

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 612H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31432
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
L	23	31N	6W		1814' FSL	448' FWL	36.882852	-107.439650	RIO ARRIBA

Section 3 – Completion Information

Producing Method Flowing	Ready Date ~11/1/24	Perforations MD ~7,154'-17,105'	Perforations TVD ~6885' - 6873'
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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: 281800	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 282446	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: 285503	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 291730	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 30-039-31432	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 612H
OGRID No. 289408	Operator Name LOGOS OPERATING, LLC	Ground Level Elevation 6287'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL L	Section 23	Township 31N	Range 6W	Lot	Feet from N/S Line 1814' SOUTH	Feet from E/W Line 448' WEST	Latitude 36.882852 °N	Longitude -107.439650 °W	County RIO ARRIBA
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Bottom Hole Location

UL L	Section 21	Township 31N	Range 6W	Lot	Feet from N/S Line 2456' SOUTH	Feet from E/W Line 157' WEST	Latitude 36.884540 °N	Longitude -107.476647 °W	County RIO ARRIBA
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Dedicated Acres 640.00	Penetrated Spacing Unit: S/2 - Sections 21 & 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 L	Section 23	Township 31N	Range 6W	Lot	Feet from N/S Line 2042' SOUTH	Feet from E/W Line 257' WEST	Latitude 36.883478 °N	Longitude -107.440303 °W	County RIO ARRIBA
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First Take Point (FTP)

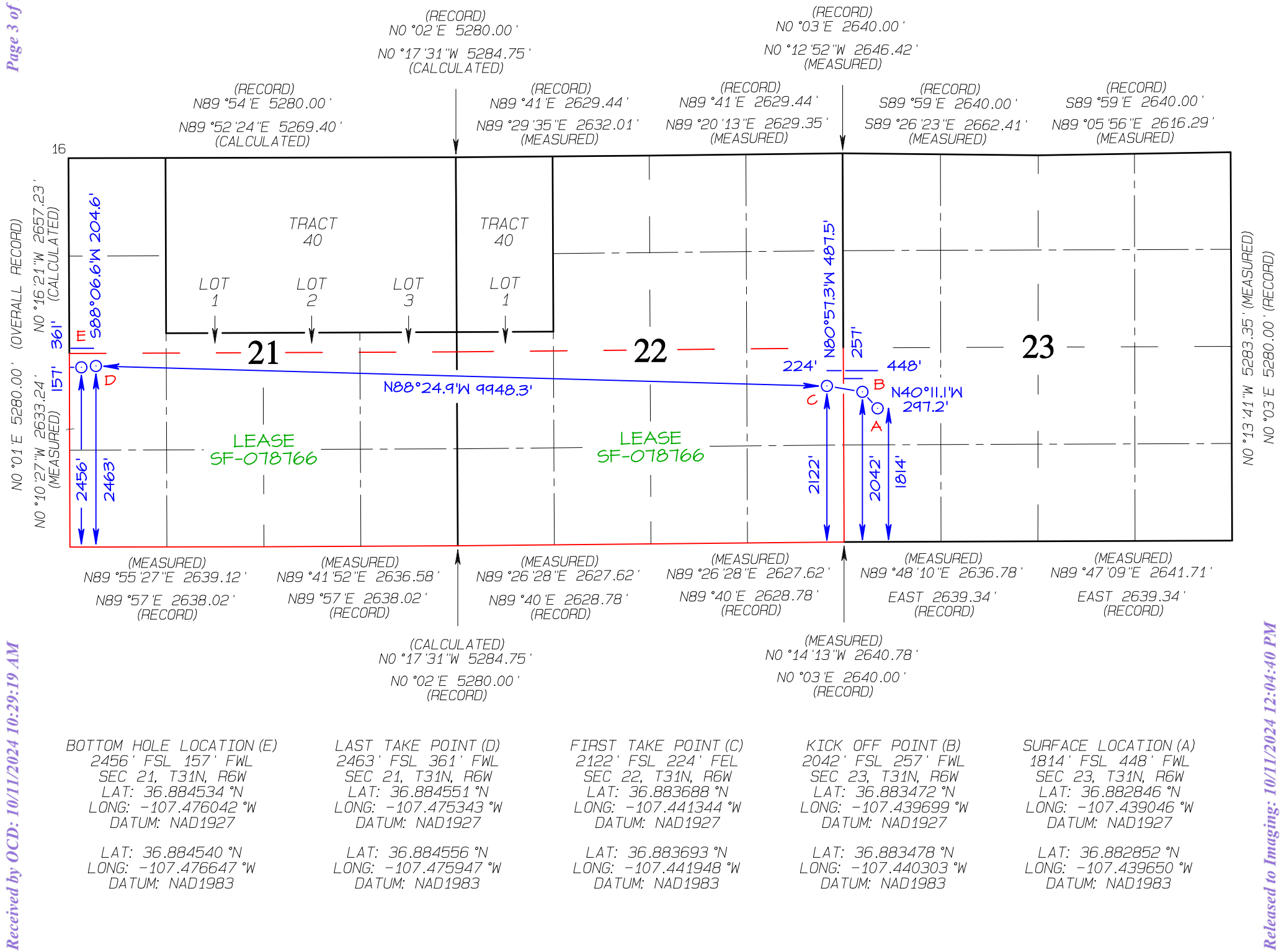
UL I	Section 22	Township 31N	Range 6W	Lot	Feet from N/S Line 2122' SOUTH	Feet from E/W Line 224' EAST	Latitude 36.883693 °N	Longitude -107.441948 °W	County RIO ARRIBA
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Last Take Point (LTP)

