

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 RT - Test Allowable	
⁴ API Number 30 – 039-31412	⁵ Pool Name Basin Mancos		⁶ Pool Code 97232
⁷ Property Code 32608	⁸ Property Name Rosa Unit		⁹ Well Number 650H

II. ¹⁰ Surface Location

UL or lot no. A	Section 25	Township 31N	Range 6W	Lot Idn 1	Feet from the 1084	North/South Line North	Feet from the 258	East/West line East	County Rio Arriba
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¹¹ Bottom Hole Location

UL or lot no. P	Section 22	Township 31N	Range 6W	Lot Idn	Feet from the 366	North/South line South	Feet from the 17	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

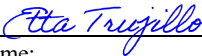
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield, NM 87413	G

IV. Well Completion Data

²¹ Spud Date 4/12/2022	²² Ready Date ~10/17/2023	²³ TD 16,364' MD / 7,240' TVD	²⁴ PBDT 16,238' MD / 7,240' TVD	²⁵ Perforations 7,788' MD / `16,149' MD 7,253' TVD / `7,242' TVD	²⁶ DHC, MC R-13457
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
17.5"		13-3/8", 54.5#, J-55		325'	
12.5"		9-5/8", 47#, L-80		6393'	
8.5"		5.5", 20#, HCP-110		16,331'	
		2-7/8", 6.5#, J-55		pending	

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date ~10/17/2023	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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: 10/19/2023	
Date: 10/17/2023	Phone: (505) 324-4154	RT EXPIRES 1/17/2024	

District I
16100 S. First Street, Artesia, NM 88210
Phone: (505) 333-6161 Fax: (505) 333-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

Submit one copy to
Appropriate District Office

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

☐ AMENDED REPORT

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
Vanessa Fields 10/18/2023

Signature
Vanessa Fields
Date
vfields@logosresourcesllc.com
E-mail Address

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
Date Revised: OCTOBER 18, 2023
Date of Survey: MARCH 15, 2019

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31412		*Pool Code 97232	*Pool Name BASIN MANCOS
*Property Code 320608	*Property Name ROSA UNIT		*Well Number 650H
*GRID No. 289408	*Operator Name LOGOS OPERATING, LLC		*Elevation 6372'

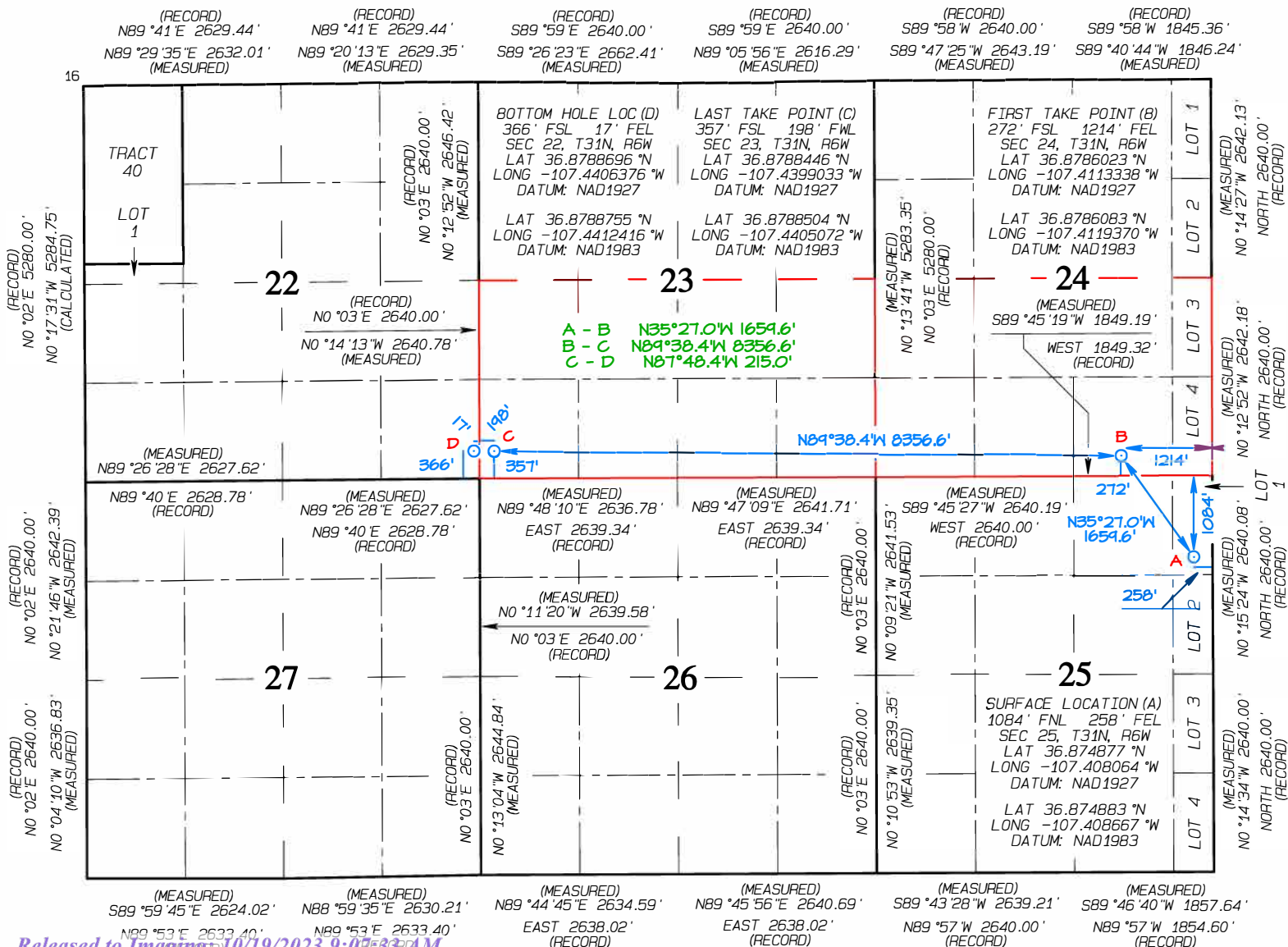
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	25	31N	6W	1	1084	NORTH	258	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

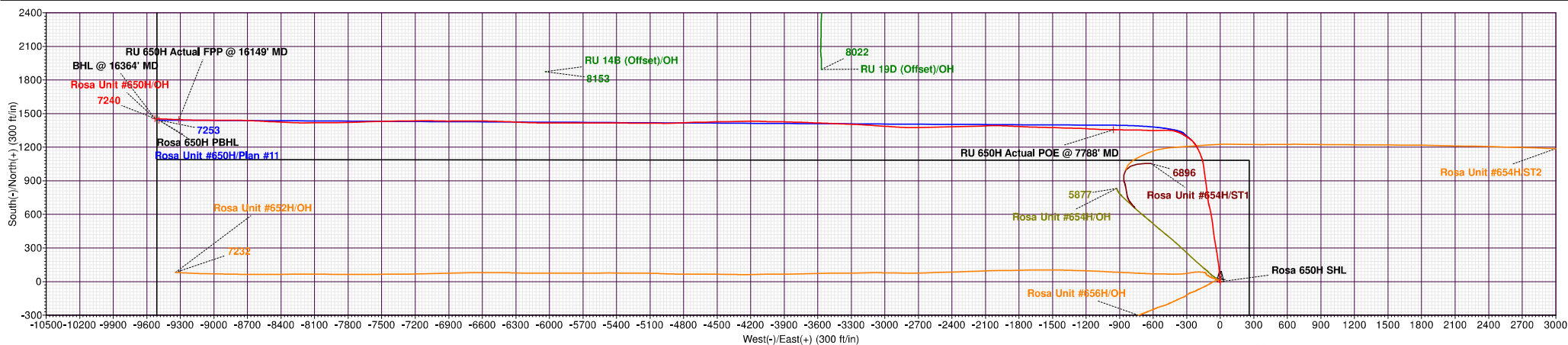
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	31N	6W		366	SOUTH	17	EAST	RIO ARriba
*Dedicated Acres 592.02		S/2 - Section 23, T31N, R6W S/2 - Section 24, T31N, R6W			*Joint or Infill		*Consolidation Code	*Order No. R-13457	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



