

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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 – 039-31423	⁵ Pool Name Basin Mancos		⁶ Pool Code 97232
⁷ Property Code 320608	⁸ Property Name Rosa Unit		⁹ Well Number 744H

II. ¹⁰ Surface Location

UL or lot no. C	Section 33	Township 31N	Range 5W	Lot Idn	Feet from the 349	North/South Line North	Feet from the 1683	East/West line West	County Rio Arriba
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¹¹ Bottom Hole Location

UL or lot no. A	Section 35	Township 31N	Range 5W	Lot Idn	Feet from the 203	North/South line North	Feet from the 65	East/West line East	County 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

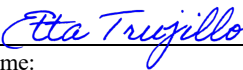
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address		²⁰ O/G/W
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield, NM 87413		G

IV. Well Completion Data

²¹ Spud Date 4/15/2023	²² Ready Date 10/7/2023	²³ TD 20,807’ MD / 7,074’ TVD	²⁴ PBTD 20,690’ MD / 7,073’ TVD	²⁵ Perforations 7,496’ MD / 20,647’MD 7,100’ TVD / 7,073’TVD	²⁶ DHC, MC R-13457	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
26”		21”, 94#, J-55		366’		764sx (156bbbls, 878.6cf)
17.5”		13-3/8”, 61#, J-55		3644’		2700sx (847bbbls, 4755cf)
12.25”		9-5/8”, 47#, L-80		6384’		2077sx (624bbbls, 3503cf) DV tool @ 4834’ TOC @ 2950’
8.5”		5-1/2”, 20#, P-110		20,784’		3013sx (877bbbls, 4926cf) TOC @ 2,823’
		2-7/8”, 6.5#, J-55		pending		

V. Well Test Data

³¹ Date New Oil n/a	³² Gas Delivery Date 10/16/2023	³³ Test Date 10/17/2023	³⁴ Test Length 12hrs	³⁵ Tbg. Pressure n/a	³⁶ Csg. Pressure 2314
³⁷ Choke Size 14/64	³⁸ Oil n/a	³⁹ Water 3bbbls	⁴⁰ Gas 1339 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: 		OIL CONSERVATION DIVISION	
Printed name: Etta Trujillo		Approved by: PATRICIA MARTINEZ	
Title: Regulatory Specialist		Title: PETROLEUM SPECIALIST	
E-mail Address: etrujillo@logosresourcesllc.com		Approval Date: 3/5/2024	
Date: 3/5/2024	Phone: (505) 324-4154		



Request for Confidential "Tight Hole" Status

LOGOS Operating, LLC
Rosa Unit 744H
API# 30-039-31423
C Section 33 T31N R05W
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 12/5/2023 for 90 days acceptance of the referenced documents.

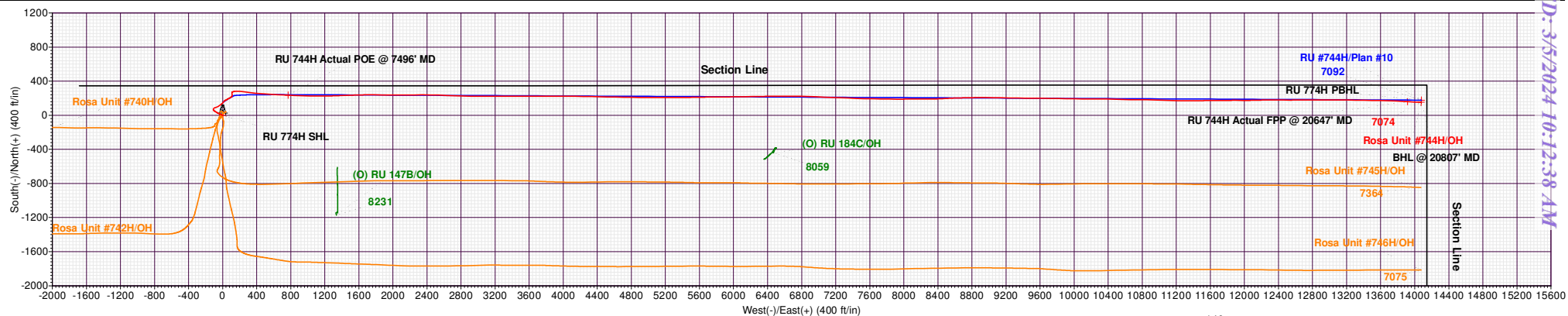
Sincerely,

A handwritten signature in blue ink that reads "Etta Trujillo". The signature is cursive and fluid.

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



County: Rio Arriba, NM NAD83
 Site: Rosa Unit 31
 Well: Rosa Unit #744H
 Depth Reference: GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
 Rig: H&P 530
 Plan: OH
 Job #: 15947

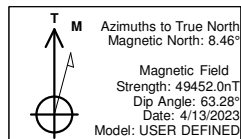


ANNOTATIONS

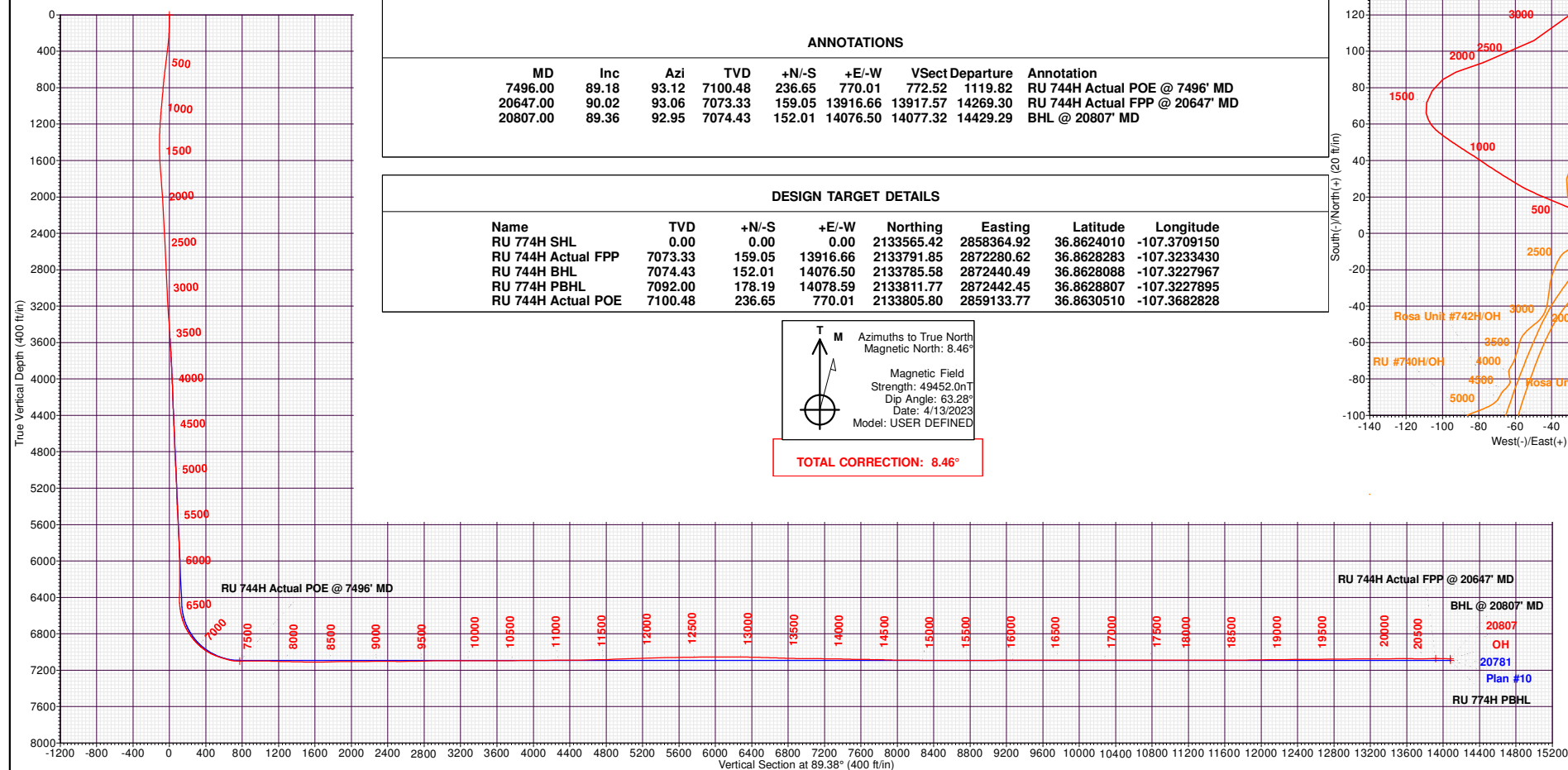
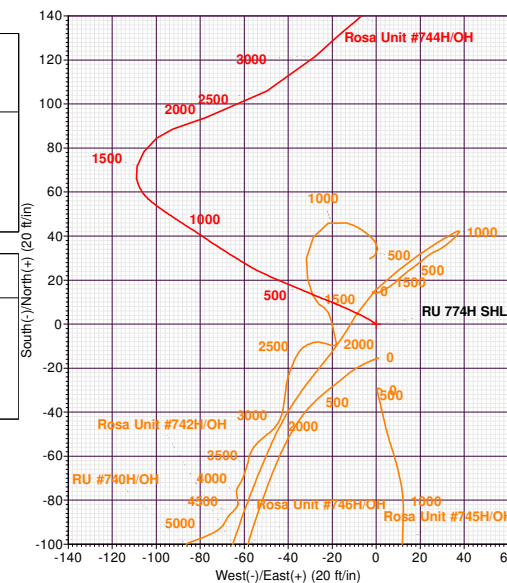
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7496.00	89.18	93.12	7100.48	236.65	770.01	772.52	1119.82	RU 744H Actual POE @ 7496' MD
20647.00	90.02	93.06	7073.33	159.05	13916.66	13917.57	14269.30	RU 744H Actual FPP @ 20647' MD
20807.00	89.36	92.95	7074.43	152.01	14076.50	14077.32	14429.29	BHL @ 20807' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RU 774H SHL	0.00	0.00	0.00	2133565.42	2858364.92	36.8624010	-107.3709150
RU 744H Actual FPP	7073.33	159.05	13916.66	2133791.85	2872280.62	36.8628283	-107.3233430
RU 744H BHL	7074.43	152.01	14076.50	2133785.58	2872440.49	36.8628088	-107.3227967
RU 774H PBHL	7092.00	178.19	14078.59	2133811.77	2872442.45	36.8628807	-107.3227895
RU 744H Actual POE	7100.48	236.65	770.01	2133805.80	2859133.77	36.8630510	-107.3682828



