

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 – 039-31364	⁵ Pool Name Basin Mancos		⁶ Pool Code 97232
⁷ Property Code 320608	⁸ Property Name Rosa Unit		⁹ Well Number 740H

II. ¹⁰ Surface Location

UL or lot no. C	Section 33	Township 31N	Range 5W	Lot Idn	Feet from the 319	North/South Line North	Feet from the 1681	East/West line West	County Rio Arriba
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¹¹ Bottom Hole Location

UL or lot no. C	Section 31	Township 31N	Range 5W	Lot Idn 1	Feet from the 363	North/South line North	Feet from the 165	East/West line West	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

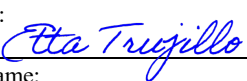
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield, NM 87413	G

IV. Well Completion Data

²¹ Spud Date 8/25/2021	²² Ready Date 10/17/2023	²³ TD 17,327' MD / 7,064' TVD	²⁴ PBTD 17,066' MD / 7,064' TVD	²⁵ Perforations 7,420' MD / `16,495' MD 7,093' TVD / `7,064' 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		331' (GL)	
12.5"		9-5/8", 47#, L-80		6368'	
8.5"		5.5", 20#, HCP-110		17,297'	
		2-7/8", 6.5#, J-55		pending	
³⁰ Sacks Cement					
190sx (47bbbs, 264cf)					
2993sx (928bbbs, 5210cf) DV tool @ 3223' & 4825'					
2424sx (710bbbs, 3989cf) TOC @ 4,720'					

V. Well Test Data

³¹ Date New Oil n/a	³² Gas Delivery Date 10/17/2023	³³ Test Date 10/17/2023	³⁴ Test Length 12hrs	³⁵ Tbg. Pressure n/a	³⁶ Csg. Pressure 2122
³⁷ Choke Size 14/64	³⁸ Oil n/a	³⁹ Water 288 bbls	⁴⁰ Gas 401 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: 1/25/2024	
Date: 11/27/2023	Phone: (505) 324-4154		



Request for Confidential "Tight Hole" Status

LOGOS Operating, LLC
Rosa Unit 740H
API# 30-039-31364
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 11/27/2023 for 90 days acceptance of the referenced documents.

Sincerely,

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

District I
1623 N. (16th St.)
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 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

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

☐ AMENDED REPORT

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-31364		2 Pool Code 97232		3 Pool Name BASIN MANCOS	
4 Property Code 320608		5 Property Name ROSA UNIT		6 Well Number 740H	
7 OGRID No. 289408		8 Operator Name LOGOS OPERATING, LLC		9 Elevation 6492'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	33	31N	5W		319	NORTH	1681	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

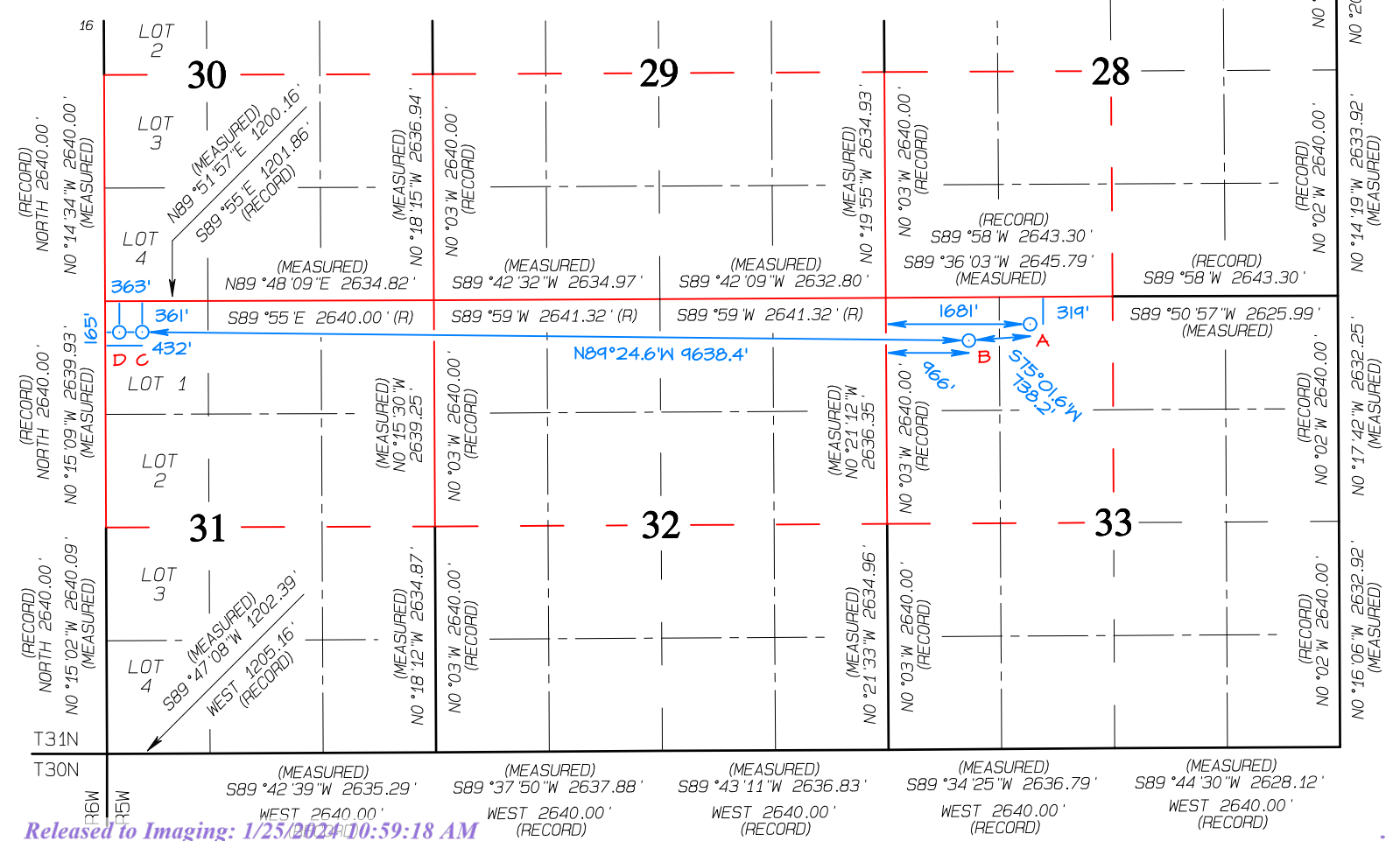
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	31	31N	5W	1	363	NORTH	165	WEST	RIO ARriba

12 Dedicated Acres 1425.68		13 Joint or Infill		14 Consolidation Code		15 Order No. R-13457	
REFER TO DESCRIPTION BELOW							

T31N R5W, Section 28 : SW/4
T31N R5W, Section 29 : S/2
T31N R5W, Section 30 : Lots 3 & 4, SE/4
T31N R5W, Section 31 : Lots 1 & 2, NE/4
T31N R5W, Section 32 : N/2
T31N R5W, Section 33 : NW/4

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

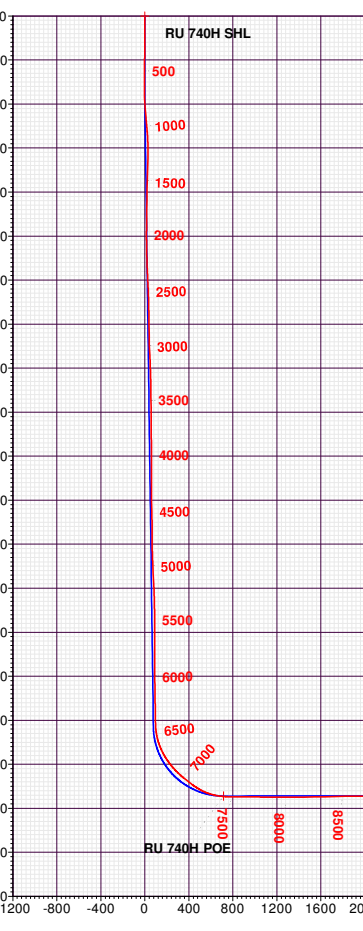
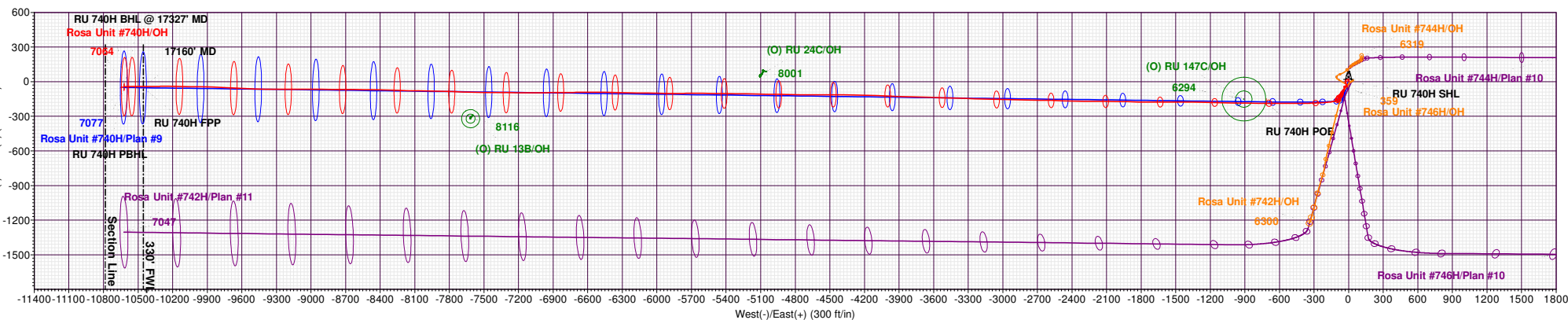
LAST TAKE POINT (D) 363' FNL 165' FWL SEC 31, T31N, R5W LAT 36.8623527°N LONG -107.4066193°W DATUM: NAD1927	FIRST PERFORATION (C) 361' FNL 432' FWL SEC 31, T31N, R5W LAT 36.8623575°N LONG -107.4057067°W DATUM: NAD1927	FIRST TAKE POINT (B) 504' FNL 966' FWL SEC 33, T31N, R5W LAT 36.8619617°N LONG -107.3727638°W DATUM: NAD1927	SURFACE LOCATION (A) 319' FNL 1681' FWL SEC 33, T31N, R5W LAT 36.862476°N LONG -107.370323°W DATUM: NAD1927
LAT 36.8623588°N LONG -107.4072223°W DATUM: NAD1983	LAT 36.8623637°N LONG -107.4063096°W DATUM: NAD1983	LAT 36.8619681°N LONG -107.3733659°W DATUM: NAD1983	LAT 36.862483°N LONG -107.370925°W DATUM: NAD1983