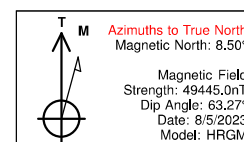
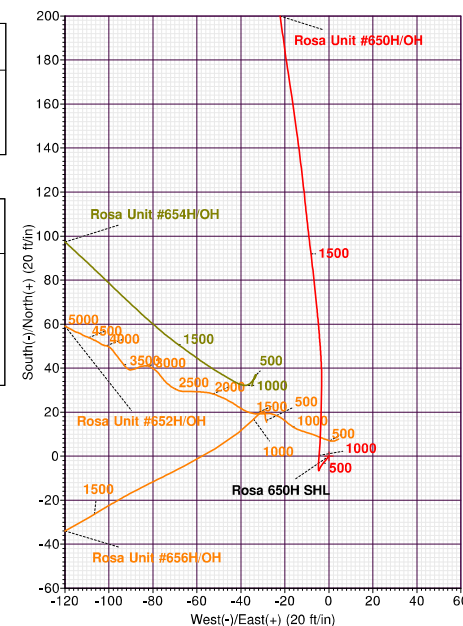


County: Rio Arriba, NM NAD83
 Site: Rosa Unit 29
 Well: Rosa Unit #650H
 Depth Reference: 6372+30 @ 6402.00ft (H&P 530)
 Rig: H&P 530
 Plan: OH
 Job #: 16789

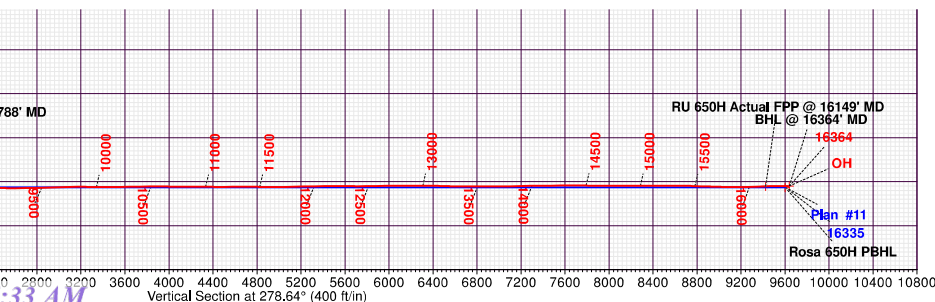
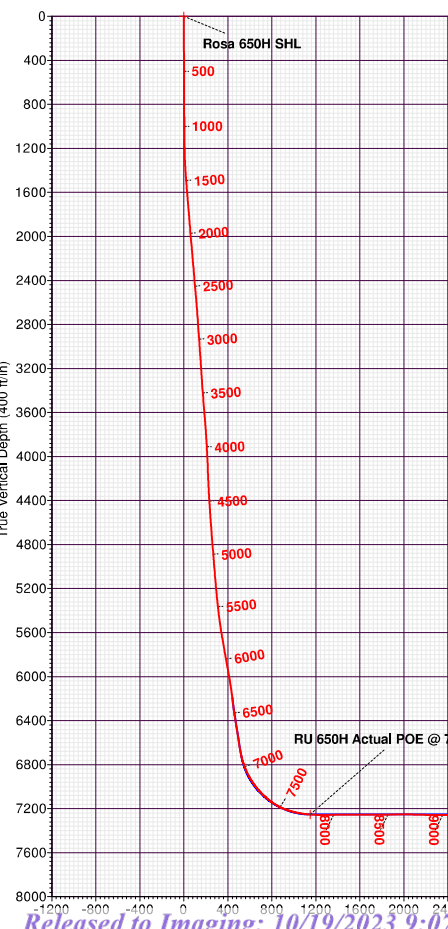


ANNOTATIONS									
MD	Inc	Azi	TVD	+N-S	+E-W	VSect	Departure	Annotation	
7788.00	85.65	271.06	7253.17	1356.17	-956.52	1149.39	2040.20	RU 650H Actual POE @ 7788' MD	
16149.00	91.92	272.58	7242.44	1445.86	-9312.63	9424.15	10400.06	RU 650H Actual FPP @ 16149' MD	
16364.00	90.20	272.24	7239.93	1455.05	-9527.40	9637.87	10615.03	BHL @ 16364' MD	

DESIGN TARGET DETAILS							
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Rosa 650H SHL	0.00	0.00	0.00	2138058.49	2847301.01	36.8748833	-107.4086666
Rosa 650H BHL	7239.93	1455.05	-9527.40	2139471.14	2837767.25	36.8788755	-107.4412416
Rosa 650H Actual FPP	7242.44	1445.86	-9312.63	2139462.91	2837982.06	36.8788504	-107.4405072
Rosa 650H PBHL	7253.00	1442.20	-9492.95	2139458.45	2837801.76	36.8788402	-107.4411238
Rosa 650H Actual POE	7253.17	1356.17	-956.52	2139410.39	2846338.47	36.8786083	-107.4119370



TOTAL CORRECTION: 8.50°



Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 29

Rosa Unit #650H - Slot B10

OH

Design: OH

Standard Survey Report

16 October, 2023

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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 29				
Site Position:		Northing:	2,138,126.53 usft	Latitude:	36.8750715
From:	Map	Easting:	2,847,195.58 usft	Longitude:	-107.4090261
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Rosa Unit #650H - Slot B10					
Well Position	+N/-S	0.00 ft	Northing:	2,138,058.49 usft	Latitude:	36.8748833
	+E/-W	0.00 ft	Easting:	2,847,301.01 usft	Longitude:	-107.4086666
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	6,372.00 ft
Grid Convergence:		0.25 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/5/2023	8.50	63.27	49,445.00838568

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	278.64	

Survey Program	Date	10/16/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
404.50	6,358.50	Survey #1 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
6,428.01	16,298.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
16,364.00	16,364.00	Survey #3 (OH)	A026Ua_BLIND	OWSG BLIND	

