

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 Revised July 9, 2024 Submit Electronically Via OCD Permitting
--	---	---

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**Section 1 - Operator and Well Information**

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: LOGOS OPERATING, LLC	OGRID: 289408
Property Name and Well Number: ROSA UNIT 704H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31442
Pool Name: BASIN MANCOS	Pool Code: 97232

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	7	31N	5W		2592' FSL	1308' FEL	36.913904	-107.399208	Rio Arriba

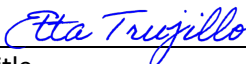
Section 3 – Completion Information

Producing Method Flowing	Ready Date 10/17/2024	Perforations MD 7314' – 20,713'	Perforations TVD 6954' – 6927'
-----------------------------	--------------------------	------------------------------------	-----------------------------------

Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW): 386920	Communitization Agreement ☒ Yes ☐ No, Order No. NMNM078407E
Surface Casing Action ID: 335999	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 341686	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: 365434	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 368576	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID: N/A	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name 	
Title Regulatory Specialist II	Date 11/19/2024



Request for Confidential "Tight Hole" Status

LOGOS Operating, LLC
Rosa Unit 704H
API# 30-039-31442
I Section 7 T31N R05W
Rio Arriba County, New Mexico

Per 19.15.7.16 (C) of the New Mexico Administrative Code (NMAC) regarding the *Well Completion or Recompletion Report and Log (Form C-105)*, LOGOS Operating, LLC respectfully requests the Division to maintain the confidentiality of Form C-105 and all associated documentation as of 10/17/2024 for a period of 90 days following the acceptance of the referenced documents.

Sincerely,



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

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type	☐ Initial Submittal
			☐ Amended Report
		☒ As Drilled	

WELL LOCATION INFORMATION

API Number 30-039-31442	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 704H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC	Ground Level Elevation 6295'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL I	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 2592' SOUTH	Feet from E/W Line 1308' EAST	Latitude 36.913904 °N	Longitude -107.399208 °W	County RIO ARriba
---------	--------------	-----------------	-------------	-----	-----------------------------------	----------------------------------	--------------------------	-----------------------------	----------------------

Bottom Hole Location

UL G	Section 10	Township 31N	Range 5W	Lot	Feet from N/S Line 1992' NORTH	Feet from E/W Line 2616' EAST	Latitude 36.915750 °N	Longitude -107.349601 °W	County RIO ARriba
---------	---------------	-----------------	-------------	-----	-----------------------------------	----------------------------------	--------------------------	-----------------------------	----------------------

Dedicated Acres 1191.86	Penetrated Spacing Unit: N/2 - Sections 7, 8, 9 & 10	Infill or Defining Well Infill	Defining Well API	Overlapping Spacing Unit ☐ Yes ☒ No	Consolidation Code Unitization
Order Numbers R-13457			Well setbacks are under Common Ownership: ☐ Yes ☒ No		

Kick Off Point (KOP)

UL H	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 1974' NORTH	Feet from E/W Line 1033' EAST	Latitude 36.915837 °N	Longitude -107.398270 °W	County RIO ARriba
---------	--------------	-----------------	-------------	-----	-----------------------------------	----------------------------------	--------------------------	-----------------------------	----------------------

First Take Point (FTP)

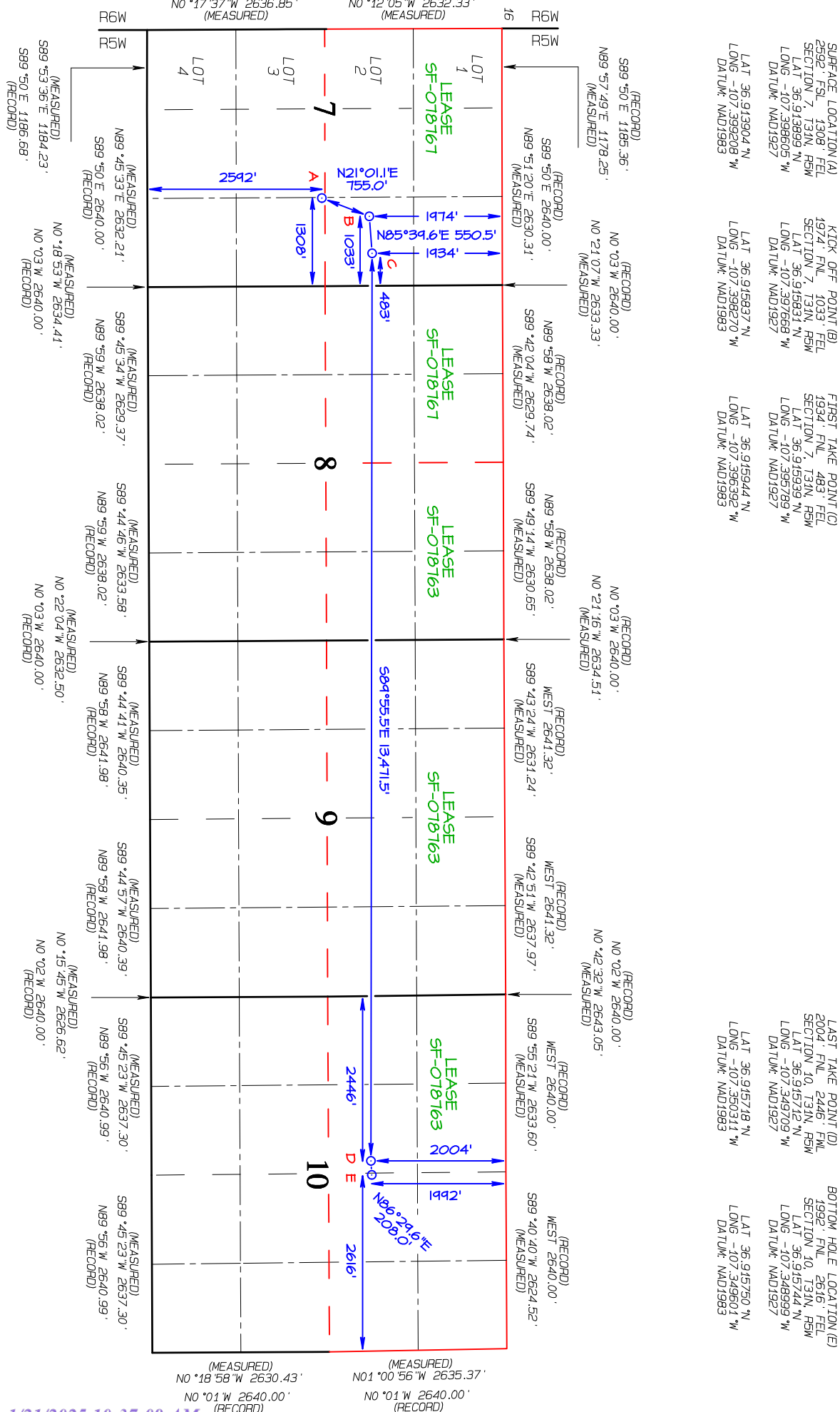
UL H	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 1934' NORTH	Feet from E/W Line 483' EAST	Latitude 36.915944 °N	Longitude -107.396392 °W	County RIO ARriba
---------	--------------	-----------------	-------------	-----	-----------------------------------	---------------------------------	--------------------------	-----------------------------	----------------------

Last Take Point (LTP)

UL F	Section 10	Township 31N	Range 5W	Lot	Feet from N/S Line 2004' NORTH	Feet from E/W Line 2446' WEST	Latitude 36.915718 °N	Longitude -107.350311 °W	County RIO ARriba
---------	---------------	-----------------	-------------	-----	-----------------------------------	----------------------------------	--------------------------	-----------------------------	----------------------