TOTAL CORRECTION: 8.46°



Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 31

Rosa Unit #744H - Slot A3

OH

Design: OH

Standard Survey Report

01 December, 2023

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	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 31				
Site Position:		Northing:	2,133,595.07	usft	Latitude:	36.8624824
From:	Map	Easting:	2,858,361.84	usft	Longitude:	-107.3709251
Position Uncertainty:	0.00	ft	Slot Radius:	13-3/16	"	

Well	Rosa Unit #744H - Slot A3					
Well Position	+N/-S	0.00 ft	Northing:	2,133,565.42 usft	Latitude:	36.8624010
	+E/-W	0.00 ft	Easting:	2,858,364.92 usft	Longitude:	-107.3709150
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,492.00 ft
Grid Convergence:		0.28 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	4/13/2023	8.46	63.28	49,452.00000000

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	89.38	

Survey Program	Date	12/1/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	3,000.00	Survey #1 (OH)	A020Ga_GYRO-NS	OWSG Gyrocompass Gyro	
3,048.00	20,739.00	Survey #2 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
20,807.00	20,807.00	Survey #3 (OH)	Project	Projection	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
100.00	1.36	304.29	99.99	0.67	-0.98	-0.97	1.36	1.36	0.00	
200.00	3.24	299.25	199.91	2.72	-4.43	-4.40	1.89	1.88	-5.04	
300.00	5.87	294.45	299.58	6.22	-11.55	-11.48	2.66	2.63	-4.80	
400.00	8.32	291.98	398.81	11.04	-22.91	-22.79	2.47	2.45	-2.47	
500.00	7.57	292.97	497.85	16.32	-35.69	-35.51	0.76	-0.75	0.99	
600.00	7.59	293.03	596.97	21.47	-47.83	-47.60	0.02	0.02	0.06	
700.00	6.98	301.15	696.17	27.20	-59.11	-58.81	1.20	-0.61	8.12	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
800.00	5.33	302.29	795.59	32.83	-68.24	-67.88	1.65	-1.65	1.14
900.00	6.24	303.98	895.08	38.34	-76.67	-76.25	0.93	0.91	1.69
1,000.00	6.76	302.76	994.44	44.57	-86.13	-85.64	0.54	0.52	-1.22
1,100.00	5.27	303.60	1,093.88	50.29	-94.90	-94.35	1.49	-1.49	0.84
1,200.00	4.73	308.82	1,193.50	55.42	-101.94	-101.33	0.71	-0.54	5.22
1,300.00	3.58	329.05	1,293.24	60.68	-106.76	-106.10	1.85	-1.15	20.23
1,400.00	3.08	348.31	1,393.08	65.99	-108.91	-108.19	1.22	-0.50	19.26
1,500.00	3.67	14.35	1,492.91	71.72	-108.66	-107.88	1.62	0.59	26.04
1,600.00	4.77	32.88	1,592.64	78.32	-105.61	-104.76	1.74	1.10	18.53
1,700.00	5.09	52.51	1,692.28	84.51	-99.83	-98.91	1.71	0.32	19.63
1,800.00	4.63	70.11	1,791.92	88.58	-92.51	-91.55	1.55	-0.46	17.60
1,900.00	4.44	71.12	1,891.61	91.21	-85.06	-84.07	0.21	-0.19	1.01
2,000.00	4.65	69.63	1,991.30	93.87	-77.59	-76.58	0.24	0.21	-1.49
2,500.00	2.32	61.18	2,490.34	105.80	-49.72	-48.58	0.48	-0.47	-1.69
3,000.00	3.86	50.05	2,989.60	121.49	-27.95	-26.64	0.33	0.31	-2.23
3,048.00	3.87	49.23	3,037.49	123.59	-25.49	-24.15	0.12	0.02	-1.71
3,143.00	3.95	45.96	3,132.27	127.95	-20.71	-19.33	0.25	0.08	-3.44
3,237.00	4.44	51.16	3,226.02	132.49	-15.55	-14.12	0.66	0.52	5.53
3,332.00	5.06	48.85	3,320.69	137.55	-9.53	-8.04	0.68	0.65	-2.43
3,427.00	4.97	47.98	3,415.33	143.06	-3.32	-1.77	0.12	-0.09	-0.92
3,521.00	4.77	45.21	3,508.99	148.54	2.48	4.09	0.33	-0.21	-2.95
3,571.00	5.01	44.76	3,558.81	151.56	5.50	7.13	0.49	0.48	-0.90
3,755.00	4.61	41.42	3,742.16	162.80	16.04	17.80	0.27	-0.22	-1.82
3,850.00	4.09	39.75	3,836.89	168.27	20.74	22.55	0.56	-0.55	-1.76
3,944.00	3.69	46.96	3,930.67	172.91	25.09	26.96	0.67	-0.43	7.67
4,039.00	2.90	69.37	4,025.52	175.85	29.57	31.47	1.57	-0.83	23.59
4,134.00	1.71	75.26	4,120.44	177.06	33.19	35.10	1.28	-1.25	6.20
4,228.00	1.80	77.72	4,214.39	177.73	35.99	37.91	0.12	0.10	2.62
4,323.00	2.59	67.87	4,309.32	178.85	39.44	41.37	0.92	0.83	-10.37
4,417.00	3.30	62.70	4,403.20	180.89	43.81	45.76	0.81	0.76	-5.50
4,512.00	2.59	60.49	4,498.07	183.20	48.11	50.08	0.76	-0.75	-2.33
4,606.00	3.52	46.69	4,591.94	186.23	52.06	54.07	1.25	0.99	-14.68
4,701.00	1.71	54.16	4,686.84	189.06	55.33	57.37	1.93	-1.91	7.86
4,795.00	2.02	59.96	4,780.79	190.71	57.90	59.96	0.39	0.33	6.17
4,890.00	2.90	63.57	4,875.70	192.62	61.50	63.58	0.94	0.93	3.80
4,984.00	3.52	65.50	4,969.55	194.87	66.26	68.36	0.67	0.66	2.05
5,079.00	3.52	64.45	5,064.37	197.34	71.54	73.67	0.07	0.00	-1.11
5,173.00	2.02	65.85	5,158.26	199.26	75.66	77.80	1.60	-1.60	1.49
5,268.00	2.02	64.80	5,253.20	200.66	78.70	80.86	0.04	0.00	-1.11
5,363.00	2.42	59.35	5,348.13	202.40	81.94	84.12	0.48	0.42	-5.74
5,457.00	3.60	59.88	5,442.00	204.89	86.20	88.41	1.26	1.26	0.56
5,647.00	3.38	58.47	5,631.65	210.81	96.13	98.40	0.12	-0.12	-0.74
5,709.00	3.30	54.25	5,693.54	212.81	99.14	101.43	0.42	-0.13	-6.81

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,772.00	3.38	46.87	5,756.43	215.14	101.97	104.28	0.69	0.13	-11.71
5,835.00	3.52	39.22	5,819.32	217.91	104.55	106.89	0.76	0.22	-12.14
5,898.00	3.69	36.59	5,882.19	221.03	106.98	109.36	0.38	0.27	-4.17
5,961.00	4.31	19.09	5,945.04	224.90	108.96	111.38	2.16	0.98	-27.78
6,024.00	4.22	10.92	6,007.87	229.41	110.17	112.64	0.97	-0.14	-12.97
6,086.00	4.70	5.65	6,069.68	234.18	110.85	113.38	1.02	0.77	-8.50
6,149.00	5.01	1.43	6,132.46	239.50	111.18	113.76	0.75	0.49	-6.70
6,212.00	5.32	355.89	6,195.20	245.16	111.04	113.68	0.93	0.49	-8.79
6,275.00	5.49	353.08	6,257.92	251.07	110.46	113.17	0.50	0.27	-4.46
6,336.00	5.32	348.60	6,318.65	256.73	109.55	112.32	0.75	-0.28	-7.34
6,427.00	4.73	345.51	6,409.30	264.50	107.78	110.63	0.71	-0.65	-3.40
6,522.00	7.62	57.62	6,503.86	271.68	112.13	115.05	8.03	3.04	75.91
6,616.00	14.05	74.75	6,596.16	278.03	128.42	131.41	7.58	6.84	18.22
6,711.00	20.94	88.38	6,686.74	281.54	156.56	159.59	8.39	7.25	14.35
6,806.00	31.25	91.65	6,771.95	281.31	198.28	201.30	10.95	10.85	3.44
6,900.00	38.68	96.94	6,848.95	277.06	251.89	254.87	8.53	7.90	5.63
6,994.00	46.87	98.62	6,917.89	268.35	315.07	317.95	8.80	8.71	1.79
7,089.00	54.94	94.96	6,977.76	259.78	388.22	391.00	9.00	8.49	-3.85
7,184.00	65.01	95.19	7,025.23	252.50	470.04	472.74	10.60	10.60	0.24
7,278.00	72.30	93.62	7,059.43	245.81	557.28	559.90	7.91	7.76	-1.67
7,373.00	75.05	91.46	7,086.13	241.79	648.34	650.92	3.62	2.89	-2.27
7,468.00	88.29	92.97	7,099.86	238.14	742.06	744.59	14.02	13.94	1.59
7,496.00	89.18	93.12	7,100.48	236.65	770.01	772.52	3.23	3.18	0.55
RU 744H Actual POE @ 7496' MD									
7,562.00	91.28	93.49	7,100.22	232.84	835.90	838.36	3.23	3.18	0.55
7,657.00	90.34	91.63	7,098.87	228.60	930.79	933.20	2.19	-0.99	-1.96
7,751.00	89.40	90.16	7,099.09	227.13	1,024.77	1,027.16	1.86	-1.00	-1.56
7,845.00	88.71	90.90	7,100.64	226.26	1,118.75	1,121.13	1.08	-0.73	0.79
7,940.00	88.19	89.12	7,103.21	226.25	1,213.72	1,216.09	1.95	-0.55	-1.87
8,034.00	88.89	88.05	7,105.60	228.57	1,307.65	1,310.05	1.36	0.74	-1.14
8,128.00	88.49	87.91	7,107.75	231.88	1,401.57	1,403.99	0.45	-0.43	-0.15
8,222.00	89.26	87.94	7,109.60	235.28	1,495.49	1,497.94	0.82	0.82	0.03
8,317.00	90.37	88.62	7,109.90	238.13	1,590.44	1,592.92	1.37	1.17	0.72
8,412.00	90.30	89.84	7,109.35	239.41	1,685.43	1,687.92	1.29	-0.07	1.28
8,506.00	91.68	90.29	7,107.72	239.30	1,779.42	1,781.90	1.54	1.47	0.48
8,601.00	90.87	90.32	7,105.61	238.80	1,874.39	1,876.86	0.85	-0.85	0.03
8,695.00	90.54	90.49	7,104.45	238.13	1,968.38	1,970.84	0.39	-0.35	0.18
8,790.00	89.87	89.88	7,104.11	237.83	2,063.38	2,065.83	0.95	-0.71	-0.64
8,884.00	90.81	89.74	7,103.56	238.14	2,157.38	2,159.82	1.01	1.00	-0.15
8,978.00	90.47	89.66	7,102.51	238.63	2,251.37	2,253.81	0.37	-0.36	-0.09
9,073.00	89.90	89.60	7,102.20	239.24	2,346.37	2,348.81	0.60	-0.60	-0.06
9,168.00	89.36	90.75	7,102.81	238.95	2,441.36	2,443.80	1.34	-0.57	1.21
9,262.00	90.00	91.60	7,103.34	237.03	2,535.34	2,537.75	1.13	0.68	0.90
9,356.00	91.04	92.25	7,102.48	233.87	2,629.28	2,631.65	1.30	1.11	0.69