UL L	Section 21	Township 31N	Range 6W	Lot	Feet from N/S Line 2463' SOUTH	Feet from E/W Line 361' WEST	Latitude 36.884556 °N	Longitude -107.475947 °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. <u>Lacey Granillo</u> Signature Lacey Granillo Printed Name lgranillo@logosresourcesllc.com E-mail Address <u>9/3/24</u> Date	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 4, 2017
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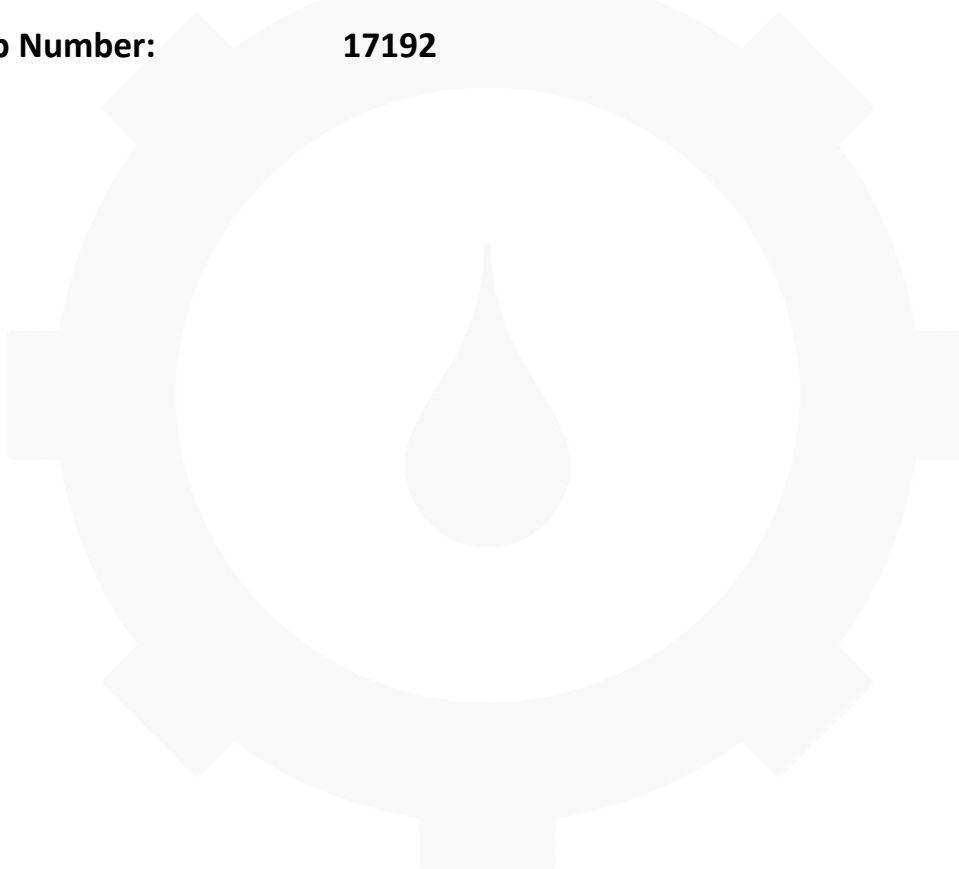
17192
Logos Operating LLC
Rosa Unit 612H - OH
New Mexico
Rio Arriba
H&P 530

End Of Well Report - 11/17/2023

**Innovative Drilling Solutions
Data-Driven Decision**



Well Name: Rosa Unit 612H
API Number: 3003931432
County: Rio Arriba County, NM
Scout Job Number: 17192