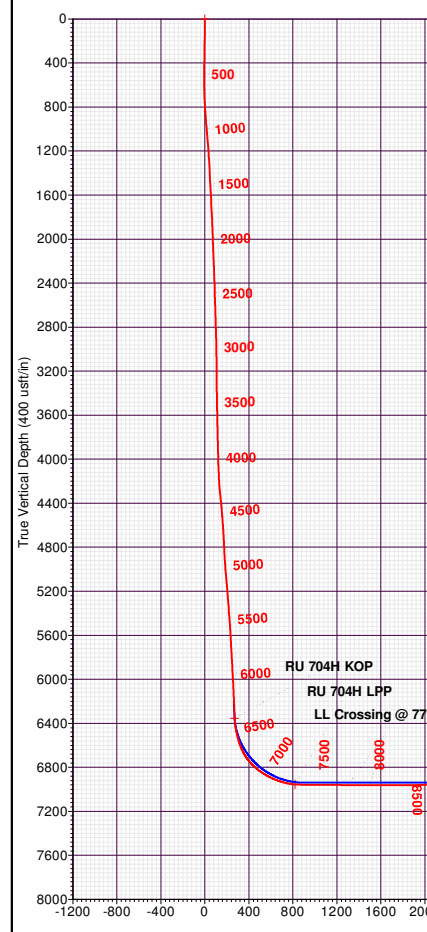
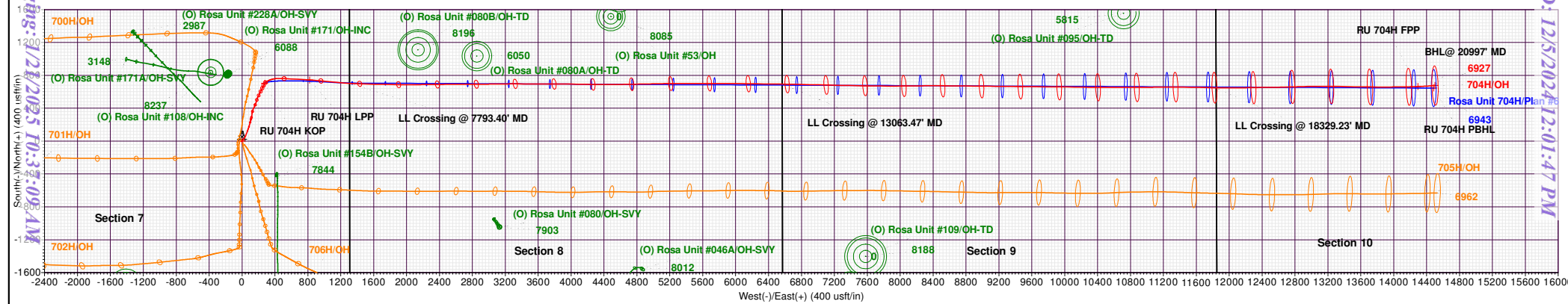
Unitized Area or Area of Uniform Interest ROSA UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 6265'
--	---	---------------------------------

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. Etta Trujillo Signature 9/10/2024 Date Etta Trujillo Printed Name etrujillo@logosresourcesllc.com E-mail Address	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.  JASON C. EDWARDS Signature and Seal of Professional Surveyor Certificate Number 15269 Date of Survey NOVEMBER 15, 2021
--	---



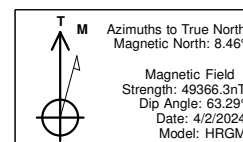


County: Rio Arriba, NM (NAD83)
Site: Rosa Unit 24
Well: Rosa Unit 704H
Depth Reference: 6295+30 @ 6325.00usft (H&P 530)
Rig: H&P 530
Plan: OH
Job #: 18357

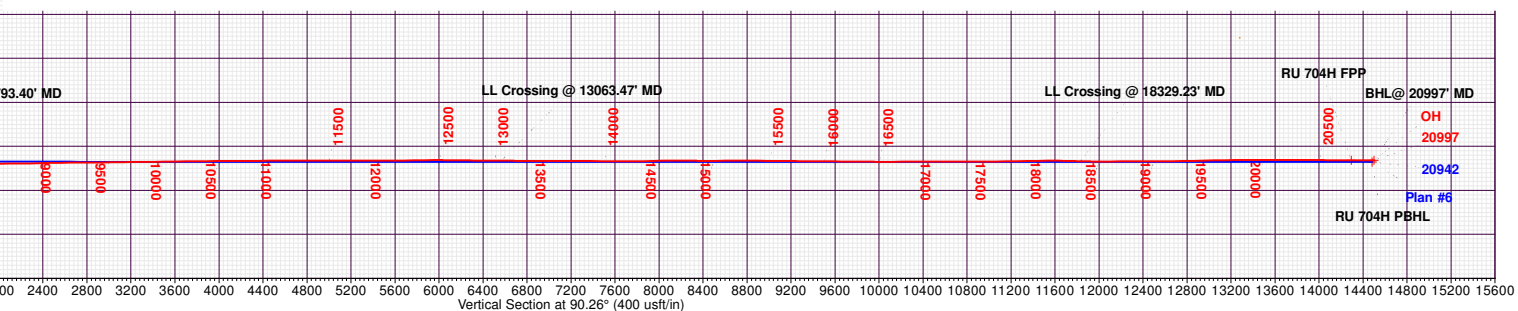
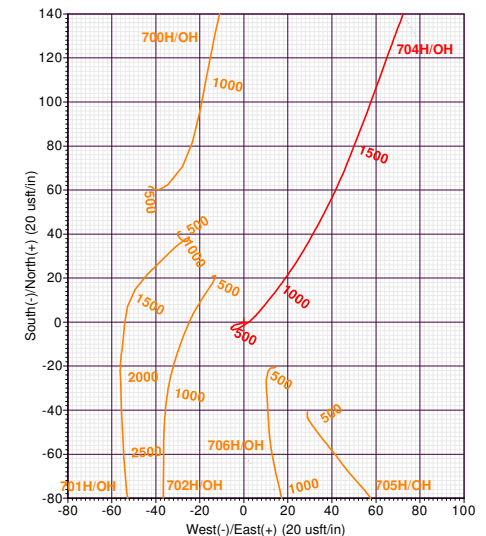


ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
7793.40	89.86	93.08	6960.65	702.98	1300.80	1297.60	1820.18	LL Crossing @ 7793.40' MD	
13063.47	89.80	90.91	6931.18	693.82	6570.06	6566.84	7089.93	LL Crossing @ 13063.47' MD	
18329.23	88.69	91.33	6935.24	648.62	11835.10	11832.04	12355.48	LL Crossing @ 18329.23' MD	
20997.00	89.87	86.06	6927.09	675.74	14502.05	14498.83	15023.13	BHL @ 20997' MD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RU 704H SHL	0.00	0.00	0.00	2152277.01	2850002.92	36.913904	-107.399208
RU 704H KOP	6353.14	703.72	274.08	2152981.97	2850273.79	36.915837	-107.398270
RU 704H FPP	6926.60	663.97	14294.40	2153006.02	2864294.15	36.915718	-107.350311
RU 704H BHL	6927.09	675.74	14502.05	2153018.74	2864501.74	36.915750	-107.349601
RU 704H PBHL	6943.00	645.69	14485.59	2152988.62	2864485.42	36.915667	-107.349657
RU 704H LPP	6955.33	742.88	823.18	2153023.63	2850822.71	36.915944	-107.396392