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	
404.50	0.71	219.26	404.49	-1.94	-1.59	1.28	0.18	0.18	0.00	
495.50	0.92	221.72	495.48	-2.92	-2.43	1.96	0.23	0.23	2.70	
587.50	1.12	212.15	587.47	-4.23	-3.40	2.72	0.28	0.22	-10.40	
680.50	0.89	203.97	680.45	-5.66	-4.18	3.28	0.29	-0.25	-8.80	
772.50	0.48	213.60	772.44	-6.64	-4.68	3.63	0.46	-0.45	10.47	
871.50	1.24	4.31	871.44	-5.92	-4.83	3.89	1.69	0.77	152.23	
934.50	2.74	1.99	934.40	-3.73	-4.73	4.11	2.38	2.38	-3.68	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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)	
998.50	4.45	5.82	998.27	0.27	-4.42	4.41	2.70	2.67	5.98	
1,060.50	5.88	2.49	1,060.02	5.83	-4.04	4.87	2.36	2.31	-5.37	
1,154.50	7.88	1.46	1,153.34	17.09	-3.66	6.19	2.13	2.13	-1.10	
1,249.50	10.05	1.06	1,247.17	31.89	-3.35	8.10	2.29	2.28	-0.42	
1,344.50	12.62	355.50	1,340.31	50.52	-4.01	11.55	2.94	2.71	-5.85	
1,416.50	14.59	354.50	1,410.29	67.39	-5.49	15.56	2.76	2.74	-1.39	
1,510.50	16.16	353.19	1,500.92	92.17	-8.18	21.93	1.71	1.67	-1.39	
1,605.50	17.52	354.02	1,591.85	119.52	-11.24	29.06	1.45	1.43	0.87	
1,700.50	16.71	352.07	1,682.64	147.27	-14.61	36.57	1.04	-0.85	-2.05	
1,795.50	16.31	351.39	1,773.72	173.98	-18.49	44.42	0.47	-0.42	-0.72	
1,889.50	15.35	352.58	1,864.16	199.37	-22.07	51.78	1.08	-1.02	1.27	
1,985.50	15.73	351.47	1,956.65	224.84	-25.65	59.13	0.50	0.40	-1.16	
2,080.50	15.84	350.68	2,048.06	250.37	-29.66	66.93	0.25	0.12	-0.83	
2,175.50	14.93	350.18	2,139.66	275.22	-33.84	74.80	0.97	-0.96	-0.53	
2,268.50	15.55	349.46	2,229.39	299.28	-38.17	82.69	0.70	0.67	-0.77	
2,364.50	14.50	350.99	2,322.10	323.81	-42.40	90.57	1.17	-1.09	1.59	
2,458.50	15.09	351.20	2,412.99	347.52	-46.12	97.80	0.63	0.63	0.22	
2,553.50	16.30	350.29	2,504.44	372.88	-50.26	105.70	1.30	1.27	-0.96	
2,648.50	16.04	350.85	2,595.69	398.98	-54.59	113.91	0.32	-0.27	0.59	
2,743.50	15.58	352.43	2,687.09	424.59	-58.36	121.48	0.66	-0.48	1.66	
2,838.50	15.11	353.85	2,778.71	449.54	-61.37	128.20	0.63	-0.49	1.49	
2,933.50	15.30	353.87	2,870.38	474.32	-64.03	134.56	0.20	0.20	0.02	
3,028.50	14.82	353.70	2,962.12	498.85	-66.70	140.89	0.51	-0.51	-0.18	
3,123.50	13.99	351.98	3,054.13	522.30	-69.64	147.31	0.98	-0.87	-1.81	
3,218.50	12.77	351.49	3,146.55	544.06	-72.80	153.70	1.29	-1.28	-0.52	
3,314.50	11.91	350.52	3,240.33	564.32	-76.00	159.91	0.92	-0.90	-1.01	
3,409.50	12.58	349.66	3,333.17	584.17	-79.47	166.32	0.73	0.71	-0.91	
3,504.50	12.48	350.12	3,425.91	604.46	-83.09	172.95	0.15	-0.11	0.48	
3,600.50	12.77	348.62	3,519.59	625.08	-86.96	179.88	0.46	0.30	-1.56	
3,696.50	12.43	346.70	3,613.27	645.54	-91.43	187.37	0.56	-0.35	-2.00	
3,790.50	11.49	345.13	3,705.23	664.43	-96.16	194.88	1.06	-1.00	-1.67	
3,883.50	10.14	345.67	3,796.58	681.31	-100.56	201.77	1.46	-1.45	0.58	
3,979.50	8.89	346.74	3,891.26	696.72	-104.36	207.84	1.32	-1.30	1.11	
4,074.50	8.17	350.38	3,985.21	710.52	-107.17	212.69	0.95	-0.76	3.83	
4,171.50	8.40	353.92	4,081.19	724.36	-109.07	216.65	0.58	0.24	3.65	
4,265.50	9.04	354.87	4,174.11	738.55	-110.46	220.15	0.70	0.68	1.01	
4,360.50	10.11	352.81	4,267.78	754.25	-112.17	224.21	1.18	1.13	-2.17	
4,456.50	12.03	352.45	4,361.99	772.53	-114.54	229.29	2.00	2.00	-0.38	
4,552.50	13.72	352.25	4,455.57	793.73	-117.39	235.30	1.76	1.76	-0.21	
4,649.50	14.47	352.97	4,549.65	817.16	-120.42	241.82	0.79	0.77	0.74	
4,744.50	15.28	353.39	4,641.47	841.37	-123.32	248.31	0.86	0.85	0.44	
4,838.50	15.13	352.20	4,732.18	865.83	-126.41	255.04	0.37	-0.16	-1.27	
4,933.50	14.74	351.25	4,823.97	890.06	-129.93	262.16	0.48	-0.41	-1.00	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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)	
5,027.50	15.05	351.36	4,914.81	913.94	-133.58	269.36	0.33	0.33	0.12	
5,124.50	16.30	352.13	5,008.20	939.88	-137.34	276.97	1.31	1.29	0.79	
5,219.50	16.90	352.74	5,099.24	966.78	-140.91	284.55	0.66	0.63	0.64	
5,313.50	18.28	353.13	5,188.84	994.98	-144.40	292.23	1.47	1.47	0.41	
5,408.50	19.02	351.87	5,278.86	1,025.09	-148.37	300.68	0.89	0.78	-1.33	
5,471.50	18.54	349.99	5,338.50	1,045.12	-151.56	306.85	1.23	-0.76	-2.98	
5,503.50	18.17	348.57	5,368.87	1,055.02	-153.44	310.19	1.81	-1.16	-4.44	
5,567.50	17.99	345.79	5,429.72	1,074.38	-157.84	317.45	1.38	-0.28	-4.34	
5,631.50	17.95	343.35	5,490.59	1,093.41	-163.09	325.50	1.18	-0.06	-3.81	
5,695.50	17.68	341.14	5,551.53	1,112.06	-169.06	334.20	1.14	-0.42	-3.45	
5,758.50	17.84	338.78	5,611.52	1,130.11	-175.64	343.42	1.17	0.25	-3.75	
5,820.50	17.67	336.58	5,670.57	1,147.59	-182.82	353.15	1.12	-0.27	-3.55	
5,884.50	17.43	334.70	5,731.59	1,165.17	-190.78	363.65	0.96	-0.38	-2.94	
5,948.50	17.14	333.41	5,792.70	1,182.27	-199.10	374.44	0.75	-0.45	-2.02	
6,011.50	16.47	330.38	5,853.01	1,198.34	-207.67	385.33	1.75	-1.06	-4.81	
6,075.50	15.27	327.52	5,914.57	1,213.33	-216.68	396.49	2.24	-1.88	-4.47	
6,137.50	14.28	324.69	5,974.52	1,226.46	-225.48	407.17	1.98	-1.60	-4.56	
6,200.50	12.94	321.95	6,035.75	1,238.36	-234.32	417.69	2.36	-2.13	-4.35	
6,263.50	11.18	318.49	6,097.36	1,248.49	-242.72	427.52	3.02	-2.79	-5.49	
6,358.50	8.78	311.71	6,190.92	1,260.21	-254.23	440.67	2.81	-2.53	-7.14	
6,428.00	7.37	307.41	6,259.73	1,266.45	-261.74	449.02	2.21	-2.03	-6.19	
6,523.00	9.77	304.55	6,353.66	1,274.72	-273.22	461.61	2.57	2.53	-3.01	
6,617.00	10.82	306.26	6,446.15	1,284.46	-286.90	476.60	1.16	1.12	1.82	
6,712.00	8.92	298.73	6,539.74	1,293.28	-300.55	491.42	2.41	-2.00	-7.93	
6,806.00	10.21	305.05	6,632.44	1,301.57	-313.76	505.73	1.77	1.37	6.72	
6,901.00	13.78	301.19	6,725.35	1,312.27	-330.34	523.73	3.85	3.76	-4.06	
6,996.00	21.97	295.32	6,815.69	1,325.75	-356.13	551.25	8.82	8.62	-6.18	
7,090.00	28.29	288.26	6,900.77	1,340.27	-393.22	590.10	7.43	6.72	-7.51	
7,185.00	35.60	275.21	6,981.43	1,349.86	-442.26	640.02	10.55	7.69	-13.74	
7,279.00	44.56	268.03	7,053.32	1,351.21	-502.62	699.90	10.71	9.53	-7.64	
7,374.00	50.67	268.50	7,117.33	1,349.10	-572.73	768.90	6.44	6.43	0.49	
7,468.00	60.29	273.24	7,170.55	1,350.46	-650.04	845.53	11.04	10.23	5.04	
7,563.00	71.11	271.04	7,209.59	1,353.62	-736.43	931.42	11.58	11.39	-2.32	
7,657.00	77.84	270.11	7,234.74	1,354.51	-826.94	1,021.04	7.22	7.16	-0.99	
7,751.00	83.77	271.08	7,249.75	1,355.48	-919.68	1,112.87	6.39	6.31	1.03	
7,788.00	85.65	271.06	7,253.17	1,356.17	-956.52	1,149.39	5.07	5.07	-0.05	
RU 650H Actual POE @ 7788' MD										
7,846.00	88.59	271.03	7,256.08	1,357.23	-1,014.43	1,206.81	5.07	5.07	-0.05	
7,940.00	90.50	273.02	7,256.83	1,360.55	-1,108.36	1,300.17	2.93	2.03	2.12	
8,034.00	90.60	273.43	7,255.92	1,365.84	-1,202.20	1,393.74	0.45	0.11	0.44	
8,129.00	90.44	271.22	7,255.06	1,369.69	-1,297.12	1,488.16	2.33	-0.17	-2.33	
8,223.00	90.27	271.76	7,254.48	1,372.13	-1,391.08	1,581.43	0.60	-0.18	0.57	
8,317.00	90.13	271.71	7,254.15	1,374.98	-1,485.04	1,674.74	0.16	-0.15	-0.05	
8,412.00	90.24	271.29	7,253.85	1,377.47	-1,580.01	1,769.01	0.46	0.12	-0.44	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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)
8,506.00	90.34	271.80	7,253.37	1,380.00	-1,673.97	1,862.28	0.55	0.11	0.54
8,600.00	90.13	272.54	7,252.98	1,383.56	-1,767.90	1,955.68	0.82	-0.22	0.79
8,694.00	89.90	272.96	7,252.96	1,388.07	-1,861.79	2,049.19	0.51	-0.24	0.45
8,789.00	88.25	271.70	7,254.49	1,391.93	-1,956.70	2,143.59	2.19	-1.74	-1.33
8,883.00	88.65	268.56	7,257.04	1,392.15	-2,050.65	2,236.51	3.37	0.43	-3.34
8,978.00	90.34	268.16	7,257.87	1,389.43	-2,145.60	2,329.98	1.83	1.78	-0.42
9,072.00	89.87	268.97	7,257.70	1,387.07	-2,239.57	2,422.53	1.00	-0.50	0.86
9,167.00	88.89	267.63	7,258.73	1,384.25	-2,334.52	2,515.98	1.75	-1.03	-1.41
9,262.00	90.74	269.72	7,259.04	1,382.06	-2,429.49	2,609.54	2.94	1.95	2.20
9,356.00	89.97	268.88	7,258.45	1,380.91	-2,523.48	2,702.29	1.21	-0.82	-0.89
9,450.00	91.55	267.75	7,257.21	1,378.15	-2,617.42	2,794.75	2.07	1.68	-1.20
9,544.00	91.65	269.63	7,254.58	1,376.00	-2,711.36	2,887.30	2.00	0.11	2.00
9,639.00	92.49	271.00	7,251.15	1,376.52	-2,806.29	2,981.23	1.69	0.88	1.44
9,734.00	91.95	274.13	7,247.47	1,380.77	-2,901.11	3,075.62	3.34	-0.57	3.29
9,829.00	89.50	273.69	7,246.27	1,387.25	-2,995.88	3,170.28	2.62	-2.58	-0.46
9,923.00	89.19	273.62	7,247.34	1,393.24	-3,089.68	3,263.92	0.34	-0.33	-0.07
10,018.00	89.06	273.96	7,248.79	1,399.52	-3,184.46	3,358.56	0.38	-0.14	0.36
10,113.00	89.97	272.27	7,249.60	1,404.68	-3,279.31	3,453.12	2.02	0.96	-1.78
10,207.00	91.14	271.53	7,248.69	1,407.79	-3,373.25	3,546.46	1.47	1.24	-0.79
10,302.00	91.44	272.98	7,246.55	1,411.53	-3,468.15	3,640.84	1.56	0.32	1.53
10,397.00	90.97	271.81	7,244.55	1,415.50	-3,563.05	3,735.26	1.33	-0.49	-1.23
10,491.00	91.35	272.47	7,242.65	1,419.01	-3,656.96	3,828.63	0.81	0.40	0.70
10,586.00	88.75	271.50	7,242.56	1,422.30	-3,751.90	3,922.98	2.92	-2.74	-1.02
10,680.00	89.06	272.04	7,244.36	1,425.20	-3,845.83	4,016.29	0.66	0.33	0.57
10,775.00	89.83	270.72	7,245.28	1,427.49	-3,940.80	4,110.52	1.61	0.81	-1.39
10,869.00	89.70	270.87	7,245.67	1,428.79	-4,034.79	4,203.64	0.21	-0.14	0.16
10,964.00	89.93	272.65	7,245.97	1,431.71	-4,129.74	4,297.95	1.89	0.24	1.87
11,058.00	88.92	268.18	7,246.92	1,432.39	-4,223.71	4,390.96	4.87	-1.07	-4.76
11,153.00	90.30	268.97	7,247.56	1,430.03	-4,318.67	4,484.49	1.67	1.45	0.83
11,247.00	90.30	269.39	7,247.07	1,428.69	-4,412.66	4,577.21	0.45	0.00	0.45
11,342.00	90.07	268.11	7,246.76	1,426.61	-4,507.64	4,670.80	1.37	-0.24	-1.35
11,436.00	89.87	269.23	7,246.81	1,424.43	-4,601.61	4,763.37	1.21	-0.21	1.19
11,531.00	88.96	269.05	7,247.78	1,423.01	-4,696.59	4,857.07	0.98	-0.96	-0.19
11,625.00	89.90	267.41	7,248.72	1,420.10	-4,790.54	4,949.51	2.01	1.00	-1.74
11,720.00	91.58	267.12	7,247.49	1,415.57	-4,885.42	5,042.63	1.79	1.77	-0.31
11,814.00	91.98	270.35	7,244.57	1,413.50	-4,979.34	5,135.17	3.46	0.43	3.44
11,908.00	90.94	270.67	7,242.18	1,414.33	-5,073.30	5,228.20	1.16	-1.11	0.34
12,003.00	90.20	270.28	7,241.23	1,415.12	-5,168.29	5,322.23	0.88	-0.78	-0.41
12,098.00	90.34	270.23	7,240.78	1,415.54	-5,263.29	5,416.21	0.16	0.15	-0.05
12,192.00	90.13	270.55	7,240.40	1,416.18	-5,357.29	5,509.24	0.41	-0.22	0.34
12,287.00	89.76	269.80	7,240.49	1,416.47	-5,452.29	5,603.20	0.88	-0.39	-0.79
12,381.00	89.36	270.69	7,241.21	1,416.87	-5,546.28	5,696.19	1.04	-0.43	0.95
12,476.00	90.94	269.85	7,240.96	1,417.32	-5,641.28	5,790.18	1.88	1.66	-0.88