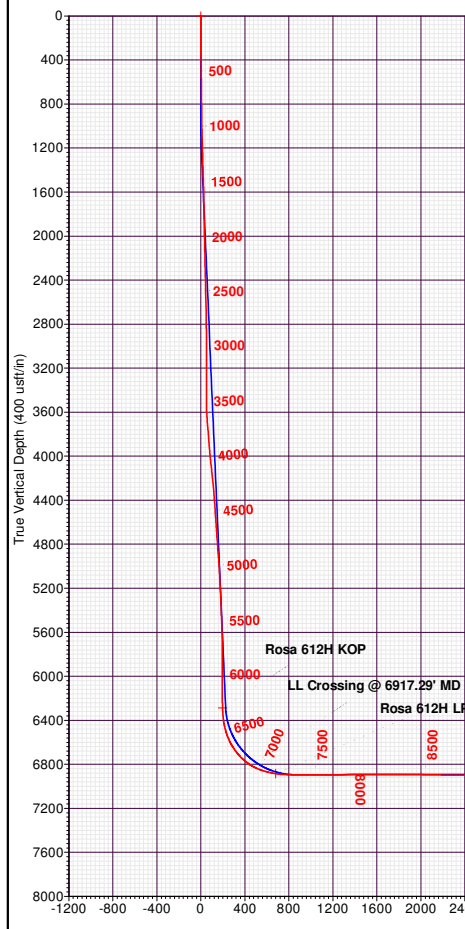
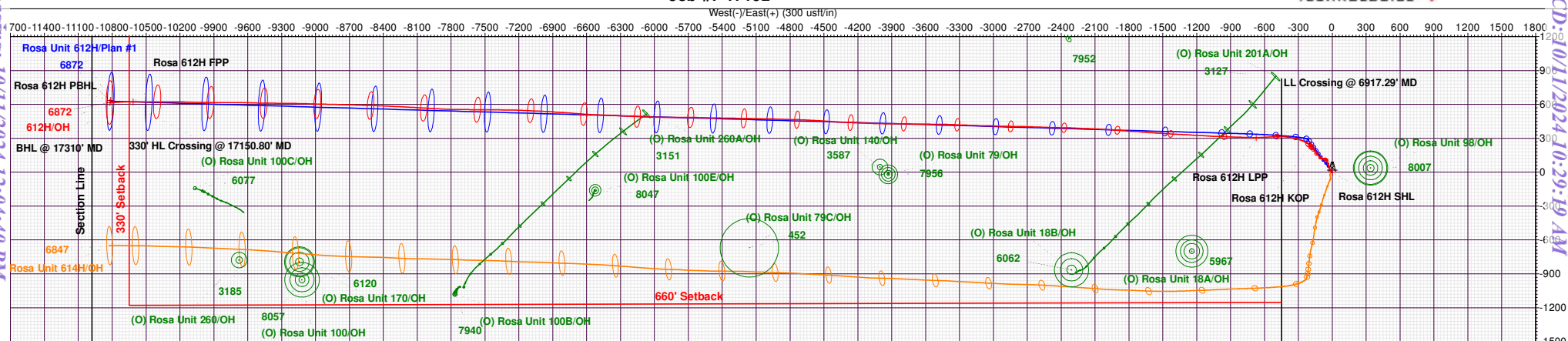
**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

**Innovative Drilling Solutions
Data-Driven Decision**



PROPOSED VS. ACTUAL PLOT FINAL SURVEY REPORT

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

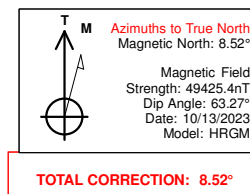
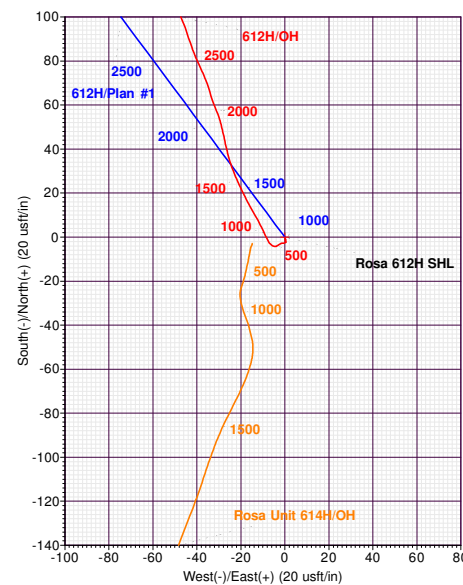


ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation
6917.29	58.98	272.00	6810.71	315.70	-449.09	458.15	614.80	LL Crossing @ 6917.29' MD
17150.80	90.31	268.74	6872.29	621.76	-1066.71	10674.35	10832.60	330' HL Crossing @ 17150.80' MD
17310.00	90.20	267.71	6871.61	616.63	-10891.82	10833.25	10991.80	BHL @ 17310' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northring	Eastting	Latitude	Longitude
Rosa 612H SHL	0.00	0.00	0.00	2140920.73	2838262.78	36.882852	-107.439650
Rosa 612H KOP	6287.35	227.76	-190.88	2141147.70	2838034.96	36.883478	-107.440303
Rosa 612H BHL	6871.61	616.63	-10819.82	2141492.72	2827404.50	36.884540	-107.476647
Rosa 612H PBHL	6872.00	635.61	-10813.53	214151.73	2827410.71	36.884592	-107.476625
Rosa 612H FPP	6872.57	622.53	-10614.91	2141499.48	2827609.38	36.884556	-107.475946
Rosa 612H LPP	6885.07	306.39	-672.02	2141224.34	2827551.59	36.883693	-107.441948



Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 10

Rosa Unit 612H

API: 3003931432

OH

Design: OH

Standard Survey Report

14 November, 2023

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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 10			
Site Position:		Northing:	2,140,923.33 usft	Latitude: 36.882859
From:	Lat/Long	Easting:	2,838,241.39 usft	Longitude: -107.439600
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	Rosa Unit 612H			
Well Position	+N/-S	0.00 usft	Northing:	2,140,920.73 usft
	+E/-W	0.00 usft	Easting:	2,838,226.78 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 6,287.00 usft
Grid Convergence:	0.24 °			