TOTAL CORRECTION: 8.46°



Released to Imaging: 3/12/2025 10:37:09 AM

Received by OCD: 12/5/2024 12:01:47 PM

Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 24

Rosa Unit 704H

OH

Design: OH

Standard Survey Report

15 August, 2024

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	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 24				
Site Position:		Northing:	2,152,318.01 usft	Latitude:	36.914017
From:	Lat/Long	Easting:	2,849,973.79 usft	Longitude:	-107.399307
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Rosa Unit 704H					
Well Position	+N/-S	0.00 usft	Northing:	2,152,277.01 usft	Latitude:	36.913904
	+E/-W	0.00 usft	Easting:	2,850,002.92 usft	Longitude:	-107.399208
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,295.00 usft
Grid Convergence:		0.26 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	4/2/2024	8.46	63.29	49,366.28736580

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	90.26	

Survey Program	Date	7/22/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
58.45	299.93	Survey #1 (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
446.00	20,927.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
20,997.00	20,997.00	Survey #3 (OH)	A026Ua_BLIND	OWSG BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
58.45	0.71	238.29	58.45	-0.19	-0.31	-0.31	1.21	1.21	0.00	
150.25	0.66	256.59	150.24	-0.61	-1.31	-1.30	0.24	-0.05	19.93	
239.43	0.69	262.07	239.42	-0.81	-2.34	-2.33	0.08	0.03	6.14	
299.93	0.77	257.12	299.91	-0.95	-3.09	-3.09	0.17	0.13	-8.18	
446.00	1.14	232.72	445.96	-2.04	-5.21	-5.20	0.37	0.25	-16.70	
537.00	0.63	171.46	536.95	-3.09	-5.85	-5.84	1.10	-0.56	-67.32	
624.00	0.97	88.49	623.95	-3.54	-5.05	-5.03	1.25	0.39	-95.37	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
718.00	2.33	70.65	717.90	-2.89	-2.45	-2.44	1.53	1.45	-18.98
811.00	4.57	51.22	810.73	0.06	2.22	2.22	2.68	2.41	-20.89
903.00	7.76	39.15	902.19	7.17	9.01	8.97	3.72	3.47	-13.12
994.00	7.52	37.07	992.39	16.69	16.47	16.40	0.40	-0.26	-2.29
1,084.00	8.57	32.84	1,081.50	27.02	23.66	23.54	1.34	1.17	-4.70
1,175.00	8.54	28.93	1,171.49	38.63	30.61	30.43	0.64	-0.03	-4.30
1,268.00	7.95	27.29	1,263.53	50.39	36.89	36.67	0.68	-0.63	-1.76
1,363.00	7.89	24.72	1,357.62	62.15	42.63	42.35	0.38	-0.06	-2.71
1,457.00	7.89	21.44	1,450.73	74.02	47.69	47.35	0.48	0.00	-3.49
1,552.00	8.05	21.44	1,544.81	86.28	52.50	52.11	0.17	0.17	0.00
1,646.00	8.14	20.15	1,637.88	98.65	57.20	56.75	0.22	0.10	-1.37
1,741.00	8.01	19.86	1,731.93	111.19	61.77	61.26	0.14	-0.14	-0.31
1,835.00	7.50	19.89	1,825.07	123.12	66.08	65.52	0.54	-0.54	0.03
1,929.00	6.31	20.98	1,918.39	133.72	70.02	69.41	1.27	-1.27	1.16
2,024.00	6.02	19.41	2,012.84	143.29	73.54	72.89	0.35	-0.31	-1.65
2,118.00	7.39	19.18	2,106.20	153.65	77.17	76.47	1.46	1.46	-0.24
2,213.00	7.69	20.75	2,200.37	165.36	81.43	80.67	0.38	0.32	1.65
2,307.00	6.90	18.59	2,293.61	176.59	85.45	84.65	0.89	-0.84	-2.30
2,402.00	6.99	14.66	2,387.92	187.60	88.74	87.88	0.51	0.09	-4.14
2,496.00	6.22	13.57	2,481.29	198.08	91.38	90.48	0.83	-0.82	-1.16
2,591.00	6.90	14.86	2,575.67	208.60	94.05	93.10	0.73	0.72	1.36
2,686.00	6.16	14.54	2,670.05	219.05	96.79	95.80	0.78	-0.78	-0.34
2,780.00	6.46	16.51	2,763.48	229.00	99.56	98.52	0.39	0.32	2.10
2,875.00	5.85	17.91	2,857.94	238.73	102.57	101.48	0.66	-0.64	1.47
2,970.00	5.01	14.33	2,952.51	247.36	105.08	103.96	0.95	-0.88	-3.77
3,064.00	4.38	7.17	3,046.19	254.89	106.55	105.39	0.91	-0.67	-7.62
3,159.00	3.33	5.80	3,140.98	261.24	107.28	106.09	1.11	-1.11	-1.44
3,253.00	2.77	12.81	3,234.84	266.17	108.06	106.85	0.71	-0.60	7.46
3,348.00	2.47	20.53	3,329.74	270.33	109.29	108.06	0.49	-0.32	8.13
3,397.00	2.38	21.39	3,378.70	272.26	110.03	108.79	0.20	-0.18	1.76
3,488.00	2.02	24.10	3,469.63	275.49	111.37	110.12	0.41	-0.40	2.98
3,583.00	4.19	15.19	3,564.49	280.36	112.97	111.69	2.33	2.28	-9.38
3,677.00	5.80	14.30	3,658.13	288.28	115.04	113.73	1.71	1.71	-0.95
3,772.00	8.14	9.04	3,752.42	299.58	117.28	115.92	2.55	2.46	-5.54
3,867.00	8.51	8.02	3,846.42	313.18	119.32	117.90	0.42	0.39	-1.07
3,961.00	9.18	8.28	3,939.30	327.49	121.37	119.88	0.71	0.71	0.28
4,056.00	10.95	11.29	4,032.84	343.83	124.23	122.67	1.94	1.86	3.17
4,151.00	11.44	10.35	4,126.03	361.95	127.69	126.04	0.55	0.52	-0.99
4,246.00	11.55	18.15	4,219.13	380.26	132.34	130.61	1.64	0.12	8.21
4,340.00	13.21	27.19	4,310.95	398.76	140.18	138.37	2.71	1.77	9.62
4,435.00	12.45	27.68	4,403.58	417.48	149.90	148.00	0.81	-0.80	0.52
4,498.00	11.16	25.91	4,465.24	428.98	155.72	153.77	2.13	-2.05	-2.81
4,561.00	12.93	20.60	4,526.86	441.06	160.86	158.86	3.31	2.81	-8.43

