

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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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 604H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31434
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
H	22	31N	6W		1503' FNL	605' FEL	36.888251	-107.443252	RIO ARRIBA

Section 3 – Completion Information

Producing Method Flowing	Ready Date ~11/1/24	Perforations MD ~7,243'-16,695'	Perforations TVD ~6864'-6865'
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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):	Communitization Agreement ☒ Yes ☐ No, Order No. NMNM078407E
Surface Casing Action ID: 356292	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 378136	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: 391371	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 391908	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 <i>Lacey Granillo</i>	
Title Regulatory Specialist	Date 10/11/24

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 30-039-31434	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 604H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC	Ground Level Elevation 6260'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL H	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 1503' NORTH	Feet from E/W Line 605' EAST	Latitude 36.888251 °N	Longitude -107.443252 °W	County RIO ARRIBA
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Bottom Hole Location

UL D	21	Township 31N	Range 6W	Lot	Feet from N/S Line 281' NORTH	Feet from E/W Line 145' WEST	Latitude 36.891555 °N	Longitude -107.476694 °W	County RIO ARRIBA
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Dedicated Acres 640.00	Penetrated Spacing Unit: N/2 - Section 21, T31N, R6W N/2 - Section 22, T31N, R6W	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 A	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 599' NORTH	Feet from E/W Line 187' EAST	Latitude 36.890744 °N	Longitude -107.441820 °W	County RIO ARRIBA
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First Take Point (FTP)

UL A	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 463' NORTH	Feet from E/W Line 727' EAST	Latitude 36.891105 °N	Longitude -107.443668 °W	County RIO ARRIBA
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Last Take Point (LTP)

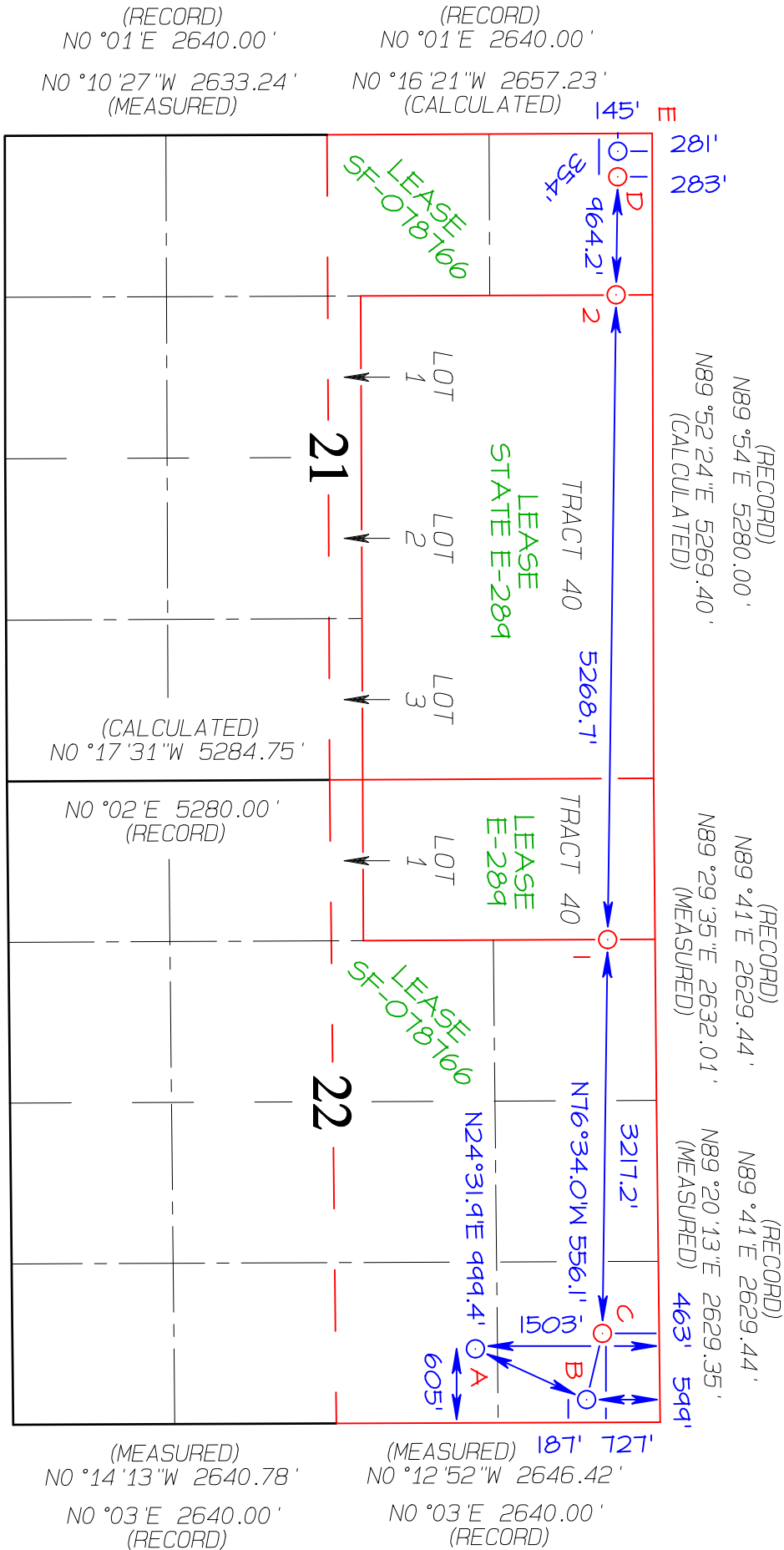
UL D	Section 21	Township 31N	Range 6W	Lot	Feet from N/S Line 283' NORTH	Feet from E/W Line 354' WEST	Latitude 36.891548 °N	Longitude -107.475979 °W	County RIO ARRIBA
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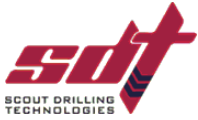
Unitized Area or Area of Uniform Interest ROSA UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
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OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my 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. Lacey Granillo Signature 10/8/24 Date Lacey Granillo Printed Name lgranillo@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 JANUARY 13, 2012
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LAST TAKE POINT (D) 283' FNL 354' FWL SEC 21, T31N, R6W LAT 36.891543°N LONG -107.475374°W DATUM: NAD1927	LEASE X-ING (2) 297' FNL 1318' FWL SEC 21, T31N, R6W LAT 36.891498°N LONG -107.472078°W DATUM: NAD1927	LEASE X-ING (1) 387' FNL 1317' FWL SEC 22, T31N, R6W LAT 36.891251°N LONG -107.454064°W DATUM: NAD1927	FIRST TAKE POINT (C) 463' FNL 727' FEL SEC 22, T31N, R6W LAT 36.891099°N LONG -107.443064°W DATUM: NAD1927	SURFACE LOCATION (A) 1503' FNL 605' FEL SEC 22, T31N, R6W LAT 36.888246°N LONG -107.442648°W DATUM: NAD1927
LAT 36.891548°N LONG -107.475979°W DATUM: NAD1983	LAT 36.891504°N LONG -107.472682°W DATUM: NAD1983	LAT 36.891257°N LONG -107.454668°W DATUM: NAD1983	LAT 36.891105°N LONG -107.443668°W DATUM: NAD1983	LAT 36.888251°N LONG -107.443252°W DATUM: NAD1983