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	10/13/2023	8.52	63.27	49,425.38968693

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	271.68	

Survey Program	Date	11/14/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
60.00	340.00	Survey #1 (OH)	A020Ga_GYRO-NS	OWSG Gyrocompass Gyro	
428.00	6,208.00	Survey #2 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM	
6,302.00	11,790.00	Survey #3 - Corrected Run 1 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
11,884.00	17,175.00	Survey #4 - Corrected Run 2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
17,310.00	17,310.00	Survey #5 (OH)	Project	Projection	

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	
60.00	0.48	165.62	60.00	-0.24	0.06	-0.07	0.80	0.80	0.00	
157.00	0.71	164.62	156.99	-1.22	0.32	-0.36	0.24	0.24	-1.03	
249.00	0.67	178.01	248.99	-2.30	0.49	-0.56	0.18	-0.04	14.55	
340.00	1.16	277.03	339.98	-2.72	-0.40	0.32	1.57	0.54	108.81	
428.00	1.10	240.16	427.96	-3.03	-2.02	1.93	0.81	-0.07	-41.90	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
518.00	1.10	237.52	517.95	-3.93	-3.50	3.38	0.06	0.00	-2.93	
609.00	0.70	288.32	608.94	-4.22	-4.76	4.64	0.94	-0.44	55.82	
692.00	0.70	294.39	691.93	-3.85	-5.71	5.59	0.09	0.00	7.31	
817.00	1.10	324.27	816.92	-2.56	-7.10	7.02	0.48	0.32	23.90	
907.00	1.80	333.76	906.89	-0.59	-8.23	8.21	0.82	0.78	10.54	
998.00	1.89	335.52	997.84	2.05	-9.48	9.54	0.12	0.10	1.93	
1,090.00	2.99	332.62	1,089.75	5.56	-11.22	11.38	1.20	1.20	-3.15	
1,181.00	2.90	330.60	1,180.63	9.68	-13.44	13.72	0.15	-0.10	-2.22	
1,275.00	3.52	330.69	1,274.49	14.27	-16.02	16.43	0.66	0.66	0.10	
1,370.00	2.99	334.82	1,369.33	19.05	-18.50	19.05	0.61	-0.56	4.35	
1,464.00	3.52	334.20	1,463.18	23.87	-20.80	21.49	0.57	0.56	-0.66	
1,559.00	4.22	338.60	1,557.96	29.75	-23.34	24.21	0.80	0.74	4.63	
1,654.00	3.78	344.31	1,652.73	36.02	-25.47	26.51	0.62	-0.46	6.01	
1,748.00	4.22	347.74	1,746.50	42.38	-27.04	28.27	0.53	0.47	3.65	
1,842.00	3.69	347.39	1,840.28	48.71	-28.43	29.85	0.56	-0.56	-0.37	
1,937.00	3.12	341.67	1,935.11	54.15	-29.91	31.49	0.70	-0.60	-6.02	
2,031.00	3.30	337.81	2,028.96	59.08	-31.74	33.46	0.30	0.19	-4.11	
2,125.00	3.30	342.64	2,122.81	64.17	-33.57	35.44	0.30	0.00	5.14	
2,220.00	3.52	341.67	2,217.64	69.55	-35.30	37.33	0.24	0.23	-1.02	
2,314.00	4.09	334.38	2,311.43	75.31	-37.66	39.85	0.79	0.61	-7.76	
2,409.00	3.60	337.02	2,406.22	81.11	-40.29	42.65	0.55	-0.52	2.78	
2,504.00	2.81	340.09	2,501.07	86.05	-42.25	44.75	0.85	-0.83	3.23	
2,598.00	2.90	342.11	2,594.95	90.47	-43.76	46.40	0.14	0.10	2.15	
2,693.00	2.90	340.09	2,689.83	95.02	-45.32	48.08	0.11	0.00	-2.13	
2,788.00	2.68	336.84	2,784.72	99.32	-47.01	49.90	0.29	-0.23	-3.42	
2,882.00	2.29	336.14	2,878.63	103.06	-48.63	51.63	0.42	-0.41	-0.74	
2,977.00	1.58	340.97	2,973.58	106.03	-49.83	52.92	0.77	-0.75	5.08	
3,072.00	1.32	351.25	3,068.55	108.35	-50.42	53.58	0.39	-0.27	10.82	
3,166.00	0.48	54.10	3,162.53	109.66	-50.27	53.46	1.26	-0.89	66.86	
3,261.00	0.62	86.79	3,257.53	109.92	-49.43	52.63	0.36	0.15	34.41	
3,343.00	0.62	98.30	3,339.53	109.88	-48.55	51.75	0.15	0.00	14.04	
3,488.00	0.22	356.44	3,484.52	110.04	-47.79	51.00	0.48	-0.28	-70.25	
3,582.00	2.20	285.78	3,578.50	110.71	-49.54	52.76	2.27	2.11	-75.17	
3,677.00	4.09	288.68	3,673.35	112.29	-54.50	57.77	2.00	1.99	3.05	
3,772.00	4.79	283.49	3,768.07	114.31	-61.57	64.89	0.85	0.74	-5.46	
3,866.00	4.70	288.50	3,861.74	116.44	-69.04	72.42	0.45	-0.10	5.33	
3,961.00	5.58	286.21	3,956.36	118.97	-77.16	80.62	0.95	0.93	-2.41	