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,624.00	12.91	18.46	4,588.26	454.33	165.57	163.51	0.76	-0.03	-3.40	
4,687.00	12.27	17.94	4,649.75	467.38	169.86	167.74	1.03	-1.02	-0.83	
4,749.00	11.27	16.53	4,710.44	479.46	173.61	171.44	1.68	-1.61	-2.27	
4,812.00	10.33	15.84	4,772.32	490.79	176.91	174.68	1.51	-1.49	-1.10	
4,875.00	9.56	16.37	4,834.38	501.24	179.92	177.65	1.23	-1.22	0.84	
4,938.00	9.85	16.56	4,896.48	511.43	182.93	180.61	0.46	0.46	0.30	
5,001.00	10.32	19.94	4,958.50	521.90	186.39	184.02	1.20	0.75	5.37	
5,064.00	11.79	23.95	5,020.33	533.09	190.93	188.51	2.63	2.33	6.37	
5,126.00	11.75	28.61	5,081.03	544.42	196.53	194.05	1.53	-0.06	7.52	
5,189.00	10.99	26.58	5,142.79	555.42	202.29	199.76	1.36	-1.21	-3.22	
5,252.00	10.64	26.64	5,204.68	565.99	207.58	205.01	0.56	-0.56	0.10	
5,315.00	9.81	27.13	5,266.67	575.96	212.64	210.02	1.32	-1.32	0.78	
5,378.00	9.40	26.56	5,328.79	585.34	217.38	214.72	0.67	-0.65	-0.90	
5,441.00	9.62	26.55	5,390.92	594.65	222.04	219.34	0.35	0.35	-0.02	
5,503.00	8.89	26.80	5,452.12	603.56	226.51	223.77	1.18	-1.18	0.40	
5,566.00	8.90	26.83	5,514.36	612.26	230.91	228.13	0.02	0.02	0.05	
5,629.00	8.48	24.33	5,576.64	620.84	235.02	232.20	0.90	-0.67	-3.97	
5,692.00	7.90	26.92	5,638.99	628.93	238.89	236.04	1.09	-0.92	4.11	
5,747.00	7.62	24.59	5,693.49	635.62	242.12	239.24	0.77	-0.51	-4.24	
5,810.00	7.50	25.28	5,755.94	643.13	245.62	242.70	0.24	-0.19	1.10	
5,874.00	6.78	23.85	5,819.45	650.37	248.93	245.97	1.16	-1.13	-2.23	
5,936.00	7.11	24.64	5,880.99	657.20	252.01	249.02	0.55	0.53	1.27	
5,999.00	7.23	25.88	5,943.50	664.31	255.36	252.35	0.31	0.19	1.97	
6,062.00	7.16	23.25	6,006.00	671.49	258.64	255.59	0.53	-0.11	-4.17	
6,125.00	6.85	25.62	6,068.53	678.48	261.82	258.74	0.67	-0.49	3.76	
6,188.00	6.22	23.73	6,131.12	684.99	264.82	261.70	1.06	-1.00	-3.00	
6,255.00	5.49	24.72	6,197.77	691.23	267.62	264.48	1.10	-1.09	1.48	
6,341.00	5.02	26.13	6,283.41	698.34	270.99	267.82	0.57	-0.55	1.64	
6,411.00	5.16	33.41	6,353.14	703.72	274.08	270.88	0.94	0.20	10.40	
6,506.00	11.76	55.59	6,447.07	712.77	284.43	281.19	7.63	6.95	23.35	
6,601.00	17.51	57.86	6,538.95	725.85	304.54	301.24	6.08	6.05	2.39	
6,695.00	24.81	66.13	6,626.57	741.38	334.59	331.22	8.37	7.77	8.80	
6,789.00	34.92	77.48	6,708.05	755.24	379.04	375.61	12.28	10.76	12.07	
6,884.00	45.72	88.46	6,780.47	762.08	439.84	436.37	13.57	11.37	11.56	
6,978.00	54.84	94.08	6,840.50	760.24	511.99	508.53	10.73	9.70	5.98	
7,073.00	63.48	92.39	6,889.16	755.70	593.35	589.91	9.22	9.09	-1.78	
7,167.00	71.10	92.76	6,925.42	751.80	679.91	676.49	8.11	8.11	0.39	
7,262.00	80.47	93.84	6,948.72	746.49	771.74	768.34	9.92	9.86	1.14	
7,356.00	88.55	94.44	6,957.71	739.73	864.99	861.62	8.62	8.60	0.64	
7,451.00	89.73	95.23	6,959.14	731.73	959.64	956.30	1.49	1.24	0.83	
7,545.00	89.76	95.15	6,959.55	723.22	1,053.25	1,049.96	0.09	0.03	-0.09	
7,640.00	89.80	95.45	6,959.92	714.45	1,147.84	1,144.59	0.32	0.04	0.32	
7,734.00	89.63	94.04	6,960.39	706.67	1,241.52	1,238.30	1.51	-0.18	-1.50	
7,793.40	89.86	93.08	6,960.65	702.98	1,300.80	1,297.60	1.66	0.39	-1.61	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
LL Crossing @ 7793.40' MD									
7,829.00	90.00	92.51	6,960.69	701.25	1,336.36	1,333.16	1.66	0.39	-1.61
7,923.00	89.76	92.15	6,960.89	697.43	1,430.28	1,427.10	0.46	-0.26	-0.38
8,018.00	90.00	91.01	6,961.09	694.81	1,525.24	1,522.07	1.23	0.25	-1.20
8,112.00	89.97	91.42	6,961.11	692.81	1,619.22	1,616.06	0.44	-0.03	0.44
8,206.00	90.10	91.14	6,961.06	690.71	1,713.20	1,710.04	0.33	0.14	-0.30
8,301.00	90.17	90.99	6,960.83	688.95	1,808.18	1,805.03	0.17	0.07	-0.16
8,396.00	90.00	90.82	6,960.69	687.45	1,903.17	1,900.03	0.25	-0.18	-0.18
8,490.00	91.31	89.82	6,959.62	686.92	1,997.16	1,994.02	1.75	1.39	-1.06
8,585.00	91.28	89.83	6,957.47	687.21	2,092.13	2,088.99	0.03	-0.03	0.01
8,680.00	90.71	89.70	6,955.82	687.60	2,187.12	2,183.97	0.62	-0.60	-0.14
8,774.00	90.37	89.47	6,954.93	688.28	2,281.11	2,277.96	0.44	-0.36	-0.24
8,868.00	91.28	89.46	6,953.58	689.16	2,375.09	2,371.94	0.97	0.97	-0.01
8,963.00	91.11	89.16	6,951.60	690.30	2,470.07	2,466.91	0.36	-0.18	-0.32
9,057.00	90.81	89.60	6,950.02	691.32	2,564.05	2,560.88	0.57	-0.32	0.47
9,152.00	90.47	89.25	6,948.96	692.27	2,659.04	2,655.87	0.51	-0.36	-0.37
9,247.00	91.04	90.33	6,947.71	692.62	2,754.03	2,750.86	1.29	0.60	1.14
9,341.00	90.30	89.93	6,946.61	692.41	2,848.02	2,844.85	0.89	-0.79	-0.43
9,436.00	90.00	89.68	6,946.36	692.73	2,943.02	2,939.84	0.41	-0.32	-0.26
9,530.00	91.04	89.31	6,945.51	693.56	3,037.01	3,033.83	1.17	1.11	-0.39
9,625.00	90.67	89.39	6,944.09	694.64	3,131.99	3,128.81	0.40	-0.39	0.08
9,719.00	90.50	89.25	6,943.13	695.75	3,225.98	3,222.79	0.23	-0.18	-0.15
9,814.00	90.13	89.95	6,942.61	696.42	3,320.98	3,317.78	0.83	-0.39	0.74
9,908.00	91.48	90.74	6,941.29	695.85	3,414.96	3,411.77	1.66	1.44	0.84
10,003.00	91.18	90.23	6,939.09	695.05	3,509.93	3,506.74	0.62	-0.32	-0.54
10,097.00	90.94	89.94	6,937.35	694.91	3,603.92	3,600.73	0.40	-0.26	-0.31
10,192.00	90.64	90.19	6,936.04	694.80	3,698.91	3,695.72	0.41	-0.32	0.26
10,286.00	90.40	90.21	6,935.18	694.47	3,792.90	3,789.71	0.26	-0.26	0.02
10,381.00	90.44	90.27	6,934.49	694.07	3,887.90	3,884.71	0.08	0.04	0.06
10,476.00	90.34	90.75	6,933.84	693.23	3,982.89	3,979.71	0.52	-0.11	0.51
10,570.00	90.20	90.95	6,933.40	691.83	4,076.88	4,073.70	0.26	-0.15	0.21
10,664.00	90.00	90.52	6,933.23	690.63	4,170.87	4,167.70	0.50	-0.21	-0.46
10,759.00	89.76	90.77	6,933.43	689.56	4,265.87	4,262.69	0.36	-0.25	0.26
10,854.00	91.04	90.18	6,932.77	688.77	4,360.86	4,357.69	1.48	1.35	-0.62
10,948.00	91.58	90.30	6,930.62	688.38	4,454.83	4,451.66	0.59	0.57	0.13
11,042.00	90.34	89.32	6,929.05	688.69	4,548.82	4,545.64	1.68	-1.32	-1.04
11,137.00	90.10	88.88	6,928.68	690.18	4,643.80	4,640.62	0.53	-0.25	-0.46
11,231.00	90.00	89.00	6,928.60	691.92	4,737.79	4,734.60	0.17	-0.11	0.13
11,325.00	89.87	89.14	6,928.71	693.45	4,831.78	4,828.58	0.20	-0.14	0.15
11,420.00	89.80	88.74	6,928.98	695.20	4,926.76	4,923.55	0.43	-0.07	-0.42
11,514.00	89.56	89.13	6,929.50	696.95	5,020.74	5,017.53	0.49	-0.26	0.41
11,608.00	89.60	88.69	6,930.19	698.74	5,114.72	5,111.50	0.47	0.04	-0.47
11,703.00	89.76	89.37	6,930.72	700.35	5,209.70	5,206.47	0.74	0.17	0.72