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,450.00	90.37	92.06	7,101.33	230.34	2,723.21	2,725.53	0.74	-0.71	-0.20	
9,545.00	91.88	91.80	7,099.46	227.14	2,818.13	2,820.42	1.61	1.59	-0.27	
9,639.00	90.98	91.20	7,097.12	224.68	2,912.07	2,914.32	1.15	-0.96	-0.64	
9,734.00	90.54	90.67	7,095.86	223.13	3,007.05	3,009.28	0.73	-0.46	-0.56	
9,828.00	90.13	90.45	7,095.31	222.21	3,101.04	3,103.26	0.49	-0.44	-0.23	
9,922.00	89.43	89.63	7,095.67	222.14	3,195.04	3,197.25	1.15	-0.74	-0.87	
10,017.00	90.00	89.93	7,096.14	222.51	3,290.04	3,292.25	0.68	0.60	0.32	
10,111.00	89.13	89.75	7,096.85	222.77	3,384.03	3,386.24	0.95	-0.93	-0.19	
10,206.00	90.81	90.43	7,096.90	222.62	3,479.03	3,481.23	1.91	1.77	0.72	
10,300.00	90.00	89.47	7,096.24	222.70	3,573.02	3,575.22	1.34	-0.86	-1.02	
10,395.00	90.20	90.04	7,096.07	223.11	3,668.02	3,670.22	0.64	0.21	0.60	
10,490.00	91.34	90.18	7,094.80	222.93	3,763.01	3,765.20	1.21	1.20	0.15	
10,584.00	90.27	89.88	7,093.48	222.88	3,857.00	3,859.18	1.18	-1.14	-0.32	
10,678.00	89.60	89.51	7,093.58	223.38	3,951.00	3,953.18	0.81	-0.71	-0.39	
10,772.00	90.47	90.02	7,093.53	223.76	4,045.00	4,047.18	1.07	0.93	0.54	
10,867.00	90.07	90.76	7,093.08	223.12	4,139.99	4,142.16	0.89	-0.42	0.78	
10,961.00	91.41	91.07	7,091.86	221.62	4,233.97	4,236.12	1.46	1.43	0.33	
11,056.00	90.84	91.34	7,090.00	219.62	4,328.93	4,331.05	0.66	-0.60	0.28	
11,150.00	90.44	91.37	7,088.95	217.40	4,422.90	4,424.99	0.43	-0.43	0.03	
11,245.00	90.03	91.28	7,088.56	215.20	4,517.87	4,519.93	0.44	-0.43	-0.09	
11,340.00	91.08	90.73	7,087.64	213.53	4,612.85	4,614.89	1.25	1.11	-0.58	
11,434.00	91.01	90.77	7,085.92	212.30	4,706.83	4,708.85	0.09	-0.07	0.04	
11,529.00	92.69	90.43	7,082.86	211.31	4,801.77	4,803.77	1.80	1.77	-0.36	
11,623.00	91.95	90.29	7,079.05	210.72	4,895.69	4,897.68	0.80	-0.79	-0.15	
11,718.00	91.48	90.15	7,076.21	210.35	4,990.65	4,992.63	0.52	-0.49	-0.15	
11,813.00	92.72	90.68	7,072.73	209.67	5,085.58	5,087.54	1.42	1.31	0.56	
11,907.00	92.12	90.28	7,068.76	208.88	5,179.49	5,181.44	0.77	-0.64	-0.43	
12,002.00	91.75	89.71	7,065.55	208.89	5,274.43	5,276.38	0.72	-0.39	-0.60	
12,097.00	91.24	89.63	7,063.07	209.43	5,369.40	5,371.35	0.54	-0.54	-0.08	
12,191.00	90.97	89.18	7,061.26	210.41	5,463.38	5,465.33	0.56	-0.29	-0.48	
12,285.00	90.84	89.48	7,059.78	211.51	5,557.36	5,559.32	0.35	-0.14	0.32	
12,380.00	90.07	88.80	7,059.02	212.94	5,652.34	5,654.31	1.08	-0.81	-0.72	
12,474.00	91.18	89.91	7,058.00	213.99	5,746.33	5,748.31	1.67	1.18	1.18	
12,569.00	90.84	89.47	7,056.32	214.51	5,841.31	5,843.29	0.59	-0.36	-0.46	
12,664.00	90.61	89.24	7,055.12	215.58	5,936.30	5,938.28	0.34	-0.24	-0.24	
12,758.00	90.24	88.99	7,054.42	217.03	6,030.29	6,032.28	0.48	-0.39	-0.27	
12,853.00	89.93	89.29	7,054.28	218.45	6,125.27	6,127.28	0.45	-0.33	0.32	
12,947.00	89.66	89.23	7,054.62	219.67	6,219.27	6,221.28	0.29	-0.29	-0.06	
13,042.00	89.13	88.97	7,055.62	221.16	6,314.25	6,316.27	0.62	-0.56	-0.27	
13,136.00	88.86	89.64	7,057.27	222.30	6,408.23	6,410.25	0.77	-0.29	0.71	
13,231.00	88.35	89.38	7,059.58	223.11	6,503.19	6,505.22	0.60	-0.54	-0.27	
13,325.00	88.12	89.77	7,062.48	223.81	6,597.15	6,599.18	0.48	-0.24	0.41	
13,420.00	87.71	89.78	7,065.93	224.18	6,692.08	6,694.11	0.43	-0.43	0.01	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,514.00	88.69	91.87	7,068.89	222.83	6,786.02	6,788.03	2.45	1.04	2.22	
13,608.00	88.25	91.54	7,071.40	220.03	6,879.95	6,881.92	0.59	-0.47	-0.35	
13,703.00	89.76	92.16	7,073.05	216.97	6,974.88	6,976.81	1.72	1.59	0.65	
13,798.00	89.83	92.62	7,073.39	213.01	7,069.79	7,071.68	0.49	0.07	0.48	
13,891.00	89.53	91.95	7,073.90	209.30	7,162.72	7,164.56	0.79	-0.32	-0.72	
13,986.00	89.29	92.00	7,074.88	206.02	7,257.66	7,259.46	0.26	-0.25	0.05	
14,080.00	88.96	91.94	7,076.32	202.79	7,351.59	7,353.35	0.36	-0.35	-0.06	
14,175.00	88.05	93.05	7,078.80	198.66	7,446.47	7,448.18	1.51	-0.96	1.17	
14,269.00	89.36	91.39	7,080.92	195.02	7,540.37	7,542.03	2.25	1.39	-1.77	
14,364.00	89.66	90.45	7,081.73	193.49	7,635.35	7,636.99	1.04	0.32	-0.99	
14,458.00	88.79	91.30	7,083.01	192.06	7,729.33	7,730.95	1.29	-0.93	0.90	
14,553.00	88.72	90.39	7,085.07	190.66	7,824.29	7,825.90	0.96	-0.07	-0.96	
14,648.00	88.15	90.63	7,087.66	189.81	7,919.25	7,920.84	0.65	-0.60	0.25	
14,742.00	88.99	88.98	7,090.01	190.13	8,013.22	8,014.81	1.97	0.89	-1.76	
14,836.00	89.87	90.29	7,090.95	190.73	8,107.21	8,108.80	1.68	0.94	1.39	
14,931.00	89.33	90.37	7,091.61	190.18	8,202.21	8,203.78	0.57	-0.57	0.08	
15,026.00	90.07	89.48	7,092.11	190.31	8,297.20	8,298.77	1.22	0.78	-0.94	
15,120.00	90.00	87.63	7,092.05	192.68	8,391.17	8,392.76	1.97	-0.07	-1.97	
15,215.00	89.83	87.02	7,092.19	197.11	8,486.07	8,487.70	0.67	-0.18	-0.64	
15,309.00	89.36	87.28	7,092.85	201.79	8,579.95	8,581.63	0.57	-0.50	0.28	
15,404.00	89.56	89.21	7,093.75	204.70	8,674.89	8,676.60	2.04	0.21	2.03	
15,498.00	90.84	88.90	7,093.42	206.25	8,768.88	8,770.59	1.40	1.36	-0.33	
15,593.00	90.00	89.34	7,092.72	207.70	8,863.86	8,865.59	1.00	-0.88	0.46	
15,687.00	90.44	90.99	7,092.36	207.43	8,957.86	8,959.58	1.82	0.47	1.76	
15,782.00	89.76	89.82	7,092.20	206.76	9,052.85	9,054.56	1.42	-0.72	-1.23	
15,876.00	91.14	90.82	7,091.46	206.24	9,146.85	9,148.54	1.81	1.47	1.06	
15,971.00	90.37	91.38	7,090.21	204.41	9,241.82	9,243.49	1.00	-0.81	0.59	
16,066.00	89.70	91.24	7,090.15	202.24	9,336.79	9,338.43	0.72	-0.71	-0.15	
16,160.00	90.47	90.54	7,090.01	200.78	9,430.78	9,432.40	1.11	0.82	-0.74	
16,255.00	90.10	90.08	7,089.54	200.27	9,525.78	9,527.39	0.62	-0.39	-0.48	
16,350.00	89.26	91.13	7,090.07	199.27	9,620.77	9,622.36	1.42	-0.88	1.11	
16,445.00	90.50	90.86	7,090.27	197.62	9,715.75	9,717.32	1.34	1.31	-0.28	
16,539.00	89.97	90.82	7,089.88	196.24	9,809.74	9,811.29	0.57	-0.56	-0.04	
16,634.00	89.09	91.05	7,090.66	194.69	9,904.72	9,906.25	0.96	-0.93	0.24	
16,728.00	90.87	90.34	7,090.69	193.55	9,998.71	10,000.22	2.04	1.89	-0.76	
16,823.00	90.30	90.09	7,089.72	193.19	10,093.71	10,095.20	0.66	-0.60	-0.26	
16,917.00	89.63	90.42	7,089.78	192.77	10,187.71	10,189.19	0.79	-0.71	0.35	
17,012.00	89.09	90.58	7,090.84	191.94	10,282.70	10,284.17	0.59	-0.57	0.17	
17,106.00	90.13	90.40	7,091.48	191.14	10,376.69	10,378.15	1.12	1.11	-0.19	
17,201.00	90.94	92.04	7,090.60	189.12	10,471.66	10,473.09	1.93	0.85	1.73	
17,295.00	90.71	91.89	7,089.24	185.89	10,565.59	10,566.99	0.29	-0.24	-0.16	
17,390.00	90.20	91.08	7,088.49	183.43	10,660.56	10,661.92	1.01	-0.54	-0.85	
17,484.00	89.90	90.16	7,088.41	182.42	10,754.55	10,755.89	1.03	-0.32	-0.98	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,579.00	89.46	90.54	7,088.94	181.84	10,849.55	10,850.88	0.61	-0.46	0.40
17,673.00	89.80	92.31	7,089.54	179.50	10,943.51	10,944.81	1.92	0.36	1.88
17,768.00	89.66	91.83	7,089.99	176.07	11,038.45	11,039.71	0.53	-0.15	-0.51
17,863.00	90.44	91.83	7,089.91	173.03	11,133.40	11,134.62	0.82	0.82	0.00
17,957.00	90.47	90.12	7,089.16	171.43	11,227.38	11,228.58	1.82	0.03	-1.82
18,052.00	90.13	89.89	7,088.66	171.42	11,322.38	11,323.57	0.43	-0.36	-0.24
18,147.00	89.50	90.14	7,088.97	171.40	11,417.38	11,418.56	0.71	-0.66	0.26
18,241.00	89.93	88.57	7,089.44	172.46	11,511.37	11,512.56	1.73	0.46	-1.67
18,304.00	89.60	89.53	7,089.70	173.50	11,574.36	11,575.56	1.61	-0.52	1.52
18,367.00	89.66	90.24	7,090.10	173.63	11,637.36	11,638.55	1.13	0.10	1.13
18,430.00	90.00	89.77	7,090.29	173.62	11,700.35	11,701.55	0.92	0.54	-0.75
18,493.00	90.77	89.02	7,089.87	174.29	11,763.35	11,764.55	1.71	1.22	-1.19
18,556.00	91.58	89.12	7,088.58	175.31	11,826.33	11,827.53	1.30	1.29	0.16
18,619.00	91.04	90.09	7,087.13	175.75	11,889.31	11,890.51	1.76	-0.86	1.54
18,714.00	90.30	90.58	7,086.02	175.19	11,984.30	11,985.49	0.93	-0.78	0.52
18,808.00	90.34	88.78	7,085.50	175.71	12,078.29	12,079.49	1.92	0.04	-1.91
18,903.00	91.28	88.42	7,084.16	178.04	12,173.25	12,174.47	1.06	0.99	-0.38
18,997.00	90.71	89.03	7,082.52	180.13	12,267.21	12,268.44	0.89	-0.61	0.65
19,092.00	90.24	90.72	7,081.74	180.33	12,362.21	12,363.43	1.85	-0.49	1.78
19,186.00	89.70	90.88	7,081.79	179.02	12,456.20	12,457.40	0.60	-0.57	0.17
19,281.00	90.94	89.44	7,081.25	178.76	12,551.19	12,552.39	2.00	1.31	-1.52
19,375.00	90.47	89.06	7,080.10	179.99	12,645.18	12,646.38	0.64	-0.50	-0.40
19,470.00	90.03	89.34	7,079.68	181.31	12,740.17	12,741.38	0.55	-0.46	0.29
19,565.00	90.54	90.70	7,079.21	181.28	12,835.16	12,836.37	1.53	0.54	1.43
19,659.00	91.25	90.48	7,077.74	180.31	12,929.14	12,930.34	0.79	0.76	-0.23
19,753.00	90.77	90.68	7,076.09	179.36	13,023.13	13,024.30	0.55	-0.51	0.21
19,848.00	90.61	89.76	7,074.94	179.00	13,118.12	13,119.28	0.98	-0.17	-0.97
19,942.00	90.24	90.00	7,074.24	179.19	13,212.11	13,213.28	0.47	-0.39	0.26
20,037.00	89.60	91.36	7,074.38	178.07	13,307.10	13,308.25	1.58	-0.67	1.43
20,131.00	90.30	90.93	7,074.46	176.19	13,401.08	13,402.21	0.87	0.74	-0.46
20,226.00	90.37	90.15	7,073.90	175.29	13,496.08	13,497.18	0.82	0.07	-0.82
20,321.00	90.00	90.83	7,073.60	174.48	13,591.07	13,592.16	0.81	-0.39	0.72
20,415.00	89.26	92.73	7,074.20	171.56	13,685.02	13,686.08	2.17	-0.79	2.02
20,510.00	90.77	92.36	7,074.18	167.34	13,779.92	13,780.93	1.64	1.59	-0.39
20,605.00	90.17	94.37	7,073.40	161.77	13,874.75	13,875.69	2.21	-0.63	2.12
20,647.00	90.02	93.06	7,073.33	159.05	13,916.66	13,917.57	3.15	-0.36	-3.13
RU 744H Actual FPP @ 20647' MD									
20,700.00	89.83	91.40	7,073.40	156.98	13,969.62	13,970.50	3.15	-0.36	-3.13
20,739.00	89.36	92.95	7,073.68	155.50	14,008.59	14,009.45	4.15	-1.21	3.97
20,807.00	89.36	92.95	7,074.44	152.01	14,076.50	14,077.32	0.00	0.00	0.00
BHL @ 20807' MD									