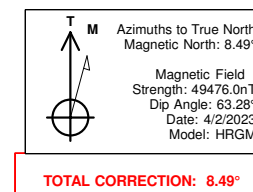
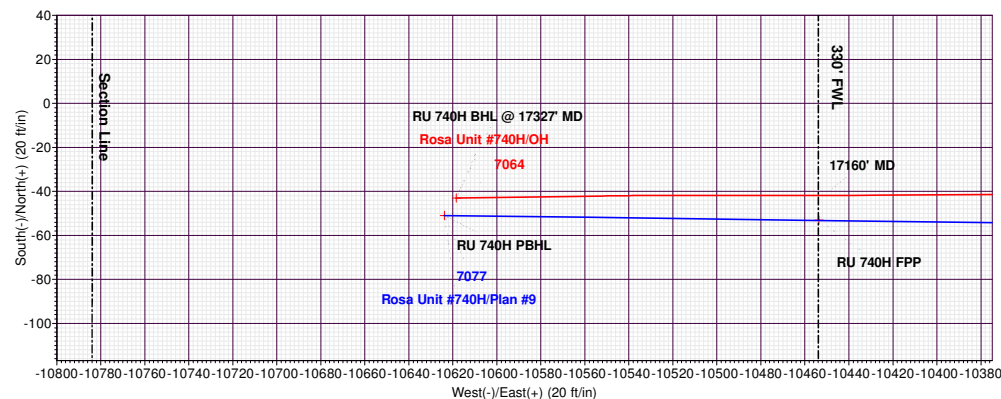
17 OPERATOR CERTIFICATION Page 3 of 27
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or 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.
Signature: Etta Trujillo Date: 10/16/2023
Printed Name: Etta Trujillo
E-mail Address: etrujillo@logosresourcesllc.com
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 15, 2023
Date of Survey: APRIL 21, 2016
Signature and Seal of Professional Surveyor
JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269
Certificate Number 15269



County: Rio Arriba, NM NAD83
 Site: Rosa Unit 31
 Well: Rosa Unit #740H
 Depth Reference: GL 6492' & RKB 30' @ 6522.00ft (H&P 530)
 Rig: H&P 530
 Plan: OH
 Job #: 15945



DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RU 740H SHL	0.00	0.00	0.00	2133595.07	2858361.84	36.8624825	-107.3709250
RU 740H BHL @ 17327' MD	7063.80	-43.00	-10618.39	2133500.66	2847743.81	36.8623588	-107.4072223
RU 740H FPP	7077.00	-53.08	-10453.61	2133491.38	2847908.63	36.8623313	-107.4066590
RU 740H PBHL	7077.00	-50.94	-10623.87	2133492.69	2847738.36	36.8623370	-107.4072410
RU 740H POE	7088.59	-175.59	-714.45	2133416.02	2857648.25	36.8620002	-107.3733672



TOTAL CORRECTION: 8.49°

Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 31

Rosa Unit #740H - Slot A1

OH

Design: OH

Standard Survey Report

19 May, 2023

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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 #740H - Slot A1					
Well Position	+N/-S	0.00 ft	Northing:	2,133,595.07 usft	Latitude:	36.8624824
	+E/-W	0.00 ft	Easting:	2,858,361.84 usft	Longitude:	-107.3709251
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)
	HRGM	4/2/2023	8.49	63.28	49,475.98890216

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		269.77

Survey Program	Date	5/19/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
376.00	17,261.00	Survey #1 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
17,327.00	17,327.00	Survey #2 (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	
376.00	0.68	58.50	375.99	1.17	1.90	-1.91	0.18	0.18	0.00	
467.00	0.84	21.80	466.98	2.07	2.61	-2.62	0.55	0.18	-40.33	
558.00	0.81	21.72	557.97	3.28	3.10	-3.11	0.03	-0.03	-0.09	
649.00	0.83	23.21	648.96	4.49	3.59	-3.61	0.03	0.02	1.64	
740.00	2.96	330.98	739.91	7.15	2.71	-2.74	2.79	2.34	-57.40	
832.00	5.77	307.58	831.64	12.05	-2.10	2.06	3.56	3.05	-25.43	
927.00	5.85	286.52	926.17	16.34	-10.53	10.47	2.23	0.08	-22.17	
1,018.00	5.27	248.83	1,016.77	16.15	-18.88	18.81	3.99	-0.64	-41.42	

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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)
1,110.00	6.87	211.19	1,108.28	9.91	-25.67	25.63	4.56	1.74	-40.91
1,201.00	6.41	184.10	1,198.70	0.19	-28.85	28.85	3.45	-0.51	-29.77
1,294.00	5.49	167.42	1,291.20	-9.34	-28.26	28.29	2.10	-0.99	-17.94
1,387.00	3.98	154.26	1,383.88	-16.59	-25.88	25.95	1.99	-1.62	-14.15
1,482.00	2.09	127.90	1,478.75	-20.62	-23.09	23.17	2.42	-1.99	-27.75
1,577.00	1.46	118.88	1,573.70	-22.27	-20.66	20.75	0.72	-0.66	-9.49
1,672.00	2.33	153.26	1,668.65	-24.58	-18.73	18.83	1.47	0.92	36.19
1,766.00	2.86	165.44	1,762.56	-28.55	-17.28	17.40	0.81	0.56	12.96
1,860.00	3.16	172.28	1,856.43	-33.39	-16.34	16.48	0.50	0.32	7.28
1,955.00	1.93	160.39	1,951.33	-37.49	-15.45	15.61	1.40	-1.29	-12.52
2,050.00	0.92	237.63	2,046.31	-39.41	-15.56	15.72	2.05	-1.06	81.31
2,144.00	1.49	289.43	2,140.29	-39.41	-17.35	17.51	1.25	0.61	55.11
2,239.00	1.76	290.87	2,235.25	-38.48	-19.88	20.04	0.29	0.28	1.52
2,333.00	2.51	273.92	2,329.19	-37.82	-23.28	23.43	1.03	0.80	-18.03
2,428.00	3.31	245.08	2,424.07	-38.83	-27.84	28.00	1.73	0.84	-30.36
2,523.00	2.80	218.08	2,518.94	-41.82	-31.76	31.93	1.59	-0.54	-28.42
2,617.00	3.36	203.77	2,612.80	-46.14	-34.29	34.48	1.01	0.60	-15.22
2,712.00	4.23	199.10	2,707.60	-52.00	-36.56	36.77	0.97	0.92	-4.92
2,806.00	4.89	186.78	2,801.30	-59.26	-38.17	38.41	1.25	0.70	-13.11
2,901.00	4.94	188.60	2,895.95	-67.32	-39.26	39.53	0.17	0.05	1.92
2,995.00	3.78	209.33	2,989.68	-74.03	-41.38	41.68	2.06	-1.23	22.05
3,090.00	3.78	230.81	3,084.48	-78.74	-45.34	45.66	1.48	0.00	22.61
3,183.00	2.97	229.67	3,177.32	-82.23	-49.55	49.88	0.87	-0.87	-1.23
3,278.00	2.53	216.59	3,272.21	-85.51	-52.68	53.02	0.80	-0.46	-13.77
3,372.00	2.17	196.83	3,366.13	-88.88	-54.43	54.79	0.94	-0.38	-21.02
3,467.00	1.59	191.87	3,461.08	-91.89	-55.22	55.59	0.63	-0.61	-5.22
3,562.00	1.51	199.69	3,556.05	-94.36	-55.92	56.30	0.24	-0.08	8.23
3,656.00	1.81	197.32	3,650.01	-96.94	-56.77	57.17	0.33	0.32	-2.52
3,750.00	1.76	202.03	3,743.96	-99.70	-57.76	58.16	0.16	-0.05	5.01
3,845.00	1.68	212.03	3,838.92	-102.23	-59.04	59.46	0.33	-0.08	10.53
3,940.00	1.30	206.58	3,933.89	-104.37	-60.26	60.69	0.43	-0.40	-5.74
4,034.00	1.45	170.89	4,027.86	-106.50	-60.55	60.98	0.91	0.16	-37.97
4,130.00	1.08	174.30	4,123.84	-108.60	-60.27	60.71	0.39	-0.39	3.55
4,224.00	0.73	173.46	4,217.83	-110.08	-60.11	60.56	0.37	-0.37	-0.89
4,319.00	0.67	160.99	4,312.82	-111.20	-59.86	60.31	0.17	-0.06	-13.13
4,413.00	2.01	216.73	4,406.79	-113.04	-60.67	61.13	1.83	1.43	59.30
4,508.00	1.96	228.16	4,501.74	-115.46	-62.88	63.35	0.42	-0.05	12.03
4,602.00	1.38	210.17	4,595.70	-117.51	-64.65	65.12	0.82	-0.62	-19.14
4,697.00	1.05	208.05	4,690.68	-119.27	-65.63	66.11	0.35	-0.35	-2.23
4,791.00	0.71	206.51	4,784.66	-120.55	-66.29	66.78	0.36	-0.36	-1.64
4,886.00	2.13	227.58	4,879.63	-122.27	-67.86	68.35	1.57	1.49	22.18
4,980.00	3.16	243.00	4,973.53	-124.62	-71.46	71.96	1.32	1.10	16.40
5,075.00	3.11	248.70	5,068.39	-126.75	-76.19	76.71	0.33	-0.05	6.00