SDT Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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)
12,570.00	90.77	269.99	7,239.56	1,417.19	-5,735.27	5,883.08	0.23	-0.18	0.15
12,665.00	90.84	270.71	7,238.22	1,417.77	-5,830.25	5,977.08	0.76	0.07	0.76
12,759.00	90.81	269.06	7,236.87	1,417.58	-5,924.24	6,069.97	1.76	-0.03	-1.76
12,854.00	89.63	270.33	7,236.51	1,417.08	-6,019.24	6,163.81	1.82	-1.24	1.34
12,948.00	90.03	270.91	7,236.79	1,418.09	-6,113.23	6,256.89	0.75	0.43	0.62
13,043.00	89.63	272.00	7,237.07	1,420.51	-6,208.20	6,351.14	1.22	-0.42	1.15
13,138.00	88.69	272.68	7,238.46	1,424.38	-6,303.11	6,445.55	1.22	-0.99	0.72
13,232.00	88.42	272.47	7,240.83	1,428.61	-6,396.98	6,539.00	0.36	-0.29	-0.22
13,326.00	89.56	271.05	7,242.49	1,431.49	-6,490.92	6,632.30	1.94	1.21	-1.51
13,421.00	89.43	272.01	7,243.32	1,434.03	-6,585.88	6,726.57	1.02	-0.14	1.01
13,515.00	90.34	269.27	7,243.51	1,435.08	-6,679.86	6,819.64	3.07	0.97	-2.91
13,610.00	90.13	269.95	7,243.12	1,434.43	-6,774.86	6,913.46	0.75	-0.22	0.72
13,705.00	90.07	268.82	7,242.96	1,433.41	-6,869.85	7,007.23	1.19	-0.06	-1.19
13,799.00	91.38	271.66	7,241.77	1,433.81	-6,963.83	7,100.20	3.33	1.39	3.02
13,894.00	91.65	270.88	7,239.26	1,435.91	-7,058.77	7,194.38	0.87	0.28	-0.82
13,988.00	90.44	269.28	7,237.54	1,436.04	-7,152.75	7,287.31	2.13	-1.29	-1.70
14,083.00	90.71	269.09	7,236.59	1,434.69	-7,247.74	7,381.02	0.35	0.28	-0.20
14,177.00	90.67	269.38	7,235.46	1,433.43	-7,341.72	7,473.75	0.31	-0.04	0.31
14,272.00	90.30	268.71	7,234.65	1,431.85	-7,436.71	7,567.41	0.81	-0.39	-0.71
14,367.00	90.17	268.89	7,234.26	1,429.86	-7,531.69	7,661.02	0.23	-0.14	0.19
14,461.00	89.33	267.70	7,234.67	1,427.07	-7,625.64	7,753.48	1.55	-0.89	-1.27
14,556.00	89.46	267.30	7,235.68	1,422.92	-7,720.54	7,846.69	0.44	0.14	-0.42
14,650.00	90.34	269.71	7,235.84	1,420.47	-7,814.50	7,939.21	2.73	0.94	2.56
14,745.00	90.10	268.81	7,235.48	1,419.24	-7,909.49	8,032.94	0.98	-0.25	-0.95
14,839.00	89.56	269.86	7,235.75	1,418.15	-8,003.49	8,125.70	1.26	-0.57	1.12
14,933.00	89.09	270.12	7,236.86	1,418.14	-8,097.48	8,218.63	0.57	-0.50	0.28
15,028.00	89.80	269.56	7,237.78	1,417.87	-8,192.47	8,312.50	0.95	0.75	-0.59
15,122.00	90.00	272.39	7,237.95	1,419.47	-8,286.45	8,405.65	3.02	0.21	3.01
15,217.00	90.17	272.29	7,237.81	1,423.35	-8,381.37	8,500.08	0.21	0.18	-0.11
15,311.00	90.40	272.69	7,237.34	1,427.43	-8,475.28	8,593.54	0.49	0.24	0.43
15,374.00	89.73	272.89	7,237.27	1,430.50	-8,538.21	8,656.21	1.11	-1.06	0.32
15,469.00	88.35	272.72	7,238.86	1,435.15	-8,633.08	8,750.70	1.46	-1.45	-0.18
15,563.00	88.42	272.18	7,241.51	1,439.16	-8,726.95	8,844.12	0.58	0.07	-0.57
15,595.00	88.22	272.06	7,242.45	1,440.35	-8,758.92	8,875.90	0.73	-0.63	-0.38
15,689.00	87.91	269.79	7,245.62	1,441.86	-8,852.84	8,968.99	2.44	-0.33	-2.41
15,783.00	89.02	269.95	7,248.14	1,441.65	-8,946.81	9,061.85	1.19	1.18	0.17
15,878.00	89.87	269.37	7,249.06	1,441.09	-9,041.80	9,155.68	1.08	0.89	-0.61
15,972.00	91.41	270.64	7,248.01	1,441.09	-9,135.79	9,248.61	2.12	1.64	1.35
16,067.00	91.88	271.41	7,245.28	1,442.79	-9,230.74	9,342.73	0.95	0.49	0.81
16,130.00	92.08	272.61	7,243.10	1,445.00	-9,293.66	9,405.27	1.93	0.32	1.90
16,149.00	91.92	272.58	7,242.44	1,445.86	-9,312.63	9,424.15	0.86	-0.84	-0.17
RU 650H Actual FPP @ 16149' MD									
16,193.00	91.55	272.50	7,241.11	1,447.81	-9,356.56	9,467.88	0.86	-0.84	-0.17
16,256.00	90.03	272.69	7,240.24	1,450.66	-9,419.49	9,530.52	2.43	-2.41	0.30