4,055.00	6.59	292.89	4,049.83	122.34	-86.52	90.07	1.31	1.07	7.11	
4,149.00	6.20	287.97	4,143.25	126.00	-96.32	99.97	0.72	-0.41	-5.23	
4,244.00	6.50	299.66	4,237.67	130.25	-105.87	109.65	1.39	0.32	12.31	
4,338.00	6.50	315.48	4,331.07	136.68	-114.23	118.19	1.90	0.00	16.83	
4,432.00	6.02	317.59	4,424.51	144.11	-121.28	125.46	0.57	-0.51	2.24	
4,527.00	5.01	314.69	4,519.07	150.70	-127.59	131.96	1.10	-1.06	-3.05	
4,622.00	5.71	315.39	4,613.65	156.99	-133.86	138.40	0.74	0.74	0.74	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)
4,716.00	6.90	325.85	4,707.09	164.99	-140.31	145.09	1.75	1.27	11.13
4,811.00	6.59	327.79	4,801.43	174.32	-146.42	151.47	0.40	-0.33	2.04
4,906.00	7.69	323.21	4,895.69	184.03	-153.14	158.46	1.30	1.16	-4.82
5,000.00	6.02	324.01	4,989.02	193.05	-159.80	165.39	1.78	-1.78	0.85
5,063.00	5.32	323.66	5,051.71	198.08	-163.47	169.21	1.11	-1.11	-0.56
5,126.00	4.88	323.39	5,114.46	202.58	-166.80	172.67	0.70	-0.70	-0.43
5,190.00	4.31	319.61	5,178.25	206.60	-169.98	175.97	1.01	-0.89	-5.91
5,252.00	4.09	321.72	5,240.09	210.11	-172.86	178.95	0.43	-0.35	3.40
5,315.00	3.91	319.00	5,302.93	213.49	-175.66	181.85	0.42	-0.29	-4.32
5,378.00	3.52	319.79	5,365.80	216.59	-178.32	184.59	0.62	-0.62	1.25
5,441.00	3.30	319.96	5,428.69	219.46	-180.73	187.09	0.35	-0.35	0.27
5,504.00	2.90	322.16	5,491.60	222.10	-182.88	189.31	0.66	-0.63	3.49
5,567.00	2.81	324.89	5,554.52	224.62	-184.74	191.25	0.26	-0.14	4.33
5,631.00	2.29	321.55	5,618.46	226.91	-186.44	193.01	0.84	-0.81	-5.22
5,694.00	1.32	319.35	5,681.42	228.45	-187.70	194.31	1.54	-1.54	-3.49
5,756.00	0.48	311.00	5,743.41	229.16	-188.36	195.00	1.37	-1.35	-13.47
5,819.00	0.09	255.54	5,806.41	229.32	-188.61	195.25	0.69	-0.62	-88.03
5,882.00	0.31	209.84	5,869.41	229.16	-188.74	195.38	0.41	0.35	-72.54
5,945.00	0.62	163.78	5,932.41	228.68	-188.73	195.35	0.73	0.49	-73.11
6,008.00	0.62	170.46	5,995.41	228.02	-188.58	195.18	0.11	0.00	10.60
6,071.00	0.88	194.37	6,058.40	227.22	-188.64	195.22	0.64	0.41	37.95
6,107.00	0.40	186.11	6,094.40	226.82	-188.72	195.29	1.35	-1.33	-22.94
6,208.00	0.40	206.32	6,195.40	226.16	-188.92	195.47	0.14	0.00	20.01
6,302.00	3.35	316.22	6,289.35	227.85	-190.96	197.56	3.73	3.14	116.91
6,397.00	9.12	321.72	6,383.74	235.77	-197.55	204.38	6.10	6.07	5.79
6,491.00	17.17	307.41	6,475.23	250.07	-213.22	220.46	9.17	8.56	-15.22
6,586.00	25.16	298.90	6,563.77	268.38	-242.09	249.85	8.99	8.41	-8.96
6,681.00	33.96	288.34	6,646.38	286.54	-285.07	293.35	10.73	9.26	-11.12
6,776.00	42.28	282.79	6,721.07	301.99	-341.53	350.24	9.46	8.76	-5.84
6,871.00	53.22	275.98	6,784.89	313.07	-410.79	419.79	12.67	11.52	-7.17
6,965.00	65.02	268.38	6,833.10	315.80	-491.19	500.23	14.33	12.55	-8.09
7,060.00	75.22	265.54	6,865.37	311.00	-580.27	589.13	11.10	10.74	-2.99
7,154.00	80.58	268.67	6,885.07	306.39	-672.02	680.71	6.57	5.70	3.33
7,249.00	88.72	272.88	6,893.93	307.69	-766.49	775.18	9.64	8.57	4.43
7,336.00	90.26	271.81	6,894.70	311.25	-853.41	862.17	2.15	1.77	-1.23
Actual POE @ 7336' MD									
7,344.00	90.40	271.71	6,894.66	311.49	-861.41	870.17	2.15	1.77	-1.23
7,438.00	89.97	271.71	6,894.35	314.30	-955.37	964.17	0.46	-0.46	0.00
7,533.00	90.00	273.12	6,894.38	318.30	-1,050.28	1,059.16	1.48	0.03	1.48
7,628.00	89.56	273.17	6,894.74	323.51	-1,145.13	1,154.13	0.47	-0.46	0.05
7,723.00	90.87	273.21	6,894.39	328.80	-1,239.98	1,249.09	1.38	1.38	0.04
7,818.00	90.37	272.91	6,893.36	333.87	-1,334.84	1,344.06	0.61	-0.53	-0.32
7,913.00	90.13	273.23	6,892.94	338.96	-1,429.71	1,439.03	0.42	-0.25	0.34

