

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
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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 702H	Property Code: 320608
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-039-31439
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
J	7	31N	5W		2612' FSL	1322' FEL	36.913961	-107.399257	Rio Arriba

Section 3 – Completion Information

Producing Method Flowing	Ready Date ~10/14/2024	Perforations MD ~7388' – 17,913'	Perforations TVD ~6936' – 6931'
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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: 335995	Unit: ☒ Yes ☐ No, Order No. R-13457
Intermediate 1 Casing Action ID: 365433	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID: N/A	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 368573	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>Ella Trujillo</i>	
Title Regulatory Specialist II	Date 9/25/2024

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 30-039-31439	Pool Code 97232	Pool Name BASIN MANCOS
Property Code 320608	Property Name ROSA UNIT	Well Number 702H
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 J	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 2612' SOUTH	Feet from E/W Line 1322' EAST	Latitude 36.913961°N	Longitude -107.399257°W	County RIO ARriba
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Bottom Hole Location

UL M	Section 11	Township 31N	Range 6W	Lot	Feet from N/S Line 1070' SOUTH	Feet from E/W Line 1001' WEST	Latitude 36.909831°N	Longitude -107.437805°W	County RIO ARriba
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Dedicated Acres 823.25	Penetrated Spacing Unit: S/2 - Sections 11, 12, T31N, R6W S/2 - Section 7, T31N, R5W	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 O	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 1297' SOUTH	Feet from E/W Line 1342' EAST	Latitude 36.910348°N	Longitude -107.399321°W	County RIO ARriba
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First Take Point (FTP)

UL O	Section 7	Township 31N	Range 5W	Lot	Feet from N/S Line 1165' SOUTH	Feet from E/W Line 1873' EAST	Latitude 36.909986°N	Longitude -107.401137°W	County RIO ARriba
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Last Take Point (LTP)

UL M	Section 11	Township 31N	Range 6W	Lot	Feet from N/S Line 1076' SOUTH	Feet from E/W Line 1204' WEST	Latitude 36.909844°N	Longitude -107.437111°W	County RIO ARriba
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Unitized Area or Area of Uniform Interest ROSA UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical	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. Etta Trujillo Signature 8/29/2024 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
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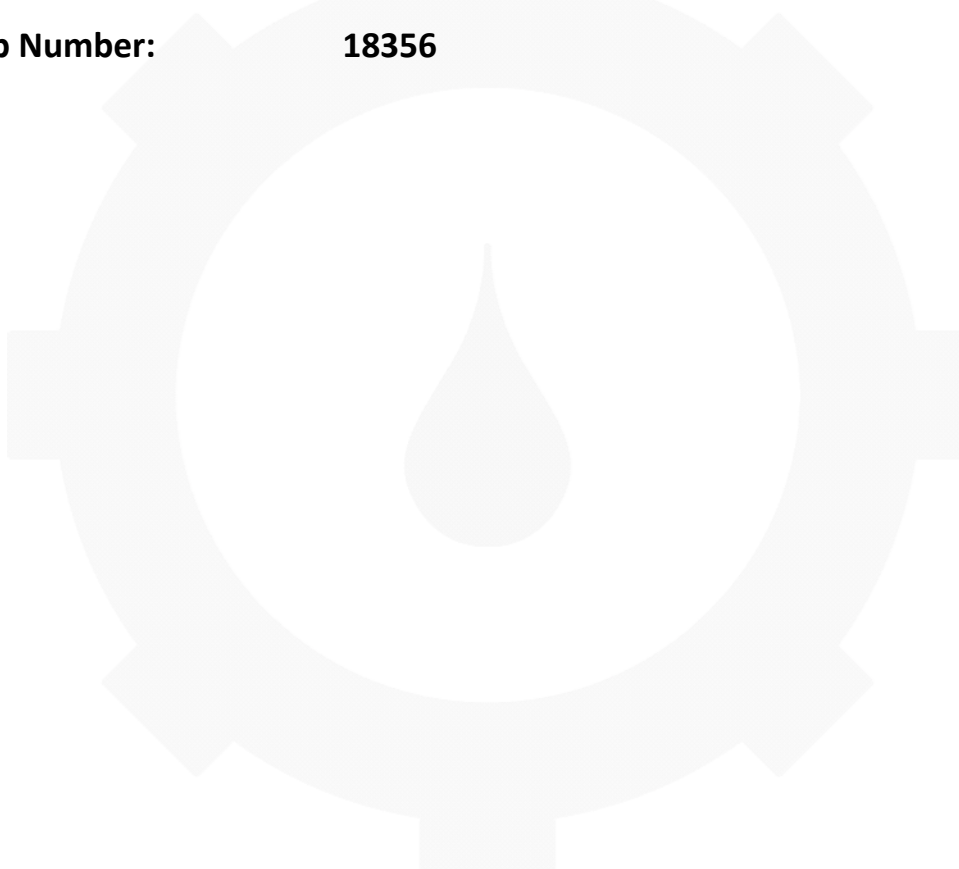
**18356
Logos Operating LLC
Rosa Unit 702H - OH
New Mexico
Rio Arriba
HP 530**

End Of Well Report - 07/18/2024

**Innovative Drilling Solutions
Data-Driven Decision**



Well Name: Rosa Unit 702H
API Number: 3003931439
County: Rio Arriba County, NM
Scout Job Number: 18356