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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)
16,298.00	90.20	272.24	7,240.16	1,452.47	-9,461.45	9,572.28	1.15	0.40	-1.07
16,364.00	90.20	272.24	7,239.93	1,455.05	-9,527.40	9,637.87	0.00	0.00	0.00
BHL @ 16364' MD									

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
Rosa 650H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,138,058.49	2,847,301.01	36.8748833	-107.4086666
Rosa 650H BHL - actual wellpath hits target center - Point	0.00	0.00	7,239.93	1,455.05	-9,527.40	2,139,471.14	2,837,767.25	36.8788755	-107.4412416
Rosa 650H Actual FPP - actual wellpath hits target center - Point	0.00	0.00	7,242.44	1,445.86	-9,312.63	2,139,462.91	2,837,982.06	36.8788504	-107.4405073
Rosa 650H PBHL - actual wellpath misses target center by 35.53ft at 16298.00ft MD (7240.16 TVD, 1452.47 N, -9461.45 E) - Point	0.00	0.00	7,253.00	1,442.20	-9,492.95	2,139,458.45	2,837,801.76	36.8788402	-107.4411238
Rosa 650H Actual POE - actual wellpath hits target center - Point	0.00	0.00	7,253.17	1,356.17	-956.52	2,139,410.39	2,846,338.47	36.8786083	-107.4119370

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,788.00	7,253.17	1,356.17	-956.52	RU 650H Actual POE @ 7788' MD
16,149.00	7,242.44	1,445.86	-9,312.63	RU 650H Actual FPP @ 16149' MD
16,364.00	7,239.93	1,455.05	-9,527.40	BHL @ 16364' MD

Checked By: _____

Approved By: _____

Date: _____

Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 29

Rosa Unit #650H - Slot B10

OH

Design: OH

Survey Report - Geographic

16 October, 2023

SDT
Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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 29			
Site Position:		Northing:	2,138,126.53 usft	Latitude: 36.8750715
From:	Map	Easting:	2,847,195.58 usft	Longitude: -107.4090261
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.25 °

Well	Rosa Unit #650H - Slot B10			
Well Position	+N/-S	0.00 ft	Northing:	2,138,058.49 usft
	+E/-W	0.00 ft	Easting:	2,847,301.01 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 6,372.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/5/2023	8.50	63.27	49,445.00838568

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	278.64

Survey Program	Date	10/16/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
404.50	6,358.50	Survey #1 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction
6,428.01	16,298.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction
16,364.00	16,364.00	Survey #3 (OH)	A026Ua_BLIND	OWSG BLIND

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	2,138,058.49	2,847,301.01	36.8748833	-107.4086666
404.50	0.71	219.26	404.49	-1.94	-1.59	2,138,056.54	2,847,299.44	36.8748780	-107.4086721
495.50	0.92	221.72	495.48	-2.92	-2.43	2,138,055.55	2,847,298.60	36.8748753	-107.4086750
587.50	1.12	212.15	587.47	-4.23	-3.40	2,138,054.24	2,847,297.63	36.8748717	-107.4086783
680.50	0.89	203.97	680.45	-5.66	-4.18	2,138,052.80	2,847,296.86	36.8748677	-107.4086809
772.50	0.48	213.60	772.44	-6.64	-4.68	2,138,051.83	2,847,296.36	36.8748650	-107.4086826
871.50	1.24	4.31	871.44	-5.92	-4.83	2,138,052.55	2,847,296.21	36.8748670	-107.4086832
934.50	2.74	1.99	934.40	-3.73	-4.73	2,138,054.74	2,847,296.30	36.8748730	-107.4086828
998.50	4.45	5.82	998.27	0.27	-4.42	2,138,058.74	2,847,296.59	36.8748840	-107.4086818
1,060.50	5.88	2.49	1,060.02	5.83	-4.04	2,138,064.30	2,847,296.95	36.8748993	-107.4086805