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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)
5,169.00	2.95	250.59	5,162.26	-128.48	-80.85	81.37	0.20	-0.17	2.01
5,264.00	2.08	233.96	5,257.17	-130.31	-84.55	85.08	1.19	-0.92	-17.51
5,359.00	2.24	208.09	5,352.10	-132.96	-86.82	87.36	1.03	0.17	-27.23
5,485.00	2.39	187.14	5,478.00	-137.74	-88.30	88.86	0.68	0.12	-16.63
5,515.00	2.39	182.65	5,507.98	-138.98	-88.41	88.97	0.62	0.00	-14.97
5,578.00	2.37	183.61	5,570.92	-141.60	-88.55	89.13	0.07	-0.03	1.52
5,641.00	2.47	175.39	5,633.87	-144.25	-88.53	89.11	0.57	0.16	-13.05
5,704.00	2.13	172.22	5,696.82	-146.76	-88.26	88.85	0.58	-0.54	-5.03
5,767.00	1.71	166.52	5,759.78	-148.84	-87.88	88.48	0.73	-0.67	-9.05
5,830.00	1.46	175.55	5,822.76	-150.55	-87.60	88.21	0.56	-0.40	14.33
5,893.00	0.91	213.20	5,885.74	-151.77	-87.81	88.42	1.47	-0.87	59.76
5,956.00	1.01	268.78	5,948.74	-152.20	-88.64	89.26	1.43	0.16	88.22
6,019.00	1.18	264.24	6,011.72	-152.28	-89.84	90.46	0.30	0.27	-7.21
6,082.00	1.04	262.21	6,074.71	-152.42	-91.05	91.67	0.23	-0.22	-3.22
6,145.00	1.11	220.58	6,137.70	-152.96	-92.02	92.63	1.22	0.11	-66.08
6,208.00	0.80	228.99	6,200.69	-153.71	-92.74	93.37	0.54	-0.49	13.35
6,271.00	1.29	219.48	6,263.68	-154.55	-93.53	94.15	0.82	0.78	-15.10
6,387.00	1.58	216.71	6,379.65	-156.84	-95.31	95.95	0.26	0.25	-2.39
6,452.00	2.75	222.02	6,444.60	-158.72	-96.89	97.54	1.82	1.80	8.17
6,547.00	12.46	244.90	6,538.66	-164.77	-107.73	108.39	10.51	10.22	24.08
6,641.00	20.80	259.08	6,628.69	-172.25	-133.35	134.05	9.80	8.87	15.09
6,735.00	29.48	263.91	6,713.71	-177.88	-172.82	173.54	9.48	9.23	5.14
6,830.00	37.32	266.97	6,792.96	-181.89	-224.91	225.64	8.44	8.25	3.22
6,924.00	44.60	267.16	6,863.90	-185.03	-286.40	287.15	7.75	7.74	0.20
7,019.00	51.29	268.84	6,927.50	-187.44	-356.86	357.61	7.16	7.04	1.77
7,113.00	53.25	269.25	6,985.02	-188.67	-431.19	431.95	2.11	2.09	0.44
7,207.00	62.11	270.94	7,035.23	-188.48	-510.54	511.30	9.55	9.43	1.80
7,302.00	73.44	271.01	7,071.11	-186.99	-598.33	599.08	11.93	11.93	0.07
7,397.00	82.85	269.06	7,090.60	-186.96	-691.19	691.94	10.11	9.91	-2.05
7,491.00	91.11	270.29	7,095.55	-187.49	-784.97	785.73	8.88	8.79	1.31
7,586.00	89.49	271.16	7,095.06	-186.28	-879.96	880.71	1.94	-1.71	0.92
7,680.00	89.09	270.07	7,096.22	-185.28	-973.95	974.69	1.24	-0.43	-1.16
7,774.00	89.46	271.92	7,097.41	-183.64	-1,067.92	1,068.66	2.01	0.39	1.97
7,868.00	88.92	271.87	7,098.74	-180.54	-1,161.86	1,162.58	0.58	-0.57	-0.05
7,963.00	90.40	270.47	7,099.30	-178.60	-1,256.83	1,257.55	2.14	1.56	-1.47
8,057.00	90.13	270.99	7,098.87	-177.40	-1,350.83	1,351.53	0.62	-0.29	0.55
8,152.00	91.18	270.22	7,097.78	-176.39	-1,445.81	1,446.51	1.37	1.11	-0.81
8,247.00	90.91	269.72	7,096.05	-176.44	-1,540.80	1,541.50	0.60	-0.28	-0.53
8,341.00	90.81	269.39	7,094.64	-177.17	-1,634.78	1,635.49	0.37	-0.11	-0.35
8,436.00	91.75	270.59	7,092.52	-177.19	-1,729.76	1,730.46	1.60	0.99	1.26
8,530.00	90.44	271.08	7,090.72	-175.82	-1,823.73	1,824.42	1.49	-1.39	0.52
8,625.00	90.27	271.20	7,090.13	-173.93	-1,918.71	1,919.39	0.22	-0.18	0.13
8,720.00	90.27	270.81	7,089.68	-172.27	-2,013.69	2,014.37	0.41	0.00	-0.41

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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)
8,814.00	90.13	270.14	7,089.35	-171.49	-2,107.68	2,108.36	0.73	-0.15	-0.71
8,909.00	89.50	270.36	7,089.66	-171.07	-2,202.68	2,203.36	0.70	-0.66	0.23
9,004.00	89.12	269.77	7,090.81	-170.96	-2,297.68	2,298.35	0.74	-0.40	-0.62
9,098.00	89.93	272.30	7,091.59	-169.27	-2,391.65	2,392.31	2.83	0.86	2.69
9,192.00	91.51	272.32	7,090.40	-165.48	-2,485.56	2,486.21	1.68	1.68	0.02
9,287.00	90.91	270.99	7,088.40	-162.73	-2,580.50	2,581.14	1.54	-0.63	-1.40
9,382.00	90.61	270.83	7,087.14	-161.23	-2,675.48	2,676.11	0.36	-0.32	-0.17
9,476.00	90.64	270.20	7,086.11	-160.38	-2,769.47	2,770.09	0.67	0.03	-0.67
9,571.00	90.88	272.08	7,084.85	-158.49	-2,864.44	2,865.05	1.99	0.25	1.98
9,665.00	90.71	270.81	7,083.55	-156.12	-2,958.40	2,959.00	1.36	-0.18	-1.35
9,760.00	90.50	271.31	7,082.54	-154.36	-3,053.37	3,053.97	0.57	-0.22	0.53
9,854.00	91.11	272.34	7,081.22	-151.37	-3,147.32	3,147.90	1.27	0.65	1.10
9,949.00	90.74	271.81	7,079.69	-147.93	-3,242.24	3,242.81	0.68	-0.39	-0.56
10,044.00	90.44	271.79	7,078.71	-144.95	-3,337.19	3,337.75	0.32	-0.32	-0.02
10,138.00	90.24	271.48	7,078.15	-142.27	-3,431.15	3,431.70	0.39	-0.21	-0.33
10,233.00	90.07	272.34	7,077.90	-139.10	-3,526.09	3,526.63	0.92	-0.18	0.91
10,327.00	89.87	270.99	7,077.95	-136.37	-3,620.05	3,620.57	1.45	-0.21	-1.44
10,421.00	89.36	271.46	7,078.58	-134.36	-3,714.03	3,714.54	0.74	-0.54	0.50
10,516.00	90.57	271.94	7,078.64	-131.54	-3,808.98	3,809.49	1.37	1.27	0.51
10,610.00	90.24	272.17	7,077.97	-128.17	-3,902.92	3,903.41	0.43	-0.35	0.24
10,705.00	90.10	272.15	7,077.69	-124.59	-3,997.85	3,998.32	0.15	-0.15	-0.02
10,799.00	89.90	272.12	7,077.69	-121.09	-4,091.79	4,092.24	0.22	-0.21	-0.03
10,894.00	91.04	270.92	7,076.91	-118.57	-4,186.75	4,187.19	1.74	1.20	-1.26
10,988.00	90.64	271.75	7,075.53	-116.38	-4,280.71	4,281.15	0.98	-0.43	0.88
11,083.00	90.13	270.97	7,074.89	-114.12	-4,375.68	4,376.11	0.98	-0.54	-0.82
11,177.00	90.54	269.68	7,074.34	-113.59	-4,469.68	4,470.10	1.44	0.44	-1.37
11,272.00	90.30	269.53	7,073.65	-114.24	-4,564.67	4,565.10	0.30	-0.25	-0.16
11,367.00	90.10	270.51	7,073.32	-114.21	-4,659.67	4,660.09	1.05	-0.21	1.03
11,461.00	90.88	270.41	7,072.51	-113.46	-4,753.66	4,754.08	0.84	0.83	-0.11
11,556.00	90.64	271.35	7,071.25	-112.00	-4,848.64	4,849.05	1.02	-0.25	0.99
11,650.00	90.17	270.65	7,070.59	-110.36	-4,942.62	4,943.03	0.90	-0.50	-0.74
11,744.00	89.93	270.89	7,070.51	-109.09	-5,036.61	5,037.02	0.36	-0.26	0.26
11,839.00	89.70	270.74	7,070.81	-107.74	-5,131.60	5,132.00	0.29	-0.24	-0.16
11,934.00	89.33	271.45	7,071.62	-105.93	-5,226.58	5,226.97	0.84	-0.39	0.75
12,028.00	90.84	270.86	7,071.48	-104.03	-5,320.56	5,320.94	1.72	1.61	-0.63
12,123.00	90.10	270.72	7,070.70	-102.72	-5,415.55	5,415.92	0.79	-0.78	-0.15
12,217.00	89.83	270.03	7,070.76	-102.11	-5,509.55	5,509.91	0.79	-0.29	-0.73
12,312.00	89.33	270.48	7,071.45	-101.69	-5,604.54	5,604.91	0.71	-0.53	0.47
12,406.00	89.93	269.65	7,072.06	-101.58	-5,698.54	5,698.90	1.09	0.64	-0.88
12,501.00	89.56	269.51	7,072.48	-102.28	-5,793.53	5,793.90	0.42	-0.39	-0.15
12,596.00	90.67	270.10	7,072.29	-102.60	-5,888.53	5,888.90	1.32	1.17	0.62
12,690.00	90.54	271.05	7,071.30	-101.66	-5,982.52	5,982.88	1.02	-0.14	1.01
12,785.00	90.24	271.23	7,070.65	-99.77	-6,077.50	6,077.85	0.37	-0.32	0.19
12,879.00	90.00	271.38	7,070.46	-97.62	-6,171.47	6,171.82	0.30	-0.26	0.16