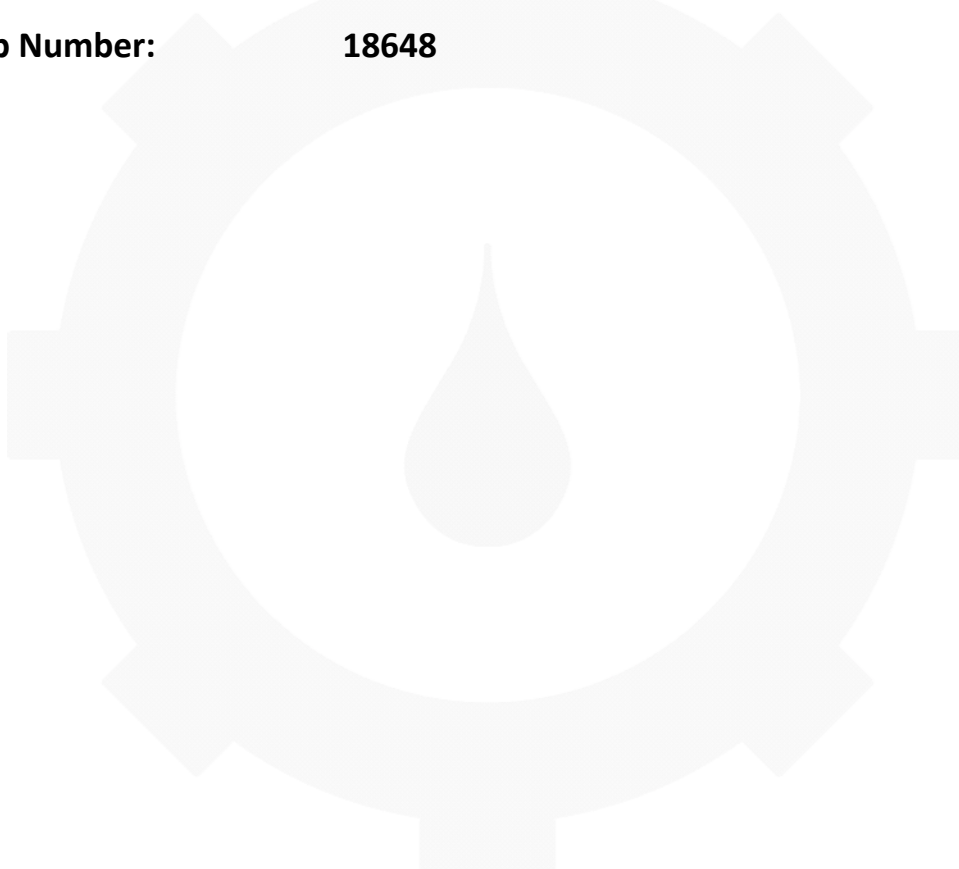
**18648
Logos Operating LLC
Rosa Unit 604H - OH
New Mexico
Rio Arriba
H&P 530**

