

<b>C-104</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
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### REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

#### Section 1 - Operator and Well Information

Submittal Type: <input checked="" type="checkbox"/> Test Allowable (C-104RT) <input type="checkbox"/> New Well (C-104NW) <input type="checkbox"/> Recomplete (C-104RC) <input type="checkbox"/> Pay Add (C-104RC) <input type="checkbox"/> Amended	
Operator Name: LOGOS OPERATING, LLC	OGRID: 289408
Property Name and Well Number: <b>ROSA UNIT 614H</b>	Property Code: 320608
Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	API Number: 30-039-31433
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		1811' FSL	434' FWL	36.882844	-107.439701	RIO ARRIBA

#### Section 3 – Completion Information

Producing Method Flowing	Ready Date ~11/1/24	Perforations MD ~7,297'-17,114'	Perforations TVD ~6897' - 6848'
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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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. NMNMO78407E
Surface Casing Action ID: 281796	Unit: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. R-13457
Intermediate 1 Casing Action ID: 282915	Compulsory Pooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 2 Casing Action ID: 289065	Down Hole Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Production Casing Action ID: 291819	Surface Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-standard Location: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Common ownership Order No.
Liner 1 Action ID: N/A	Non-standard Proration: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.

#### Section 5 - Operator Signature and Certification

<input checked="" type="checkbox"/> I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> 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>Jacey Granillo</i>	
Title Regulatory Specialist	Date 10/11/24

C-102  Submit Electronically Via OCD Permitting	<b>State of New Mexico</b> <b>Energy, Minerals &amp; Natural Resources Department</b>  <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024	Submittal Type <input type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input checked="" type="checkbox"/> As Drilled
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**WELL LOCATION INFORMATION**

API Number <b>30-039-31433</b>	Pool Code <b>97232</b>	Pool Name <b>BASIN MANCOS</b>
Property Code <b>320608</b>	Property Name <b>ROSA UNIT</b>	Well Number <b>614H</b>
OGRID No. <b>289408</b>	Operator Name <b>LOGOS OPERATING, LLC</b>	Ground Level Elevation <b>6287'</b>
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
L	23	31N	6W		1811' SOUTH	434' WEST	36.882844 °N	-107.439701 °W	RIO ARRIBA

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
M	21	31N	6W		1189' SOUTH	155' WEST	36.881060 °N	-107.476655 °W	RIO ARRIBA

Dedicated Acres <b>640.00</b>	Penetrated Spacing Unit: <b>S/2 - Sections 21 &amp; 22, T31N, R6W</b>	Infill or Defining Well <b>Infill</b>	Defining Well API	Overlapping Spacing Unit <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Consolidation Code <b>Unitization</b>
Order Numbers <b>R-13457</b>	Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
M	23	31N	6W		876' SOUTH	221' WEST	36.880276 °N	-107.440427 °W	RIO ARRIBA

**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
P	22	31N	6W		784' SOUTH	374' EAST	36.880018 °N	-107.442462 °W	RIO ARRIBA

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Line	Latitude	Longitude	County
M	21	31N	6W		1189' SOUTH	351' WEST	36.881060 °N	-107.475985 °W	RIO ARRIBA

Unitized Area or Area of Uniform Interest <b>ROSA UNIT</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> 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      9/3/24  
Signature      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.