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)
8,008.00	90.30	273.59	6,892.59	344.61	-1,524.54	1,533.98	0.42	0.18	0.38
8,102.00	90.00	273.76	6,892.34	350.63	-1,618.34	1,627.93	0.37	-0.32	0.18
8,197.00	90.00	274.16	6,892.34	357.19	-1,713.12	1,722.85	0.42	0.00	0.42
8,291.00	89.87	274.22	6,892.45	364.06	-1,806.86	1,816.76	0.15	-0.14	0.06
8,386.00	89.73	274.80	6,892.78	371.53	-1,901.57	1,911.64	0.63	-0.15	0.61
8,481.00	88.86	272.51	6,893.95	377.59	-1,996.36	2,006.57	2.58	-0.92	-2.41
8,576.00	88.99	273.34	6,895.73	382.43	-2,091.22	2,101.53	0.88	0.14	0.87
8,670.00	89.56	272.25	6,896.92	387.02	-2,185.10	2,195.51	1.31	0.61	-1.16
8,765.00	89.23	272.40	6,897.92	390.87	-2,280.02	2,290.49	0.38	-0.35	0.16
8,859.00	90.00	270.96	6,898.56	393.63	-2,373.97	2,384.49	1.74	0.82	-1.53
8,954.00	89.70	271.40	6,898.80	395.58	-2,468.95	2,479.49	0.56	-0.32	0.46
9,048.00	89.46	271.81	6,899.49	398.21	-2,562.91	2,573.48	0.51	-0.26	0.44
9,142.00	89.19	272.13	6,900.60	401.45	-2,656.85	2,667.47	0.45	-0.29	0.34
9,237.00	90.13	270.69	6,901.16	403.78	-2,751.81	2,762.47	1.81	0.99	-1.52
9,331.00	89.63	270.93	6,901.36	405.11	-2,845.80	2,856.46	0.59	-0.53	0.26
9,425.00	89.56	271.53	6,902.03	407.13	-2,939.78	2,950.45	0.64	-0.07	0.64
9,520.00	89.29	271.48	6,902.98	409.62	-3,034.74	3,045.45	0.29	-0.28	-0.05
9,615.00	89.33	272.12	6,904.12	412.61	-3,129.69	3,140.44	0.67	0.04	0.67
9,709.00	89.09	272.03	6,905.42	416.01	-3,223.62	3,234.43	0.27	-0.26	-0.10
9,804.00	88.86	272.52	6,907.12	419.78	-3,318.53	3,329.41	0.57	-0.24	0.52
9,898.00	88.15	271.23	6,909.57	422.86	-3,412.44	3,423.37	1.57	-0.76	-1.37
9,993.00	89.66	270.78	6,911.39	424.52	-3,507.41	3,518.34	1.66	1.59	-0.47
10,088.00	89.33	271.03	6,912.22	426.02	-3,602.39	3,613.33	0.44	-0.35	0.26
10,182.00	89.93	270.19	6,912.83	427.02	-3,696.38	3,707.31	1.10	0.64	-0.89
10,277.00	89.70	270.42	6,913.14	427.53	-3,791.38	3,802.28	0.34	-0.24	0.24
10,371.00	89.60	270.03	6,913.71	427.90	-3,885.38	3,896.25	0.43	-0.11	-0.41
10,466.00	90.98	271.46	6,913.23	429.13	-3,980.36	3,991.23	2.09	1.45	1.51
10,560.00	90.71	271.83	6,911.84	431.83	-4,074.31	4,085.22	0.49	-0.29	0.39
10,655.00	90.57	272.09	6,910.78	435.08	-4,169.25	4,180.22	0.31	-0.15	0.27
10,749.00	90.64	272.82	6,909.79	439.11	-4,263.16	4,274.20	0.78	0.07	0.78
10,844.00	90.44	273.34	6,908.90	444.21	-4,358.02	4,369.17	0.59	-0.21	0.55
10,939.00	90.37	273.57	6,908.22	449.94	-4,452.84	4,464.12	0.25	-0.07	0.24
11,033.00	90.00	273.54	6,907.92	455.76	-4,546.66	4,558.07	0.39	-0.39	-0.03
11,128.00	90.97	273.07	6,907.12	461.24	-4,641.50	4,653.03	1.13	1.02	-0.49
11,223.00	90.67	271.13	6,905.76	464.72	-4,736.42	4,748.01	2.07	-0.32	-2.04
11,318.00	90.67	271.87	6,904.65	467.21	-4,831.38	4,843.00	0.78	0.00	0.78
11,412.00	90.37	271.85	6,903.79	470.26	-4,925.33	4,937.00	0.32	-0.32	-0.02
11,506.00	89.53	271.18	6,903.87	472.74	-5,019.29	5,031.00	1.14	-0.89	-0.71
11,601.00	89.26	271.26	6,904.88	474.77	-5,114.27	5,125.99	0.30	-0.28	0.08
11,695.00	90.00	270.60	6,905.48	476.29	-5,208.25	5,219.98	1.05	0.79	-0.70
11,790.00	90.00	270.80	6,905.48	477.45	-5,303.24	5,314.96	0.21	0.00	0.21
11,884.00	89.97	271.47	6,905.51	479.31	-5,397.22	5,408.96	0.71	-0.03	0.71
11,978.00	90.07	271.18	6,905.48	481.49	-5,491.20	5,502.95	0.33	0.11	-0.31