End Of Well Report - 09/12/2024

**Innovative Drilling Solutions
Data-Driven Decision**

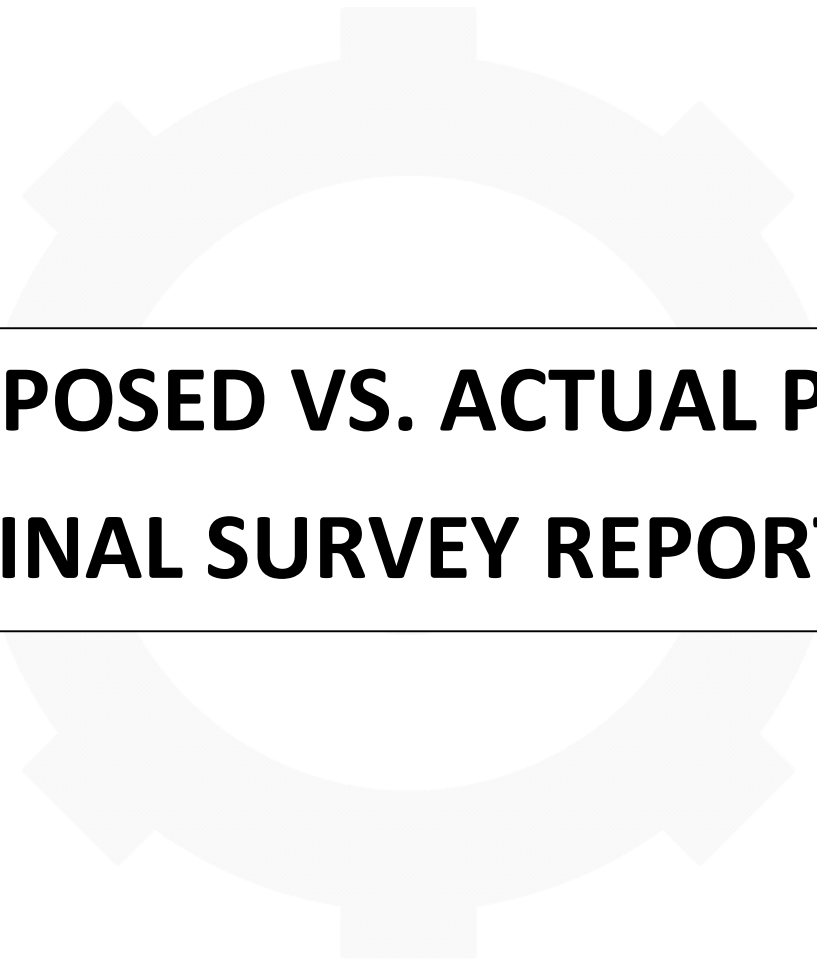


Well Name: Rosa Unit 604H
API Number: 3003931434
County: Rio Arriba County, NM
Scout Job Number: 18648



**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

**Innovative Drilling Solutions
Data-Driven Decision**

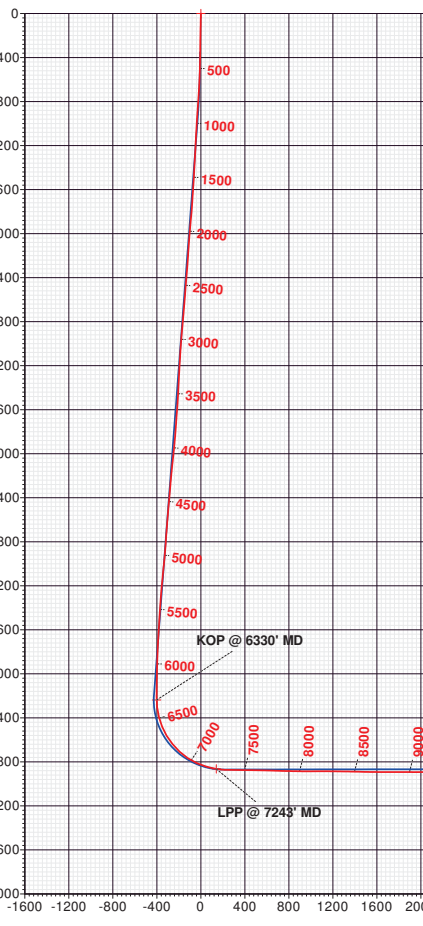
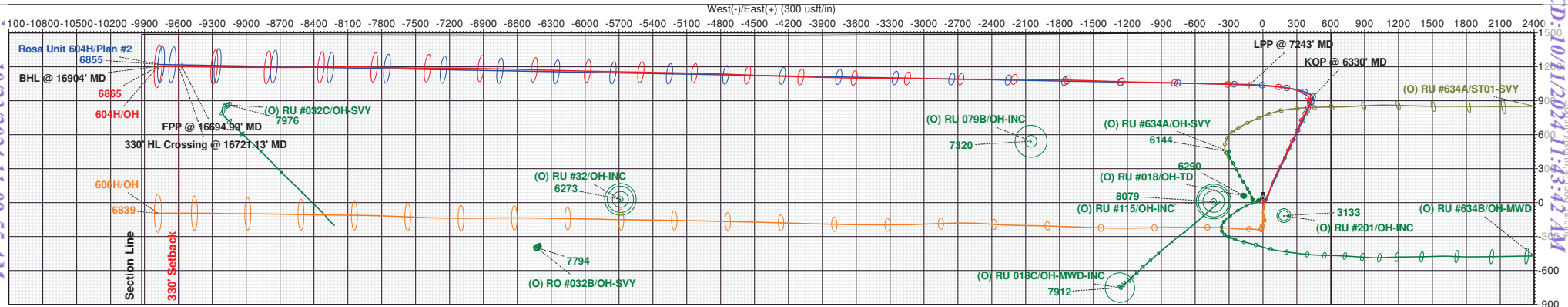
A large, light gray gear graphic is centered in the background of the page, behind the title box.

PROPOSED VS. ACTUAL PLOT FINAL SURVEY REPORT

**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

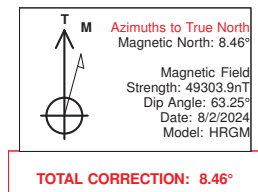
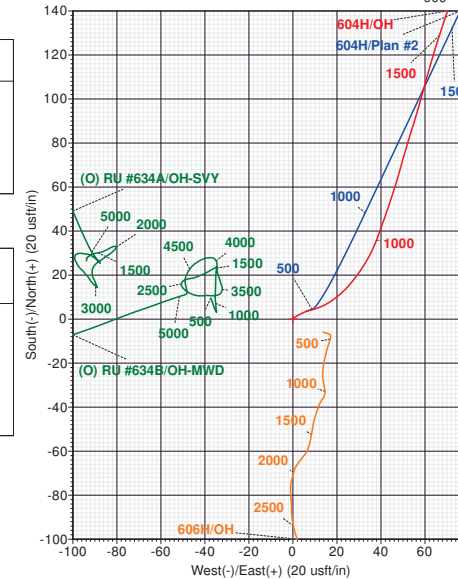


