96 total. Run CCL.
 11/9 - 27/2022 - Perf @ 19,950' - 7,558', w/6 SPF, 0.38" Dia, total perfs 3,264. Frac'd 68 stages w/31,382klbs 100 mesh & 40/70 sand, 838,696bbl slickwater. Set kill plug @ 7,526'. PT to 5000psi. Test good. SIW. RDMO Frac & support.
 11/28 - 12/2/2022 - MIRU CTU. NU BOP. Good test. RIH w/2-3/8" CT and drillout BHA. DO kill plug @ 7,526'. Circulate, CO & continue to DO composite frac plugs. POOH. Lay down BHA. RD CTU.

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.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Etta Trujillo TITLE REGULATORY SPECIALIST DATE 1/4/2023

Type or print name ETTA TRUJILLO E-mail address: etrujillo@logosresourcesllc.com PHONE: (505) 324-4154

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-039-31411		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name ROSA UNIT		
								6. Well Number: 647H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator LOGOS OPERATING, LLC							9. OGRID 289408			
10. Address of Operator 2010 Afton Place, Farmington, NM 87401							11. Pool name or Wildcat Basin Mancos			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	19	31N	05W	1	952'	North	422'	West	Rio Arriba
BH:	I	21	31N	05W		2376'	South	122'	East	Rio Arriba
13. Date Spudded 4/7/2022	14. Date T.D. Reached 10/06/2022		15. Date Rig Released 11/03/2022			16. Date Completed (Ready to Produce) 12/05/2022		17. Elevations (DF and RKB, RT, GR, etc.) 6305'		
18. Total Measured Depth of Well 20,568' MD / 6,910' TVD			19. Plug Back Measured Depth 20,501' MD / 6,911' TVD			20. Was Directional Survey Made? Y		21. Type Electric and Other Logs Run CBL		
22. Producing Interval(s), of this completion - Top, Bottom, Name Basin Mancos 6934' - 6911' VD										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5#		338'		17-1/2"		365sks		25bbls
9-5/8"		47.0#		6419'		12-1/4"		4806 sks		290 bbls (DV@4733', 3100')
5-1/2"		20.0#		20,548'		8-1/2"		3220sks		TOC @ 3554' per CBL
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						Pending				
26. Perforation record (interval, size, and number) 20,413' MD to 7,558' MD, 0.38" , 6SPF, 3264 total holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						20,413' MD - 7,558' MD		Frac'd 68 stages of 31,382 klbs sand/100# Mesh & 40/70 sand		
								838,696bbls of slickwater.		
28. PRODUCTION										
Date First Production 12/05/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 12/05/2022	Hours Tested 12hrs	Choke Size 18/64	Prod'n For Test Period	Oil - Bbl 0	Gas - MCF 565	Water - Bbl. 380	Gas - Oil Ratio n/a			
Flow Tubing Press. n/a	Casing Pressure 2425 2195	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 1738	Water - Bbl. 886 bwpd	Oil Gravity - API - (Corr.) n/a				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold								30. Test Witnessed By		
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____				Longitude _____				NAD83		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Etta Trujillo</i>			Printed Name Etta Trujillo			Title Regulatory Specialist			Date 1/04/23	
E-mail Address etrujillo@logosresourcesllc.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo 2503'	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2618'	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 3113'	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs 3471'	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5578'	T. Leadville
T. Queen	T. Silurian	T. Menefee 5625'	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5842'	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6365'	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From: blm-afmss-notifications@blm.gov
To: [Etta Trujillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 647H, Notification of Well Completion Acceptance
Date: Monday, January 9, 2023 11:38:40 AM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **647H**
- US Well Number: **3003931411**
- Well Completion Report Id: **WCR2023010987013**