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 774H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,133,565.42	2,858,364.92	36.8624010	-107.3709150
RU 744H Actual FPP - actual wellpath hits target center - Point	0.00	0.00	7,073.33	159.05	13,916.66	2,133,791.85	2,872,280.62	36.8628283	-107.3233431
RU 744H BHL - actual wellpath hits target center - Point	0.00	0.00	7,074.44	152.01	14,076.50	2,133,785.58	2,872,440.49	36.8628088	-107.3227967
RU 774H PBHL - actual wellpath misses target center by 31.60ft at 20807.00ft MD (7074.43 TVD, 152.01 N, 14076.50 E) - Point	0.00	0.00	7,092.00	178.19	14,078.59	2,133,811.77	2,872,442.45	36.8628807	-107.3227895
RU 744H Actual POE - actual wellpath hits target center - Point	0.00	0.00	7,100.48	236.65	770.01	2,133,805.80	2,859,133.78	36.8630510	-107.3682829

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,496.00	7,100.48	236.65	770.01	RU 744H Actual POE @ 7496' MD	
20,647.00	7,073.33	159.05	13,916.66	RU 744H Actual FPP @ 20647' MD	
20,807.00	7,074.44	152.01	14,076.50	BHL @ 20807' MD	

Checked By: _____	Approved By: _____	Date: _____
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Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 31

Rosa Unit #744H - Slot A3

OH

Design: OH

Survey Report - Geographic

01 December, 2023

SDT
Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	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 31						
Site Position:		Northing:	2,133,595.07	usft	Latitude:	36.8624824		
From:	Map	Easting:	2,858,361.84	usft	Longitude:	-107.3709251		
Position Uncertainty:	0.00	ft	Slot Radius:	13-3/16	"	Grid Convergence:	0.28	°

Well	Rosa Unit #744H - Slot A3					
Well Position	+N/-S	0.00 ft	Northing:	2,133,565.42 usft	Latitude:	36.8624010
	+E/-W	0.00 ft	Easting:	2,858,364.92 usft	Longitude:	-107.3709150
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,492.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	4/13/2023	8.46	63.28	49,452.00000000

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	89.38	

Survey Program	Date	12/1/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	3,000.00	Survey #1 (OH)	A020Ga_GYRO-NS	OWSG Gyrocompass Gyro	
3,048.00	20,739.00	Survey #2 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
20,807.00	20,807.00	Survey #3 (OH)	Project	Projection	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	2,133,565.42	2,858,364.92	36.8624010	-107.3709150	
100.00	1.36	304.29	99.99	0.67	-0.98	2,133,566.08	2,858,363.94	36.8624028	-107.3709184	
200.00	3.24	299.25	199.91	2.72	-4.43	2,133,568.12	2,858,360.48	36.8624084	-107.3709302	
300.00	5.87	294.45	299.58	6.22	-11.55	2,133,571.58	2,858,353.34	36.8624180	-107.3709545	
400.00	8.32	291.98	398.81	11.04	-22.91	2,133,576.35	2,858,341.96	36.8624313	-107.3709934	
500.00	7.57	292.97	497.85	16.32	-35.69	2,133,581.57	2,858,329.16	36.8624458	-107.3710370	
600.00	7.59	293.03	596.97	21.47	-47.83	2,133,586.66	2,858,316.99	36.8624600	-107.3710785	
700.00	6.98	301.15	696.17	27.20	-59.11	2,133,592.33	2,858,305.68	36.8624757	-107.3711171	
800.00	5.33	302.29	795.59	32.83	-68.24	2,133,597.91	2,858,296.53	36.8624911	-107.3711483	
900.00	6.24	303.98	895.08	38.34	-76.67	2,133,603.39	2,858,288.07	36.8625063	-107.3711771	