County: Rio Arriba, NM (NAD83)
Site: Rosa Unit 9
Well: Rosa Unit 604H
Depth Reference: 6260+30 @ 6290.00usft (H&P 530)
Rig: H&P 530
Plan: OH
Job #: 18648



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
6330.00	6.48	347.88	6238.20	907.64	418.79	-402.08	1010.86	KOP @ 6330' MD	
7243.00	80.07	272.38	6864.04	1039.05	-121.59	140.61	1586.04	LPP @ 7243' MD	
16694.99	89.77	270.42	6864.70	1202.12	-9570.29	9590.71	11036.84	FPP @ 16694.99' MD	
16721.13	89.83	270.48	6864.79	1202.33	-9596.43	9616.85	11062.98	330' HL Crossing @ 16721.13' MD	
16904.00	89.93	270.88	6865.01	1204.52	-9779.29	9799.72	11245.85	BHL @ 16904' MD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RU 604H SHL	0.00	0.00	0.00	2142882.02	2837165.31	36.888251	-107.443252
RU 604H KOP	6238.20	907.64	418.79	2143791.37	2837580.39	36.890744	-107.441820
RU 604H LPP	6864.04	1039.05	-121.59	2143920.57	2837039.48	36.891105	-107.443668
RU 604H FPP	6864.70	1202.12	-9570.29	2144045.02	2827590.19	36.891548	-107.475979
RU 604H BHL	6865.01	1204.52	-9779.29	2144046.57	2827381.18	36.891555	-107.476694



TOTAL CORRECTION: 8.46°

Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 9

Rosa Unit 604H

OH

Design: OH

Standard Survey Report

24 September, 2024

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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 9				
Site Position:		Northing:	2,142,882.02 usft	Latitude:	36.888251
From:	Lat/Long	Easting:	2,837,165.31 usft	Longitude:	-107.443252
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Rosa Unit 604H					
Well Position	+N/-S	0.00 usft	Northing:	2,142,882.02 usft	Latitude:	36.888251
	+E/-W	0.00 usft	Easting:	2,837,165.31 usft	Longitude:	-107.443252
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,260.00 usft	
Grid Convergence:	0.23 °					

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	8/2/2024	8.46	63.25	49,303.89137376