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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)	
12,974.00	89.36	270.68	7,070.99	-95.92	-6,266.46	6,266.79	1.00	-0.67	-0.74	
13,069.00	90.98	271.39	7,070.70	-94.20	-6,361.44	6,361.77	1.86	1.71	0.75	
13,163.00	90.64	270.43	7,069.37	-92.71	-6,455.41	6,455.74	1.08	-0.36	-1.02	
13,258.00	90.50	270.31	7,068.43	-92.09	-6,550.41	6,550.73	0.19	-0.15	-0.13	
13,353.00	90.47	269.40	7,067.63	-92.34	-6,645.40	6,645.72	0.96	-0.03	-0.96	
13,447.00	90.34	269.00	7,066.96	-93.65	-6,739.39	6,739.72	0.45	-0.14	-0.43	
13,542.00	90.03	269.66	7,066.65	-94.76	-6,834.38	6,834.71	0.77	-0.33	0.69	
13,636.00	89.70	269.65	7,066.88	-95.32	-6,928.38	6,928.71	0.35	-0.35	-0.01	
13,731.00	89.66	269.88	7,067.41	-95.71	-7,023.38	7,023.71	0.25	-0.04	0.24	
13,825.00	89.60	269.36	7,068.01	-96.34	-7,117.38	7,117.71	0.56	-0.06	-0.55	
13,920.00	90.91	270.62	7,067.59	-96.35	-7,212.37	7,212.70	1.91	1.38	1.33	
14,014.00	90.64	270.71	7,066.32	-95.26	-7,306.36	7,306.68	0.30	-0.29	0.10	
14,109.00	89.97	270.30	7,065.81	-94.43	-7,401.35	7,401.67	0.83	-0.71	-0.43	
14,203.00	89.43	270.55	7,066.31	-93.73	-7,495.35	7,495.66	0.63	-0.57	0.27	
14,298.00	90.81	271.55	7,066.11	-91.99	-7,590.33	7,590.64	1.79	1.45	1.05	
14,393.00	90.47	271.87	7,065.05	-89.15	-7,685.28	7,685.57	0.49	-0.36	0.34	
14,487.00	89.90	271.22	7,064.74	-86.62	-7,779.24	7,779.53	0.92	-0.61	-0.69	
14,582.00	89.53	272.33	7,065.21	-83.68	-7,874.19	7,874.47	1.23	-0.39	1.17	
14,676.00	90.67	271.26	7,065.05	-80.73	-7,968.14	7,968.41	1.66	1.21	-1.14	
14,771.00	90.37	270.54	7,064.19	-79.24	-8,063.13	8,063.38	0.82	-0.32	-0.76	
14,865.00	89.76	270.90	7,064.08	-78.06	-8,157.12	8,157.37	0.75	-0.65	0.38	
14,960.00	89.50	271.80	7,064.70	-75.82	-8,252.09	8,252.33	0.99	-0.27	0.95	
15,055.00	89.09	271.85	7,065.86	-72.80	-8,347.03	8,347.26	0.43	-0.43	0.05	
15,149.00	89.83	270.49	7,066.75	-70.88	-8,441.01	8,441.23	1.65	0.79	-1.45	
15,243.00	89.66	270.51	7,067.17	-70.06	-8,535.00	8,535.22	0.18	-0.18	0.02	
15,338.00	89.19	270.11	7,068.12	-69.54	-8,630.00	8,630.21	0.65	-0.49	-0.42	
15,433.00	88.68	271.19	7,069.89	-68.46	-8,724.97	8,725.18	1.26	-0.54	1.14	
15,527.00	90.44	270.38	7,070.61	-67.18	-8,818.96	8,819.16	2.06	1.87	-0.86	
15,622.00	90.00	270.17	7,070.24	-66.72	-8,913.95	8,914.15	0.51	-0.46	-0.22	
15,716.00	89.43	269.97	7,070.71	-66.61	-9,007.95	9,008.15	0.64	-0.61	-0.21	
15,810.00	90.91	270.33	7,070.43	-66.36	-9,101.95	9,102.14	1.62	1.57	0.38	
15,905.00	90.51	269.92	7,069.26	-66.15	-9,196.94	9,197.13	0.60	-0.42	-0.43	
16,000.00	90.07	270.17	7,068.78	-66.08	-9,291.94	9,292.13	0.53	-0.46	0.26	
16,094.00	89.43	270.38	7,069.19	-65.63	-9,385.94	9,386.13	0.72	-0.68	0.22	
16,189.00	91.11	272.31	7,068.74	-63.40	-9,480.90	9,481.08	2.69	1.77	2.03	
16,283.00	90.84	272.15	7,067.14	-59.74	-9,574.82	9,574.98	0.33	-0.29	-0.17	
16,378.00	90.44	272.28	7,066.08	-56.07	-9,669.74	9,669.89	0.44	-0.42	0.14	
16,472.00	90.03	273.31	7,065.69	-51.49	-9,763.63	9,763.75	1.18	-0.44	1.10	
16,567.00	89.80	272.79	7,065.83	-46.43	-9,858.49	9,858.60	0.60	-0.24	-0.55	
16,661.00	90.34	269.88	7,065.72	-44.24	-9,952.45	9,952.55	3.15	0.57	-3.10	
16,756.00	90.13	270.61	7,065.33	-43.83	-10,047.45	10,047.55	0.80	-0.22	0.77	
16,850.00	89.50	271.60	7,065.63	-42.02	-10,141.43	10,141.52	1.25	-0.67	1.05	
16,945.00	89.43	269.87	7,066.52	-40.80	-10,236.42	10,236.50	1.82	-0.07	-1.82	

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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)
17,040.00	91.01	269.64	7,066.15	-41.21	-10,331.41	10,331.49	1.68	1.66	-0.24
17,135.00	90.74	269.66	7,064.70	-41.79	-10,426.40	10,426.48	0.28	-0.28	0.02
17,160.00	90.62	269.81	7,064.41	-41.91	-10,451.40	10,451.48	0.77	-0.50	0.59
17160' MD									
17,229.00	90.27	270.21	7,063.87	-41.90	-10,520.40	10,520.48	0.77	-0.50	0.59
17,261.00	90.00	269.19	7,063.80	-42.06	-10,552.39	10,552.48	3.30	-0.84	-3.19
17,327.00	90.00	269.19	7,063.80	-43.00	-10,618.39	10,618.47	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RU 740H SHL	0.00	0.00	0.00	0.00	0.00	2,133,595.07	2,858,361.84	36.8624824	-107.3709251
- actual wellpath hits target center									
- Point									
RU 740H BHL @ 17327'	0.00	0.00	7,063.80	-43.00	-10,618.39	2,133,500.66	2,847,743.81	36.8623588	-107.4072223
- actual wellpath hits target center									
- Point									
RU 740H FPP	0.00	0.00	7,077.00	-53.08	-10,453.61	2,133,491.37	2,847,908.63	36.8623313	-107.4066590
- actual wellpath misses target center by 16.85ft at 17162.12ft MD (7064.38 TVD, -41.91 N, -10453.51 E)									
- Point									
RU 740H PBHL	0.00	0.00	7,077.00	-50.94	-10,623.87	2,133,492.69	2,847,738.37	36.8623370	-107.4072410
- actual wellpath misses target center by 16.35ft at 17327.00ft MD (7063.80 TVD, -43.00 N, -10618.39 E)									
- Point									
RU 740H POE	0.00	0.00	7,088.59	-175.59	-714.45	2,133,416.02	2,857,648.26	36.8620001	-107.3733673
- actual wellpath misses target center by 12.52ft at 7420.07ft MD (7093.07 TVD, -187.27 N, -714.13 E)									
- Point									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
17,160.00	7,064.41	-41.91	-10,451.40	17160' MD

Checked By: _____ Approved By: _____ Date: _____

Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 31

Rosa Unit #740H - Slot A1

OH

Design: OH

Survey Report - Geographic

19 May, 2023

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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 #740H - Slot A1					
Well Position	+N/-S	0.00 ft	Northing:	2,133,595.07 usft	Latitude:	36.8624824
	+E/-W	0.00 ft	Easting:	2,858,361.84 usft	Longitude:	-107.3709251
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)
	HRGM	4/2/2023	8.49	63.28	49,475.98890216