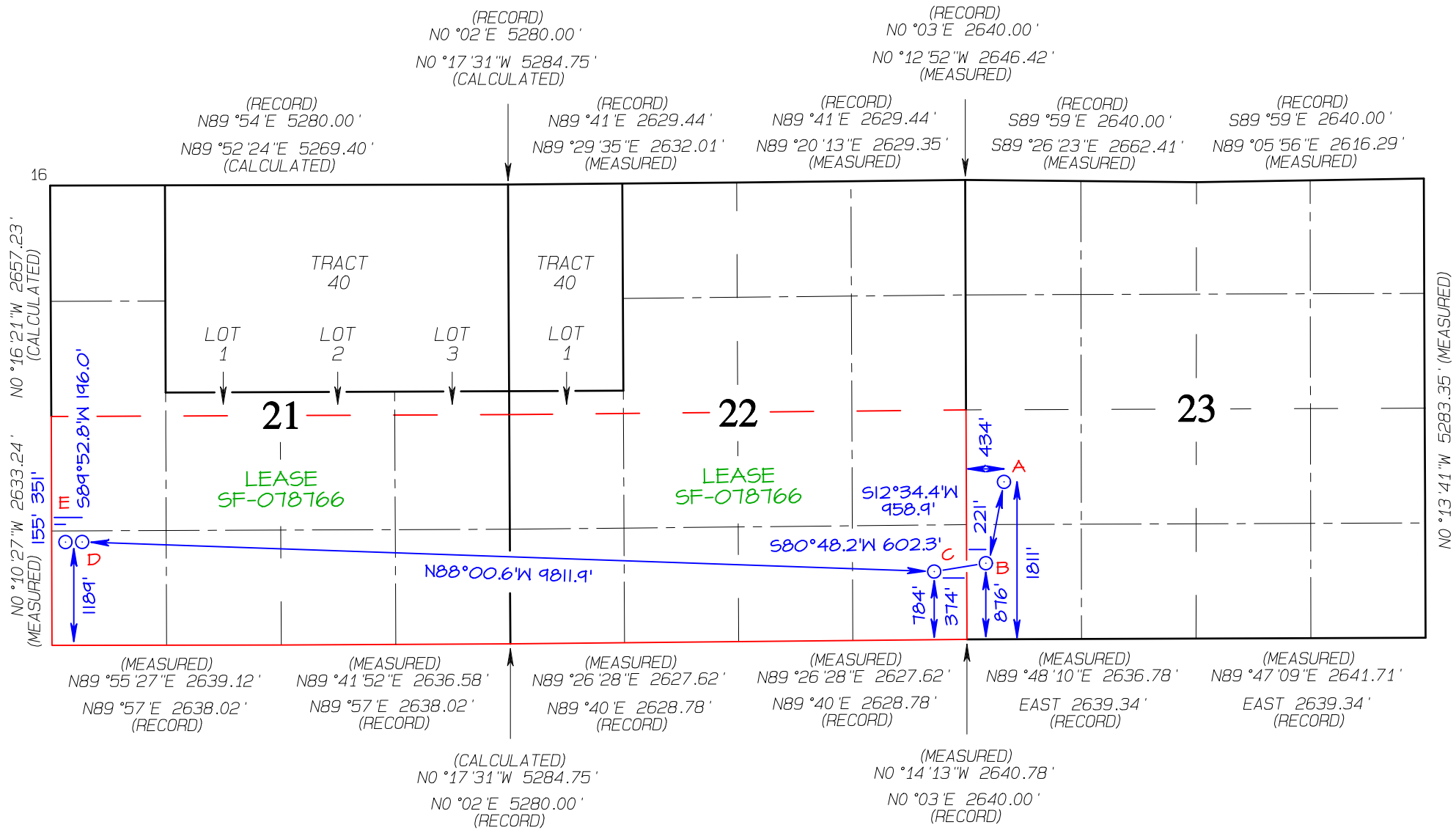
**JASON C. EDWARDS**

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Signature and Seal of Professional Surveyor

Certificate Number <b>15269</b>	Date of Survey <b>JANUARY 4, 2017</b>
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



**BOTTOM HOE LOCATION (E)**  
 1189' FSL 155' FWL  
 SEC 21, T31N, R6W  
 LAT: 36.881055 °N  
 LONG: 107.476050 °W  
 DATUM: NAD1927

LAT: 36.881060 °N  
 LONG: 107.476655 °W  
 DATUM: NAD1983

**LAST TAKE POINT (D)**  
 1189' FSL 351' FWL  
 SEC 21, T31N, R6W  
 LAT: 36.881054 °N  
 LONG: -107.475380 °W  
 DATUM: NAD1927

LAT: 36.881060 °N  
 LONG: -107.475985 °W  
 DATUM: NAD1983

**FIRST TAKE POINT (C)**  
 784' FSL 374' FEL  
 SEC 22, T31N, R6W  
 LAT: 36.880012 °N  
 LONG: -107.441858 °W  
 DATUM: NAD1927

LAT: 36.880018 °N  
 LONG: -107.442462 °W  
 DATUM: NAD1983

**KICK OFF POINT (B)**  
 876' FSL 221' FWL  
 SEC 23, T31N, R6W  
 LAT: 36.880270 °N  
 LONG: -107.439824 °W  
 DATUM: NAD1927

LAT: 36.880276 °N  
 LONG: -107.440427 °W  
 DATUM: NAD1983

**SURFACE LOCATION (A)**  
 1811' FSL 434' FWL  
 SEC 23, T31N, R6W  
 LAT: 36.882838 °N  
 LONG: -107.439097 °W  
 DATUM: NAD1927

LAT: 36.882844 °N  
 LONG: -107.439701 °W  
 DATUM: NAD1983



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**17193  
Logos Operating LLC  
Rosa Unit 614H - OH  
New Mexico  
Rio Arriba  
H&P 530**