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
12,072.00	90.00	271.21	6,905.42	483.45	-5,585.18	5,596.95	0.08	-0.07	0.03	
12,167.00	90.17	270.54	6,905.28	484.90	-5,680.17	5,691.94	0.73	0.18	-0.71	
12,262.00	90.47	270.32	6,904.75	485.61	-5,775.16	5,786.92	0.39	0.32	-0.23	
12,356.00	90.64	269.71	6,903.84	485.64	-5,869.16	5,880.87	0.67	0.18	-0.65	
12,450.00	90.44	271.54	6,902.95	486.66	-5,963.14	5,974.85	1.96	-0.21	1.95	
12,544.00	90.71	270.74	6,902.01	488.53	-6,057.12	6,068.84	0.90	0.29	-0.85	
12,639.00	90.27	273.19	6,901.20	491.79	-6,152.05	6,163.83	2.62	-0.46	2.58	
12,734.00	90.30	272.88	6,900.72	496.82	-6,246.92	6,258.80	0.33	0.03	-0.33	
12,828.00	90.57	272.57	6,900.01	501.29	-6,340.81	6,352.78	0.44	0.29	-0.33	
12,923.00	90.94	272.31	6,898.76	505.33	-6,435.71	6,447.76	0.48	0.39	-0.27	
13,017.00	90.91	272.21	6,897.24	509.04	-6,529.63	6,541.75	0.11	-0.03	-0.11	
13,112.00	90.17	274.35	6,896.34	514.47	-6,624.46	6,636.70	2.38	-0.78	2.25	
13,207.00	89.16	274.06	6,896.90	521.44	-6,719.20	6,731.60	1.11	-1.06	-0.31	
13,301.00	89.23	273.99	6,898.22	528.04	-6,812.96	6,825.52	0.11	0.07	-0.07	
13,395.00	89.53	273.70	6,899.24	534.34	-6,906.75	6,919.44	0.44	0.32	-0.31	
13,490.00	89.70	272.72	6,899.88	539.66	-7,001.59	7,014.41	1.05	0.18	-1.03	
13,584.00	89.87	272.83	6,900.23	544.21	-7,095.48	7,108.39	0.22	0.18	0.12	
13,678.00	90.13	271.88	6,900.23	548.07	-7,189.40	7,202.38	1.05	0.28	-1.01	
13,773.00	90.20	271.07	6,899.96	550.52	-7,284.37	7,297.38	0.86	0.07	-0.85	
13,867.00	90.24	270.94	6,899.59	552.17	-7,378.35	7,391.37	0.14	0.04	-0.14	
13,962.00	90.34	270.32	6,899.11	553.21	-7,473.35	7,486.35	0.66	0.11	-0.65	
14,056.00	90.61	269.81	6,898.33	553.32	-7,567.34	7,580.31	0.61	0.29	-0.54	
14,151.00	90.57	270.72	6,897.36	553.76	-7,662.34	7,675.28	0.96	-0.04	0.96	
14,246.00	90.94	270.63	6,896.10	554.88	-7,757.32	7,770.25	0.40	0.39	-0.09	
14,340.00	90.64	272.55	6,894.81	557.48	-7,851.27	7,864.24	2.07	-0.32	2.04	
14,435.00	89.80	273.81	6,894.44	562.75	-7,946.12	7,959.20	1.59	-0.88	1.33	
14,530.00	89.87	273.03	6,894.72	568.42	-8,040.95	8,054.16	0.82	0.07	-0.82	
14,624.00	89.80	273.40	6,894.99	573.69	-8,134.80	8,148.13	0.40	-0.07	0.39	
14,719.00	90.00	272.80	6,895.15	578.83	-8,229.66	8,243.10	0.67	0.21	-0.63	
14,813.00	89.93	272.54	6,895.21	583.21	-8,323.56	8,337.08	0.29	-0.07	-0.28	
14,908.00	90.44	272.25	6,894.90	587.18	-8,418.48	8,432.07	0.62	0.54	-0.31	
15,002.00	90.77	272.10	6,893.91	590.75	-8,512.40	8,526.06	0.39	0.35	-0.16	
15,096.00	91.14	271.54	6,892.34	593.73	-8,606.34	8,620.05	0.71	0.39	-0.60	
15,190.00	91.31	271.65	6,890.33	596.35	-8,700.29	8,714.03	0.22	0.18	0.12	
15,285.00	90.10	271.55	6,889.17	599.00	-8,795.24	8,809.02	1.28	-1.27	-0.11	
15,379.00	90.27	271.29	6,888.86	601.33	-8,889.21	8,903.02	0.33	0.18	-0.28	
15,474.00	90.40	271.76	6,888.31	603.86	-8,984.17	8,998.02	0.51	0.14	0.49	
15,568.00	90.37	271.38	6,887.68	606.43	-9,078.14	9,092.01	0.41	-0.03	-0.40	
15,663.00	90.67	270.98	6,886.81	608.39	-9,173.11	9,187.01	0.53	0.32	-0.42	
15,758.00	90.87	270.67	6,885.54	609.76	-9,268.09	9,281.99	0.39	0.21	-0.33	
15,852.00	90.97	270.26	6,884.03	610.52	-9,362.08	9,375.95	0.45	0.11	-0.44	
15,947.00	89.97	271.10	6,883.25	611.65	-9,457.07	9,470.93	1.37	-1.05	0.88	