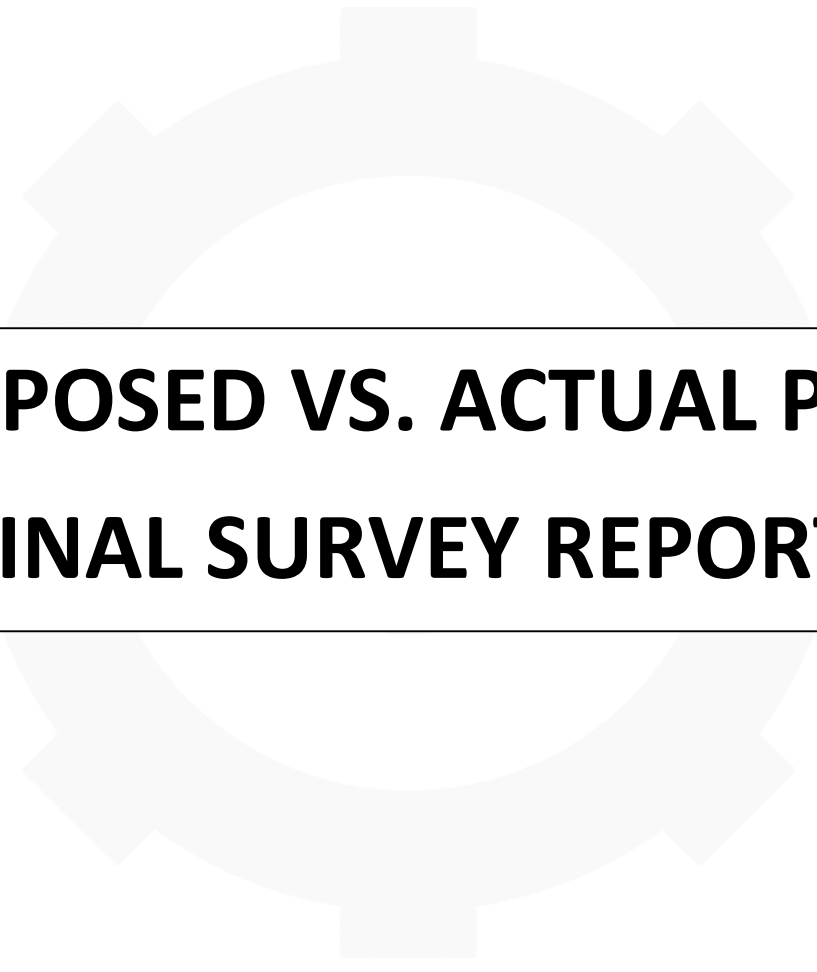


**Scout Drilling Technologies
1125 Beach Airport Road, Conroe, Texas 77301
Office: 936-756-3210
www.scoutdrilltech.com**

Well Summary

			Rosa Unit 702H - OH - Well Summary								
Job #		18356		Operator		Logos Operating LLC					
API Job# / AFE		/20*240104		Field		Rio Arriba, NM(NAD83) - Logos Operating LLC					
Rig		HP 530		Well		Rosa Unit 702H					
County		Rio Arriba		State		New Mexico					
Latitude		36° 54' 50.260" N		Longitude		107° 23' 57.325" W					
Start Date		04/11/2024		Start Depth(Usft)		36.00					
End Date		07/14/2024		End Depth(Usft)		18116.00					
Total Days		16		Total Drilled (Usft)		18080.00					
Cost per day		11244.06		Cost per (Usft)		9.95					
Curve Lndg MD / TVD		18116.00 / 6932.33		Formation							
Curve Planned DLS		9.14		Lateral Dip		90.19					
BHA Summary											
BHA #	Bit #	Hole Size (in)	Start (Usft)	End (Usft)	Drilled (Usft)	Avg ROP (Usft/hr)	Slide %	Drig Hrs	Circ Hrs	BRT Hrs	Failed
1	1	26.000	36.00	375.00	339.00	28.33	0.00	11.97	1.13	21.33	
2	2	12.250	375.00	6416.00	6041.00	114.59	12.22	52.72	22.90	115.50	
3	3	8.500	6416.00	18116.00	11700.00	176.74	7.75	66.20	12.83	124.25	
Bit Run Record											
Bit #	Make	Model	Size (in)	Grade In	Grade Out	TFA	Drilled	Drig Hrs	ROP		
1	NOV	TK95	26.000	1-1-WT-A-X-I-NO-TD		2.071	339.00	11.97	28.33		
2	Ulterra	WAV616	12.250	New	1-1-BT-G-X-I-NO-TD	1.696	6041.00	52.72	114.59		
3	Baker Hughes	DD406TS	8.500	New	1-2-CT-G-X-I-NO-TD	0.994	11700.00	66.20	176.74		
Motor Summary											
BHA #	Make	Model	Lobes	Stages	OD (in)	Bend	Bit to Bend	Drilled (Usft)	ROP (Usft/hr)		
1	Scout	Turbo Scout	7/8	3.9	9.620	0.00	0.00	339.00	28.33		
2			7/8	5.9	9.620	2.12	8.65	6041.00	114.59		
3			5/6	9.6	7.120	1.75	4.84	11700.00	176.74		
Personnel Summary											
Day DD		Night DD	Day MWD		Night MWD	Day Co Man		Night CO Man		Drilling Eng	
Martin Leafstedt		Chris Hite	JC Slanton		Marlon Martin	Andrew Baltes		Andrew Baltes		Ryan Haddow	
		Marc Keim	Tyler Sjogren			Ryan Buford		Brian Mitchell			
		Will Drake						John Holland			
Phase Summary											
Phase			Days	Drilled (Usft)		Avg ROP (Usft/hr)		NPT (Rig/Dir)		# BHA's	Drig Hrs
SURFACE: SURFACE			1.65	339.00		28.33		3.13 / 0.00		1	11.97
INT-1: INTERMEDIATE 1			6.00	6041.00		114.59		5.27 / 0.00		1	52.72
CRVLAT: CURVE/LATERAL			7.65	11700.00		176.74		7.43 / 0.00		1	66.20
STBY: STANDBY			0.71								
Total			16.00	18080.00		138.14		15.83 / 0.00		3	130.88
Phase Summary - Per BHA											
Phase / BHA				From (Usft)	To(Usft)	Rot ROP	Rot Dist	Slide ROP	Slide Dist	Slide %	Tot Drill
SURFACE: SURFACE-BHA#1 (Surface)				36.00	375.00	28.33	339.00	0.00	0.00	0.00	339.00
INT-1: INTERMEDIATE 1-BHA2(Intermediate)				375.00	6416.00	123.76	5303.00	74.80	738.00	12.22	6041.00
CRVLAT: CURVE/LATERAL-BHA3 (Curve-Lateral)				6416.00	18116.00	199.69	10793.00	74.65	907.00	7.75	11700.00