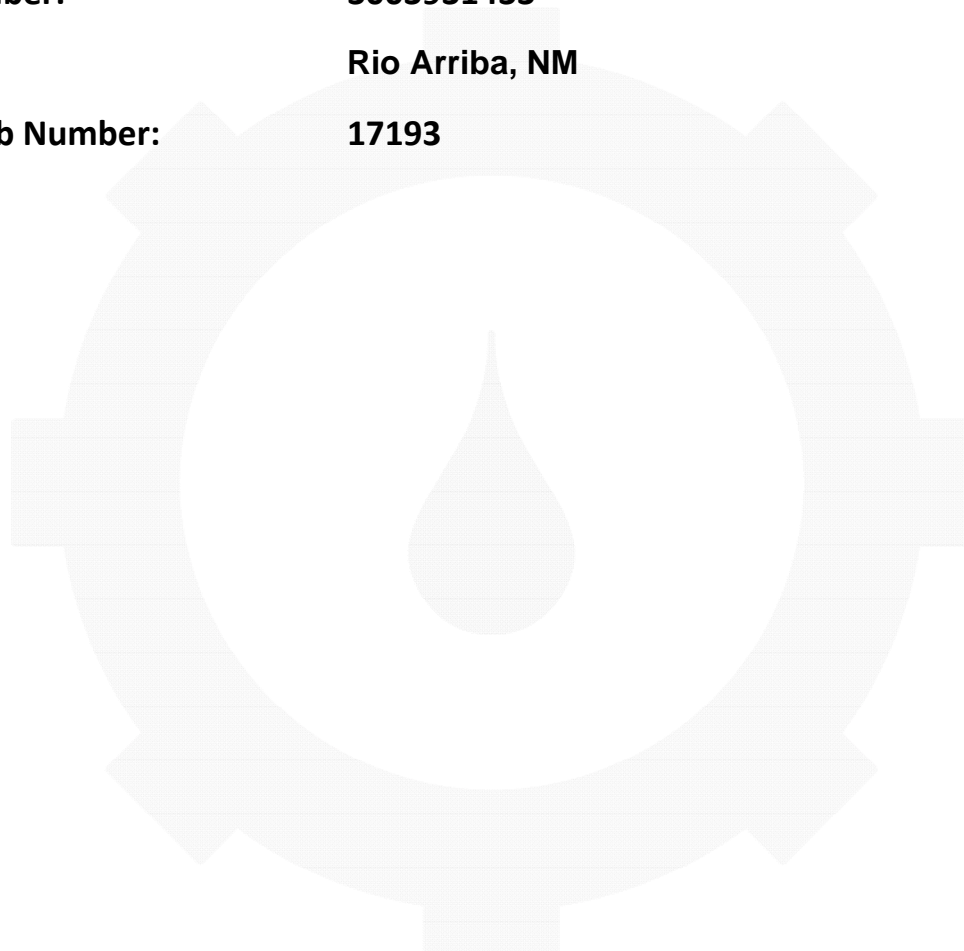
**End Of Well Report - 11/27/2023**

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**Innovative Drilling Solutions  
Data-Driven Decision**



**Well Name:** Rosa Unit 614H  
**API Number:** 3003931433  
**County:** Rio Arriba, NM  
**Scout Job Number:** 17193



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

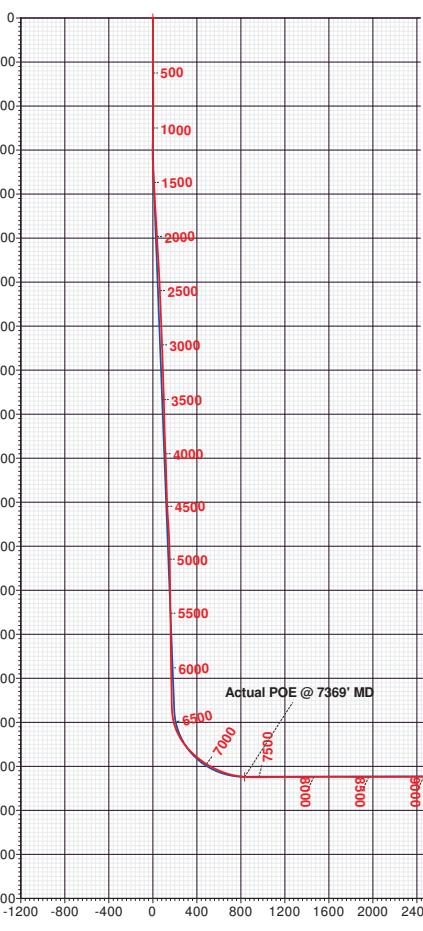
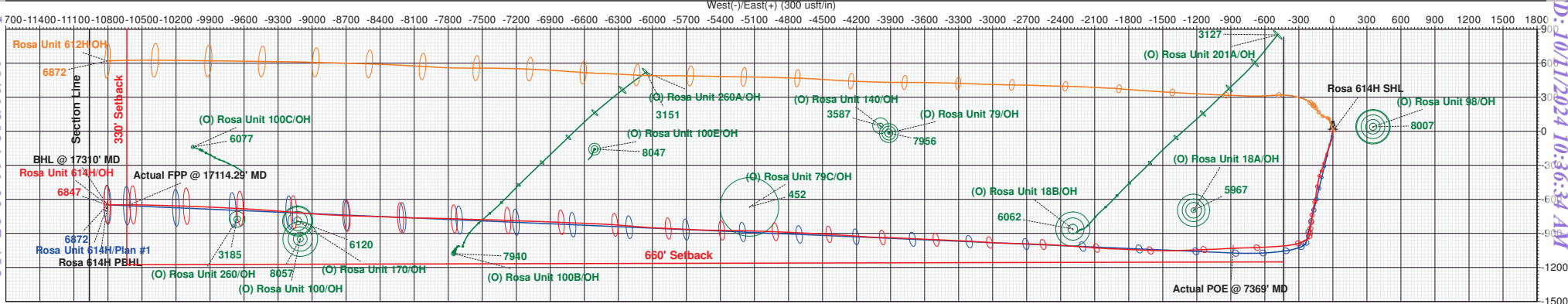