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		269.77

Survey Program	Date	5/19/2023			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
376.00	17,261.00	Survey #1 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
17,327.00	17,327.00	Survey #2 (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	2,133,595.07	2,858,361.84	36.8624824	-107.3709251
376.00	0.68	58.50	375.99	1.17	1.90	2,133,596.24	2,858,363.74	36.8624856	-107.3709186
467.00	0.84	21.80	466.98	2.07	2.61	2,133,597.15	2,858,364.44	36.8624881	-107.3709162
558.00	0.81	21.72	557.97	3.28	3.10	2,133,598.36	2,858,364.92	36.8624915	-107.3709145
649.00	0.83	23.21	648.96	4.49	3.59	2,133,599.57	2,858,365.42	36.8624948	-107.3709128
740.00	2.96	330.98	739.91	7.15	2.71	2,133,602.23	2,858,364.52	36.8625021	-107.3709158
832.00	5.77	307.58	831.64	12.05	-2.10	2,133,607.10	2,858,359.68	36.8625155	-107.3709323
927.00	5.85	286.52	926.17	16.34	-10.53	2,133,611.35	2,858,351.23	36.8625273	-107.3709611
1,018.00	5.27	248.83	1,016.77	16.15	-18.88	2,133,611.12	2,858,342.89	36.8625268	-107.3709896
1,110.00	6.87	211.19	1,108.28	9.91	-25.67	2,133,604.85	2,858,336.12	36.8625097	-107.3710128
1,201.00	6.41	184.10	1,198.70	0.19	-28.85	2,133,595.11	2,858,332.99	36.8624829	-107.3710237

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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	
1,294.00	5.49	167.42	1,291.20	-9.34	-28.26	2,133,585.59	2,858,333.63	36.8624568	-107.3710217	
1,387.00	3.98	154.26	1,383.88	-16.59	-25.88	2,133,578.36	2,858,336.04	36.8624369	-107.3710136	
1,482.00	2.09	127.90	1,478.75	-20.62	-23.09	2,133,574.33	2,858,338.86	36.8624258	-107.3710040	
1,577.00	1.46	118.88	1,573.70	-22.27	-20.66	2,133,572.70	2,858,341.29	36.8624213	-107.3709957	
1,672.00	2.33	153.26	1,668.65	-24.58	-18.73	2,133,570.40	2,858,343.23	36.8624149	-107.3709891	
1,766.00	2.86	165.44	1,762.56	-28.55	-17.28	2,133,566.43	2,858,344.70	36.8624040	-107.3709842	
1,860.00	3.16	172.28	1,856.43	-33.39	-16.34	2,133,561.60	2,858,345.66	36.8623907	-107.3709809	
1,955.00	1.93	160.39	1,951.33	-37.49	-15.45	2,133,557.50	2,858,346.57	36.8623795	-107.3709779	
2,050.00	0.92	237.63	2,046.31	-39.41	-15.56	2,133,555.58	2,858,346.47	36.8623742	-107.3709783	
2,144.00	1.49	289.43	2,140.29	-39.41	-17.35	2,133,555.58	2,858,344.68	36.8623742	-107.3709844	
2,239.00	1.76	290.87	2,235.25	-38.48	-19.88	2,133,556.49	2,858,342.15	36.8623768	-107.3709930	
2,333.00	2.51	273.92	2,329.19	-37.82	-23.28	2,133,557.13	2,858,338.74	36.8623786	-107.3710047	
2,428.00	3.31	245.08	2,424.07	-38.83	-27.84	2,133,556.10	2,858,334.19	36.8623758	-107.3710203	
2,523.00	2.80	218.08	2,518.94	-41.82	-31.76	2,133,553.10	2,858,330.28	36.8623676	-107.3710337	
2,617.00	3.36	203.77	2,612.80	-46.14	-34.29	2,133,548.76	2,858,327.78	36.8623557	-107.3710423	
2,712.00	4.23	199.10	2,707.60	-52.00	-36.56	2,133,542.89	2,858,325.54	36.8623396	-107.3710501	
2,806.00	4.89	186.78	2,801.30	-59.26	-38.17	2,133,535.62	2,858,323.96	36.8623197	-107.3710555	
2,901.00	4.94	188.60	2,895.95	-67.32	-39.26	2,133,527.55	2,858,322.91	36.8622975	-107.3710593	
2,995.00	3.78	209.33	2,989.68	-74.03	-41.38	2,133,520.84	2,858,320.82	36.8622791	-107.3710665	
3,090.00	3.78	230.81	3,084.48	-78.74	-45.34	2,133,516.11	2,858,316.89	36.8622662	-107.3710801	
3,183.00	2.97	229.67	3,177.32	-82.23	-49.55	2,133,512.60	2,858,312.69	36.8622566	-107.3710945	
3,278.00	2.53	216.59	3,272.21	-85.51	-52.68	2,133,509.30	2,858,309.58	36.8622476	-107.3711052	
3,372.00	2.17	196.83	3,366.13	-88.88	-54.43	2,133,505.93	2,858,307.84	36.8622383	-107.3711111	
3,467.00	1.59	191.87	3,461.08	-91.89	-55.22	2,133,502.91	2,858,307.07	36.8622300	-107.3711139	
3,562.00	1.51	199.69	3,556.05	-94.36	-55.92	2,133,500.44	2,858,306.39	36.8622233	-107.3711162	
3,656.00	1.81	197.32	3,650.01	-96.94	-56.77	2,133,497.85	2,858,305.54	36.8622162	-107.3711192	
3,750.00	1.76	202.03	3,743.96	-99.70	-57.76	2,133,495.09	2,858,304.57	36.8622086	-107.3711225	
3,845.00	1.68	212.03	3,838.92	-102.23	-59.04	2,133,492.55	2,858,303.30	36.8622016	-107.3711269	
3,940.00	1.30	206.58	3,933.89	-104.37	-60.26	2,133,490.40	2,858,302.08	36.8621958	-107.3711311	
4,034.00	1.45	170.89	4,027.86	-106.50	-60.55	2,133,488.27	2,858,301.81	36.8621899	-107.3711321	
4,130.00	1.08	174.30	4,123.84	-108.60	-60.27	2,133,486.17	2,858,302.10	36.8621841	-107.3711311	
4,224.00	0.73	173.46	4,217.83	-110.08	-60.11	2,133,484.70	2,858,302.26	36.8621801	-107.3711306	
4,319.00	0.67	160.99	4,312.82	-111.20	-59.86	2,133,483.57	2,858,302.52	36.8621770	-107.3711297	
4,413.00	2.01	216.73	4,406.79	-113.04	-60.67	2,133,481.73	2,858,301.72	36.8621719	-107.3711325	
4,508.00	1.96	228.16	4,501.74	-115.46	-62.88	2,133,479.30	2,858,299.52	36.8621653	-107.3711400	
4,602.00	1.38	210.17	4,595.70	-117.51	-64.65	2,133,477.24	2,858,297.77	36.8621597	-107.3711461	
4,697.00	1.05	208.05	4,690.68	-119.27	-65.63	2,133,475.48	2,858,296.79	36.8621548	-107.3711494	
4,791.00	0.71	206.51	4,784.66	-120.55	-66.29	2,133,474.19	2,858,296.13	36.8621513	-107.3711517	
4,886.00	2.13	227.58	4,879.63	-122.27	-67.86	2,133,472.47	2,858,294.58	36.8621466	-107.3711571	
4,980.00	3.16	243.00	4,973.53	-124.62	-71.46	2,133,470.10	2,858,290.99	36.8621401	-107.3711694	
5,075.00	3.11	248.70	5,068.39	-126.75	-76.19	2,133,467.95	2,858,286.27	36.8621343	-107.3711855	
5,169.00	2.95	250.59	5,162.26	-128.48	-80.85	2,133,466.20	2,858,281.62	36.8621295	-107.3712015	
5,264.00	2.08	233.96	5,257.17	-130.31	-84.55	2,133,464.35	2,858,277.93	36.8621245	-107.3712141	
5,359.00	2.24	208.09	5,352.10	-132.96	-86.82	2,133,461.69	2,858,275.67	36.8621172	-107.3712219	
5,485.00	2.39	187.14	5,478.00	-137.74	-88.30	2,133,456.90	2,858,274.21	36.8621041	-107.3712269	
5,515.00	2.39	182.65	5,507.98	-138.98	-88.41	2,133,455.66	2,858,274.11	36.8621007	-107.3712273	
5,578.00	2.37	183.61	5,570.92	-141.60	-88.55	2,133,453.04	2,858,273.98	36.8620935	-107.3712278	
5,641.00	2.47	175.39	5,633.87	-144.25	-88.53	2,133,450.39	2,858,274.02	36.8620862	-107.3712277	
5,704.00	2.13	172.22	5,696.82	-146.76	-88.26	2,133,447.88	2,858,274.30	36.8620793	-107.3712268	
5,767.00	1.71	166.52	5,759.78	-148.84	-87.88	2,133,445.81	2,858,274.68	36.8620736	-107.3712255	
5,830.00	1.46	175.55	5,822.76	-150.55	-87.60	2,133,444.09	2,858,274.97	36.8620689	-107.3712245	
5,893.00	0.91	213.20	5,885.74	-151.77	-87.81	2,133,442.87	2,858,274.77	36.8620656	-107.3712252	
5,956.00	1.01	268.78	5,948.74	-152.20	-88.64	2,133,442.44	2,858,273.94	36.8620644	-107.3712281	
6,019.00	1.18	264.24	6,011.72	-152.28	-89.84	2,133,442.36	2,858,272.74	36.8620642	-107.3712322	
6,082.00	1.04	262.21	6,074.71	-152.42	-91.05	2,133,442.21	2,858,271.53	36.8620638	-107.3712363	