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	271.05	

Survey Program	Date	9/24/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
45.08	351.50	Survey #1 (OH)	Standard Keeper 105	Standard Wireline Keeper ver 1.0.5	
448.00	16,831.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
16,904.00	16,904.00	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	
45.08	1.65	43.83	45.07	0.47	0.45	-0.44	3.66	3.66	0.00	
86.58	1.71	59.98	86.56	1.21	1.40	-1.38	1.15	0.14	38.92	
123.72	1.58	58.56	123.68	1.75	2.32	-2.28	0.37	-0.35	-3.82	
151.60	1.20	62.56	151.55	2.09	2.90	-2.86	1.41	-1.36	14.35	
181.70	1.30	65.17	181.65	2.38	3.49	-3.45	0.38	0.33	8.67	
213.64	0.97	65.72	213.58	2.64	4.07	-4.02	1.03	-1.03	1.72	
242.88	1.17	66.02	242.81	2.86	4.57	-4.51	0.68	0.68	1.03	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)	
271.43	1.00	64.64	271.36	3.09	5.06	-5.00	0.60	-0.60	-4.83	
300.07	0.73	65.66	300.00	3.27	5.45	-5.39	0.94	-0.94	3.56	
328.21	0.77	62.93	328.13	3.43	5.78	-5.72	0.19	0.14	-9.70	
351.50	1.03	71.19	351.42	3.57	6.12	-6.05	1.24	1.12	35.47	
448.00	1.11	77.11	447.90	4.06	7.85	-7.78	0.14	0.08	6.13	
537.00	1.74	73.13	536.88	4.64	9.98	-9.90	0.72	0.71	-4.47	
625.00	3.07	66.55	624.80	5.97	13.43	-13.31	1.54	1.51	-7.48	
742.00	4.90	51.79	741.51	10.31	20.23	-20.03	1.78	1.56	-12.62	
837.00	6.28	39.66	836.06	16.82	26.73	-26.42	1.90	1.45	-12.77	
928.00	7.68	31.46	926.39	25.83	33.08	-32.60	1.88	1.54	-9.01	
1,019.00	10.07	19.98	1,016.30	38.50	38.97	-38.26	3.26	2.63	-12.62	
1,109.00	10.54	18.51	1,104.85	53.70	44.28	-43.29	0.60	0.52	-1.63	
1,199.00	10.06	15.50	1,193.40	69.08	48.99	-47.72	0.80	-0.53	-3.34	
1,294.00	11.57	17.35	1,286.71	86.17	54.05	-52.46	1.63	1.59	1.95	
1,388.00	11.78	15.14	1,378.76	104.43	59.37	-57.44	0.53	0.22	-2.35	
1,483.00	11.86	17.04	1,471.75	123.13	64.76	-62.49	0.42	0.08	2.00	
1,577.00	12.54	19.27	1,563.62	142.00	70.96	-68.34	0.88	0.72	2.37	
1,672.00	12.01	17.71	1,656.45	161.15	77.37	-74.40	0.66	-0.56	-1.64	
1,766.00	11.66	20.19	1,748.45	179.38	83.62	-80.32	0.66	-0.37	2.64	
1,861.00	11.91	28.54	1,841.46	197.00	91.62	-87.99	1.81	0.26	8.79	
1,955.00	10.67	28.68	1,933.64	213.16	100.43	-96.51	1.32	-1.32	0.15	
2,049.00	10.11	27.59	2,026.10	228.10	108.43	-104.23	0.63	-0.60	-1.16	
2,144.00	9.92	22.38	2,119.65	243.06	115.41	-110.93	0.97	-0.20	-5.48	
2,238.00	10.32	22.57	2,212.19	258.32	121.72	-116.97	0.43	0.43	0.20	
2,333.00	11.02	25.83	2,305.55	274.35	128.94	-123.89	0.97	0.74	3.43	
2,427.00	10.90	25.98	2,397.83	290.43	136.75	-131.40	0.13	-0.13	0.16	
2,522.00	10.89	24.71	2,491.12	306.66	144.44	-138.79	0.25	-0.01	-1.34	
2,616.00	10.78	25.49	2,583.44	322.66	151.93	-145.99	0.19	-0.12	0.83	
2,711.00	11.37	24.69	2,676.67	339.19	159.67	-153.42	0.64	0.62	-0.84	
2,805.00	12.01	25.96	2,768.72	356.40	167.82	-161.26	0.73	0.68	1.35	
2,900.00	11.09	27.88	2,861.80	373.36	176.42	-169.55	1.05	-0.97	2.02	
2,994.00	9.89	28.65	2,954.23	388.44	184.52	-177.37	1.29	-1.28	0.82	
3,089.00	8.67	27.17	3,047.98	401.97	191.70	-184.30	1.31	-1.28	-1.56	
3,183.00	8.48	23.89	3,140.93	414.61	197.74	-190.11	0.56	-0.20	-3.49	
3,278.00	8.14	23.67	3,234.93	427.17	203.28	-195.41	0.36	-0.36	-0.23	
3,368.00	7.95	22.91	3,324.05	438.74	208.26	-200.18	0.24	-0.21	-0.84	
3,474.00	7.22	23.36	3,429.12	451.61	213.75	-205.44	0.69	-0.69	0.42	
3,569.00	8.50	25.37	3,523.23	463.43	219.13	-210.60	1.38	1.35	2.12	
3,663.00	11.06	25.19	3,615.85	477.87	225.94	-217.15	2.72	2.72	-0.19	
3,758.00	10.78	21.88	3,709.13	494.36	233.13	-224.03	0.72	-0.29	-3.48	
3,852.00	11.18	24.39	3,801.41	510.82	240.17	-230.77	0.66	0.43	2.67	
3,947.00	11.71	26.06	3,894.52	527.87	248.21	-238.49	0.66	0.56	1.76	
4,041.00	12.69	28.44	3,986.40	545.52	257.32	-247.28	1.17	1.04	2.53	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)	
4,136.00	12.32	31.61	4,079.15	563.32	267.60	-257.23	0.82	-0.39	3.34	
4,231.00	12.51	27.09	4,171.93	581.11	277.60	-266.90	1.04	0.20	-4.76	
4,325.00	11.99	24.51	4,263.79	599.06	286.28	-275.26	0.80	-0.55	-2.74	
4,419.00	12.18	23.39	4,355.70	617.05	294.27	-282.91	0.32	0.20	-1.19	
4,514.00	13.69	22.90	4,448.29	636.60	302.62	-290.91	1.59	1.59	-0.52	
4,608.00	12.49	23.05	4,539.85	656.20	310.93	-298.86	1.28	-1.28	0.16	
4,702.00	11.83	23.09	4,631.74	674.42	318.69	-306.28	0.70	-0.70	0.04	
4,797.00	11.98	20.91	4,724.69	692.59	326.03	-313.28	0.50	0.16	-2.29	
4,891.00	11.93	20.95	4,816.66	710.78	332.98	-319.90	0.05	-0.05	0.04	
4,985.00	11.83	24.09	4,908.64	728.65	340.39	-326.98	0.70	-0.11	3.34	
5,079.00	11.49	30.35	5,000.71	745.52	349.06	-335.34	1.39	-0.36	6.66	
5,142.00	11.29	33.16	5,062.47	756.10	355.60	-341.68	0.94	-0.32	4.46	
5,205.00	10.64	32.14	5,124.32	766.19	362.07	-347.97	1.08	-1.03	-1.62	
5,268.00	10.58	30.73	5,186.24	776.08	368.12	-353.83	0.42	-0.10	-2.24	
5,331.00	9.89	29.45	5,248.24	785.77	373.73	-359.27	1.15	-1.10	-2.03	
5,395.00	9.33	26.28	5,311.34	795.20	378.73	-364.10	1.20	-0.88	-4.95	
5,458.00	9.05	26.73	5,373.53	804.21	383.22	-368.42	0.46	-0.44	0.71	
5,521.00	8.87	25.08	5,435.76	813.03	387.51	-372.54	0.50	-0.29	-2.62	