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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	
1,154.50	7.88	1.46	1,153.34	17.09	-3.66	2,138,075.56	2,847,297.27	36.8749302	-107.4086792	
1,249.50	10.05	1.06	1,247.17	31.89	-3.35	2,138,090.36	2,847,297.53	36.8749709	-107.4086781	
1,344.50	12.62	355.50	1,340.31	50.52	-4.01	2,138,108.99	2,847,296.78	36.8750221	-107.4086803	
1,416.50	14.59	354.50	1,410.29	67.39	-5.49	2,138,125.86	2,847,295.22	36.8750684	-107.4086854	
1,510.50	16.16	353.19	1,500.92	92.17	-8.18	2,138,150.62	2,847,292.42	36.8751364	-107.4086946	
1,605.50	17.52	354.02	1,591.85	119.52	-11.24	2,138,177.96	2,847,289.24	36.8752116	-107.4087051	
1,700.50	16.71	352.07	1,682.64	147.27	-14.61	2,138,205.69	2,847,285.75	36.8752878	-107.4087166	
1,795.50	16.31	351.39	1,773.72	173.98	-18.49	2,138,232.39	2,847,281.75	36.8753612	-107.4087299	
1,889.50	15.35	352.58	1,864.16	199.37	-22.07	2,138,257.76	2,847,278.05	36.8754309	-107.4087421	
1,985.50	15.73	351.47	1,956.65	224.84	-25.65	2,138,283.21	2,847,274.37	36.8755009	-107.4087543	
2,080.50	15.84	350.68	2,048.06	250.37	-29.66	2,138,308.72	2,847,270.24	36.8755710	-107.4087680	
2,175.50	14.93	350.18	2,139.66	275.22	-33.84	2,138,333.56	2,847,265.95	36.8756393	-107.4087824	
2,268.50	15.55	349.46	2,229.39	299.28	-38.17	2,138,357.60	2,847,261.52	36.8757053	-107.4087971	
2,364.50	14.50	350.99	2,322.10	323.81	-42.40	2,138,382.10	2,847,257.17	36.8757727	-107.4088116	
2,458.50	15.09	351.20	2,412.99	347.52	-46.12	2,138,405.80	2,847,253.35	36.8758378	-107.4088243	
2,553.50	16.30	350.29	2,504.44	372.88	-50.26	2,138,431.14	2,847,249.10	36.8759075	-107.4088385	
2,648.50	16.04	350.85	2,595.69	398.98	-54.59	2,138,457.22	2,847,244.65	36.8759792	-107.4088533	
2,743.50	15.58	352.43	2,687.09	424.59	-58.36	2,138,482.81	2,847,240.76	36.8760495	-107.4088662	
2,838.50	15.11	353.85	2,778.71	449.54	-61.37	2,138,507.75	2,847,237.65	36.8761181	-107.4088765	
2,933.50	15.30	353.87	2,870.38	474.32	-64.03	2,138,532.51	2,847,234.87	36.8761861	-107.4088856	
3,028.50	14.82	353.70	2,962.12	498.85	-66.70	2,138,557.04	2,847,232.09	36.8762535	-107.4088947	
3,123.50	13.99	351.98	3,054.13	522.30	-69.64	2,138,580.47	2,847,229.05	36.8763179	-107.4089047	
3,218.50	12.77	351.49	3,146.55	544.06	-72.80	2,138,602.22	2,847,225.80	36.8763777	-107.4089155	
3,314.50	11.91	350.52	3,240.33	564.32	-76.00	2,138,622.47	2,847,222.51	36.8764333	-107.4089265	
3,409.50	12.58	349.66	3,333.17	584.17	-79.47	2,138,642.30	2,847,218.95	36.8764878	-107.4089384	
3,504.50	12.48	350.12	3,425.91	604.46	-83.09	2,138,662.57	2,847,215.24	36.8765436	-107.4089507	
3,600.50	12.77	348.62	3,519.59	625.08	-86.96	2,138,683.17	2,847,211.27	36.8766002	-107.4089640	
3,696.50	12.43	346.70	3,613.27	645.54	-91.43	2,138,703.61	2,847,206.71	36.8766564	-107.4089793	
3,790.50	11.49	345.13	3,705.23	664.43	-96.16	2,138,722.48	2,847,201.90	36.8767083	-107.4089954	
3,883.50	10.14	345.67	3,796.58	681.31	-100.56	2,138,739.35	2,847,197.42	36.8767547	-107.4090105	
3,979.50	8.89	346.74	3,891.26	696.72	-104.36	2,138,754.74	2,847,193.56	36.8767970	-107.4090234	
4,074.50	8.17	350.38	3,985.21	710.52	-107.17	2,138,768.53	2,847,190.68	36.8768349	-107.4090331	
4,171.50	8.40	353.92	4,081.19	724.36	-109.07	2,138,782.36	2,847,188.72	36.8768729	-107.4090396	
4,265.50	9.04	354.87	4,174.11	738.55	-110.46	2,138,796.53	2,847,187.27	36.8769119	-107.4090443	
4,360.50	10.11	352.81	4,267.78	754.25	-112.17	2,138,812.23	2,847,185.49	36.8769550	-107.4090502	
4,456.50	12.03	352.45	4,361.99	772.53	-114.54	2,138,830.50	2,847,183.04	36.8770052	-107.4090583	
4,552.50	13.72	352.25	4,455.57	793.73	-117.39	2,138,851.69	2,847,180.09	36.8770635	-107.4090680	
4,649.50	14.47	352.97	4,549.65	817.16	-120.42	2,138,875.10	2,847,176.96	36.8771278	-107.4090784	
4,744.50	15.28	353.39	4,641.47	841.37	-123.32	2,138,899.30	2,847,173.95	36.8771943	-107.4090883	
4,838.50	15.13	352.20	4,732.18	865.83	-126.41	2,138,923.75	2,847,170.75	36.8772615	-107.4090988	
4,933.50	14.74	351.25	4,823.97	890.06	-129.93	2,138,947.96	2,847,167.13	36.8773280	-107.4091109	
5,027.50	15.05	351.36	4,914.81	913.94	-133.58	2,138,971.83	2,847,163.37	36.8773936	-107.4091234	
5,124.50	16.30	352.13	5,008.20	939.88	-137.34	2,138,997.75	2,847,159.50	36.8774649	-107.4091362	
5,219.50	16.90	352.74	5,099.24	966.78	-140.91	2,139,024.63	2,847,155.81	36.8775388	-107.4091484	
5,313.50	18.28	353.13	5,188.84	994.98	-144.40	2,139,052.81	2,847,152.19	36.8776162	-107.4091604	
5,408.50	19.02	351.87	5,278.86	1,025.09	-148.37	2,139,082.91	2,847,148.08	36.8776989	-107.4091739	
5,471.50	18.54	349.99	5,338.50	1,045.12	-151.56	2,139,102.92	2,847,144.80	36.8777539	-107.4091848	
5,503.50	18.17	348.57	5,368.87	1,055.02	-153.44	2,139,112.81	2,847,142.89	36.8777811	-107.4091913	
5,567.50	17.99	345.79	5,429.72	1,074.38	-157.84	2,139,132.15	2,847,138.40	36.8778343	-107.4092063	
5,631.50	17.95	343.35	5,490.59	1,093.41	-163.09	2,139,151.16	2,847,133.06	36.8778866	-107.4092243	
5,695.50	17.68	341.14	5,551.53	1,112.06	-169.06	2,139,169.78	2,847,127.01	36.8779378	-107.4092447	
5,758.50	17.84	338.78	5,611.52	1,130.11	-175.64	2,139,187.80	2,847,120.34	36.8779874	-107.4092672	
5,820.50	17.67	336.58	5,670.57	1,147.59	-182.82	2,139,205.25	2,847,113.09	36.8780354	-107.4092917	
5,884.50	17.43	334.70	5,731.59	1,165.17	-190.78	2,139,222.80	2,847,105.05	36.8780837	-107.4093189	
5,948.50	17.14	333.41	5,792.70	1,182.27	-199.10	2,139,239.86	2,847,096.66	36.8781307	-107.4093474	