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

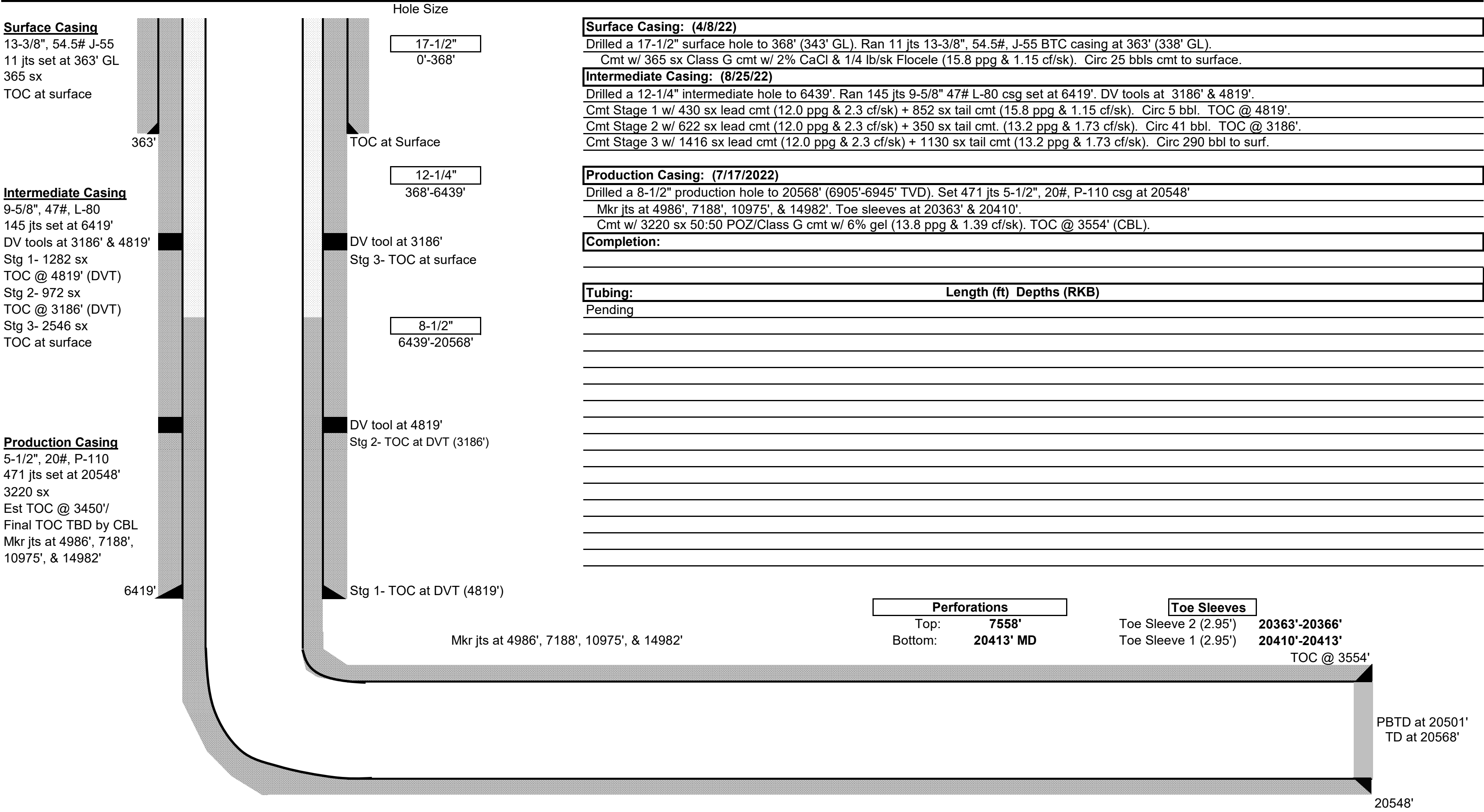


Well Name: Rosa Unit 647H
Location: C - 19 - 31N - 05W, 952' FNL & 422' FWL
County: Rio Arriba
API #: 30-039-31411
Co-ordinates: 36.889715,-107.406336 NAD83
Operator: LOGOS Operating, LLC

Wellbore Schematic

Ground Elevation: 6305'
KB Elevation: 6330'
TD (TVD): 6905'-6945'
TD (MD): 20568'
PBTD: 20501'

Prepared By: 10/18/2022 CHR
Reviewed By: 10/18/2022 MOSS
Last Updated: 12/30/2022 CHR
Spud Date: 4/7/2022
Completion Date:
Last Workover Date:



Formation Tops: (MD)			
Nacimiento	Surface	Chacra	4749'
Ojo Alamo	2503'	Cliff House	5578'
Kirtland	2618'	Menefee	5625'
Fruitland	3113'	Point Lookout	5842'
Pictured Cliffs	3471'	Mancos	6365'
Lewis	3582'		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 174416

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 174416
	Action Type: [C-104] Tight Hole Completion Packet (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.

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Santa Fe, NM 87505

CONDITIONS

Action 174416

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 174416
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-5 Completion Sundry within 10 days to NMOCD after BLM approval.	4/18/2023