5,646.00	8.69	25.00	5,559.30	830.32	395.58	-380.30	0.14	-0.14	-0.06	
5,709.00	8.64	25.90	5,621.58	838.89	399.66	-384.22	0.23	-0.08	1.43	
5,772.00	8.70	21.71	5,683.86	847.57	403.49	-387.89	1.01	0.10	-6.65	
5,835.00	8.45	18.06	5,746.15	856.40	406.69	-390.93	0.95	-0.40	-5.79	
5,898.00	7.85	16.96	5,808.52	864.92	409.38	-393.46	0.98	-0.95	-1.75	
5,961.00	7.31	18.67	5,870.97	872.83	411.92	-395.85	0.93	-0.86	2.71	
6,024.00	6.62	13.80	5,933.50	880.15	414.07	-397.87	1.44	-1.10	-7.73	
6,087.00	5.73	12.66	5,996.14	886.75	415.62	-399.30	1.43	-1.41	-1.81	
6,184.00	5.00	8.25	6,092.71	895.66	417.29	-400.81	0.86	-0.75	-4.55	
6,300.00	4.28	11.95	6,208.33	904.89	418.91	-402.26	0.67	-0.62	3.19	
6,330.00	6.48	347.88	6,238.20	907.64	418.79	-402.08	10.36	7.34	-80.25	
KOP @ 6330' MD										
6,395.00	12.63	330.35	6,302.28	917.42	414.50	-397.62	10.36	9.46	-26.96	
6,490.00	20.14	317.19	6,393.39	938.48	398.22	-380.95	8.77	7.91	-13.85	
6,584.00	25.89	303.08	6,479.93	961.59	369.98	-352.29	8.44	6.12	-15.01	
6,678.00	32.46	291.74	6,562.03	982.17	329.27	-311.22	9.11	6.99	-12.06	
6,773.00	39.91	284.56	6,638.68	999.31	276.00	-257.64	9.01	7.84	-7.56	
6,868.00	47.38	279.54	6,707.40	1,012.79	211.92	-193.33	8.66	7.86	-5.28	
6,962.00	56.20	275.67	6,765.50	1,022.40	138.79	-120.03	9.92	9.38	-4.12	
7,056.00	65.82	274.01	6,811.01	1,029.27	56.95	-38.08	10.35	10.23	-1.77	
7,151.00	74.13	273.09	6,843.51	1,034.78	-32.05	51.01	8.79	8.75	-0.97	
7,243.00	80.07	272.38	6,864.04	1,039.05	-121.59	140.61	6.50	6.46	-0.77	
LPP @ 7243' MD										
7,245.00	80.20	272.37	6,864.38	1,039.13	-123.56	142.58	6.50	6.46	-0.75	
7,340.00	89.36	271.59	6,873.02	1,042.39	-218.01	237.07	9.68	9.64	-0.82	
7,434.00	89.26	271.90	6,874.15	1,045.25	-311.95	331.06	0.35	-0.11	0.33	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)
7,528.00	89.33	271.74	6,875.30	1,048.24	-405.90	425.04	0.19	0.07	-0.17
7,623.00	89.02	271.42	6,876.67	1,050.86	-500.85	520.03	0.47	-0.33	-0.34
7,718.00	88.55	271.50	6,878.69	1,053.28	-595.80	615.00	0.50	-0.49	0.08
7,812.00	87.98	271.90	6,881.53	1,056.07	-689.72	708.95	0.74	-0.61	0.43
7,907.00	89.13	271.46	6,883.93	1,058.85	-784.64	803.91	1.30	1.21	-0.46
8,001.00	88.79	271.09	6,885.63	1,060.94	-878.60	897.90	0.53	-0.36	-0.39
8,096.00	90.50	271.19	6,886.22	1,062.83	-973.58	992.89	1.80	1.80	0.11
8,191.00	90.03	271.16	6,885.78	1,064.78	-1,068.56	1,087.89	0.50	-0.49	-0.03
8,286.00	89.70	271.40	6,886.01	1,066.90	-1,163.53	1,182.89	0.43	-0.35	0.25
8,380.00	89.16	271.42	6,886.94	1,069.21	-1,257.50	1,276.88	0.57	-0.57	0.02
8,475.00	88.89	271.80	6,888.56	1,071.88	-1,352.45	1,371.86	0.49	-0.28	0.40
8,569.00	88.45	272.05	6,890.74	1,075.04	-1,446.37	1,465.83	0.54	-0.47	0.27
8,664.00	89.70	271.81	6,892.27	1,078.24	-1,541.30	1,560.80	1.34	1.32	-0.25
8,759.00	89.97	271.21	6,892.55	1,080.74	-1,636.27	1,655.80	0.69	0.28	-0.63
8,853.00	89.70	271.80	6,892.82	1,083.21	-1,730.24	1,749.79	0.69	-0.29	0.63
8,948.00	90.00	270.38	6,893.07	1,085.02	-1,825.22	1,844.79	1.53	0.32	-1.49
9,042.00	89.73	271.06	6,893.29	1,086.20	-1,919.21	1,938.79	0.78	-0.29	0.72
9,136.00	91.04	270.53	6,892.66	1,087.50	-2,013.19	2,032.78	1.50	1.39	-0.56
9,230.00	90.71	270.47	6,891.22	1,088.32	-2,107.18	2,126.77	0.36	-0.35	-0.06
9,325.00	90.37	270.53	6,890.33	1,089.15	-2,202.17	2,221.76	0.36	-0.36	0.06
9,419.00	89.90	270.89	6,890.10	1,090.32	-2,296.16	2,315.76	0.63	-0.50	0.38
9,514.00	90.81	269.86	6,889.52	1,090.94	-2,391.16	2,410.75	1.45	0.96	-1.08
9,608.00	90.71	269.87	6,888.27	1,090.72	-2,485.15	2,504.72	0.11	-0.11	0.01
9,703.00	90.67	270.11	6,887.12	1,090.70	-2,580.14	2,599.70	0.26	-0.04	0.25
9,797.00	90.27	270.46	6,886.35	1,091.17	-2,674.14	2,693.68	0.57	-0.43	0.37
9,892.00	90.03	270.46	6,886.11	1,091.93	-2,769.13	2,788.68	0.25	-0.25	0.00
9,986.00	89.60	271.21	6,886.41	1,093.30	-2,863.12	2,882.68	0.92	-0.46	0.80
10,080.00	88.89	271.23	6,887.65	1,095.30	-2,957.09	2,976.67	0.76	-0.76	0.02
10,175.00	90.61	270.28	6,888.06	1,096.55	-3,052.08	3,071.66	2.07	1.81	-1.00
10,269.00	90.20	270.62	6,887.40	1,097.29	-3,146.07	3,165.65	0.57	-0.44	0.36
10,363.00	89.80	270.31	6,887.40	1,098.05	-3,240.07	3,259.65	0.54	-0.43	-0.33
10,458.00	89.66	270.23	6,887.85	1,098.50	-3,335.07	3,354.64	0.17	-0.15	-0.08
10,552.00	89.26	270.22	6,888.73	1,098.87	-3,429.06	3,448.62	0.43	-0.43	-0.01
10,646.00	90.84	270.74	6,888.65	1,099.66	-3,523.06	3,542.61	1.77	1.68	0.55
10,741.00	90.84	271.03	6,887.26	1,101.13	-3,618.03	3,637.60	0.31	0.00	0.31
10,835.00	90.47	271.22	6,886.18	1,102.97	-3,712.01	3,731.60	0.44	-0.39	0.20
10,930.00	90.54	271.14	6,885.34	1,104.93	-3,806.99	3,826.59	0.11	0.07	-0.08
11,024.00	90.37	271.31	6,884.60	1,106.94	-3,900.96	3,920.59	0.26	-0.18	0.18
11,118.00	90.00	271.48	6,884.29	1,109.23	-3,994.93	4,014.59	0.43	-0.39	0.18
11,213.00	89.66	271.61	6,884.58	1,111.79	-4,089.90	4,109.58	0.38	-0.36	0.14
11,307.00	89.26	271.74	6,885.46	1,114.53	-4,183.85	4,203.57	0.45	-0.43	0.14
11,401.00	89.16	271.91	6,886.76	1,117.53	-4,277.80	4,297.56	0.21	-0.11	0.18
11,496.00	88.86	271.94	6,888.40	1,120.72	-4,372.73	4,392.53	0.32	-0.32	0.03