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,798.00	89.83	89.52	6,931.06	701.27	5,304.70	5,301.46	0.17	0.07	0.16
11,892.00	90.44	90.47	6,930.84	701.28	5,398.70	5,395.46	1.20	0.65	1.01
11,986.00	90.50	89.92	6,930.07	700.96	5,492.69	5,489.46	0.59	0.06	-0.59
12,081.00	90.37	89.36	6,929.35	701.55	5,587.69	5,584.45	0.61	-0.14	-0.59
12,175.00	90.77	90.87	6,928.41	701.36	5,681.68	5,678.44	1.66	0.43	1.61
12,269.00	90.51	90.55	6,927.36	700.20	5,775.67	5,772.43	0.44	-0.28	-0.34
12,364.00	90.43	89.68	6,926.59	700.01	5,870.66	5,867.43	0.92	-0.08	-0.92
12,458.00	90.34	90.10	6,925.95	700.19	5,964.66	5,961.42	0.46	-0.10	0.45
12,553.00	89.36	91.19	6,926.20	699.12	6,059.65	6,056.42	1.54	-1.03	1.15
12,648.00	89.46	90.91	6,927.18	697.38	6,154.63	6,151.40	0.31	0.11	-0.29
12,742.00	89.53	90.65	6,928.01	696.10	6,248.62	6,245.40	0.29	0.07	-0.28
12,837.00	89.36	90.45	6,928.93	695.19	6,343.61	6,340.39	0.28	-0.18	-0.21
12,931.00	89.06	89.85	6,930.23	694.94	6,437.60	6,434.38	0.71	-0.32	-0.64
13,026.00	89.90	90.82	6,931.09	694.39	6,532.59	6,529.37	1.35	0.88	1.02
13,063.47	89.80	90.91	6,931.18	693.82	6,570.06	6,566.84	0.35	-0.26	0.24
LL Crossing @ 13063.47' MD									
13,120.00	89.66	91.05	6,931.45	692.85	6,626.58	6,623.37	0.35	-0.26	0.24
13,215.00	89.29	90.90	6,932.32	691.24	6,721.56	6,718.36	0.42	-0.39	-0.16
13,310.00	90.24	91.52	6,932.71	689.23	6,816.54	6,813.34	1.19	1.00	0.65
13,404.00	90.07	91.33	6,932.45	686.89	6,910.51	6,907.32	0.27	-0.18	-0.20
13,499.00	90.00	91.49	6,932.40	684.55	7,005.48	7,002.30	0.18	-0.07	0.17
13,594.00	89.90	91.26	6,932.48	682.27	7,100.45	7,097.28	0.26	-0.11	-0.24
13,688.00	89.60	91.19	6,932.89	680.27	7,194.43	7,191.27	0.33	-0.32	-0.07
13,783.00	89.60	91.49	6,933.55	678.04	7,289.40	7,286.25	0.32	0.00	0.32
13,877.00	89.63	90.99	6,934.18	676.01	7,383.38	7,380.23	0.53	0.03	-0.53
13,972.00	89.70	91.38	6,934.74	674.04	7,478.35	7,475.22	0.42	0.07	0.41
14,066.00	89.50	90.50	6,935.40	672.50	7,572.34	7,569.21	0.96	-0.21	-0.94
14,161.00	89.23	90.42	6,936.45	671.74	7,667.33	7,664.20	0.30	-0.28	-0.08
14,255.00	90.87	90.76	6,936.37	670.77	7,761.32	7,758.20	1.78	1.74	0.36
14,350.00	90.81	90.20	6,934.97	669.98	7,856.31	7,853.19	0.59	-0.06	-0.59
14,445.00	90.91	89.90	6,933.55	669.89	7,951.30	7,948.17	0.33	0.11	-0.32
14,539.00	91.01	89.89	6,931.97	670.07	8,045.28	8,042.16	0.11	0.11	-0.01
14,634.00	89.97	89.34	6,931.16	670.70	8,140.28	8,137.15	1.24	-1.09	-0.58
14,728.00	89.80	88.86	6,931.35	672.18	8,234.26	8,231.13	0.54	-0.18	-0.51
14,823.00	89.56	89.02	6,931.88	673.94	8,329.25	8,326.10	0.30	-0.25	0.17
14,917.00	90.00	90.70	6,932.24	674.17	8,423.24	8,420.10	1.85	0.47	1.79
15,011.00	90.17	90.84	6,932.10	672.90	8,517.23	8,514.09	0.23	0.18	0.15
15,105.00	90.13	90.31	6,931.86	671.96	8,611.23	8,608.09	0.57	-0.04	-0.56
15,200.00	90.07	90.45	6,931.69	671.33	8,706.22	8,703.09	0.16	-0.06	0.15
15,294.00	90.24	90.51	6,931.44	670.54	8,800.22	8,797.09	0.19	0.18	0.06
15,388.00	89.60	90.70	6,931.57	669.55	8,894.22	8,891.09	0.71	-0.68	0.20
15,483.00	89.63	90.84	6,932.20	668.27	8,989.20	8,986.08	0.15	0.03	0.15
15,577.00	89.70	90.60	6,932.75	667.09	9,083.20	9,080.07	0.27	0.07	-0.26
15,672.00	89.39	90.40	6,933.51	666.26	9,178.19	9,175.07	0.39	-0.33	-0.21