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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	
6,145.00	1.11	220.58	6,137.70	-152.96	-92.02	2,133,441.66	2,858,270.57	36.8620623	-107.3712396	
6,208.00	0.80	228.99	6,200.69	-153.71	-92.74	2,133,440.91	2,858,269.84	36.8620602	-107.3712421	
6,271.00	1.29	219.48	6,263.68	-154.55	-93.53	2,133,440.07	2,858,269.06	36.8620579	-107.3712448	
6,387.00	1.58	216.71	6,379.65	-156.84	-95.31	2,133,437.77	2,858,267.29	36.8620516	-107.3712509	
6,452.00	2.75	222.02	6,444.60	-158.72	-96.89	2,133,435.88	2,858,265.72	36.8620465	-107.3712563	
6,547.00	12.46	244.90	6,538.66	-164.77	-107.73	2,133,429.78	2,858,254.92	36.8620299	-107.3712933	
6,641.00	20.80	259.08	6,628.69	-172.25	-133.35	2,133,422.17	2,858,229.33	36.8620093	-107.3713809	
6,735.00	29.48	263.91	6,713.71	-177.88	-172.82	2,133,416.35	2,858,189.89	36.8619939	-107.3715158	
6,830.00	37.32	266.97	6,792.96	-181.89	-224.91	2,133,412.09	2,858,137.82	36.8619828	-107.3716939	
6,924.00	44.60	267.16	6,863.90	-185.03	-286.40	2,133,408.65	2,858,076.34	36.8619742	-107.3719041	
7,019.00	51.29	268.84	6,927.50	-187.44	-356.86	2,133,405.90	2,858,005.90	36.8619676	-107.3721449	
7,113.00	53.25	269.25	6,985.02	-188.67	-431.19	2,133,404.31	2,857,931.58	36.8619642	-107.3723990	
7,207.00	62.11	270.94	7,035.23	-188.48	-510.54	2,133,404.11	2,857,852.22	36.8619647	-107.3726703	
7,302.00	73.44	271.01	7,071.11	-186.99	-598.33	2,133,405.18	2,857,764.43	36.8619688	-107.3729703	
7,397.00	82.85	269.06	7,090.60	-186.96	-691.19	2,133,404.76	2,857,671.57	36.8619689	-107.3732878	
7,491.00	91.11	270.29	7,095.55	-187.49	-784.97	2,133,403.78	2,857,577.79	36.8619674	-107.3736084	
7,586.00	89.49	271.16	7,095.06	-186.28	-879.96	2,133,404.52	2,857,482.80	36.8619707	-107.3739331	
7,680.00	89.09	270.07	7,096.22	-185.28	-973.95	2,133,405.08	2,857,388.81	36.8619735	-107.3742543	
7,774.00	89.46	271.92	7,097.41	-183.64	-1,067.92	2,133,406.25	2,857,294.82	36.8619780	-107.3745756	
7,868.00	88.92	271.87	7,098.74	-180.54	-1,161.86	2,133,408.91	2,857,200.87	36.8619865	-107.3748967	
7,963.00	90.40	270.47	7,099.30	-178.60	-1,256.83	2,133,410.39	2,857,105.89	36.8619918	-107.3752213	
8,057.00	90.13	270.99	7,098.87	-177.40	-1,350.83	2,133,411.13	2,857,011.90	36.8619951	-107.3755426	
8,152.00	91.18	270.22	7,097.78	-176.39	-1,445.81	2,133,411.67	2,856,916.91	36.8619978	-107.3758673	
8,247.00	90.91	269.72	7,096.05	-176.44	-1,540.80	2,133,411.16	2,856,821.92	36.8619977	-107.3761920	
8,341.00	90.81	269.39	7,094.64	-177.17	-1,634.78	2,133,409.98	2,856,727.94	36.8619957	-107.3765133	
8,436.00	91.75	270.59	7,092.52	-177.19	-1,729.76	2,133,409.50	2,856,632.97	36.8619956	-107.3768379	
8,530.00	90.44	271.08	7,090.72	-175.82	-1,823.73	2,133,410.42	2,856,538.99	36.8619993	-107.3771592	
8,625.00	90.27	271.20	7,090.13	-173.93	-1,918.71	2,133,411.85	2,856,444.01	36.8620045	-107.3774838	
8,720.00	90.27	270.81	7,089.68	-172.27	-2,013.69	2,133,413.05	2,856,349.02	36.8620091	-107.3778085	
8,814.00	90.13	270.14	7,089.35	-171.49	-2,107.68	2,133,413.38	2,856,255.02	36.8620112	-107.3781298	
8,909.00	89.50	270.36	7,089.66	-171.07	-2,202.68	2,133,413.33	2,856,160.02	36.8620123	-107.3784546	
9,004.00	89.12	269.77	7,090.81	-170.96	-2,297.68	2,133,412.98	2,856,065.03	36.8620126	-107.3787793	
9,098.00	89.93	272.30	7,091.59	-169.27	-2,391.65	2,133,414.22	2,855,971.05	36.8620172	-107.3791005	
9,192.00	91.51	272.32	7,090.40	-165.48	-2,485.56	2,133,417.56	2,855,877.12	36.8620276	-107.3794215	
9,287.00	90.91	270.99	7,088.40	-162.73	-2,580.50	2,133,419.84	2,855,782.17	36.8620351	-107.3797460	
9,382.00	90.61	270.83	7,087.14	-161.23	-2,675.48	2,133,420.89	2,855,687.18	36.8620392	-107.3800707	
9,476.00	90.64	270.20	7,086.11	-160.38	-2,769.47	2,133,421.28	2,855,593.19	36.8620415	-107.3803920	
9,571.00	90.88	272.08	7,084.85	-158.49	-2,864.44	2,133,422.71	2,855,498.21	36.8620467	-107.3807166	
9,665.00	90.71	270.81	7,083.55	-156.12	-2,958.40	2,133,424.62	2,855,404.24	36.8620532	-107.3810378	
9,760.00	90.50	271.31	7,082.54	-154.36	-3,053.37	2,133,425.92	2,855,309.26	36.8620580	-107.3813625	
9,854.00	91.11	272.34	7,081.22	-151.37	-3,147.32	2,133,428.46	2,855,215.30	36.8620662	-107.3816836	
9,949.00	90.74	271.81	7,079.69	-147.93	-3,242.24	2,133,431.44	2,855,120.36	36.8620756	-107.3820081	
10,044.00	90.44	271.79	7,078.71	-144.95	-3,337.19	2,133,433.96	2,855,025.40	36.8620838	-107.3823327	
10,138.00	90.24	271.48	7,078.15	-142.27	-3,431.15	2,133,436.19	2,854,931.43	36.8620911	-107.3826539	
10,233.00	90.07	272.34	7,077.90	-139.10	-3,526.09	2,133,438.90	2,854,836.47	36.8620998	-107.3829784	
10,327.00	89.87	270.99	7,077.95	-136.37	-3,620.05	2,133,441.17	2,854,742.50	36.8621072	-107.3832996	
10,421.00	89.36	271.46	7,078.58	-134.36	-3,714.03	2,133,442.73	2,854,648.52	36.8621127	-107.3836208	
10,516.00	90.57	271.94	7,078.64	-131.54	-3,808.98	2,133,445.08	2,854,553.55	36.8621204	-107.3839454	
10,610.00	90.24	272.17	7,077.97	-128.17	-3,902.92	2,133,448.00	2,854,459.60	36.8621296	-107.3842665	
10,705.00	90.10	272.15	7,077.69	-124.59	-3,997.85	2,133,451.12	2,854,364.65	36.8621394	-107.3845910	
10,799.00	89.90	272.12	7,077.69	-121.09	-4,091.79	2,133,454.17	2,854,270.70	36.8621490	-107.3849121	
10,894.00	91.04	270.92	7,076.91	-118.57	-4,186.75	2,133,456.23	2,854,175.73	36.8621559	-107.3852367	
10,988.00	90.64	271.75	7,075.53	-116.38	-4,280.71	2,133,457.96	2,854,081.75	36.8621619	-107.3855579	
11,083.00	90.13	270.97	7,074.89	-114.12	-4,375.68	2,133,459.76	2,853,986.77	36.8621680	-107.3858826	
11,177.00	90.54	269.68	7,074.34	-113.59	-4,469.68	2,133,459.84	2,853,892.78	36.8621695	-107.3862039	