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)
11,590.00	89.50	271.93	6,889.74	1,123.89	-4,466.66	4,486.51	0.68	0.68	-0.01
11,685.00	90.10	272.50	6,890.08	1,127.56	-4,561.59	4,581.49	0.87	0.63	0.60
11,780.00	89.83	272.40	6,890.13	1,131.63	-4,656.51	4,676.46	0.30	-0.28	-0.11
11,874.00	89.46	272.95	6,890.72	1,136.01	-4,750.40	4,770.42	0.71	-0.39	0.59
11,969.00	90.44	271.15	6,890.80	1,139.41	-4,845.33	4,865.40	2.16	1.03	-1.89
12,063.00	90.47	271.29	6,890.05	1,141.41	-4,939.31	4,959.40	0.15	0.03	0.15
12,157.00	90.17	271.32	6,889.53	1,143.55	-5,033.28	5,053.39	0.32	-0.32	0.03
12,252.00	89.70	271.48	6,889.64	1,145.87	-5,128.26	5,148.39	0.52	-0.49	0.17
12,346.00	90.77	270.91	6,889.25	1,147.83	-5,222.23	5,242.39	1.29	1.14	-0.61
12,441.00	90.71	271.08	6,888.02	1,149.48	-5,317.21	5,337.38	0.19	-0.06	0.18
12,536.00	90.91	271.18	6,886.68	1,151.36	-5,412.18	5,432.37	0.24	0.21	0.11
12,630.00	90.84	271.14	6,885.25	1,153.26	-5,506.15	5,526.36	0.09	-0.07	-0.04
12,724.00	90.47	270.96	6,884.17	1,154.98	-5,600.13	5,620.35	0.44	-0.39	-0.19
12,818.00	90.44	271.15	6,883.42	1,156.71	-5,694.11	5,714.35	0.20	-0.03	0.20
12,913.00	90.00	270.80	6,883.06	1,158.33	-5,789.10	5,809.35	0.59	-0.46	-0.37
13,007.00	90.40	271.48	6,882.73	1,160.20	-5,883.08	5,903.35	0.84	0.43	0.72
13,102.00	90.24	271.06	6,882.20	1,162.30	-5,978.05	5,998.35	0.47	-0.17	-0.44
13,197.00	89.83	271.38	6,882.14	1,164.33	-6,073.03	6,093.35	0.55	-0.43	0.34
13,291.00	91.04	271.27	6,881.43	1,166.50	-6,167.00	6,187.34	1.29	1.29	-0.12
13,386.00	91.31	271.51	6,879.48	1,168.80	-6,261.95	6,282.32	0.38	0.28	0.25
13,480.00	91.08	271.51	6,877.52	1,171.28	-6,355.90	6,376.29	0.24	-0.24	0.00
13,574.00	90.91	271.36	6,875.89	1,173.64	-6,449.85	6,470.28	0.24	-0.18	-0.16
13,669.00	90.64	271.66	6,874.60	1,176.14	-6,544.81	6,565.27	0.42	-0.28	0.32
13,763.00	90.47	271.83	6,873.69	1,179.00	-6,638.76	6,659.26	0.26	-0.18	0.18
13,858.00	91.24	270.85	6,872.28	1,181.22	-6,733.73	6,754.24	1.31	0.81	-1.03
13,952.00	91.21	271.10	6,870.27	1,182.82	-6,827.69	6,848.22	0.27	-0.03	0.27
14,047.00	90.94	271.24	6,868.48	1,184.76	-6,922.65	6,943.20	0.32	-0.28	0.15
14,141.00	90.87	271.42	6,867.00	1,186.94	-7,016.62	7,037.19	0.21	-0.07	0.19
14,236.00	91.41	270.16	6,865.11	1,188.25	-7,111.59	7,132.17	1.44	0.57	-1.33
14,331.00	91.18	270.12	6,862.96	1,188.48	-7,206.56	7,227.13	0.25	-0.24	-0.04
14,425.00	90.91	270.05	6,861.25	1,188.62	-7,300.55	7,321.10	0.30	-0.29	-0.07
14,519.00	90.74	270.25	6,859.89	1,188.87	-7,394.54	7,415.08	0.28	-0.18	0.21
14,614.00	90.81	270.27	6,858.61	1,189.30	-7,489.53	7,510.06	0.08	0.07	0.02
14,708.00	89.80	271.29	6,858.11	1,190.58	-7,583.51	7,604.06	1.53	-1.07	1.09
14,803.00	89.66	271.24	6,858.56	1,192.68	-7,678.49	7,699.06	0.16	-0.15	-0.05
14,897.00	89.36	271.05	6,859.36	1,194.56	-7,772.47	7,793.05	0.38	-0.32	-0.20
14,991.00	89.09	271.40	6,860.63	1,196.56	-7,866.44	7,887.04	0.47	-0.29	0.37
15,086.00	88.92	271.27	6,862.28	1,198.78	-7,961.40	7,982.03	0.23	-0.18	-0.14
15,180.00	89.80	269.66	6,863.33	1,199.54	-8,055.38	8,076.01	1.95	0.94	-1.71
15,274.00	90.27	269.53	6,863.27	1,198.88	-8,149.38	8,169.98	0.52	0.50	-0.14
15,369.00	90.17	269.42	6,862.91	1,198.01	-8,244.38	8,264.95	0.16	-0.11	-0.12
15,463.00	90.03	269.35	6,862.74	1,197.00	-8,338.37	8,358.91	0.17	-0.15	-0.07
15,557.00	90.03	269.43	6,862.70	1,196.00	-8,432.37	8,452.87	0.09	0.00	0.09
15,652.00	90.24	269.74	6,862.47	1,195.31	-8,527.36	8,547.84	0.39	0.22	0.33