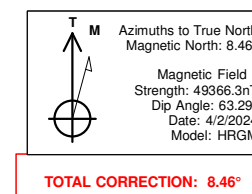
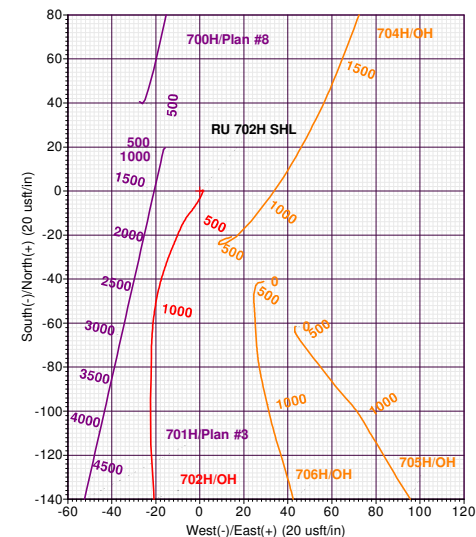
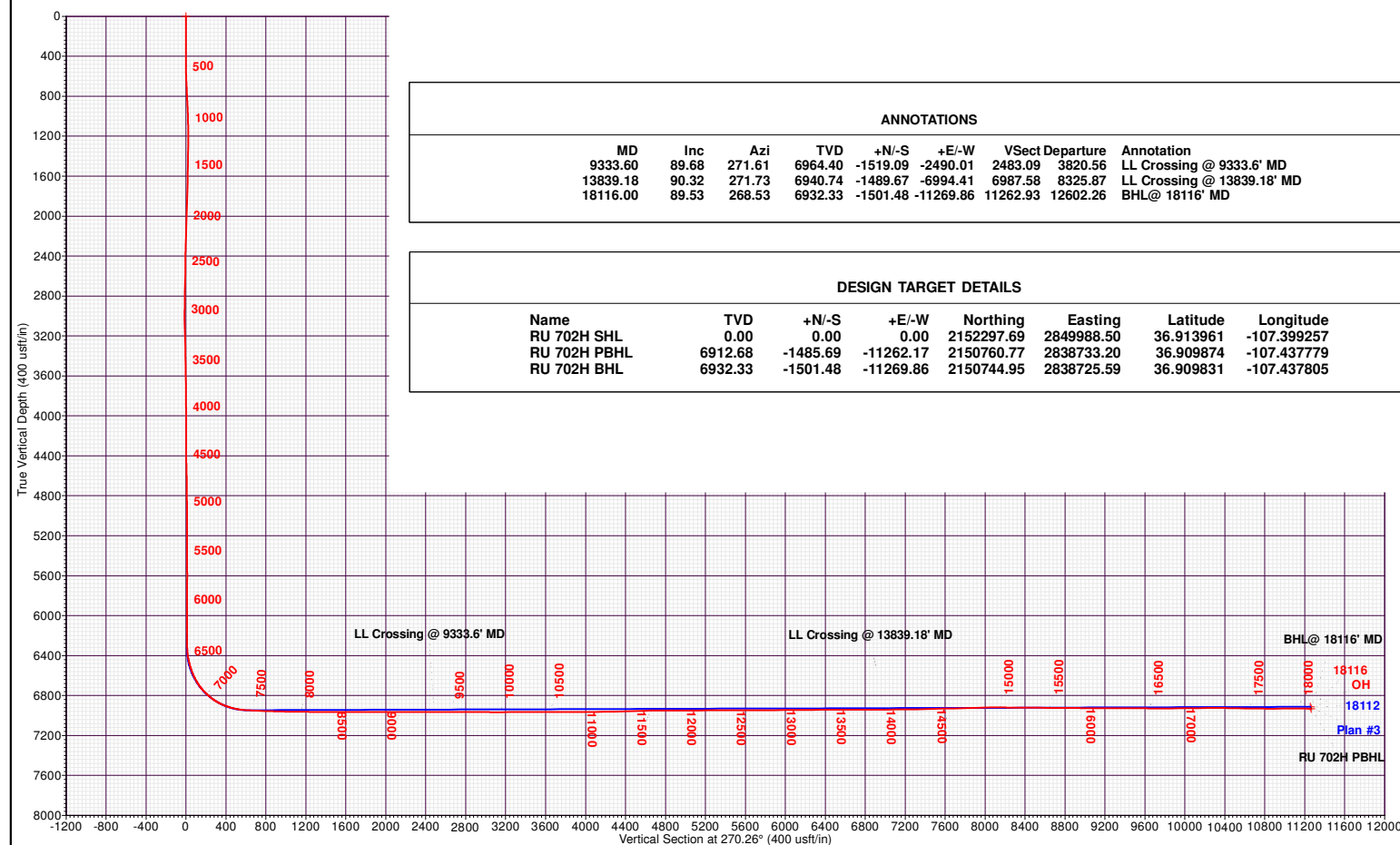
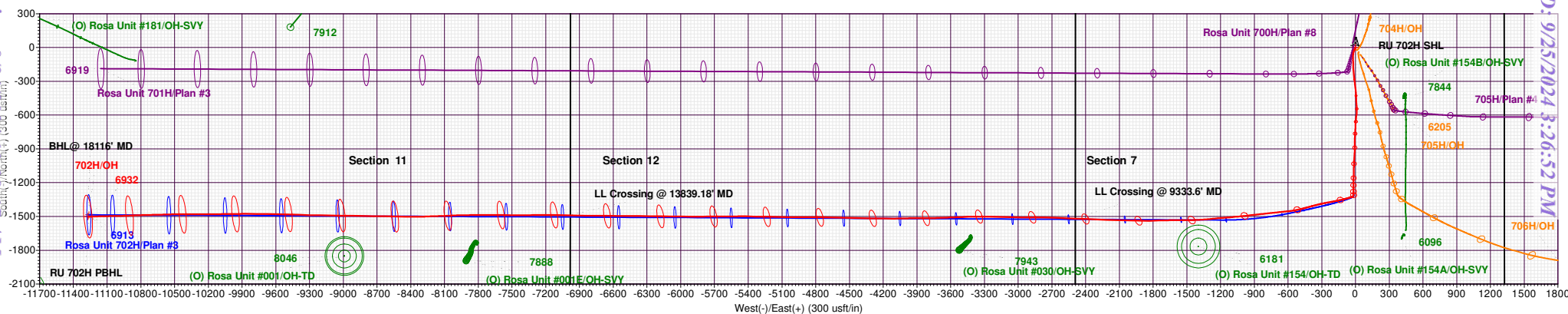
**Innovative Drilling Solutions
Data-Driven Decision**