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Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,000.00	6.76	302.76	994.44	44.57	-86.13	2,133,609.57	2,858,278.58	36.8625234	-107.3712095
1,100.00	5.27	303.60	1,093.88	50.29	-94.90	2,133,615.25	2,858,269.78	36.8625391	-107.3712394
1,200.00	4.73	308.82	1,193.50	55.42	-101.94	2,133,620.34	2,858,262.72	36.8625532	-107.3712635
1,300.00	3.58	329.05	1,293.24	60.68	-106.76	2,133,625.58	2,858,257.87	36.8625676	-107.3712800
1,400.00	3.08	348.31	1,393.08	65.99	-108.91	2,133,630.88	2,858,255.70	36.8625822	-107.3712873
1,500.00	3.67	14.35	1,492.91	71.72	-108.66	2,133,636.61	2,858,255.92	36.8625980	-107.3712865
1,600.00	4.77	32.88	1,592.64	78.32	-105.61	2,133,643.22	2,858,258.94	36.8626161	-107.3712760
1,700.00	5.09	52.51	1,692.28	84.51	-99.83	2,133,649.44	2,858,264.69	36.8626331	-107.3712563
1,800.00	4.63	70.11	1,791.92	88.58	-92.51	2,133,653.55	2,858,271.98	36.8626443	-107.3712313
1,900.00	4.44	71.12	1,891.61	91.21	-85.06	2,133,656.21	2,858,279.43	36.8626515	-107.3712058
2,000.00	4.65	69.63	1,991.30	93.87	-77.59	2,133,658.91	2,858,286.88	36.8626588	-107.3711803
2,500.00	2.32	61.18	2,490.34	105.80	-49.72	2,133,670.98	2,858,314.69	36.8626916	-107.3710850
3,000.00	3.86	50.05	2,989.60	121.49	-27.95	2,133,686.77	2,858,336.38	36.8627347	-107.3710106
3,048.00	3.87	49.23	3,037.49	123.59	-25.49	2,133,688.88	2,858,338.84	36.8627404	-107.3710022
3,143.00	3.95	45.96	3,132.27	127.95	-20.71	2,133,693.27	2,858,343.60	36.8627524	-107.3709858
3,237.00	4.44	51.16	3,226.02	132.49	-15.55	2,133,697.83	2,858,348.74	36.8627649	-107.3709682
3,332.00	5.06	48.85	3,320.69	137.55	-9.53	2,133,702.92	2,858,354.73	36.8627788	-107.3709476
3,427.00	4.97	47.98	3,415.33	143.06	-3.32	2,133,708.46	2,858,360.91	36.8627939	-107.3709264
3,521.00	4.77	45.21	3,508.99	148.54	2.48	2,133,713.97	2,858,366.69	36.8628090	-107.3709066
3,571.00	5.01	44.76	3,558.81	151.56	5.50	2,133,717.00	2,858,369.68	36.8628173	-107.3708963
3,755.00	4.61	41.42	3,742.16	162.80	16.04	2,133,728.30	2,858,380.18	36.8628482	-107.3708602
3,850.00	4.09	39.75	3,836.89	168.27	20.74	2,133,733.79	2,858,384.84	36.8628632	-107.3708442
3,944.00	3.69	46.96	3,930.67	172.91	25.09	2,133,738.45	2,858,389.18	36.8628759	-107.3708293
4,039.00	2.90	69.37	4,025.52	175.85	29.57	2,133,741.41	2,858,393.65	36.8628840	-107.3708139
4,134.00	1.71	75.26	4,120.44	177.06	33.19	2,133,742.63	2,858,397.26	36.8628873	-107.3708016
4,228.00	1.80	77.72	4,214.39	177.73	35.99	2,133,743.32	2,858,400.06	36.8628891	-107.3707920
4,323.00	2.59	67.87	4,309.32	178.85	39.44	2,133,744.46	2,858,403.50	36.8628922	-107.3707802
4,417.00	3.30	62.70	4,403.20	180.89	43.81	2,133,746.52	2,858,407.86	36.8628978	-107.3707653
4,512.00	2.59	60.49	4,498.07	183.20	48.11	2,133,748.85	2,858,412.14	36.8629042	-107.3707506
4,606.00	3.52	46.69	4,591.94	186.23	52.06	2,133,751.90	2,858,416.08	36.8629125	-107.3707371
4,701.00	1.71	54.16	4,686.84	189.06	55.33	2,133,754.75	2,858,419.34	36.8629203	-107.3707259
4,795.00	2.02	59.96	4,780.79	190.71	57.90	2,133,756.41	2,858,421.90	36.8629248	-107.3707171
4,890.00	2.90	63.57	4,875.70	192.62	61.50	2,133,758.33	2,858,425.49	36.8629300	-107.3707048
4,984.00	3.52	65.50	4,969.55	194.87	66.26	2,133,760.61	2,858,430.24	36.8629362	-107.3706886
5,079.00	3.52	64.45	5,064.37	197.34	71.54	2,133,763.10	2,858,435.51	36.8629430	-107.3706705
5,173.00	2.02	65.85	5,158.26	199.26	75.66	2,133,765.05	2,858,439.61	36.8629483	-107.3706564
5,268.00	2.02	64.80	5,253.20	200.66	78.70	2,133,766.46	2,858,442.65	36.8629521	-107.3706460
5,363.00	2.42	59.35	5,348.13	202.40	81.94	2,133,768.21	2,858,445.88	36.8629569	-107.3706349
5,457.00	3.60	59.88	5,442.00	204.89	86.20	2,133,770.72	2,858,450.13	36.8629637	-107.3706204
5,647.00	3.38	58.47	5,631.65	210.81	96.13	2,133,776.69	2,858,460.04	36.8629800	-107.3705864
5,709.00	3.30	54.25	5,693.54	212.81	99.14	2,133,778.71	2,858,463.03	36.8629855	-107.3705761
5,772.00	3.38	46.87	5,756.43	215.14	101.97	2,133,781.05	2,858,465.85	36.8629919	-107.3705665
5,835.00	3.52	39.22	5,819.32	217.91	104.55	2,133,783.83	2,858,468.41	36.8629995	-107.3705577
5,898.00	3.69	36.59	5,882.19	221.03	106.98	2,133,786.97	2,858,470.83	36.8630081	-107.3705494
5,961.00	4.31	19.09	5,945.04	224.90	108.96	2,133,790.84	2,858,472.79	36.8630187	-107.3705426
6,024.00	4.22	10.92	6,007.87	229.41	110.17	2,133,795.36	2,858,473.98	36.8630311	-107.3705384
6,086.00	4.70	5.65	6,069.68	234.18	110.85	2,133,800.13	2,858,474.64	36.8630442	-107.3705361
6,149.00	5.01	1.43	6,132.46	239.50	111.18	2,133,805.45	2,858,474.94	36.8630588	-107.3705350
6,212.00	5.32	355.89	6,195.20	245.16	111.04	2,133,811.11	2,858,474.77	36.8630744	-107.3705355
6,275.00	5.49	353.08	6,257.92	251.07	110.46	2,133,817.02	2,858,474.17	36.8630906	-107.3705374
6,336.00	5.32	348.60	6,318.65	256.73	109.55	2,133,822.68	2,858,473.23	36.8631062	-107.3705405
6,427.00	4.73	345.51	6,409.30	264.50	107.78	2,133,830.44	2,858,471.42	36.8631275	-107.3705466
6,522.00	7.62	57.62	6,503.86	271.68	112.13	2,133,837.64	2,858,475.73	36.8631472	-107.3705318
6,616.00	14.05	74.75	6,596.16	278.03	128.42	2,133,844.06	2,858,491.99	36.8631646	-107.3704761
6,711.00	20.94	88.38	6,686.74	281.54	156.56	2,133,847.72	2,858,520.12	36.8631743	-107.3703799