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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
6,011.50	16.47	330.38	5,853.01	1,198.34	-207.67	2,139,255.89	2,847,088.02	36.8781748	-107.4093767
6,075.50	15.27	327.52	5,914.57	1,213.33	-216.68	2,139,270.84	2,847,078.94	36.8782160	-107.4094075
6,137.50	14.28	324.69	5,974.52	1,226.46	-225.48	2,139,283.93	2,847,070.08	36.8782520	-107.4094376
6,200.50	12.94	321.95	6,035.75	1,238.36	-234.32	2,139,295.79	2,847,061.19	36.8782847	-107.4094678
6,263.50	11.18	318.49	6,097.36	1,248.49	-242.72	2,139,305.88	2,847,052.75	36.8783125	-107.4094965
6,358.50	8.78	311.71	6,190.92	1,260.21	-254.23	2,139,317.55	2,847,041.18	36.8783447	-107.4095359
6,428.00	7.37	307.41	6,259.73	1,266.45	-261.74	2,139,323.76	2,847,033.65	36.8783619	-107.4095615
6,523.00	9.77	304.55	6,353.66	1,274.72	-273.22	2,139,331.98	2,847,022.13	36.8783846	-107.4096008
6,617.00	10.82	306.26	6,446.15	1,284.46	-286.90	2,139,341.66	2,847,008.40	36.8784114	-107.4096476
6,712.00	8.92	298.73	6,539.74	1,293.28	-300.55	2,139,350.41	2,846,994.71	36.8784356	-107.4096942
6,806.00	10.21	305.05	6,632.44	1,301.57	-313.76	2,139,358.64	2,846,981.47	36.8784583	-107.4097394
6,901.00	13.78	301.19	6,725.35	1,312.27	-330.34	2,139,369.27	2,846,964.84	36.8784877	-107.4097961
6,996.00	21.97	295.32	6,815.69	1,325.75	-356.13	2,139,382.64	2,846,938.99	36.8785248	-107.4098843
7,090.00	28.29	288.26	6,900.77	1,340.27	-393.22	2,139,396.99	2,846,901.84	36.8785646	-107.4100111
7,185.00	35.60	275.21	6,981.43	1,349.86	-442.26	2,139,406.36	2,846,852.75	36.8785910	-107.4101788
7,279.00	44.56	268.03	7,053.32	1,351.21	-502.62	2,139,407.45	2,846,792.39	36.8785947	-107.4103851
7,374.00	50.67	268.50	7,117.33	1,349.10	-572.73	2,139,405.02	2,846,722.29	36.8785889	-107.4106248
7,468.00	60.29	273.24	7,170.55	1,350.46	-650.04	2,139,406.04	2,846,644.98	36.8785926	-107.4108892
7,563.00	71.11	271.04	7,209.59	1,353.62	-736.43	2,139,408.81	2,846,558.57	36.8786013	-107.4111845
7,657.00	77.84	270.11	7,234.74	1,354.51	-826.94	2,139,409.31	2,846,468.06	36.8786037	-107.4114940
7,751.00	83.77	271.08	7,249.75	1,355.48	-919.68	2,139,409.86	2,846,375.31	36.8786064	-107.4118111
7,788.00	85.65	271.06	7,253.17	1,356.17	-956.52	2,139,410.39	2,846,338.47	36.8786083	-107.4119370
RU 650H Actual POE @ 7788' MD									
7,846.00	88.59	271.03	7,256.08	1,357.23	-1,014.43	2,139,411.19	2,846,280.56	36.8786112	-107.4121350
7,940.00	90.50	273.02	7,256.83	1,360.55	-1,108.36	2,139,414.09	2,846,186.62	36.8786203	-107.4124562
8,034.00	90.60	273.43	7,255.92	1,365.84	-1,202.20	2,139,418.96	2,846,092.75	36.8786348	-107.4127771
8,129.00	90.44	271.22	7,255.06	1,369.69	-1,297.12	2,139,422.39	2,845,997.82	36.8786454	-107.4131016
8,223.00	90.27	271.76	7,254.48	1,372.13	-1,391.08	2,139,424.42	2,845,903.84	36.8786521	-107.4134229
8,317.00	90.13	271.71	7,254.15	1,374.98	-1,485.04	2,139,426.85	2,845,809.88	36.8786599	-107.4137441
8,412.00	90.24	271.29	7,253.85	1,377.47	-1,580.01	2,139,428.91	2,845,714.90	36.8786667	-107.4140688
8,506.00	90.34	271.80	7,253.37	1,380.00	-1,673.97	2,139,431.03	2,845,620.92	36.8786736	-107.4143901
8,600.00	90.13	272.54	7,252.98	1,383.56	-1,767.90	2,139,434.17	2,845,526.98	36.8786834	-107.4147112
8,694.00	89.90	272.96	7,252.96	1,388.07	-1,861.79	2,139,438.26	2,845,433.07	36.8786958	-107.4150323
8,789.00	88.25	271.70	7,254.49	1,391.93	-1,956.70	2,139,441.70	2,845,338.15	36.8787064	-107.4153567
8,883.00	88.65	268.56	7,257.04	1,392.15	-2,050.65	2,139,441.50	2,845,244.20	36.8787069	-107.4156780
8,978.00	90.34	268.16	7,257.87	1,389.43	-2,145.60	2,139,438.35	2,845,149.25	36.8786994	-107.4160026
9,072.00	89.87	268.97	7,257.70	1,387.07	-2,239.57	2,139,435.58	2,845,055.30	36.8786930	-107.4163239
9,167.00	88.89	267.63	7,258.73	1,384.25	-2,334.52	2,139,432.34	2,844,960.36	36.8786852	-107.4166485
9,262.00	90.74	269.72	7,259.04	1,382.06	-2,429.49	2,139,429.72	2,844,865.41	36.8786791	-107.4169732
9,356.00	89.97	268.88	7,258.45	1,380.91	-2,523.48	2,139,428.16	2,844,771.42	36.8786760	-107.4172946
9,450.00	91.55	267.75	7,257.21	1,378.15	-2,617.42	2,139,424.98	2,844,677.49	36.8786684	-107.4176158
9,544.00	91.65	269.63	7,254.58	1,376.00	-2,711.36	2,139,422.41	2,844,583.57	36.8786624	-107.4179370
9,639.00	92.49	271.00	7,251.15	1,376.52	-2,806.29	2,139,422.51	2,844,488.63	36.8786638	-107.4182616
9,734.00	91.95	274.13	7,247.47	1,380.77	-2,901.11	2,139,426.34	2,844,393.79	36.8786755	-107.4185858
9,829.00	89.50	273.69	7,246.27	1,387.25	-2,995.88	2,139,432.39	2,844,299.00	36.8786932	-107.4189098
9,923.00	89.19	273.62	7,247.34	1,393.24	-3,089.68	2,139,437.97	2,844,205.17	36.8787097	-107.4192305
10,018.00	89.06	273.96	7,248.79	1,399.52	-3,184.46	2,139,443.82	2,844,110.37	36.8787269	-107.4195546
10,113.00	89.97	272.27	7,249.60	1,404.68	-3,279.31	2,139,448.56	2,844,015.49	36.8787410	-107.4198789
10,207.00	91.14	271.53	7,248.69	1,407.79	-3,373.25	2,139,451.26	2,843,921.54	36.8787496	-107.4202001
10,302.00	91.44	272.98	7,246.55	1,411.53	-3,468.15	2,139,454.58	2,843,826.62	36.8787598	-107.4205245
10,397.00	90.97	271.81	7,244.55	1,415.50	-3,563.05	2,139,458.12	2,843,731.71	36.8787707	-107.4208490
10,491.00	91.35	272.47	7,242.65	1,419.01	-3,656.96	2,139,461.21	2,843,637.78	36.8787803	-107.4211701
10,586.00	88.75	271.50	7,242.56	1,422.30	-3,751.90	2,139,464.08	2,843,542.84	36.8787893	-107.4214947
10,680.00	89.06	272.04	7,244.36	1,425.20	-3,845.83	2,139,466.57	2,843,448.89	36.8787972	-107.4218158
10,775.00	89.83	270.72	7,245.28	1,427.49	-3,940.80	2,139,468.43	2,843,353.91	36.8788035	-107.4221405