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,766.00	89.50	90.58	6,934.42	665.46	9,272.18	9,269.07	0.22	0.12	0.19
15,861.00	89.56	90.83	6,935.20	664.29	9,367.17	9,364.06	0.27	0.06	0.26
15,955.00	89.56	90.45	6,935.92	663.24	9,461.16	9,458.05	0.40	0.00	-0.40
16,050.00	89.46	90.37	6,936.73	662.56	9,556.16	9,553.05	0.13	-0.11	-0.08
16,144.00	89.60	90.39	6,937.50	661.94	9,650.15	9,647.05	0.15	0.15	0.02
16,239.00	89.70	90.19	6,938.08	661.46	9,745.15	9,742.05	0.24	0.11	-0.21
16,333.00	89.56	90.56	6,938.69	660.84	9,839.14	9,836.04	0.42	-0.15	0.39
16,427.00	88.92	90.69	6,939.94	659.82	9,933.13	9,930.03	0.69	-0.68	0.14
16,522.00	90.10	90.68	6,940.75	658.68	10,028.12	10,025.02	1.24	1.24	-0.01
16,616.00	90.30	91.01	6,940.42	657.30	10,122.11	10,119.02	0.41	0.21	0.35
16,711.00	90.24	90.91	6,939.97	655.70	10,217.09	10,214.01	0.12	-0.06	-0.11
16,805.00	90.00	90.10	6,939.78	654.88	10,311.09	10,308.01	0.90	-0.26	-0.86
16,899.00	90.17	90.14	6,939.64	654.68	10,405.09	10,402.01	0.19	0.18	0.04
16,993.00	90.24	90.32	6,939.30	654.30	10,499.09	10,496.01	0.21	0.07	0.19
17,087.00	90.34	90.63	6,938.83	653.52	10,593.08	10,590.01	0.35	0.11	0.33
17,182.00	90.24	90.59	6,938.35	652.51	10,688.07	10,685.00	0.11	-0.11	-0.04
17,276.00	90.07	89.96	6,938.09	652.06	10,782.07	10,779.00	0.69	-0.18	-0.67
17,371.00	90.10	89.42	6,937.95	652.57	10,877.07	10,874.00	0.57	0.03	-0.57
17,465.00	90.10	89.11	6,937.79	653.78	10,971.06	10,967.98	0.33	0.00	-0.33
17,559.00	90.07	88.95	6,937.65	655.37	11,065.05	11,061.96	0.17	-0.03	-0.17
17,654.00	90.61	89.93	6,937.08	656.30	11,160.04	11,156.95	1.18	0.57	1.03
17,748.00	90.94	89.56	6,935.81	656.72	11,254.03	11,250.94	0.53	0.35	-0.39
17,842.00	91.24	90.04	6,934.02	657.05	11,348.01	11,344.91	0.60	0.32	0.51
17,937.00	90.60	91.14	6,932.50	656.07	11,442.99	11,439.90	1.34	-0.67	1.16
18,032.00	90.81	90.76	6,931.33	654.49	11,537.97	11,534.88	0.46	0.22	-0.40
18,126.00	89.13	91.09	6,931.38	652.97	11,631.96	11,628.87	1.82	-1.79	0.35
18,221.00	88.96	91.15	6,932.96	651.12	11,726.93	11,723.85	0.19	-0.18	0.06
18,316.00	88.66	91.47	6,934.93	648.95	11,821.88	11,818.81	0.46	-0.32	0.34
18,329.23	88.69	91.33	6,935.24	648.62	11,835.10	11,832.04	1.10	0.24	-1.07
LL Crossing @ 18329.23' MD									
18,410.00	88.89	90.46	6,936.94	647.36	11,915.84	11,912.78	1.10	0.24	-1.07
18,505.00	90.07	90.09	6,937.81	646.91	12,010.84	12,007.78	1.30	1.24	-0.39
18,599.00	90.40	88.93	6,937.42	647.71	12,104.83	12,101.77	1.28	0.35	-1.23
18,694.00	90.44	88.97	6,936.72	649.45	12,199.81	12,196.74	0.06	0.04	0.04
18,789.00	90.34	89.25	6,936.08	650.93	12,294.80	12,291.72	0.31	-0.11	0.29
18,883.00	90.34	89.40	6,935.52	652.04	12,388.79	12,385.70	0.16	0.00	0.16
18,978.00	90.10	88.91	6,935.16	653.44	12,483.78	12,480.69	0.57	-0.25	-0.52
19,072.00	90.07	89.14	6,935.02	655.04	12,577.77	12,574.66	0.25	-0.03	0.24
19,166.00	90.44	88.35	6,934.60	657.09	12,671.74	12,668.63	0.93	0.39	-0.84
19,261.00	90.47	88.26	6,933.84	659.90	12,766.70	12,763.57	0.10	0.03	-0.09
19,355.00	91.48	88.80	6,932.24	662.32	12,860.65	12,857.51	1.22	1.07	0.57
19,449.00	91.55	88.96	6,929.76	664.15	12,954.60	12,951.45	0.19	0.07	0.17
19,544.00	90.81	89.36	6,927.80	665.54	13,049.57	13,046.41	0.89	-0.78	0.42

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,638.00	90.78	89.39	6,926.50	666.57	13,143.55	13,140.39	0.05	-0.03	0.03	
19,733.00	90.27	91.02	6,925.63	666.23	13,238.55	13,235.39	1.80	-0.54	1.72	
19,827.00	90.13	91.02	6,925.30	664.56	13,332.53	13,329.38	0.15	-0.15	0.00	
19,922.00	90.24	91.10	6,924.99	662.80	13,427.51	13,424.37	0.14	0.12	0.08	
20,016.00	90.07	90.71	6,924.74	661.31	13,521.50	13,518.36	0.45	-0.18	-0.41	
20,111.00	89.93	90.49	6,924.74	660.32	13,616.50	13,613.36	0.27	-0.15	-0.23	
20,205.00	90.00	91.07	6,924.80	659.04	13,710.49	13,707.36	0.62	0.07	0.62	
20,299.00	89.97	90.53	6,924.82	657.73	13,804.48	13,801.35	0.58	-0.03	-0.57	
20,394.00	89.87	89.79	6,924.95	657.46	13,899.48	13,896.35	0.79	-0.11	-0.78	
20,488.00	89.60	89.53	6,925.39	658.02	13,993.47	13,990.34	0.40	-0.29	-0.28	
20,583.00	89.33	89.36	6,926.27	658.94	14,088.47	14,085.33	0.34	-0.28	-0.18	
20,678.00	90.30	88.08	6,926.58	661.06	14,183.44	14,180.29	1.69	1.02	-1.35	
20,772.00	89.76	88.86	6,926.53	663.57	14,277.40	14,274.25	1.01	-0.57	0.83	
20,867.00	89.90	86.78	6,926.81	667.19	14,372.33	14,369.15	2.19	0.15	-2.19	
20,927.00	89.87	86.06	6,926.93	670.93	14,432.21	14,429.02	1.20	-0.05	-1.20	
20,997.00	89.87	86.06	6,927.09	675.74	14,502.05	14,498.83	0.00	0.00	0.00	
BHL@ 20997' MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
RU 704H SHL	0.00	0.00	0.00	0.00	0.00	2,152,277.01	2,850,002.92	36.913904		-107.399208
- actual wellpath hits target center										
- Point										
RU 704H KOP	0.00	0.00	6,353.14	703.72	274.08	2,152,981.97	2,850,273.79	36.915837		-107.398271
- actual wellpath hits target center										
- Point										
RU 704H FPP	0.00	0.00	6,926.60	663.97	14,294.40	2,153,006.02	2,864,294.15	36.915718		-107.350311
- actual wellpath hits target center										
- Point										
RU 704H BHL	0.00	0.00	6,927.09	675.74	14,502.05	2,153,018.74	2,864,501.74	36.915750		-107.349601
- actual wellpath hits target center										
- Point										
RU 704H PBHL	0.00	0.00	6,943.00	645.69	14,485.59	2,152,988.62	2,864,485.42	36.915667		-107.349657
- actual wellpath misses target center by 32.96usft at 20978.55usft MD (6927.05 TVD, 674.47 N, 14483.64 E)										
- Point										
RU 704H LPP	0.00	0.00	6,955.33	742.88	823.18	2,153,023.63	2,850,822.71	36.915945		-107.396392
- actual wellpath hits target center										
- Point										