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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 24
Well: Rosa Unit 702H
Depth Reference: 6295+30 @ 6325.00usft (H&P 530)
Rig: H&P 530
Plan: OH
Job #: 18356



Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 24

Rosa Unit 702H

OH

Design: OH

Standard Survey Report

18 July, 2024

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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 702H					
Well Position	+N/-S	0.00 usft	Northing:	2,152,297.69 usft	Latitude:	36.913961
	+E/-W	0.00 usft	Easting:	2,849,988.50 usft	Longitude:	-107.399257
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	49,366.30994752

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	270.26	

Survey Program	Date	7/18/2024			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
54.25	308.67	Survey #1 (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
454.00	18,048.00	Survey #2 (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction	
18,116.00	18,116.00	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	
54.25	0.24	61.55	54.25	0.05	0.10	-0.10	0.44	0.44	0.00	
130.42	0.30	88.71	130.42	0.13	0.44	-0.44	0.18	0.08	35.66	
219.69	0.32	62.64	219.69	0.25	0.89	-0.89	0.16	0.02	-29.20	
308.67	0.36	71.55	308.67	0.46	1.38	-1.38	0.07	0.04	10.01	
454.00	0.80	206.07	453.99	-0.31	1.37	-1.37	0.75	0.30	92.56	
544.00	3.10	205.96	543.93	-3.06	0.03	-0.04	2.56	2.56	-0.12	
667.00	4.87	218.88	666.63	-10.12	-4.71	4.66	1.60	1.44	10.50	