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Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,806.00	31.25	91.65	6,771.95	281.31	198.28	2,133,847.69	2,858,561.83	36.8631737	-107.3702373	
6,900.00	38.68	96.94	6,848.95	277.06	251.89	2,133,843.69	2,858,615.47	36.8631620	-107.3700540	
6,994.00	46.87	98.62	6,917.89	268.35	315.07	2,133,835.29	2,858,678.69	36.8631381	-107.3698380	
7,089.00	54.94	94.96	6,977.76	259.78	388.22	2,133,827.07	2,858,751.88	36.8631145	-107.3695880	
7,184.00	65.01	95.19	7,025.23	252.50	470.04	2,133,820.19	2,858,833.74	36.8630945	-107.3693084	
7,278.00	72.30	93.62	7,059.43	245.81	557.28	2,133,813.93	2,858,921.00	36.8630761	-107.3690101	
7,373.00	75.05	91.46	7,086.13	241.79	648.34	2,133,810.34	2,859,012.09	36.8630651	-107.3686988	
7,468.00	88.29	92.97	7,099.86	238.14	742.06	2,133,807.15	2,859,105.82	36.8630550	-107.3683784	
7,496.00	89.18	93.12	7,100.48	236.65	770.01	2,133,805.80	2,859,133.78	36.8630510	-107.3682829	
RU 744H Actual POE @ 7496' MD										
7,562.00	91.28	93.49	7,100.22	232.84	835.90	2,133,802.31	2,859,199.68	36.8630405	-107.3680576	
7,657.00	90.34	91.63	7,098.87	228.60	930.79	2,133,798.52	2,859,294.59	36.8630288	-107.3677333	
7,751.00	89.40	90.16	7,099.09	227.13	1,024.77	2,133,797.51	2,859,388.58	36.8630248	-107.3674120	
7,845.00	88.71	90.90	7,100.64	226.26	1,118.75	2,133,797.10	2,859,482.57	36.8630224	-107.3670907	
7,940.00	88.19	89.12	7,103.21	226.25	1,213.72	2,133,797.54	2,859,577.53	36.8630223	-107.3667661	
8,034.00	88.89	88.05	7,105.60	228.57	1,307.65	2,133,800.32	2,859,671.45	36.8630287	-107.3664450	
8,128.00	88.49	87.91	7,107.75	231.88	1,401.57	2,133,804.08	2,859,765.35	36.8630378	-107.3661240	
8,222.00	89.26	87.94	7,109.60	235.28	1,495.49	2,133,807.94	2,859,859.25	36.8630471	-107.3658029	
8,317.00	90.37	88.62	7,109.90	238.13	1,590.44	2,133,811.25	2,859,954.19	36.8630549	-107.3654783	
8,412.00	90.30	89.84	7,109.35	239.41	1,685.43	2,133,812.99	2,860,049.17	36.8630584	-107.3651536	
8,506.00	91.68	90.29	7,107.72	239.30	1,779.42	2,133,813.34	2,860,143.16	36.8630581	-107.3648324	
8,601.00	90.87	90.32	7,105.61	238.80	1,874.39	2,133,813.29	2,860,238.13	36.8630567	-107.3645077	
8,695.00	90.54	90.49	7,104.45	238.13	1,968.38	2,133,813.08	2,860,332.12	36.8630549	-107.3641864	
8,790.00	89.87	89.88	7,104.11	237.83	2,063.38	2,133,813.23	2,860,427.12	36.8630540	-107.3638617	
8,884.00	90.81	89.74	7,103.56	238.14	2,157.38	2,133,814.00	2,860,521.12	36.8630548	-107.3635404	
8,978.00	90.47	89.66	7,102.51	238.63	2,251.37	2,133,814.95	2,860,615.11	36.8630562	-107.3632191	
9,073.00	89.90	89.60	7,102.20	239.24	2,346.37	2,133,816.02	2,860,710.10	36.8630578	-107.3628943	
9,168.00	89.36	90.75	7,102.81	238.95	2,441.36	2,133,816.19	2,860,805.09	36.8630570	-107.3625696	
9,262.00	90.00	91.60	7,103.34	237.03	2,535.34	2,133,814.72	2,860,899.08	36.8630517	-107.3622483	
9,356.00	91.04	92.25	7,102.48	233.87	2,629.28	2,133,812.02	2,860,993.03	36.8630430	-107.3619272	
9,450.00	90.37	92.06	7,101.33	230.34	2,723.21	2,133,808.94	2,861,086.98	36.8630333	-107.3616061	
9,545.00	91.88	91.80	7,099.46	227.14	2,818.13	2,133,806.20	2,861,181.92	36.8630245	-107.3612817	
9,639.00	90.98	91.20	7,097.12	224.68	2,912.07	2,133,804.19	2,861,275.86	36.8630177	-107.3609606	
9,734.00	90.54	90.67	7,095.86	223.13	3,007.05	2,133,803.10	2,861,370.85	36.8630134	-107.3606359	
9,828.00	90.13	90.45	7,095.31	222.21	3,101.04	2,133,802.64	2,861,464.84	36.8630108	-107.3603146	
9,922.00	89.43	89.63	7,095.67	222.14	3,195.04	2,133,803.03	2,861,558.84	36.8630106	-107.3599933	
10,017.00	90.00	89.93	7,096.14	222.51	3,290.04	2,133,803.85	2,861,653.84	36.8630116	-107.3596685	
10,111.00	89.13	89.75	7,096.85	222.77	3,384.03	2,133,804.57	2,861,747.83	36.8630123	-107.3593472	
10,206.00	90.81	90.43	7,096.90	222.62	3,479.03	2,133,804.88	2,861,842.82	36.8630119	-107.3590225	
10,300.00	90.00	89.47	7,096.24	222.70	3,573.02	2,133,805.42	2,861,936.82	36.8630120	-107.3587012	
10,395.00	90.20	90.04	7,096.07	223.11	3,668.02	2,133,806.29	2,862,031.81	36.8630131	-107.3583764	
10,490.00	91.34	90.18	7,094.80	222.93	3,763.01	2,133,806.56	2,862,126.80	36.8630126	-107.3580517	
10,584.00	90.27	89.88	7,093.48	222.88	3,857.00	2,133,806.97	2,862,220.79	36.8630124	-107.3577304	
10,678.00	89.60	89.51	7,093.58	223.38	3,951.00	2,133,807.92	2,862,314.79	36.8630138	-107.3574091	
10,772.00	90.47	90.02	7,093.53	223.76	4,045.00	2,133,808.77	2,862,408.78	36.8630148	-107.3570878	
10,867.00	90.07	90.76	7,093.08	223.12	4,139.99	2,133,808.58	2,862,503.78	36.8630130	-107.3567631	
10,961.00	91.41	91.07	7,091.86	221.62	4,233.97	2,133,807.53	2,862,597.76	36.8630088	-107.3564418	
11,056.00	90.84	91.34	7,090.00	219.62	4,328.93	2,133,806.00	2,862,692.73	36.8630033	-107.3561172	
11,150.00	90.44	91.37	7,088.95	217.40	4,422.90	2,133,804.23	2,862,786.71	36.8629971	-107.3557960	
11,245.00	90.03	91.28	7,088.56	215.20	4,517.87	2,133,802.49	2,862,881.69	36.8629911	-107.3554713	
11,340.00	91.08	90.73	7,087.64	213.53	4,612.85	2,133,801.28	2,862,976.68	36.8629864	-107.3551467	
11,434.00	91.01	90.77	7,085.92	212.30	4,706.83	2,133,800.51	2,863,070.66	36.8629830	-107.3548254	
11,529.00	92.69	90.43	7,082.86	211.31	4,801.77	2,133,799.97	2,863,165.60	36.8629802	-107.3545009	
11,623.00	91.95	90.29	7,079.05	210.72	4,895.69	2,133,799.84	2,863,259.53	36.8629786	-107.3541798	
11,718.00	91.48	90.15	7,076.21	210.35	4,990.65	2,133,799.93	2,863,354.48	36.8629775	-107.3538552	

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,813.00	92.72	90.68	7,072.73	209.67	5,085.58	2,133,799.71	2,863,449.42	36.8629756	-107.3535307
11,907.00	92.12	90.28	7,068.76	208.88	5,179.49	2,133,799.37	2,863,543.33	36.8629734	-107.3532097
12,002.00	91.75	89.71	7,065.55	208.89	5,274.43	2,133,799.84	2,863,638.27	36.8629734	-107.3528851
12,097.00	91.24	89.63	7,063.07	209.43	5,369.40	2,133,800.85	2,863,733.24	36.8629748	-107.3525605
12,191.00	90.97	89.18	7,061.26	210.41	5,463.38	2,133,802.28	2,863,827.21	36.8629774	-107.3522393
12,285.00	90.84	89.48	7,059.78	211.51	5,557.36	2,133,803.83	2,863,921.18	36.8629804	-107.3519180
12,380.00	90.07	88.80	7,059.02	212.94	5,652.34	2,133,805.72	2,864,016.16	36.8629843	-107.3515933
12,474.00	91.18	89.91	7,058.00	213.99	5,746.33	2,133,807.23	2,864,110.14	36.8629871	-107.3512720
12,569.00	90.84	89.47	7,056.32	214.51	5,841.31	2,133,808.21	2,864,205.12	36.8629885	-107.3509474
12,664.00	90.61	89.24	7,055.12	215.58	5,936.30	2,133,809.74	2,864,300.10	36.8629914	-107.3506227
12,758.00	90.24	88.99	7,054.42	217.03	6,030.29	2,133,811.64	2,864,394.08	36.8629953	-107.3503014
12,853.00	89.93	89.29	7,054.28	218.45	6,125.27	2,133,813.53	2,864,489.06	36.8629992	-107.3499767
12,947.00	89.66	89.23	7,054.62	219.67	6,219.27	2,133,815.20	2,864,583.04	36.8630024	-107.3496554
13,042.00	89.13	88.97	7,055.62	221.16	6,314.25	2,133,817.15	2,864,678.01	36.8630065	-107.3493307
13,136.00	88.86	89.64	7,057.27	222.30	6,408.23	2,133,818.75	2,864,771.99	36.8630096	-107.3490094
13,231.00	88.35	89.38	7,059.58	223.11	6,503.19	2,133,820.02	2,864,866.95	36.8630117	-107.3486848
13,325.00	88.12	89.77	7,062.48	223.81	6,597.15	2,133,821.17	2,864,960.90	36.8630136	-107.3483636
13,420.00	87.71	89.78	7,065.93	224.18	6,692.08	2,133,822.00	2,865,055.83	36.8630145	-107.3480391
13,514.00	88.69	91.87	7,068.89	222.83	6,786.02	2,133,821.10	2,865,149.77	36.8630108	-107.3477180
13,608.00	88.25	91.54	7,071.40	220.03	6,879.95	2,133,818.76	2,865,243.71	36.8630030	-107.3473969
13,703.00	89.76	92.16	7,073.05	216.97	6,974.88	2,133,816.16	2,865,338.66	36.8629945	-107.3470724
13,798.00	89.83	92.62	7,073.39	213.01	7,069.79	2,133,812.65	2,865,433.59	36.8629836	-107.3467480
13,891.00	89.53	91.95	7,073.90	209.30	7,162.72	2,133,809.40	2,865,526.53	36.8629733	-107.3464303
13,986.00	89.29	92.00	7,074.88	206.02	7,257.66	2,133,806.58	2,865,621.48	36.8629643	-107.3461058
14,080.00	88.96	91.94	7,076.32	202.79	7,351.59	2,133,803.81	2,865,715.43	36.8629553	-107.3457847
14,175.00	88.05	93.05	7,078.80	198.66	7,446.47	2,133,800.13	2,865,810.33	36.8629439	-107.3454604
14,269.00	89.36	91.39	7,080.92	195.02	7,540.37	2,133,796.95	2,865,904.24	36.8629338	-107.3451394
14,364.00	89.66	90.45	7,081.73	193.49	7,635.35	2,133,795.88	2,865,999.23	36.8629296	-107.3448147
14,458.00	88.79	91.30	7,083.01	192.06	7,729.33	2,133,794.90	2,866,093.22	36.8629256	-107.3444935
14,553.00	88.72	90.39	7,085.07	190.66	7,824.29	2,133,793.96	2,866,188.19	36.8629217	-107.3441688
14,648.00	88.15	90.63	7,087.66	189.81	7,919.25	2,133,793.57	2,866,283.15	36.8629193	-107.3438442
14,742.00	88.99	88.98	7,090.01	190.13	8,013.22	2,133,794.35	2,866,377.11	36.8629201	-107.3435230
14,836.00	89.87	90.29	7,090.95	190.73	8,107.21	2,133,795.40	2,866,471.10	36.8629216	-107.3432017
14,931.00	89.33	90.37	7,091.61	190.18	8,202.21	2,133,795.32	2,866,566.10	36.8629201	-107.3428770
15,026.00	90.07	89.48	7,092.11	190.31	8,297.20	2,133,795.90	2,866,661.09	36.8629203	-107.3425523
15,120.00	90.00	87.63	7,092.05	192.68	8,391.17	2,133,798.73	2,866,755.04	36.8629268	-107.3422311
15,215.00	89.83	87.02	7,092.19	197.11	8,486.07	2,133,803.62	2,866,849.92	36.8629389	-107.3419067
15,309.00	89.36	87.28	7,092.85	201.79	8,579.95	2,133,808.75	2,866,943.78	36.8629516	-107.3415858
15,404.00	89.56	89.21	7,093.75	204.70	8,674.89	2,133,812.12	2,867,038.71	36.8629595	-107.3412612
15,498.00	90.84	88.90	7,093.42	206.25	8,768.88	2,133,814.12	2,867,132.68	36.8629637	-107.3409399
15,593.00	90.00	89.34	7,092.72	207.70	8,863.86	2,133,816.04	2,867,227.66	36.8629676	-107.3406152
15,687.00	90.44	90.99	7,092.36	207.43	8,957.86	2,133,816.22	2,867,321.65	36.8629668	-107.3402939
15,782.00	89.76	89.82	7,092.20	206.76	9,052.85	2,133,816.01	2,867,416.65	36.8629649	-107.3399692
15,876.00	91.14	90.82	7,091.46	206.24	9,146.85	2,133,815.94	2,867,510.65	36.8629633	-107.3396479
15,971.00	90.37	91.38	7,090.21	204.41	9,241.82	2,133,814.58	2,867,605.63	36.8629582	-107.3393232
16,066.00	89.70	91.24	7,090.15	202.24	9,336.79	2,133,812.87	2,867,700.61	36.8629522	-107.3389986
16,160.00	90.47	90.54	7,090.01	200.78	9,430.78	2,133,811.86	2,867,794.60	36.8629481	-107.3386773
16,255.00	90.10	90.08	7,089.54	200.27	9,525.78	2,133,811.81	2,867,889.60	36.8629466	-107.3383526
16,350.00	89.26	91.13	7,090.07	199.27	9,620.77	2,133,811.27	2,867,984.60	36.8629438	-107.3380279
16,445.00	90.50	90.86	7,090.27	197.62	9,715.75	2,133,810.08	2,868,079.59	36.8629391	-107.3377032
16,539.00	89.97	90.82	7,089.88	196.24	9,809.74	2,133,809.15	2,868,173.58	36.8629353	-107.3373819
16,634.00	89.09	91.05	7,090.66	194.69	9,904.72	2,133,808.06	2,868,268.57	36.8629309	-107.3370572
16,728.00	90.87	90.34	7,090.69	193.55	9,998.71	2,133,807.38	2,868,362.56	36.8629277	-107.3367359
16,823.00	90.30	90.09	7,089.72	193.19	10,093.71	2,133,807.48	2,868,457.56	36.8629266	-107.3364112
16,917.00	89.63	90.42	7,089.78	192.77	10,187.71	2,133,807.52	2,868,551.56	36.8629254	-107.3360899