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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
11,272.00	90.30	269.53	7,073.65	-114.24	-4,564.67	2,133,458.72	2,853,797.79	36.8621676	-107.3865286
11,367.00	90.10	270.51	7,073.32	-114.21	-4,659.67	2,133,458.29	2,853,702.79	36.8621677	-107.3868534
11,461.00	90.88	270.41	7,072.51	-113.46	-4,753.66	2,133,458.59	2,853,608.80	36.8621697	-107.3871746
11,556.00	90.64	271.35	7,071.25	-112.00	-4,848.64	2,133,459.59	2,853,513.81	36.8621737	-107.3874993
11,650.00	90.17	270.65	7,070.59	-110.36	-4,942.62	2,133,460.78	2,853,419.82	36.8621781	-107.3878206
11,744.00	89.93	270.89	7,070.51	-109.09	-5,036.61	2,133,461.59	2,853,325.83	36.8621815	-107.3881419
11,839.00	89.70	270.74	7,070.81	-107.74	-5,131.60	2,133,462.48	2,853,230.83	36.8621852	-107.3884666
11,934.00	89.33	271.45	7,071.62	-105.93	-5,226.58	2,133,463.83	2,853,135.84	36.8621901	-107.3887913
12,028.00	90.84	270.86	7,071.48	-104.03	-5,320.56	2,133,465.27	2,853,041.86	36.8621953	-107.3891125
12,123.00	90.10	270.72	7,070.70	-102.72	-5,415.55	2,133,466.12	2,852,946.87	36.8621988	-107.3894372
12,217.00	89.83	270.03	7,070.76	-102.11	-5,509.55	2,133,466.28	2,852,852.87	36.8622005	-107.3897585
12,312.00	89.33	270.48	7,071.45	-101.69	-5,604.54	2,133,466.25	2,852,757.87	36.8622016	-107.3900832
12,406.00	89.93	269.65	7,072.06	-101.58	-5,698.54	2,133,465.90	2,852,663.87	36.8622018	-107.3904046
12,501.00	89.56	269.51	7,072.48	-102.28	-5,793.53	2,133,464.74	2,852,568.88	36.8621999	-107.3907293
12,596.00	90.67	270.10	7,072.29	-102.60	-5,888.53	2,133,463.96	2,852,473.89	36.8621989	-107.3910540
12,690.00	90.54	271.05	7,071.30	-101.66	-5,982.52	2,133,464.45	2,852,379.90	36.8622015	-107.3913753
12,785.00	90.24	271.23	7,070.65	-99.77	-6,077.50	2,133,465.88	2,852,284.91	36.8622066	-107.3917000
12,879.00	90.00	271.38	7,070.46	-97.62	-6,171.47	2,133,467.56	2,852,190.93	36.8622124	-107.3920212
12,974.00	89.36	270.68	7,070.99	-95.92	-6,266.46	2,133,468.81	2,852,095.94	36.8622170	-107.3923459
13,069.00	90.98	271.39	7,070.70	-94.20	-6,361.44	2,133,470.07	2,852,000.95	36.8622217	-107.3926706
13,163.00	90.64	270.43	7,069.37	-92.71	-6,455.41	2,133,471.10	2,851,906.97	36.8622257	-107.3929918
13,258.00	90.50	270.31	7,068.43	-92.09	-6,550.41	2,133,471.26	2,851,811.97	36.8622274	-107.3933165
13,353.00	90.47	269.40	7,067.63	-92.34	-6,645.40	2,133,470.56	2,851,716.98	36.8622266	-107.3936413
13,447.00	90.34	269.00	7,066.96	-93.65	-6,739.39	2,133,468.79	2,851,623.00	36.8622230	-107.3939625
13,542.00	90.03	269.66	7,066.65	-94.76	-6,834.38	2,133,467.22	2,851,528.01	36.8622199	-107.3942873
13,636.00	89.70	269.65	7,066.88	-95.32	-6,928.38	2,133,466.20	2,851,434.02	36.8622182	-107.3946086
13,731.00	89.66	269.88	7,067.41	-95.71	-7,023.38	2,133,465.35	2,851,339.02	36.8622171	-107.3949333
13,825.00	89.60	269.36	7,068.01	-96.34	-7,117.38	2,133,464.27	2,851,245.03	36.8622153	-107.3952546
13,920.00	90.91	270.62	7,067.59	-96.35	-7,212.37	2,133,463.79	2,851,150.04	36.8622152	-107.3955793
14,014.00	90.64	270.71	7,066.32	-95.26	-7,306.36	2,133,464.43	2,851,056.05	36.8622181	-107.3959006
14,109.00	89.97	270.30	7,065.81	-94.43	-7,401.35	2,133,464.80	2,850,961.05	36.8622204	-107.3962253
14,203.00	89.43	270.55	7,066.31	-93.73	-7,495.35	2,133,465.05	2,850,867.05	36.8622222	-107.3965466
14,298.00	90.81	271.55	7,066.11	-91.99	-7,590.33	2,133,466.33	2,850,772.07	36.8622269	-107.3968713
14,393.00	90.47	271.87	7,065.05	-89.15	-7,685.28	2,133,468.70	2,850,677.10	36.8622346	-107.3971959
14,487.00	89.90	271.22	7,064.74	-86.62	-7,779.24	2,133,470.78	2,850,583.13	36.8622415	-107.3975171
14,582.00	89.53	272.33	7,065.21	-83.68	-7,874.19	2,133,473.26	2,850,488.16	36.8622495	-107.3978417
14,676.00	90.67	271.26	7,065.05	-80.73	-7,968.14	2,133,475.75	2,850,394.20	36.8622576	-107.3981628
14,771.00	90.37	270.54	7,064.19	-79.24	-8,063.13	2,133,476.79	2,850,299.21	36.8622616	-107.3984875
14,865.00	89.76	270.90	7,064.08	-78.06	-8,157.12	2,133,477.51	2,850,205.21	36.8622648	-107.3988088
14,960.00	89.50	271.80	7,064.70	-75.82	-8,252.09	2,133,479.29	2,850,110.23	36.8622708	-107.3991335
15,055.00	89.09	271.85	7,065.86	-72.80	-8,347.03	2,133,481.86	2,850,015.28	36.8622791	-107.3994580
15,149.00	89.83	270.49	7,066.75	-70.88	-8,441.01	2,133,483.32	2,849,921.29	36.8622843	-107.3997793
15,243.00	89.66	270.51	7,067.17	-70.06	-8,535.00	2,133,483.69	2,849,827.30	36.8622864	-107.4001006
15,338.00	89.19	270.11	7,068.12	-69.54	-8,630.00	2,133,483.74	2,849,732.30	36.8622878	-107.4004253
15,433.00	88.68	271.19	7,069.89	-68.46	-8,724.97	2,133,484.36	2,849,637.32	36.8622906	-107.4007499
15,527.00	90.44	270.38	7,070.61	-67.18	-8,818.96	2,133,485.19	2,849,543.33	36.8622941	-107.4010712
15,622.00	90.00	270.17	7,070.24	-66.72	-8,913.95	2,133,485.19	2,849,448.33	36.8622953	-107.4013960
15,716.00	89.43	269.97	7,070.71	-66.61	-9,007.95	2,133,484.85	2,849,354.34	36.8622955	-107.4017173
15,810.00	90.91	270.33	7,070.43	-66.36	-9,101.95	2,133,484.64	2,849,260.34	36.8622961	-107.4020386
15,905.00	90.51	269.92	7,069.26	-66.15	-9,196.94	2,133,484.38	2,849,165.35	36.8622966	-107.4023633
16,000.00	90.07	270.17	7,068.78	-66.08	-9,291.94	2,133,484.00	2,849,070.35	36.8622967	-107.4026880
16,094.00	89.43	270.38	7,069.19	-65.63	-9,385.94	2,133,483.99	2,848,976.35	36.8622978	-107.4030094
16,189.00	91.11	272.31	7,068.74	-63.40	-9,480.90	2,133,485.76	2,848,881.38	36.8623039	-107.4033340
16,283.00	90.84	272.15	7,067.14	-59.74	-9,574.82	2,133,488.97	2,848,787.45	36.8623138	-107.4036550
16,378.00	90.44	272.28	7,066.08	-56.07	-9,669.74	2,133,492.18	2,848,692.51	36.8623238	-107.4039795

Survey Report - Geographic

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #740H - Slot A1
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 #740H	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
16,472.00	90.03	273.31	7,065.69	-51.49	-9,763.63	2,133,496.31	2,848,598.60	36.8623363	-107.4043004
16,567.00	89.80	272.79	7,065.83	-46.43	-9,858.49	2,133,500.90	2,848,503.71	36.8623501	-107.4046247
16,661.00	90.34	269.88	7,065.72	-44.24	-9,952.45	2,133,502.64	2,848,409.74	36.8623560	-107.4049459
16,756.00	90.13	270.61	7,065.33	-43.83	-10,047.45	2,133,502.58	2,848,314.74	36.8623571	-107.4052707
16,850.00	89.50	271.60	7,065.63	-42.02	-10,141.43	2,133,503.94	2,848,220.75	36.8623620	-107.4055919
16,945.00	89.43	269.87	7,066.52	-40.80	-10,236.42	2,133,504.70	2,848,125.76	36.8623652	-107.4059166
17,040.00	91.01	269.64	7,066.15	-41.21	-10,331.41	2,133,503.83	2,848,030.77	36.8623640	-107.4062413
17,135.00	90.74	269.66	7,064.70	-41.79	-10,426.40	2,133,502.79	2,847,935.79	36.8623623	-107.4065660
17,160.00	90.62	269.81	7,064.41	-41.91	-10,451.40	2,133,502.56	2,847,910.79	36.8623620	-107.4066515
17160' MD									
17,229.00	90.27	270.21	7,063.87	-41.90	-10,520.40	2,133,502.23	2,847,841.79	36.8623619	-107.4068873
17,261.00	90.00	269.19	7,063.80	-42.06	-10,552.39	2,133,501.91	2,847,809.80	36.8623614	-107.4069967
17,327.00	90.00	269.19	7,063.80	-43.00	-10,618.39	2,133,500.66	2,847,743.81	36.8623588	-107.4072223

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RU 740H SHL	0.00	0.00	0.00	0.00	0.00	2,133,595.07	2,858,361.84	36.8624824	-107.3709251
- actual wellpath hits target center									
- Point									
RU 740H BHL @ 17327'	0.00	0.00	7,063.80	-43.00	-10,618.39	2,133,500.66	2,847,743.81	36.8623588	-107.4072223
- actual wellpath hits target center									
- Point									
RU 740H FPP	0.00	0.00	7,077.00	-53.08	-10,453.61	2,133,491.37	2,847,908.63	36.8623313	-107.4066590
- actual wellpath misses target center by 16.85ft at 17162.12ft MD (7064.38 TVD, -41.91 N, -10453.51 E)									
- Point									
RU 740H PBHL	0.00	0.00	7,077.00	-50.94	-10,623.87	2,133,492.69	2,847,738.37	36.8623370	-107.4072410
- actual wellpath misses target center by 16.35ft at 17327.00ft MD (7063.80 TVD, -43.00 N, -10618.39 E)									
- Point									
RU 740H POE	0.00	0.00	7,088.59	-175.59	-714.45	2,133,416.02	2,857,648.26	36.8620001	-107.3733673
- actual wellpath misses target center by 12.52ft at 7420.07ft MD (7093.07 TVD, -187.27 N, -714.13 E)									
- Point									

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
17,160.00	7,064.41	-41.91	-10,451.40	17160' MD	

Checked By: _____	Approved By: _____	Date: _____
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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) 319' FNL 1681' FWL

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

8. Well Name and No.
ROSA UNIT 740H9. API Well No.
30-039-3136410. 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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Completions	
☐ Final Abandonment Notice	☐ 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 recompleat 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 recompleat 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 @ 4720'). RDMO

8/11 - 8/13/2023 - RU to open toe sleeves. No success. Bleed pressure off WH. SIW.