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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)
756.00	5.54	203.95	755.27	-16.99	-8.82	8.75	1.69	0.75	-16.78
850.00	7.84	202.30	848.62	-27.07	-13.10	12.98	2.46	2.45	-1.76
942.00	10.07	196.05	939.50	-40.60	-17.70	17.52	2.64	2.42	-6.79
1,033.00	11.54	186.75	1,028.89	-57.29	-20.97	20.71	2.50	1.62	-10.22
1,123.00	12.02	180.51	1,117.00	-75.60	-22.12	21.77	1.51	0.53	-6.93
1,214.00	12.01	181.17	1,206.00	-94.54	-22.39	21.96	0.15	-0.01	0.73
1,309.00	12.95	178.14	1,298.76	-115.06	-22.25	21.73	1.21	0.99	-3.19
1,403.00	12.78	175.14	1,390.40	-135.95	-21.03	20.41	0.73	-0.18	-3.19
1,498.00	13.65	178.38	1,482.89	-157.63	-19.82	19.10	1.20	0.92	3.41
1,592.00	15.61	178.82	1,573.83	-181.36	-19.25	18.42	2.09	2.09	0.47
1,687.00	15.63	175.94	1,665.33	-206.90	-18.08	17.14	0.82	0.02	-3.03
1,876.00	15.56	173.26	1,847.37	-257.48	-13.30	12.13	0.38	-0.04	-1.42
1,970.00	15.70	173.06	1,937.90	-282.62	-10.28	9.00	0.16	0.15	-0.21
2,064.00	15.43	172.54	2,028.45	-307.65	-7.12	5.73	0.32	-0.29	-0.55
2,159.00	15.55	171.75	2,120.00	-332.78	-3.65	2.14	0.26	0.13	-0.83
2,348.00	14.65	176.04	2,302.48	-381.70	1.63	-3.36	0.76	-0.48	2.27
2,443.00	14.40	176.73	2,394.44	-405.47	3.14	-4.98	0.32	-0.26	0.73
2,537.00	14.41	176.94	2,485.48	-428.82	4.43	-6.37	0.06	0.01	0.22
2,632.00	14.34	176.67	2,577.51	-452.37	5.74	-7.79	0.10	-0.07	-0.28
2,727.00	14.38	176.66	2,669.54	-475.89	7.11	-9.27	0.04	0.04	-0.01
2,821.00	14.37	176.86	2,760.60	-499.19	8.43	-10.70	0.05	-0.01	0.21
2,916.00	13.90	176.97	2,852.72	-522.36	9.68	-12.05	0.50	-0.49	0.12
3,011.00	13.19	176.86	2,945.08	-544.58	10.88	-13.35	0.75	-0.75	-0.12
3,105.00	13.11	182.47	3,036.62	-565.94	11.01	-13.57	1.36	-0.09	5.97
3,200.00	14.57	185.86	3,128.86	-588.59	9.32	-11.99	1.76	1.54	3.57
3,294.00	14.66	186.23	3,219.82	-612.18	6.82	-9.60	0.14	0.10	0.39
3,389.00	13.94	185.19	3,311.87	-635.52	4.48	-7.37	0.80	-0.76	-1.09
3,483.00	14.01	184.87	3,403.09	-658.14	2.49	-5.48	0.11	0.07	-0.34
3,578.00	13.47	184.32	3,495.37	-680.63	0.68	-3.77	0.58	-0.57	-0.58
3,672.00	13.88	183.19	3,586.71	-702.80	-0.77	-2.42	0.52	0.44	-1.20
3,767.00	13.46	182.67	3,679.02	-725.22	-1.92	-1.37	0.46	-0.44	-0.55
3,862.00	11.88	182.80	3,771.70	-746.04	-2.91	-0.47	1.66	-1.66	0.14
3,956.00	11.40	182.50	3,863.77	-764.98	-3.79	0.32	0.51	-0.51	-0.32
4,052.00	12.92	183.70	3,957.61	-785.17	-4.90	1.33	1.60	1.58	1.25
4,146.00	14.39	183.76	4,048.95	-807.31	-6.34	2.68	1.56	1.56	0.06
4,241.00	16.39	181.10	4,140.54	-832.50	-7.37	3.59	2.23	2.11	-2.80
4,336.00	17.85	177.74	4,231.33	-860.45	-7.05	3.15	1.86	1.54	-3.54
4,430.00	18.36	179.48	4,320.68	-889.65	-6.35	2.31	0.79	0.54	1.85
4,524.00	19.48	183.14	4,409.60	-920.10	-7.08	2.90	1.74	1.19	3.89
4,619.00	19.81	183.86	4,499.07	-951.98	-9.03	4.71	0.43	0.35	0.76
4,713.00	18.27	183.83	4,587.93	-982.58	-11.08	6.62	1.64	-1.64	-0.03
4,807.00	18.74	182.50	4,677.07	-1,012.36	-12.73	8.13	0.67	0.50	-1.41
4,870.00	18.58	182.20	4,736.75	-1,032.50	-13.55	8.87	0.30	-0.25	-0.48

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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)
4,933.00	17.31	182.18	4,796.69	-1,051.90	-14.30	9.52	2.02	-2.02	-0.03
5,027.00	18.10	181.50	4,886.24	-1,080.47	-15.21	10.31	0.87	0.84	-0.72
5,121.00	15.51	181.16	4,976.21	-1,107.64	-15.85	10.82	2.76	-2.76	-0.36
5,216.00	13.34	181.15	5,068.21	-1,131.30	-16.32	11.19	2.28	-2.28	-0.01
5,341.00	11.76	181.48	5,190.22	-1,158.45	-16.94	11.68	1.27	-1.26	0.26
5,436.00	11.26	181.45	5,283.31	-1,177.40	-17.43	12.08	0.53	-0.53	-0.03
5,499.00	10.88	181.41	5,345.14	-1,189.49	-17.73	12.33	0.60	-0.60	-0.06
5,561.00	10.38	180.54	5,406.08	-1,200.93	-17.93	12.48	0.85	-0.81	-1.40
5,624.00	9.98	181.49	5,468.08	-1,212.06	-18.12	12.62	0.69	-0.63	1.51
5,687.00	9.65	180.58	5,530.16	-1,222.80	-18.32	12.77	0.58	-0.52	-1.44
5,750.00	9.19	180.36	5,592.31	-1,233.11	-18.40	12.81	0.73	-0.73	-0.35
5,813.00	8.88	179.40	5,654.53	-1,243.00	-18.38	12.74	0.55	-0.49	-1.52
5,876.00	8.65	179.17	5,716.79	-1,252.60	-18.26	12.58	0.37	-0.37	-0.37
5,939.00	8.33	179.33	5,779.10	-1,261.90	-18.14	12.41	0.51	-0.51	0.25
6,065.00	7.02	179.49	5,903.97	-1,278.73	-17.96	12.16	1.04	-1.04	0.13
6,128.00	6.53	180.85	5,966.53	-1,286.16	-17.98	12.15	0.82	-0.78	2.16
6,191.00	5.94	180.26	6,029.16	-1,293.00	-18.05	12.18	0.94	-0.94	-0.94
6,254.00	5.02	179.38	6,091.87	-1,299.02	-18.04	12.14	1.47	-1.46	-1.40
6,348.00	3.99	176.62	6,185.58	-1,306.40	-17.80	11.87	1.12	-1.10	-2.94
6,410.00	3.41	175.08	6,247.45	-1,310.39	-17.51	11.57	0.95	-0.94	-2.48
6,505.00	4.72	213.03	6,342.22	-1,316.48	-19.40	13.43	3.07	1.38	39.95
6,599.00	12.30	243.07	6,435.16	-1,324.27	-30.46	24.45	9.09	8.06	31.96
6,694.00	18.67	253.13	6,526.68	-1,333.28	-54.06	48.01	7.25	6.71	10.59
6,788.00	26.48	255.47	6,613.41	-1,342.92	-88.80	82.70	8.36	8.31	2.49
6,883.00	34.65	257.35	6,695.14	-1,354.16	-135.73	129.59	8.66	8.60	1.98
6,977.00	46.11	259.00	6,766.63	-1,366.52	-195.26	189.05	12.24	12.19	1.76
7,072.00	52.12	259.70	6,828.79	-1,379.77	-265.81	259.55	6.35	6.33	0.74
7,166.00	64.63	255.65	6,877.99	-1,397.00	-343.79	337.44	13.80	13.31	-4.31
7,261.00	72.27	254.70	6,912.86	-1,419.61	-429.13	422.69	8.10	8.04	-1.00
7,355.00	79.79	257.87	6,935.54	-1,441.18	-517.69	511.14	8.64	8.00	3.37
7,450.00	86.80	265.04	6,946.64	-1,455.14	-610.88	604.27	10.51	7.38	7.55
7,544.00	87.58	263.34	6,951.25	-1,464.64	-704.28	697.62	1.99	0.83	-1.81
7,639.00	87.65	264.21	6,955.21	-1,474.93	-798.63	791.93	0.92	0.07	0.92
7,733.00	88.72	263.60	6,958.18	-1,484.91	-892.05	885.31	1.31	1.14	-0.65
7,828.00	88.82	263.98	6,960.22	-1,495.18	-986.47	979.68	0.41	0.11	0.40
7,922.00	88.52	264.62	6,962.40	-1,504.52	-1,079.98	1,073.14	0.75	-0.32	0.68
8,016.00	89.97	265.93	6,963.64	-1,512.26	-1,173.65	1,166.78	2.08	1.54	1.39
8,111.00	89.09	264.23	6,964.42	-1,520.41	-1,268.29	1,261.38	2.01	-0.93	-1.79
8,205.00	89.53	266.32	6,965.55	-1,528.15	-1,361.96	1,355.01	2.27	0.47	2.22
8,300.00	90.00	269.01	6,965.94	-1,532.02	-1,456.87	1,449.91	2.87	0.49	2.83
8,395.00	90.03	269.38	6,965.92	-1,533.35	-1,551.86	1,544.89	0.39	0.03	0.39
8,489.00	90.30	270.00	6,965.65	-1,533.86	-1,645.86	1,638.88	0.72	0.29	0.66
8,584.00	89.80	268.02	6,965.57	-1,535.50	-1,740.84	1,733.86	2.15	-0.53	-2.08
8,679.00	89.63	268.12	6,966.04	-1,538.70	-1,835.79	1,828.79	0.21	-0.18	0.11