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,012.00	89.09	90.58	7,090.84	191.94	10,282.70	2,133,807.15	2,868,646.55	36.8629230	-107.3357652
17,106.00	90.13	90.40	7,091.48	191.14	10,376.69	2,133,806.80	2,868,740.54	36.8629207	-107.3354439
17,201.00	90.94	92.04	7,090.60	189.12	10,471.66	2,133,805.24	2,868,835.52	36.8629150	-107.3351192
17,295.00	90.71	91.89	7,089.24	185.89	10,565.59	2,133,802.47	2,868,929.47	36.8629061	-107.3347981
17,390.00	90.20	91.08	7,088.49	183.43	10,660.56	2,133,800.47	2,869,024.45	36.8628992	-107.3344735
17,484.00	89.90	90.16	7,088.41	182.42	10,754.55	2,133,799.91	2,869,118.44	36.8628963	-107.3341522
17,579.00	89.46	90.54	7,088.94	181.84	10,849.55	2,133,799.78	2,869,213.44	36.8628946	-107.3338275
17,673.00	89.80	92.31	7,089.54	179.50	10,943.51	2,133,797.90	2,869,307.42	36.8628881	-107.3335063
17,768.00	89.66	91.83	7,089.99	176.07	11,038.45	2,133,794.93	2,869,402.37	36.8628786	-107.3331818
17,863.00	90.44	91.83	7,089.91	173.03	11,133.40	2,133,792.36	2,869,497.33	36.8628702	-107.3328572
17,957.00	90.47	90.12	7,089.16	171.43	11,227.38	2,133,791.21	2,869,591.32	36.8628657	-107.3325359
18,052.00	90.13	89.89	7,088.66	171.42	11,322.38	2,133,791.66	2,869,686.32	36.8628655	-107.3322112
18,147.00	89.50	90.14	7,088.97	171.40	11,417.38	2,133,792.10	2,869,781.31	36.8628654	-107.3318865
18,241.00	89.93	88.57	7,089.44	172.46	11,511.37	2,133,793.61	2,869,875.30	36.8628682	-107.3315652
18,304.00	89.60	89.53	7,089.70	173.50	11,574.36	2,133,794.96	2,869,938.28	36.8628710	-107.3313499
18,367.00	89.66	90.24	7,090.10	173.63	11,637.36	2,133,795.39	2,870,001.28	36.8628712	-107.3311345
18,430.00	90.00	89.77	7,090.29	173.62	11,700.35	2,133,795.69	2,870,064.28	36.8628711	-107.3309192
18,493.00	90.77	89.02	7,089.87	174.29	11,763.35	2,133,796.66	2,870,127.27	36.8628729	-107.3307038
18,556.00	91.58	89.12	7,088.58	175.31	11,826.33	2,133,797.99	2,870,190.24	36.8628756	-107.3304885
18,619.00	91.04	90.09	7,087.13	175.75	11,889.31	2,133,798.73	2,870,253.22	36.8628768	-107.3302732
18,714.00	90.30	90.58	7,086.02	175.19	11,984.30	2,133,798.63	2,870,348.21	36.8628751	-107.3299485
18,808.00	90.34	88.78	7,085.50	175.71	12,078.29	2,133,799.61	2,870,442.20	36.8628764	-107.3296272
18,903.00	91.28	88.42	7,084.16	178.04	12,173.25	2,133,802.39	2,870,537.15	36.8628827	-107.3293026
18,997.00	90.71	89.03	7,082.52	180.13	12,267.21	2,133,804.94	2,870,631.10	36.8628883	-107.3289814
19,092.00	90.24	90.72	7,081.74	180.33	12,362.21	2,133,805.61	2,870,726.09	36.8628888	-107.3286567
19,186.00	89.70	90.88	7,081.79	179.02	12,456.20	2,133,804.75	2,870,820.08	36.8628851	-107.3283354
19,281.00	90.94	89.44	7,081.25	178.76	12,551.19	2,133,804.95	2,870,915.08	36.8628842	-107.3280107
19,375.00	90.47	89.06	7,080.10	179.99	12,645.18	2,133,806.63	2,871,009.05	36.8628875	-107.3276894
19,470.00	90.03	89.34	7,079.68	181.31	12,740.17	2,133,808.42	2,871,104.04	36.8628910	-107.3273647
19,565.00	90.54	90.70	7,079.21	181.28	12,835.16	2,133,808.84	2,871,199.03	36.8628908	-107.3270400
19,659.00	91.25	90.48	7,077.74	180.31	12,929.14	2,133,808.33	2,871,293.02	36.8628880	-107.3267187
19,753.00	90.77	90.68	7,076.09	179.36	13,023.13	2,133,807.83	2,871,387.00	36.8628853	-107.3263975
19,848.00	90.61	89.76	7,074.94	179.00	13,118.12	2,133,807.93	2,871,481.99	36.8628842	-107.3260728
19,942.00	90.24	90.00	7,074.24	179.19	13,212.11	2,133,808.58	2,871,575.99	36.8628846	-107.3257514
20,037.00	89.60	91.36	7,074.38	178.07	13,307.10	2,133,807.91	2,871,670.98	36.8628814	-107.3254267
20,131.00	90.30	90.93	7,074.46	176.19	13,401.08	2,133,806.49	2,871,764.97	36.8628761	-107.3251055
20,226.00	90.37	90.15	7,073.90	175.29	13,496.08	2,133,806.06	2,871,859.97	36.8628735	-107.3247808
20,321.00	90.00	90.83	7,073.60	174.48	13,591.07	2,133,805.70	2,871,954.96	36.8628711	-107.3244560
20,415.00	89.26	92.73	7,074.20	171.56	13,685.02	2,133,803.24	2,872,048.93	36.8628630	-107.3241349
20,510.00	90.77	92.36	7,074.18	167.34	13,779.92	2,133,799.48	2,872,143.85	36.8628513	-107.3238105
20,605.00	90.17	94.37	7,073.40	161.77	13,874.75	2,133,794.36	2,872,238.70	36.8628358	-107.3234863
20,647.00	90.02	93.06	7,073.33	159.05	13,916.66	2,133,791.85	2,872,280.62	36.8628283	-107.3233431
RU 744H Actual FPP @ 20647' MD									
20,700.00	89.83	91.40	7,073.40	156.98	13,969.62	2,133,790.04	2,872,333.59	36.8628226	-107.3231621
20,739.00	89.36	92.95	7,073.68	155.50	14,008.59	2,133,788.75	2,872,372.57	36.8628185	-107.3230289
20,807.00	89.36	92.95	7,074.44	152.01	14,076.50	2,133,785.58	2,872,440.49	36.8628088	-107.3227967
BHL @ 20807' MD									

SDT
Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #744H - Slot A3
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Site:	Rosa Unit 31	MD Reference:	GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
Well:	Rosa Unit #744H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 774H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,133,565.42	2,858,364.92	36.8624010	-107.3709150
RU 744H Actual FPP - actual wellpath hits target center - Point	0.00	0.00	7,073.33	159.05	13,916.66	2,133,791.85	2,872,280.62	36.8628283	-107.3233431
RU 744H BHL - actual wellpath hits target center - Point	0.00	0.00	7,074.44	152.01	14,076.50	2,133,785.58	2,872,440.49	36.8628088	-107.3227967
RU 774H PBHL - actual wellpath misses target center by 31.60ft at 20807.00ft MD (7074.43 TVD, 152.01 N, 14076.50 E) - Point	0.00	0.00	7,092.00	178.19	14,078.59	2,133,811.77	2,872,442.45	36.8628807	-107.3227895
RU 744H Actual POE - actual wellpath hits target center - Point	0.00	0.00	7,100.48	236.65	770.01	2,133,805.80	2,859,133.78	36.8630510	-107.3682829

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,496.00	7,100.48	236.65	770.01	RU 744H Actual POE @ 7496' MD	
20,647.00	7,073.33	159.05	13,916.66	RU 744H Actual FPP @ 20647' MD	
20,807.00	7,074.44	152.01	14,076.50	BHL @ 20807' MD	

Checked By: _____

Approved By: _____

Date: _____

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED OMB
No. 1004-0137 Expires:
December 31, 2024**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.**

5. Lease Serial No. NMSF078773

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
LOGOS OPERATING, LLC3a. Address 2010 AFTON PLACE
FARMINGTON, NM 874013b. Phone No. (include area code)
(505) 278-87204. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 33 T31N R05W NENW (C) 349'FNL 1683' FWL

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

8. Well Name and No.
ROSA UNIT 744H9. API Well No.
30-039-3142310. Field and Pool or Exploratory Area
BLANCO MANCOS11. Country or Parish, State
RIO ARRIBA COUNTY, 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 Completions	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

413. 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 recomplete 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 performed 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 determined that the site is ready for final inspection.)