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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
10,869.00	89.70	270.87	7,245.67	1,428.79	-4,034.79	2,139,469.32	2,843,259.92	36.8788070	-107.4224619
10,964.00	89.93	272.65	7,245.97	1,431.71	-4,129.74	2,139,471.81	2,843,164.95	36.8788150	-107.4227865
11,058.00	88.92	268.18	7,246.92	1,432.39	-4,223.71	2,139,472.08	2,843,070.99	36.8788168	-107.4231078
11,153.00	90.30	268.97	7,247.56	1,430.03	-4,318.67	2,139,469.29	2,842,976.03	36.8788103	-107.4234325
11,247.00	90.30	269.39	7,247.07	1,428.69	-4,412.66	2,139,467.53	2,842,882.05	36.8788065	-107.4237539
11,342.00	90.07	268.11	7,246.76	1,426.61	-4,507.64	2,139,465.03	2,842,787.09	36.8788008	-107.4240786
11,436.00	89.87	269.23	7,246.81	1,424.43	-4,601.61	2,139,462.43	2,842,693.12	36.8787948	-107.4243999
11,531.00	88.96	269.05	7,247.78	1,423.01	-4,696.59	2,139,460.59	2,842,598.15	36.8787908	-107.4247247
11,625.00	89.90	267.41	7,248.72	1,420.10	-4,790.54	2,139,457.26	2,842,504.21	36.8787828	-107.4250459
11,720.00	91.58	267.12	7,247.49	1,415.57	-4,885.42	2,139,452.31	2,842,409.36	36.8787703	-107.4253703
11,814.00	91.98	270.35	7,244.57	1,413.50	-4,979.34	2,139,449.82	2,842,315.45	36.8787646	-107.4256914
11,908.00	90.94	270.67	7,242.18	1,414.33	-5,073.30	2,139,450.24	2,842,221.48	36.8787668	-107.4260127
12,003.00	90.20	270.28	7,241.23	1,415.12	-5,168.29	2,139,450.60	2,842,126.49	36.8787689	-107.4263374
12,098.00	90.34	270.23	7,240.78	1,415.54	-5,263.29	2,139,450.60	2,842,031.49	36.8787700	-107.4266622
12,192.00	90.13	270.55	7,240.40	1,416.18	-5,357.29	2,139,450.82	2,841,937.49	36.8787718	-107.4269836
12,287.00	89.76	269.80	7,240.49	1,416.47	-5,452.29	2,139,450.69	2,841,842.49	36.8787725	-107.4273084
12,381.00	89.36	270.69	7,241.21	1,416.87	-5,546.28	2,139,450.68	2,841,748.49	36.8787736	-107.4276298
12,476.00	90.94	269.85	7,240.96	1,417.32	-5,641.28	2,139,450.70	2,841,653.50	36.8787747	-107.4279546
12,570.00	90.77	269.99	7,239.56	1,417.19	-5,735.27	2,139,450.15	2,841,559.51	36.8787743	-107.4282760
12,665.00	90.84	270.71	7,238.22	1,417.77	-5,830.25	2,139,450.31	2,841,464.52	36.8787759	-107.4286007
12,759.00	90.81	269.06	7,236.87	1,417.58	-5,924.24	2,139,449.70	2,841,370.54	36.8787753	-107.4289221
12,854.00	89.63	270.33	7,236.51	1,417.08	-6,019.24	2,139,448.77	2,841,275.55	36.8787738	-107.4292469
12,948.00	90.03	270.91	7,236.79	1,418.09	-6,113.23	2,139,449.37	2,841,181.55	36.8787766	-107.4295683
13,043.00	89.63	272.00	7,237.07	1,420.51	-6,208.20	2,139,451.36	2,841,086.57	36.8787831	-107.4298930
13,138.00	88.69	272.68	7,238.46	1,424.38	-6,303.11	2,139,454.82	2,840,991.65	36.8787937	-107.4302175
13,232.00	88.42	272.47	7,240.83	1,428.61	-6,396.98	2,139,458.62	2,840,897.75	36.8788053	-107.4305384
13,326.00	89.56	271.05	7,242.49	1,431.49	-6,490.92	2,139,461.09	2,840,803.81	36.8788131	-107.4308596
13,421.00	89.43	272.01	7,243.32	1,434.03	-6,585.88	2,139,463.21	2,840,708.83	36.8788201	-107.4311843
13,515.00	90.34	269.27	7,243.51	1,435.08	-6,679.86	2,139,463.84	2,840,614.85	36.8788229	-107.4315056
13,610.00	90.13	269.95	7,243.12	1,434.43	-6,774.86	2,139,462.77	2,840,519.85	36.8788210	-107.4318304
13,705.00	90.07	268.82	7,242.96	1,433.41	-6,869.85	2,139,461.33	2,840,424.87	36.8788182	-107.4321552
13,799.00	91.38	271.66	7,241.77	1,433.81	-6,963.83	2,139,461.30	2,840,330.89	36.8788192	-107.4324765
13,894.00	91.65	270.88	7,239.26	1,435.91	-7,058.77	2,139,462.98	2,840,235.94	36.8788249	-107.4328012
13,988.00	90.44	269.28	7,237.54	1,436.04	-7,152.75	2,139,462.70	2,840,141.96	36.8788252	-107.4331225
14,083.00	90.71	269.09	7,236.59	1,434.69	-7,247.74	2,139,460.92	2,840,046.98	36.8788214	-107.4334473
14,177.00	90.67	269.38	7,235.46	1,433.43	-7,341.72	2,139,459.25	2,839,953.00	36.8788179	-107.4337686
14,272.00	90.30	268.71	7,234.65	1,431.85	-7,436.71	2,139,457.24	2,839,858.03	36.8788135	-107.4340933
14,367.00	90.17	268.89	7,234.26	1,429.86	-7,531.69	2,139,454.83	2,839,763.06	36.8788079	-107.4344181
14,461.00	89.33	267.70	7,234.67	1,427.07	-7,625.64	2,139,451.62	2,839,669.12	36.8788002	-107.4347393
14,556.00	89.46	267.30	7,235.68	1,422.92	-7,720.54	2,139,447.05	2,839,574.23	36.8787887	-107.4350638
14,650.00	90.34	269.71	7,235.84	1,420.47	-7,814.50	2,139,444.18	2,839,480.28	36.8787819	-107.4353851
14,745.00	90.10	268.81	7,235.48	1,419.24	-7,909.49	2,139,442.53	2,839,385.30	36.8787785	-107.4357098
14,839.00	89.56	269.86	7,235.75	1,418.15	-8,003.49	2,139,441.02	2,839,291.31	36.8787754	-107.4360312
14,933.00	89.09	270.12	7,236.86	1,418.14	-8,097.48	2,139,440.59	2,839,197.32	36.8787753	-107.4363526
15,028.00	89.80	269.56	7,237.78	1,417.87	-8,192.47	2,139,439.90	2,839,102.33	36.8787745	-107.4366774
15,122.00	90.00	272.39	7,237.95	1,419.47	-8,286.45	2,139,441.08	2,839,008.35	36.8787788	-107.4369987
15,217.00	90.17	272.29	7,237.81	1,423.35	-8,381.37	2,139,444.54	2,838,913.41	36.8787894	-107.4373232
15,311.00	90.40	272.69	7,237.34	1,427.43	-8,475.28	2,139,448.21	2,838,819.48	36.8788005	-107.4376443
15,374.00	89.73	272.89	7,237.27	1,430.50	-8,538.21	2,139,450.99	2,838,756.55	36.8788089	-107.4378595
15,469.00	88.35	272.72	7,238.86	1,435.15	-8,633.08	2,139,455.22	2,838,661.66	36.8788216	-107.4381838
15,563.00	88.42	272.18	7,241.51	1,439.16	-8,726.95	2,139,458.82	2,838,567.76	36.8788325	-107.4385048
15,595.00	88.22	272.06	7,242.45	1,440.35	-8,758.92	2,139,459.86	2,838,535.79	36.8788358	-107.4386141
15,689.00	87.91	269.79	7,245.62	1,441.86	-8,852.84	2,139,460.96	2,838,441.86	36.8788398	-107.4389352
15,783.00	89.02	269.95	7,248.14	1,441.65	-8,946.81	2,139,460.33	2,838,347.90	36.8788392	-107.4392565
15,878.00	89.87	269.37	7,249.06	1,441.09	-9,041.80	2,139,459.34	2,838,252.91	36.8788375	-107.4395813

SDT

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #650H - Slot B10
Project:	Rio Arriba, NM NAD83	TVD Reference:	6372+30 @ 6402.00ft (H&P 530)
Site:	Rosa Unit 29	MD Reference:	6372+30 @ 6402.00ft (H&P 530)
Well:	Rosa Unit #650H	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
15,972.00	91.41	270.64	7,248.01	1,441.09	-9,135.79	2,139,458.93	2,838,158.92	36.8788375	-107.4399027
16,067.00	91.88	271.41	7,245.28	1,442.79	-9,230.74	2,139,460.21	2,838,063.97	36.8788421	-107.4402273
16,130.00	92.08	272.61	7,243.10	1,445.00	-9,293.66	2,139,462.13	2,838,001.04	36.8788481	-107.4404424
16,149.00	91.92	272.58	7,242.44	1,445.86	-9,312.63	2,139,462.91	2,837,982.06	36.8788504	-107.4405073
RU 650H Actual FPP @ 16149' MD									
16,193.00	91.55	272.50	7,241.11	1,447.81	-9,356.56	2,139,464.66	2,837,938.12	36.8788557	-107.4406575
16,256.00	90.03	272.69	7,240.24	1,450.66	-9,419.49	2,139,467.23	2,837,875.18	36.8788635	-107.4408727
16,298.00	90.20	272.24	7,240.16	1,452.47	-9,461.45	2,139,468.85	2,837,833.21	36.8788684	-107.4410161
16,364.00	90.20	272.24	7,239.93	1,455.05	-9,527.40	2,139,471.14	2,837,767.25	36.8788755	-107.4412416
BHL @ 16364' MD									

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
Rosa 650H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,138,058.49	2,847,301.01	36.8748833	-107.4086666
Rosa 650H BHL - actual wellpath hits target center - Point	0.00	0.00	7,239.93	1,455.05	-9,527.40	2,139,471.14	2,837,767.25	36.8788755	-107.4412416
Rosa 650H Actual FPP - actual wellpath hits target center - Point	0.00	0.00	7,242.44	1,445.86	-9,312.63	2,139,462.91	2,837,982.06	36.8788504	-107.4405073
Rosa 650H PBHL - actual wellpath misses target center by 35.53ft at 16298.00ft MD (7240.16 TVD, 1452.47 N, -9461.45 E) - Point	0.00	0.00	7,253.00	1,442.20	-9,492.95	2,139,458.45	2,837,801.76	36.8788402	-107.4411238
Rosa 650H Actual POE - actual wellpath hits target center - Point	0.00	0.00	7,253.17	1,356.17	-956.52	2,139,410.39	2,846,338.47	36.8786083	-107.4119370

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,788.00	7,253.17	1,356.17	-956.52	RU 650H Actual POE @ 7788' MD	
16,149.00	7,242.44	1,445.86	-9,312.63	RU 650H Actual FPP @ 16149' MD	
16,364.00	7,239.93	1,455.05	-9,527.40	BHL @ 16364' MD	

Checked By: _____	Approved By: _____	Date: _____
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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 276694

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 276694
	Action Type: [C-104] Completion Packet (C-104C)

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

CONDITIONS

Action 276694

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 276694
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 1/17/2024.	10/19/2023