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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)
8,773.00	90.40	272.68	6,966.01	-1,538.05	-1,929.76	1,922.76	4.92	0.82	4.85
8,867.00	89.97	271.06	6,965.71	-1,534.98	-2,023.70	2,016.72	1.78	-0.46	-1.72
8,962.00	89.83	271.41	6,965.88	-1,532.93	-2,118.68	2,111.70	0.40	-0.15	0.37
9,056.00	90.57	272.74	6,965.55	-1,529.53	-2,212.62	2,205.65	1.62	0.79	1.41
9,151.00	90.17	271.57	6,964.93	-1,525.96	-2,307.55	2,300.60	1.30	-0.42	-1.23
9,245.00	90.40	272.72	6,964.47	-1,522.44	-2,401.48	2,394.54	1.25	0.24	1.22
9,333.60	89.68	271.61	6,964.40	-1,519.09	-2,490.01	2,483.09	1.49	-0.81	-1.25
LL Crossing @ 9333.6' MD									
9,340.00	89.63	271.53	6,964.44	-1,518.91	-2,496.41	2,489.49	1.49	-0.81	-1.25
9,434.00	90.00	272.99	6,964.74	-1,515.21	-2,590.33	2,583.43	1.60	0.39	1.55
9,529.00	89.53	271.47	6,965.13	-1,511.51	-2,685.26	2,678.37	1.67	-0.49	-1.60
9,624.00	90.54	271.40	6,965.08	-1,509.13	-2,780.23	2,773.35	1.07	1.06	-0.07
9,718.00	89.56	269.85	6,964.99	-1,508.11	-2,874.22	2,867.34	1.95	-1.04	-1.65
9,813.00	89.50	270.28	6,965.77	-1,508.00	-2,969.21	2,962.34	0.46	-0.06	0.45
9,907.00	89.63	271.12	6,966.49	-1,506.85	-3,063.20	3,056.33	0.90	0.14	0.89
10,002.00	89.93	272.25	6,966.85	-1,504.06	-3,158.16	3,151.30	1.23	0.32	1.19
10,096.00	90.74	270.86	6,966.30	-1,501.51	-3,252.12	3,245.27	1.71	0.86	-1.48
10,191.00	90.57	269.19	6,965.22	-1,501.47	-3,347.11	3,340.26	1.77	-0.18	-1.76
10,285.00	89.97	268.24	6,964.77	-1,503.57	-3,441.08	3,434.23	1.20	-0.64	-1.01
10,380.00	90.10	268.06	6,964.72	-1,506.64	-3,536.04	3,529.16	0.23	0.14	-0.19
10,475.00	89.83	267.62	6,964.77	-1,510.22	-3,630.97	3,624.08	0.54	-0.28	-0.46
10,569.00	89.90	267.60	6,964.99	-1,514.14	-3,724.89	3,717.98	0.08	0.07	-0.02
10,663.00	90.44	270.32	6,964.72	-1,515.85	-3,818.86	3,811.94	2.95	0.57	2.89
10,758.00	90.00	269.58	6,964.35	-1,515.93	-3,913.86	3,906.94	0.91	-0.46	-0.78
10,852.00	89.66	268.98	6,964.63	-1,517.11	-4,007.85	4,000.92	0.73	-0.36	-0.64
10,947.00	89.70	269.19	6,965.16	-1,518.63	-4,102.84	4,095.90	0.23	0.04	0.22
11,041.00	91.85	271.24	6,963.89	-1,518.28	-4,196.82	4,189.88	3.16	2.29	2.18
11,136.00	91.75	270.82	6,960.91	-1,516.57	-4,291.75	4,284.83	0.45	-0.11	-0.44
11,230.00	91.24	270.10	6,958.45	-1,515.81	-4,385.72	4,378.79	0.94	-0.54	-0.77
11,324.00	91.92	272.15	6,955.86	-1,513.97	-4,479.66	4,472.74	2.30	0.72	2.18
11,419.00	91.88	272.17	6,952.71	-1,510.39	-4,574.54	4,567.64	0.05	-0.04	0.02
11,513.00	90.54	271.07	6,950.73	-1,507.74	-4,668.48	4,661.59	1.84	-1.43	-1.17
11,607.00	89.70	269.42	6,950.53	-1,507.33	-4,762.47	4,755.58	1.97	-0.89	-1.76
11,702.00	90.44	270.89	6,950.41	-1,507.08	-4,857.47	4,850.58	1.73	0.78	1.55
11,796.00	90.27	270.50	6,949.83	-1,505.94	-4,951.46	4,944.57	0.45	-0.18	-0.41
11,891.00	89.90	269.64	6,949.69	-1,505.82	-5,046.46	5,039.57	0.99	-0.39	-0.91
11,985.00	90.50	271.23	6,949.36	-1,505.11	-5,140.45	5,133.57	1.81	0.64	1.69
12,080.00	90.14	270.63	6,948.83	-1,503.56	-5,235.44	5,228.56	0.74	-0.38	-0.63
12,174.00	90.71	272.26	6,948.13	-1,501.19	-5,329.40	5,322.53	1.84	0.61	1.73
12,268.00	90.50	270.38	6,947.14	-1,499.03	-5,423.37	5,416.51	2.01	-0.22	-2.00
12,363.00	89.97	269.23	6,946.75	-1,499.35	-5,518.36	5,511.50	1.33	-0.56	-1.21
12,457.00	90.10	269.67	6,946.69	-1,500.25	-5,612.36	5,605.49	0.49	0.14	0.47
12,552.00	89.93	269.90	6,946.67	-1,500.61	-5,707.36	5,700.49	0.30	-0.18	0.24