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 704H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6295+30 @ 6325.00usft (H&P 530)
Site:	Rosa Unit 24	MD Reference:	6295+30 @ 6325.00usft (H&P 530)
Well:	Rosa Unit 704H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
7,793.40	6,960.65	702.98	1,300.80	LL Crossing @ 7793.40' MD	
13,063.47	6,931.18	693.82	6,570.06	LL Crossing @ 13063.47' MD	
18,329.23	6,935.24	648.62	11,835.10	LL Crossing @ 18329.23' MD	
20,997.00	6,927.09	675.74	14,502.05	BHL@ 20997' MD	

Checked By: _____

Approved By: _____

Date: _____

1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

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

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31442		² Pool Code 97232	³ Pool Name BASIN MANCOS	
⁴ Property Code 320608	⁵ Property Name ROSA UNIT		⁶ Well Number 704H	
⁷ GRID No. 289408	⁸ Operator Name LOGOS OPERATING, LLC		⁹ Elevation 6295 '	

¹⁰ Surface Location

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the North/South line	Feet from the East/West line	County
I	7	31N	5W	2571	SOUTH	1293	RIO ARRA

¹¹ Bottom Hole Location If Different From Surface

U. or Lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	9	31N	5W		2406	NORTH	1299	EAST	RIO ARTRA

¹² Dedicated Acres 871.86 N/2 - Sections 7, 8, 9, T31N, R5W		¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

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.

Etta Trujillo
Signature

1/3/2023

Signature _____ Date 1/5/2025

Etta Trujillo

Printed Name _____

etrujillo@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.

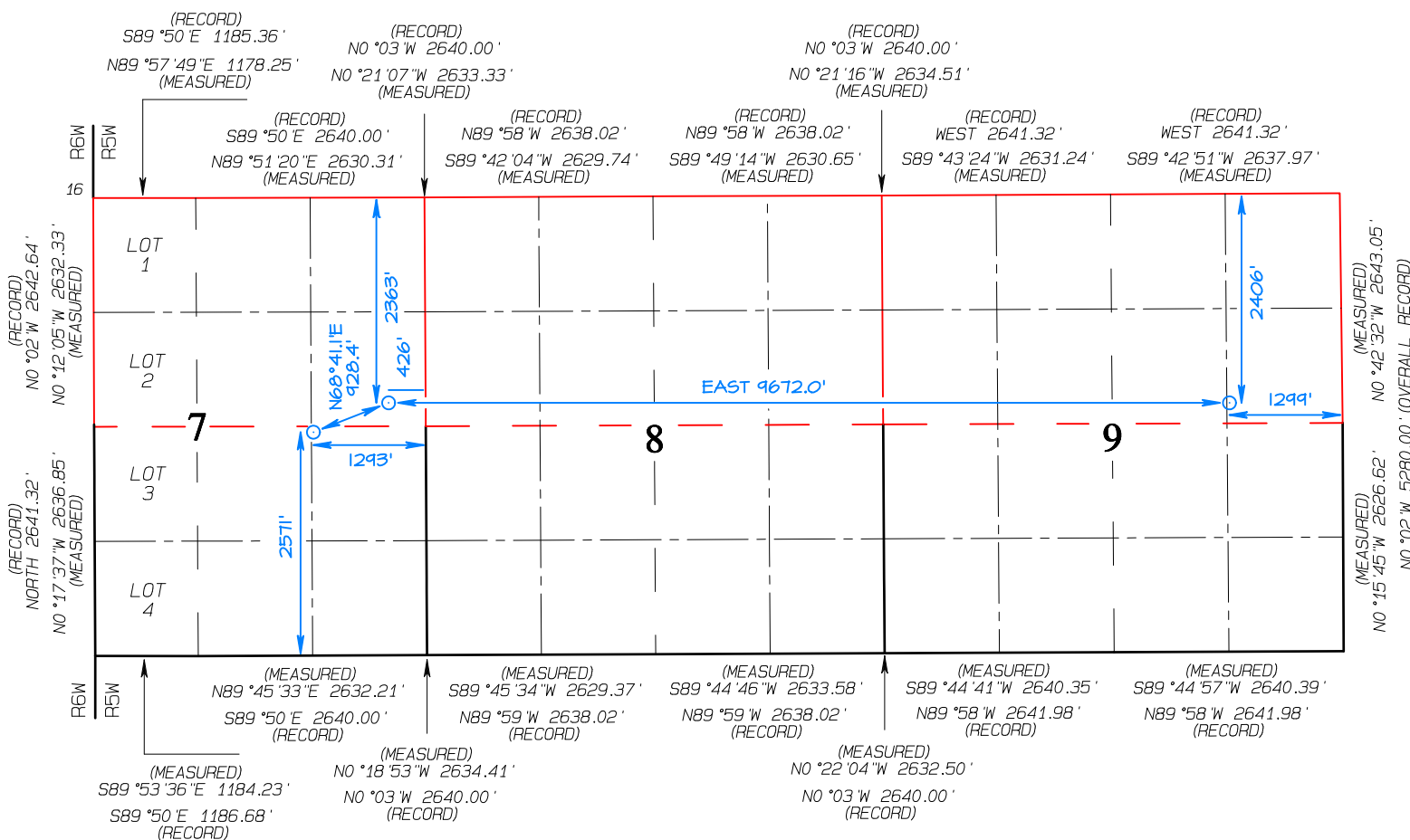
Date Revised: DECEMBER 29, 2022
Survey Date: NOVEMBER 15, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
--------------------	-------



SURFACE LOCATION
2571' FSL 1293' FEL
SECTION 7, T31N, R5W
LAT: 36.913843 °N
LONG: 107.398555 °W
DATUM: NAD1927

FIRST TAKE POINT
2363' FNL 426' FEL
SECTION 7, T31N, R5W
LAT: 36.914759 °N
LONG: 107.395592 °W
DATUM: NAD1927

LAST TAKE POINT
2406' FNL 1299' FEL
SECTION 9, T31N, R5W
LAT: 36.914632 °N
LONG: 107.362508 °W
DATUM: NAD1927

LAT: 36.913848 °N
LONG: 107.399158 °W
DATUM: NAD1983

LAT: 36.914765 °N
LONG: 107.396195 °W
DATUM: NAD1983

LAT: 36.914638 °N
LONG: 107.363110 °W
DATUM: NAD1983

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: LOGOS OPERATING, LLC	OGRID: 289408
Property Name and Well Number: ROSA UNIT 704H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31442
Pool Name: BASIN MANCOS	Pool Code: 97232

Section 2 – Well Location										
	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	I	7	31N	5W		2592’	South	1308’	East	Rio Arriba
BHL	G	10	31N	5W		1992’	North	2616’	East	Rio Arriba

Section 3 – Completion Information

Date T.D. Reached 7/19/2024	Total Measured Depth of Well 20,997’ (TD)	Acid Volume (bbls) 1715 bbls	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 7/22/2024	Plug-Back Measured Depth 20,881	Completion Fluid Used (bbls) 808,995 bbls	Were Logs Ran (Y/N) Y
Completion Date 10/10/2024	Perforations (MD and TVD) 7314’ – 20,713’ (MD) / 6954’ – 6927’ (TVD)	Completion Proppant Used (lbs) 31,016k	List Type of Logs Ran if applicable: Radial Bond Log, Casing Collars, Gamma Ray/VDL

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 335999	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 341686	NOI Recomplete Action ID (if applicable): N/A
Intermediate 2 Casing Action ID: 365434	NOI Plugback Action ID (if applicable): N/A
Production Casing Action ID: 368576	Cement Squeeze Action ID (if applicable): N/A
Tubing Action ID: Pending	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID: N/A	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 10/17/2024	Production Method Flowing	Well Status Flowing	Gas – Oil Ratio N/A
Date of Test 10/17/2024	Choke Size 20/64	Flowing Tubing Pressure N/A	Casing Pressure 2934
24 hr Oil (bbls) 0	24 hr Gas (MCF) 1634 mcf	24 hr Water (bbls) 606 bbls	Oil Gravity – API N/A

Disposition of Gas:
Sold

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.