8/4/2023 - MIRU WL. Run CBL (TOC @ 2823'). RDMO

8/11 - 8/12/2023 - MIRU. Open toe sleeves @ 20,595' & 20,643' (48perfs). RU Frac. Frac'd stage 1 w/229,760 lbs Proppant, 100 mesh, 40/70 sand, 7,828bbl slickwater.

8/13/2023 - Set DFP @ 20,580'. PU fire gun. Perf'd 20,565' - 20,397' w/6 SPF, .38" Dia, 60 phasing. Total of 48 perfs. POOH WL. Frac'd stage 2 w/454,768 lbs Proppant, 100mesh, 40/70 sand, 13,626bbls slickwater.

8/14 - 8/23/2023 - Perf intervals @ 20,367' - 15,832' w/6 SPF, .38" Dia, 60 phasing, Total of 1,104 perfs.. Frac'd w/10,425,399 lbs Proppant, 100mesh & 40/70 sand, 269,399bbls slickwater. POOH, left tools in hole. Standby for fishing operations. Tag TOF @ 15,769'. Work fish & recovered, laydown fish.

8/24 - 9/9/2023 - Perf intervals @ 15,802' - 7,496' w/5 and 6 SPF, .38" Dia, 60 phasing, RIH set kill plug @ 7466'. PT to 6500psi. Well secured. Total of 1,720 perfs.. Frac'd w/19,083,746 lbs Proppant, 100mesh & 40/70 sand, 503,210bbls slickwater.

10/4 - 10/7/2023 - MIRU CTU. DO kill plug @ 7,466'. Circulate, CO & DO composite frac plugs. POOH w/2-3/8" CT and drill out BHA. ND frac stack and moved to Rosa Unit 746H.

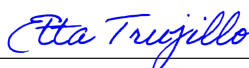
Per the approved operations plan, the 2-7/8", 6.5#, J-55, EUE tubing will be run once volumes and pressures decline and could be close to a year after the well is brought online.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Etta Trujillo

Title Regulatory Specialist

Signature



Date 12/04/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

(Instructions on page 2)

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB
No. 1004-0137 Expires:
December 31, 2024

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.**

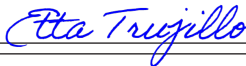
5. Lease Serial No. NMSF078773
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. NMNM78407E
1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		8. Well Name and No. ROSA UNIT 744H
2. Name of Operator LOGOS OPERATING, LLC		9. API Well No. 30-039-31423
3a. Address 2010 AFTON PLACE FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 278-8720	10. Field and Pool or Exploratory Area BASIN MANCOS
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 33 T31N R05W NENW (C) 349' FNL 1683' FWL		11. Country or Parish, State RIO ARRIBA COUNTY, 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
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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.)

First delivery date: 10/16/2023
TP: 0 CP: 2314
Initial MCF: 526 MCF/D

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Etta Trujillo		Title Regulatory Specialist
Signature 		Date 10/30/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
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	

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

(Instructions on page 2)

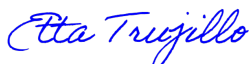
From: blm-afmss-notifications@blm.gov
To: [Etta Trujillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 744H, Notification of Well Completion Acceptance
Date: Tuesday, December 5, 2023 10:48:39 AM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **744H**
- US Well Number: **3003931423**
- Well Completion Report Id: **WCR2023120590365**

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

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																		
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: 744H												
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	33	31N	R05W		349'	FNL	1683'	FWL	RIO ARRIBA								
BH:	A	35	31N	R05W		203'	FNL	65'	FEL	RIO ARRIBA								
13. Date Spudded 4/15/2023	14. Date T.D. Reached 6/06/2023		15. Date Rig Released 6/9/2023		16. Date Completed (Ready to Produce) 10/7/2023			17. Elevations (DF and RKB, RT, GR, etc.) 6492'										
18. Total Measured Depth of Well 20,807' MD / 7,074' TVD			19. Plug Back Measured Depth 20,690' MD / 7,073' 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 (7100' – 7073') TVD																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
21"		94.0#		366' (GL)		26"		764 sks		Circ 26bbls to surface								
13-3/8"		61.0#		3644'		17.5"		2700 sks		Circ 205bbls to surface								
9-5/8"		47.0#		6384'		12.25"		2077 sks		TOC @ 2950" (CBL) DV tool @ 4834'								
5-1/2"		20.0#		20,784'		8.5"		3013 sks		TOC @ 2823' (CBL)								
24. LINER RECORD																		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD												
						SIZE		DEPTH SET		PACKER SET								
						Pending												
26. Perforation record (interval, size, and number) 20,647' MD to 7,496' MD, 0.38" , 6SPF, 2920 total holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>20,647' MD - 7,496' MD</td> <td>Frac'd 67 stages of 30,193,673lb Proppant, 100# mesh & 40/70 sand. 794,063bbls of slickwater.</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	20,647' MD - 7,496' MD	Frac'd 67 stages of 30,193,673lb Proppant, 100# mesh & 40/70 sand. 794,063bbls of slickwater.				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
20,647' MD - 7,496' MD	Frac'd 67 stages of 30,193,673lb Proppant, 100# mesh & 40/70 sand. 794,063bbls of slickwater.																	
28. PRODUCTION																		
Date First Production 10/16/2023		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing												
Date of Test 10/17/2023	Hours Tested 12hrs	Choke Size 14/64	Prod'n For Test Period	Oil - Bbl n/a	Gas - MCF 1,339 mcf	Water - Bbl. 3 bbls	Gas - Oil Ratio n/a											
Flow Tubing Press. n/a	Casing Pressure 2634	Calculated 24-Hour Rate	Oil - Bbl. n/a	Gas - MCF 1,956 mcf	Water - Bbl. 18 bbls	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		Printed		Name		Title		Regulatory Specialist		Date								
		Etta Trujillo		Etta Trujillo		Regulatory Specialist		Date		12/5/2023								
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 2688	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2811	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 3156	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs 3563	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5591	T. Leadville
T. Queen	T. Silurian	T. Menefee 5626	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5827	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6313	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

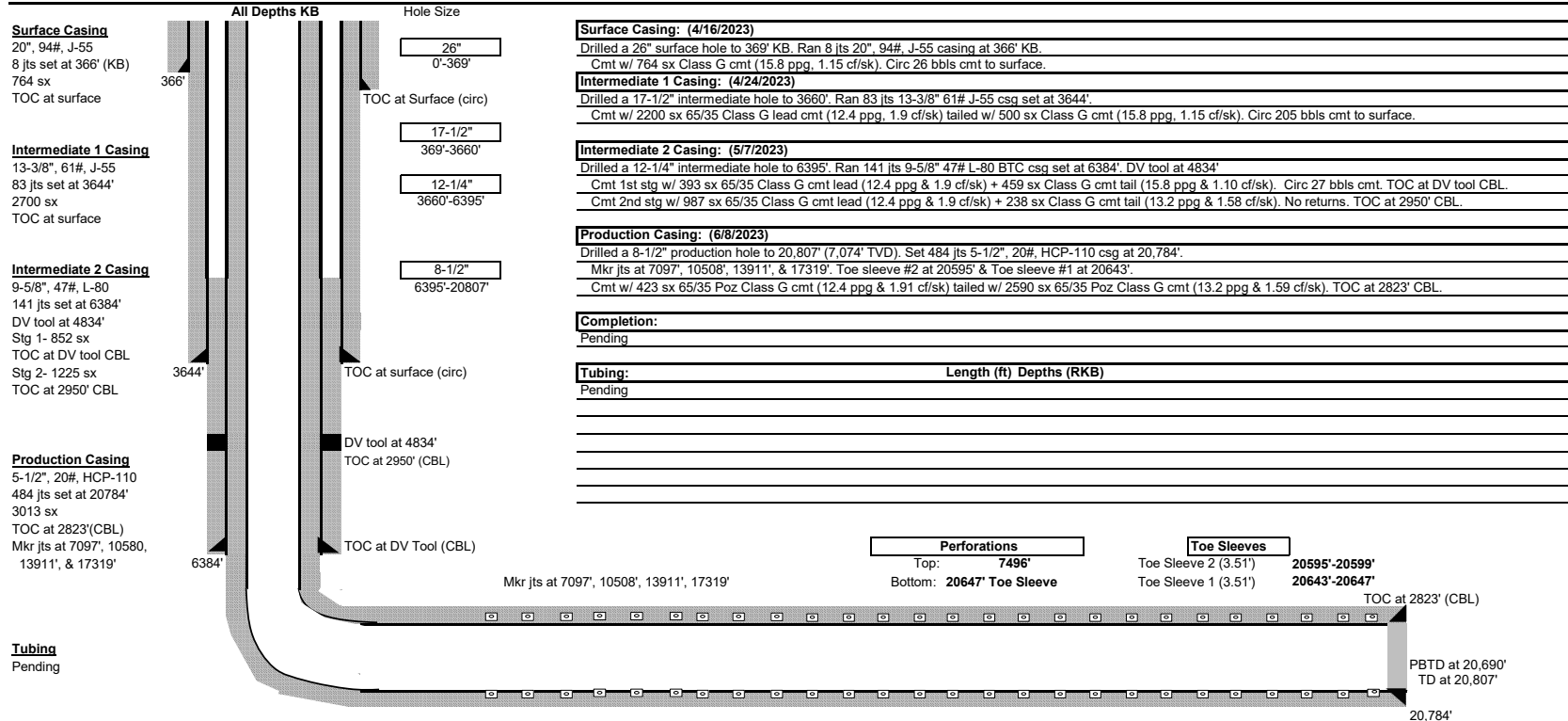


Wellbore Schematic

Well Name: Rosa Unit 744H
 Location: C - Sec 33, T31N, R05W, 349' FNL, 1683' FWL
 County: Rio Arriba, NM
 API #: 30-039-31423
 Co-ordinates: 36.862442, -107.37092 NAD83
 Operator: LOGOS Operating, LLC

Ground Elevation: 6492'
 KB Elevation: 6522'
 TD (TVD): 7074'
 TD (MD): 20,807'
 PBTD (MD): 20,690'

Prepared By: 6/16/2023 Moss
 Reviewed By: 6/20/2023 Peace
 Last Updated: 9/13/2023 Gomez
 Spud Date: 4/15/2023
 Completion Date:
 Last Workover Date:



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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 320235

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 320235
	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.

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 320235

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 320235
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 within 10 days of BLM approval.	3/5/2024