SDT

Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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)
12,647.00	90.10	269.74	6,946.64	-1,500.91	-5,802.36	5,795.49	0.25	0.18	-0.17
12,741.00	90.13	269.74	6,946.46	-1,501.34	-5,896.36	5,889.48	0.03	0.03	0.00
12,836.00	90.64	271.11	6,945.82	-1,500.63	-5,991.35	5,984.48	1.54	0.54	1.44
12,930.00	90.10	270.22	6,945.21	-1,499.54	-6,085.34	6,078.47	1.11	-0.57	-0.95
13,025.00	90.54	270.51	6,944.68	-1,498.94	-6,180.34	6,173.47	0.55	0.46	0.31
13,119.00	90.81	271.47	6,943.57	-1,497.31	-6,274.31	6,267.45	1.06	0.29	1.02
13,214.00	90.30	270.03	6,942.65	-1,496.07	-6,369.30	6,362.44	1.61	-0.54	-1.52
13,309.00	90.13	269.84	6,942.30	-1,496.18	-6,464.30	6,457.44	0.27	-0.18	-0.20
13,403.00	90.40	270.79	6,941.86	-1,495.66	-6,558.29	6,551.44	1.05	0.29	1.01
13,498.00	90.44	270.71	6,941.16	-1,494.42	-6,653.28	6,646.43	0.09	0.04	-0.08
13,593.00	89.70	269.83	6,941.05	-1,493.97	-6,748.28	6,741.43	1.21	-0.78	-0.93
13,687.00	90.34	271.62	6,941.02	-1,492.78	-6,842.27	6,835.42	2.02	0.68	1.90
13,781.00	89.87	270.68	6,940.84	-1,490.89	-6,936.25	6,929.41	1.12	-0.50	-1.00
13,839.18	90.32	271.73	6,940.74	-1,489.67	-6,994.41	6,987.58	1.96	0.78	1.80
LL Crossing @ 13839.18' MD									
13,876.00	90.61	272.39	6,940.44	-1,488.35	-7,031.21	7,024.38	1.96	0.78	1.80
13,970.00	90.84	270.02	6,939.26	-1,486.37	-7,125.17	7,118.36	2.53	0.24	-2.52
14,065.00	90.34	269.06	6,938.28	-1,487.13	-7,220.16	7,213.34	1.14	-0.53	-1.01
14,160.00	90.81	269.93	6,937.32	-1,487.97	-7,315.15	7,308.33	1.04	0.49	0.92
14,254.00	90.91	269.62	6,935.91	-1,488.34	-7,409.14	7,402.31	0.35	0.11	-0.33
14,349.00	91.31	270.31	6,934.07	-1,488.40	-7,504.12	7,497.29	0.84	0.42	0.73
14,443.00	91.41	271.30	6,931.84	-1,487.08	-7,598.09	7,591.26	1.06	0.11	1.05
14,538.00	91.41	268.66	6,929.50	-1,487.11	-7,693.05	7,686.22	2.78	0.00	-2.78
14,633.00	92.39	270.41	6,926.35	-1,487.88	-7,787.99	7,781.16	2.11	1.03	1.84
14,727.00	92.15	269.36	6,922.63	-1,488.07	-7,881.92	7,875.08	1.14	-0.26	-1.12
14,821.00	90.77	268.45	6,920.24	-1,489.87	-7,975.86	7,969.02	1.76	-1.47	-0.97
14,916.00	89.80	266.97	6,919.76	-1,493.66	-8,070.78	8,063.92	1.86	-1.02	-1.56
15,010.00	90.00	268.63	6,919.93	-1,497.27	-8,164.71	8,157.83	1.78	0.21	1.77
15,104.00	89.70	267.63	6,920.17	-1,500.34	-8,258.66	8,251.77	1.11	-0.32	-1.06
15,199.00	89.83	270.62	6,920.56	-1,501.79	-8,353.64	8,346.74	3.15	0.14	3.15
15,293.00	89.29	269.82	6,921.28	-1,501.43	-8,447.63	8,440.73	1.03	-0.57	-0.85
15,387.00	89.60	271.08	6,922.19	-1,500.69	-8,541.62	8,534.72	1.38	0.33	1.34
15,482.00	89.53	270.91	6,922.92	-1,499.04	-8,636.61	8,629.71	0.19	-0.07	-0.18
15,576.00	89.73	271.48	6,923.52	-1,497.08	-8,730.58	8,723.70	0.64	0.21	0.61
15,671.00	89.43	271.04	6,924.22	-1,494.99	-8,825.56	8,818.68	0.56	-0.32	-0.46
15,765.00	89.18	270.97	6,925.36	-1,493.34	-8,919.54	8,912.67	0.28	-0.27	-0.07
15,860.00	88.59	269.99	6,927.21	-1,492.55	-9,014.51	9,007.65	1.20	-0.62	-1.03
15,954.00	90.10	270.97	6,928.28	-1,491.76	-9,108.50	9,101.64	1.91	1.61	1.04
16,049.00	90.10	270.83	6,928.12	-1,490.27	-9,203.49	9,196.63	0.15	0.00	-0.15
16,143.00	90.44	271.70	6,927.67	-1,488.19	-9,297.46	9,290.61	0.99	0.36	0.93
16,237.00	90.44	271.95	6,926.95	-1,485.20	-9,391.41	9,384.58	0.27	0.00	0.27
16,332.00	89.53	270.99	6,926.98	-1,482.76	-9,486.38	9,479.55	1.39	-0.96	-1.01
16,426.00	89.36	271.74	6,927.89	-1,480.52	-9,580.35	9,573.53	0.82	-0.18	0.80
16,521.00	89.63	270.38	6,928.72	-1,478.76	-9,675.32	9,668.51	1.46	0.28	-1.43