☐ A Closed Loop System was used.

☒ If an on-site burial was used at the well, report the exact location of the on-site burial:
L AT:36.913593 LONG: -107.397846

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name <i>Ella Trujillo</i>	
Title Regulatory Specialist II	Date 11/19/2024

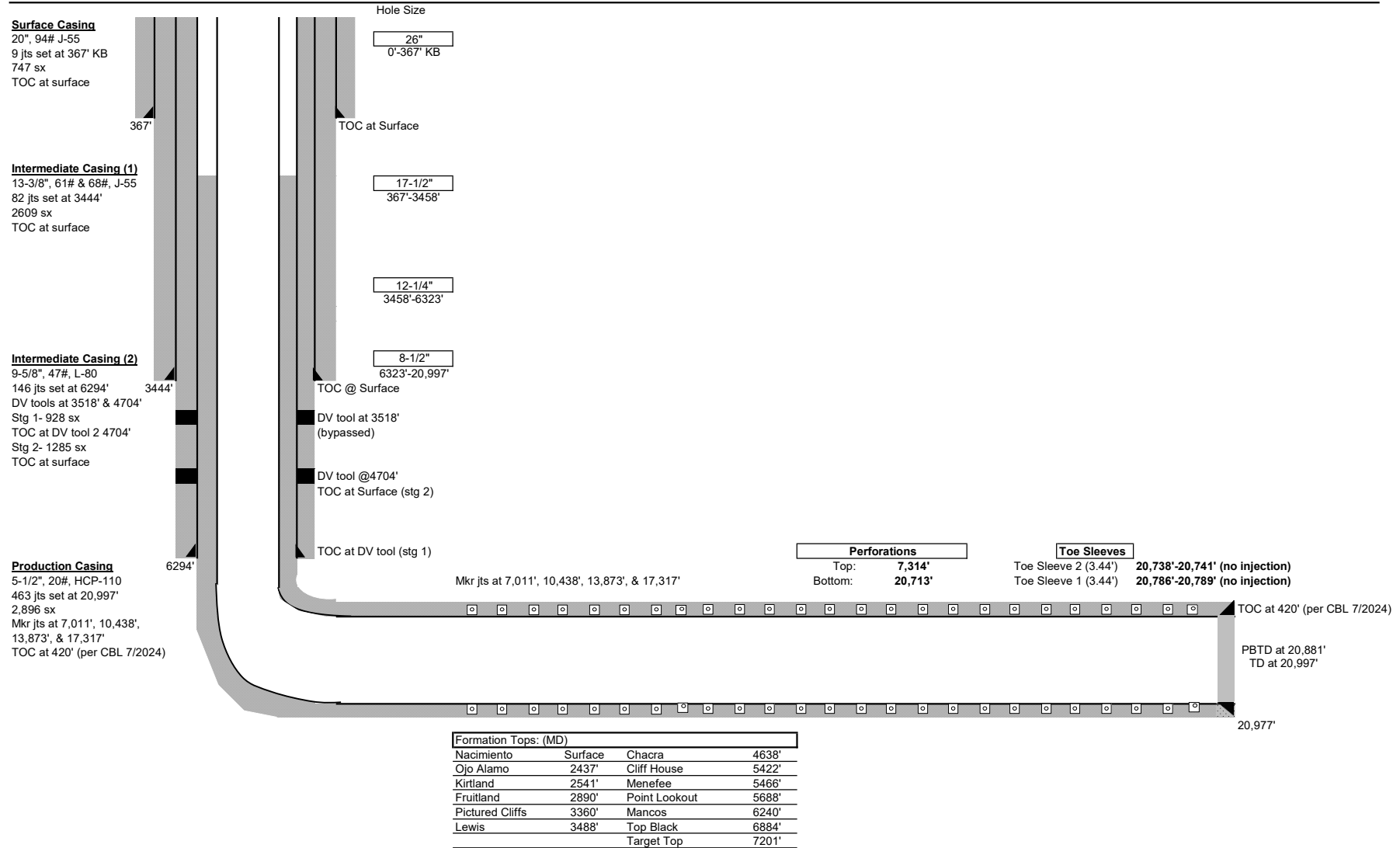
South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo	2437'	2423'	W
T. Yates				T. Kirtland	2541'	2526'	N/A
T. 7 Rivers				T. Fruitland	2890'	2873'	G
T. Queen				T. Pictured Cliffs	3360'	3342'	G
T. Grayburg				T. Lewis Shale	3488'	3470'	G
T. San Andres				T. Chacra	4638'	4602'	G
T. Glorieta				T. Cliff House	5422'	5372'	G
T. Yeso				T. Menefee	5466'	5416'	N/A
T. Paddock				T. Point Lookout	5688'	5635'	G
T. Blinebry				T. Mancos	6240'	6183'	G
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

**Wellbore Schematic**

Well Name: Rosa Unit 704H
 Location: SHL - Sec 7, T31N, R05W, 2592' FSL, 1308' FEL
 County: Rio Arriba
 API #: 30-039-31442
 Co-ordinates: 36.913899, -107.398605 NAD83
 Operator: LOGOS Operating, LLC

Ground Elevation: 6295'
 KB Elevation: 6325'
 TD (TVD): 6927'
 TD (MD): 20,997'
 PBTD: 20,881'

Prepared By: 7/22/2024 Peace
 Reviewed/Signed By:
 Last Updated: 11/13/2024 Gomez
 Spud Date: 4/10/2024
 Completion Date: 10/10/2024
 Last Workover Date: N/A



From: blm-afmss-notifications@blm.gov
To: [Etta Trujillo](#)
Subject: Well Name: ROSA UNIT, Well Number: 704H, Notification of Well Completion Acceptance
Date: Monday, November 18, 2024 12:07:37 PM

The Bureau of Land Management

Notice of Acceptance for Well Completion Report

- Operator Name: **LOGOS OPERATING LLC**
- Well Name: **ROSA UNIT**
- Well Number: **704H**
- US Well Number: **3003931442**
- Well Completion Report Id: **WCR2024111893691**

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

Well Name: ROSA UNIT	Well Location: T31N / R5W / SEC 7 / NESE / 36.913904 / -107.399208	County or Parish/State: RIO ARRIBA / NM
Well Number: 704H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF0078767	Unit or CA Name:	Unit or CA Number: NMNM078407E
US Well Number: 300393144200S1	Operator: LOGOS OPERATING LLC	

Notification

Sundry ID:	2824553						
Type of Submission:	Notification	Type of Action:	First Production				
Date Sundry Submitted:	Nov 26, 2024	Time Sundry Submitted:	8:44:18 AM				
First Production Date:	Oct 17, 2024	<table><tr><th>Wellbore Code</th><th>Completion Code</th></tr><tr><td>00</td><td>S1</td></tr></table>		Wellbore Code	Completion Code	00	S1
Wellbore Code	Completion Code						
00	S1						
US Well Number:	3003931442						
First Production Remarks:	First delivery date: 10/17/2024 TP: 0 CP: 2934 Initial MCF: 1634 MCF						
Disposition:	Accepted						
Accepted Date:	11/26/2024						

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

ACKNOWLEDGMENTS

Action 405295

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 405295
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 405295

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 405295
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report and 3160-5 Completion Sundry within 10 days of BLM approval.	1/21/2025