8/24 - 8/26/2023 - RIH w/tractor and RCB for clean out. CO to 17,064'. 3 failed attempts to open sleeves @ 17,108' & 17,159'. MU perf assembly. PT to 5000psi. Good test. Stage 1 Perf @ 16,495' to 16,340' w/6 SPF, 60 phasing, 0.38" Dia. Total of 48 perfs. TOO H w/tractor and gun assembly. Perform injection test.

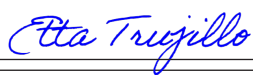
9/11 - 9/12/2023 - Frac'd stage 1 w/472,627 lbs Proppant, 100mesh Ottawa 40/70 sand, 12,367bbl slickwater. Replace ring gasket. ND frac stack to replace the hydraulic master valve.

9/13 - 10/01/2023 - Perf intervals @ 16,310' - 7,420' w/6 SPF, .38" Dia, 60 phasing, Total of 1,984 perfs.. Frac'd w/22,613,813 lbs Proppant, 100mesh & Ottawa 40/70 sand, 593,949 slickwater. RDMO Frac. Prep for CTU drillout operations.

10/2 - 10/4/2022 - MIRU CTU. NU BOP. Good test. RIH w/2-3/8" CT and drillout BHA. DO kill plug @ 7,390'. Circulate, CO & continue to DO composite frac plugs. POOH w/2-3/8" CT and drill out BHA. ND frac stack and moved to Rosa Unit 744H.

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.

(Instructions on page 2)

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)	
Etta Trujillo	Title Regulatory Specialist
Signature 	Date 11/20/2023

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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

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 ☐ Other

2. Name of Operator

LOGOS OPERATING, LLC

3a. Address 2010 AFTON PLACE
FARMINGTON, NM 874013b. Phone No. (include area code)
(505) 278-8720

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

NMNM78407E

8. Well Name and No.

ROSA UNIT 740H

9. API Well No.

30-039-31364

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEC 33 T31N R05W NENW (C) 319' FNL 1681' FWL

10. Field and Pool or Exploratory Area

BASIN MANCOS

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	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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: 10/17/2023

TP: 0 CP: 2122

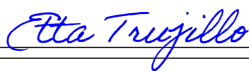
Initial MCF: 401 MCF

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)

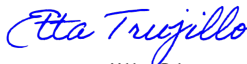
From: blm-afmss-notifications@blm.gov
To: [Etta Trujillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 740H, Notification of Well Completion Acceptance
Date: Tuesday, November 21, 2023 2:22:29 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **740H**
- US Well Number: **3003931364**
- Well Completion Report Id: **WCR2023112190262**

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: 740H		
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		319'	FNL	1681'	FWL	RIO ARRIBA
BH:	C	31	31N	R05W	1	363'	FNL	165'	FWL	RIO ARRIBA
13. Date Spudded 8/25/2021	14. Date T.D. Reached 5/19/2023		15. Date Rig Released 5/22/2023		16. Date Completed (Ready to Produce) 10/4/2023			17. Elevations (DF and RKB, RT, GR, etc.) 6492'		
18. Total Measured Depth of Well 17,327' MD / 7,064' TVD			19. Plug Back Measured Depth 17,066' MD / 7,064' 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 (7093' – 7064') TVD										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5#		331' (GL)		17-1/2"		190 sks		Circ 7bbls to surface
9-5/8"		47.0#		6368'		12-1/2"		2993 sks		76bbls (DV@ 3233', 4825')
5-1/2"		20.0#		17,297'		8-1/2"		2424 sks		TOC @ 4720' (CBL)
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD		SIZE		DEPTH SET
						Pending				
26. Perforation record (interval, size, and number)					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
16,495' MD to 7,420' MD, 0.38" , 6SPF, 2032 total holes					DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED			
					16,495' MD - 7,420' MD		Frac'd 49 stages of 23,086,440lb Proppant, 100# mesh & 40/70 Ottawa sand. 606,316bbls of slickwater.			
28. PRODUCTION										
Date First Production		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)				Well Status (<i>Prod. or Shut-in</i>)				
10/17/2023		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
10/17/2023	12hrs	14/64		n/a	401 mcf	288 bbls	n/a			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)				
n/a	2122		n/a	1788 mcf	288 bbls	n/a				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>)							30. Test Witnessed By			
SOLD										
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		11/21/2023
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 2681	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2810	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 3157	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs 3564	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5587	T. Leadville
T. Queen	T. Silurian	T. Menefee 5615	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5826	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6299	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

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

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

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

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

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

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

From	To	Thickness In Feet	Lithology

From: blm-afmss-notifications@blm.gov
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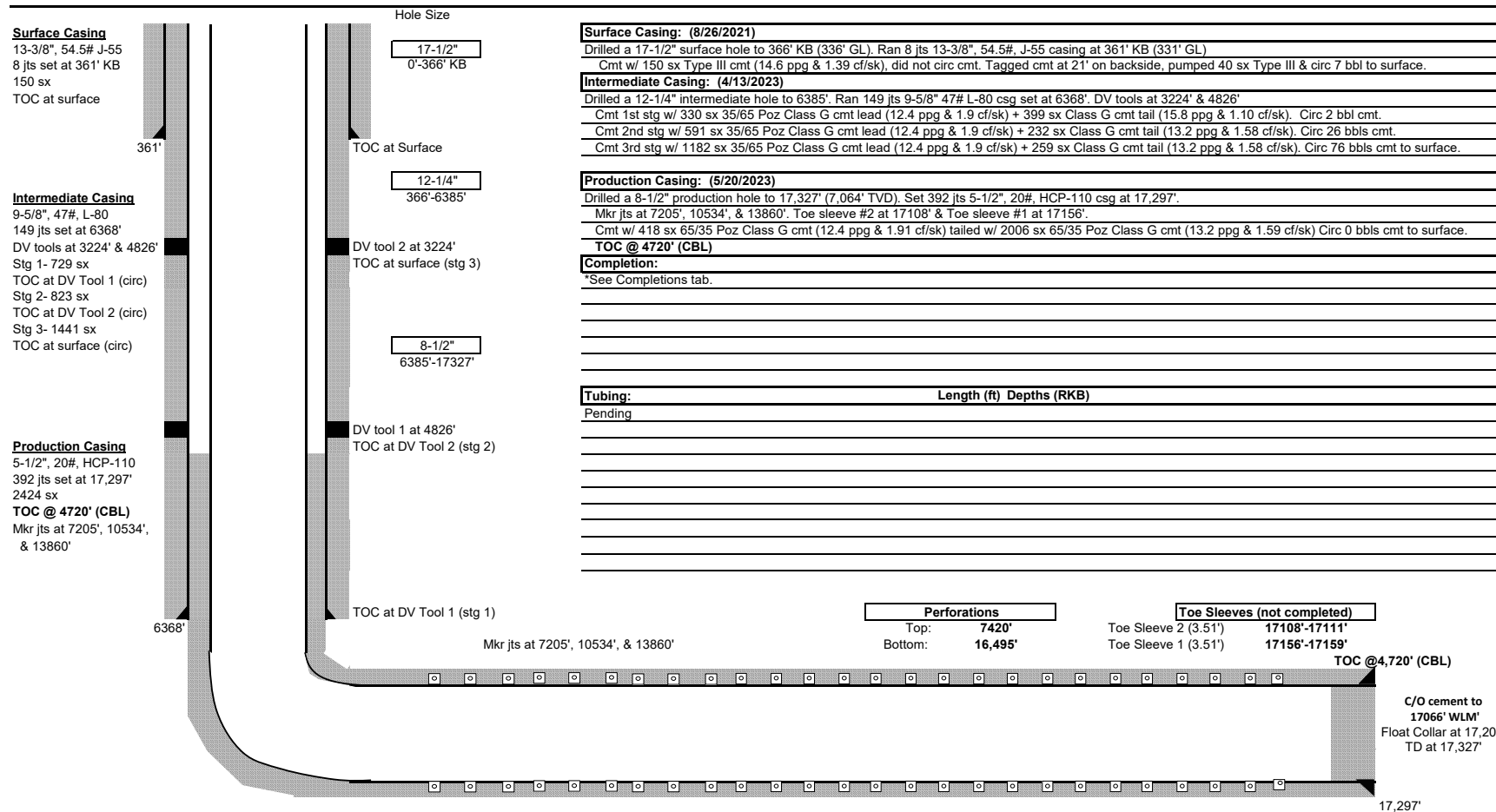
This notification is automatically generated. Please do not reply to this message as this account is not monitored.



Well Name: Rosa Unit 740H
 Location: C - Sec 33, T31N, R05W, 319' FNL, 1681' FWL
 County: Rio Arriba, NM
 API #: 30-039-31364
 Co-ordinates: 36.862483, -107.370925 NAD83
 Operator: LOGOS Operating, LLC

Wellbore Schematic
 Ground Elevation: 6492'
 KB Elevation: 6522'
 TD (TVD): 7064'
 TD (MD): 17,327'
 PBTD (MD): 17,066'

Prepared By: 6/15/2023 Moss
 Reviewed By: 7/12/2023 chr
 Last Updated: 11/20/2023 Peace
 Spud Date: 8/25/2021
 Completion Date:
 Last Workover Date:



Formation Tops: (MD)			
Nacimiento	Surface	Cliff House	5587'
Ojo Alamo	2681'	Menefee	5615'
Kirtland	2810'	Point Lookout	5826'
Fruitland	3157'	Mancos	6299'
Pictured Cliffs	3564'	Black Top	7010'
Lewis	3677'	Target Top	7314'
Chacra	4757'		

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 294851

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 294851
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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

CONDITIONS

Action 294851

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 294851
	Action Type: [C-104] Tight Hole Completion Packet (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	1/25/2024