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)
15,746.00	89.87	269.71	6,862.38	1,194.86	-8,621.36	8,641.81	0.39	-0.39	-0.03
15,841.00	89.70	270.18	6,862.74	1,194.77	-8,716.36	8,736.79	0.53	-0.18	0.49
15,935.00	89.66	270.11	6,863.26	1,195.00	-8,810.36	8,830.78	0.09	-0.04	-0.07
16,029.00	89.70	270.19	6,863.79	1,195.25	-8,904.36	8,924.77	0.10	0.04	0.09
16,123.00	89.63	270.04	6,864.34	1,195.44	-8,998.36	9,018.75	0.18	-0.07	-0.16
16,218.00	89.63	270.26	6,864.95	1,195.69	-9,093.35	9,113.74	0.23	0.00	0.23
16,312.00	89.83	271.18	6,865.39	1,196.87	-9,187.34	9,207.73	1.00	0.21	0.98
16,407.00	90.03	271.03	6,865.51	1,198.70	-9,282.33	9,302.73	0.26	0.21	-0.16
16,501.00	90.24	270.84	6,865.29	1,200.23	-9,376.31	9,396.73	0.30	0.22	-0.20
16,595.00	90.37	270.50	6,864.79	1,201.33	-9,470.31	9,490.73	0.39	0.14	-0.36
16,690.00	89.76	270.41	6,864.68	1,202.09	-9,565.30	9,585.72	0.65	-0.64	-0.09
16,694.99	89.77	270.42	6,864.70	1,202.12	-9,570.29	9,590.71	0.32	0.22	0.23
FPP @ 16694.99' MD									
16,721.13	89.83	270.48	6,864.79	1,202.33	-9,596.43	9,616.85	0.32	0.22	0.23
330' HL Crossing @ 16721.13' MD									
16,784.00	89.97	270.63	6,864.90	1,202.94	-9,659.30	9,679.72	0.32	0.22	0.23
16,904.00	89.93	270.88	6,865.01	1,204.52	-9,779.29	9,799.72	0.21	-0.03	0.21
BHL @ 16904' MD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RU 604H SHL - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	2,142,882.02	2,837,165.31	36.888251	-107.443252
RU 604H KOP - actual wellpath hits target center - Point	0.00	0.00	6,238.20	907.64	418.79	2,143,791.37	2,837,580.39	36.890744	-107.441820
RU 604H LPP - actual wellpath hits target center - Point	0.00	0.00	6,864.04	1,039.05	-121.59	2,143,920.56	2,837,039.48	36.891105	-107.443668
RU 604H FPP - actual wellpath hits target center - Point	0.00	0.00	6,864.70	1,202.12	-9,570.29	2,144,045.02	2,827,590.19	36.891549	-107.475979
RU 604H BHL - actual wellpath hits target center - Point	0.00	0.00	6,865.01	1,204.52	-9,779.29	2,144,046.56	2,827,381.19	36.891555	-107.476694

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 604H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6260+30 @ 6290.00usft (H&P 530)
Site:	Rosa Unit 9	MD Reference:	6260+30 @ 6290.00usft (H&P 530)
Well:	Rosa Unit 604H	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)	
6,330.00	6,238.20	907.64	418.79	KOP @ 6330' MD
7,243.00	6,864.04	1,039.05	-121.59	LPP @ 7243' MD
16,694.99	6,864.70	1,202.12	-9,570.29	FPP @ 16694.99' MD
16,721.13	6,864.79	1,202.33	-9,596.43	330' HL Crossing @ 16721.13' MD
16,904.00	6,865.01	1,204.52	-9,779.29	BHL @ 16904' MD

Checked By: _____

Approved By: _____

Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

ACKNOWLEDGMENTS

Action 392000

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 392000
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

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.

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CONDITIONS

Action 392000

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 392000
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 1/23/2025.	10/23/2024