16,041.00	90.24	270.92	6,883.08	613.30	-9,551.05	9,564.93	0.35	0.29	-0.19	
16,136.00	90.54	271.01	6,882.43	614.90	-9,646.04	9,659.92	0.33	0.32	0.09	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	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)	
16,231.00	90.57	270.87	6,881.51	616.46	-9,741.02	9,754.90	0.15	0.03	-0.15	
16,325.00	90.57	269.49	6,880.57	616.76	-9,835.01	9,848.87	1.47	0.00	-1.47	
16,420.00	90.81	270.98	6,879.43	617.15	-9,930.00	9,943.83	1.59	0.25	1.57	
16,514.00	90.81	270.95	6,878.10	618.73	-10,023.98	10,037.81	0.03	0.00	-0.03	
16,609.00	90.97	270.98	6,876.63	620.33	-10,118.95	10,132.79	0.17	0.17	0.03	
16,703.00	90.44	270.84	6,875.47	621.82	-10,212.93	10,226.77	0.58	-0.56	-0.15	
16,798.00	90.30	270.25	6,874.86	622.73	-10,307.93	10,321.75	0.64	-0.15	-0.62	
16,892.00	90.44	270.23	6,874.25	623.12	-10,401.92	10,415.72	0.15	0.15	-0.02	
16,987.00	90.47	269.86	6,873.49	623.19	-10,496.92	10,510.68	0.39	0.03	-0.39	
17,081.00	90.44	269.61	6,872.75	622.76	-10,590.92	10,604.62	0.27	-0.03	-0.27	
17,105.40	90.40	269.31	6,872.57	622.53	-10,615.32	10,629.00	1.26	-0.18	-1.24	
Actual FPP @ 17105.4' MD										
17,175.00	90.27	268.44	6,872.16	621.16	-10,684.90	10,698.52	1.26	-0.18	-1.24	
17,310.00	90.20	267.71	6,871.61	616.63	-10,819.82	10,833.25	0.54	-0.05	-0.54	
BHL @ 17310' 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									
Rosa 612H SHL	0.00	0.00	0.00	0.00	0.00	2,140,920.73	2,838,226.78	36.882852	-107.439650
- actual wellpath hits target center									
- Point									
Rosa 612H BHL	0.00	0.00	6,871.61	616.63	-10,819.82	2,141,492.72	2,827,404.51	36.884540	-107.476647
- actual wellpath hits target center									
- Point									
Rosa 612H PBHL	0.00	0.00	6,872.00	635.61	-10,813.53	2,141,511.73	2,827,410.72	36.884592	-107.476626
- actual wellpath misses target center by 18.72usft at 17303.08usft MD (6871.64 TVD, 616.90 N, -10812.90 E)									
- Point									
Rosa 612H Actual FPP	0.00	0.00	6,872.57	622.53	-10,615.32	2,141,499.47	2,827,608.99	36.884556	-107.475948
- actual wellpath hits target center									
- Point									
Rosa 612H Actual POE	0.00	0.00	6,894.70	311.25	-853.41	2,141,228.45	2,837,372.09	36.883707	-107.442568
- actual wellpath hits target center									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,336.00	6,894.70	311.25	-853.41	Actual POE @ 7336' MD	
17,105.40	6,872.57	622.53	-10,615.32	Actual FPP @ 17105.4' MD	
17,310.00	6,871.61	616.63	-10,819.82	BHL @ 17310' MD	

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 612H
Project:	Rio Arriba, NM (NAD83)	TVD Reference:	6287+30 @ 6317.00usft (H&P 530)
Site:	Rosa Unit 10	MD Reference:	6287+30 @ 6317.00usft (H&P 530)
Well:	Rosa Unit 612H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000 Multi User Db

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

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

ACKNOWLEDGMENTS

Action 391946

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 391946
	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.

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

CONDITIONS

Action 391946

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 391946
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 1/11/2025.	10/11/2024