SDT
Survey Report

Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit 702H
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 702H	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)
16,615.00	90.30	271.70	6,928.78	-1,477.06	-9,769.31	9,762.50	1.57	0.71	1.40
16,709.00	90.03	269.15	6,928.51	-1,476.36	-9,863.30	9,856.49	2.73	-0.29	-2.71
16,804.00	90.44	269.63	6,928.12	-1,477.37	-9,958.29	9,951.48	0.66	0.43	0.51
16,898.00	90.24	268.46	6,927.56	-1,478.94	-10,052.27	10,045.46	1.26	-0.21	-1.24
16,992.00	90.71	270.20	6,926.78	-1,480.04	-10,146.26	10,139.44	1.92	0.50	1.85
17,086.00	90.87	269.86	6,925.49	-1,479.99	-10,240.25	10,233.43	0.40	0.17	-0.36
17,181.00	89.50	270.11	6,925.18	-1,480.01	-10,335.25	10,328.42	1.47	-1.44	0.26
17,275.00	89.23	269.70	6,926.22	-1,480.17	-10,429.24	10,422.42	0.52	-0.29	-0.44
17,370.00	88.45	268.91	6,928.15	-1,481.32	-10,524.21	10,517.38	1.17	-0.82	-0.83
17,464.00	88.55	267.99	6,930.61	-1,483.86	-10,618.14	10,611.30	0.98	0.11	-0.98
17,558.00	90.20	269.32	6,931.63	-1,486.07	-10,712.11	10,705.25	2.25	1.76	1.41
17,653.00	89.39	267.81	6,931.97	-1,488.45	-10,807.07	10,800.21	1.80	-0.85	-1.59
17,747.00	90.13	267.28	6,932.37	-1,492.47	-10,900.99	10,894.10	0.97	0.79	-0.56
17,841.00	90.54	269.06	6,931.82	-1,495.48	-10,994.93	10,988.03	1.94	0.44	1.89
17,936.00	90.03	268.87	6,931.34	-1,497.19	-11,089.92	11,083.01	0.57	-0.54	-0.20
18,048.00	89.53	268.53	6,931.77	-1,499.73	-11,201.89	11,194.96	0.54	-0.45	-0.30
18,116.00	89.53	268.53	6,932.33	-1,501.48	-11,269.86	11,262.93	0.00	0.00	0.00
BHL@ 18116' 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 702H SHL	0.00	0.00	0.00	0.00	0.00	2,152,297.69	2,849,988.50	36.913961	-107.399257
- actual wellpath hits target center									
- Point									
RU 702H PBHL	0.00	0.00	6,912.68	-1,485.69	-11,262.17	2,150,760.77	2,838,733.21	36.909874	-107.437779
- actual wellpath misses target center by 25.03usft at 18107.75usft MD (6932.26 TVD, -1501.27 N, -11261.61 E)									
- Point									
RU 702H BHL	0.00	0.00	6,932.33	-1,501.48	-11,269.86	2,150,744.95	2,838,725.59	36.909831	-107.437805
- actual wellpath hits target center									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,333.60	6,964.40	-1,519.09	-2,490.01	LL Crossing @ 9333.6' MD	
13,839.18	6,940.74	-1,489.67	-6,994.41	LL Crossing @ 13839.18' MD	
18,116.00	6,932.33	-1,501.48	-11,269.86	BHL@ 18116' 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 386919

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 386919
	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 386919

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 12/26/2024.	9/26/2024