County: Rio Arriba, NM (NAD83)  
 Site: Rosa Unit 10  
 Well: Rosa Unit 614H  
 Depth Reference: 6287+30 @ 6317.00usft (H&P 530)  
 Rig: H&P 530  
 Plan: OH  
 Job #: 17193



Released to Imaging: 10/11/2024 11:33:37 AM

Received by OCD: 10/11/2024 10:36:34 AM



**ANNOTATIONS**

MD	Inc	Azi	TVD	+N-/S	+E-/W	VSec	Departure	Annotation
7369.00	85.28	267.66	6896.29	-1031.38	-878.79	833.90	1653.34	Actual POE @ 7369' MD
17114.29	90.53	270.47	6847.91	-647.61	-10612.18	10574.80	11397.55	Actual FPP @ 17114.29' MD
17310.00	89.87	269.97	6847.49	-647.21	-10807.89	10770.34	11593.25	BHL @ 17310' MD

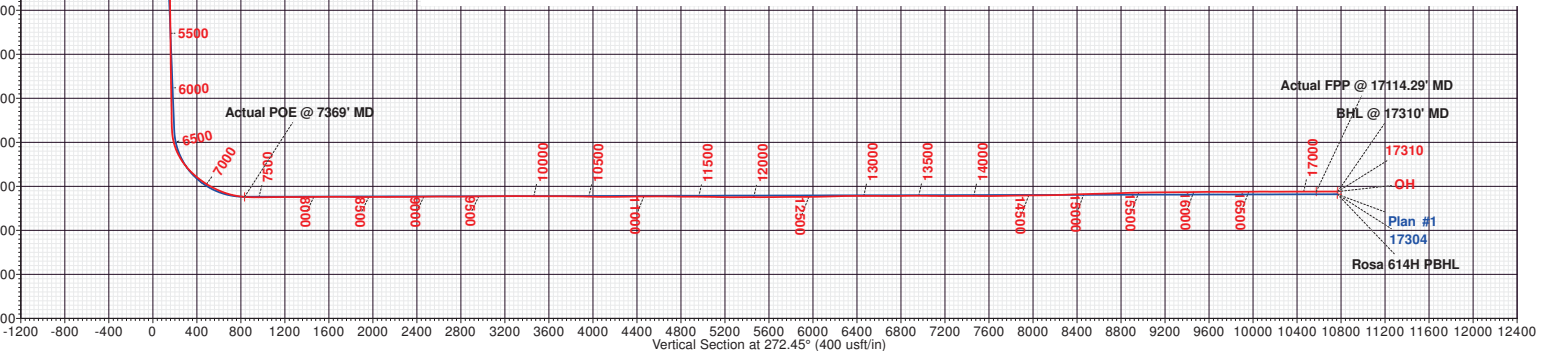
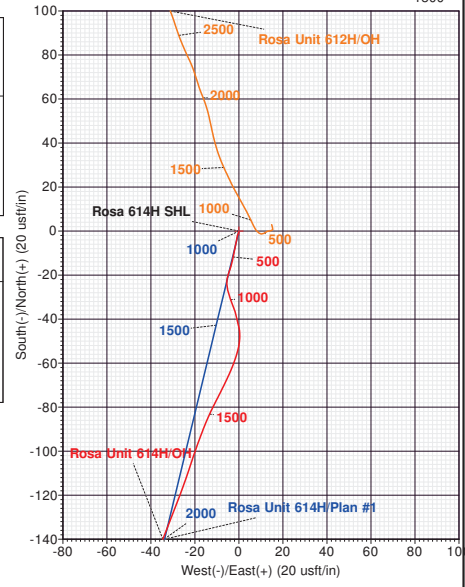
**DESIGN TARGET DETAILS**

Name	TVD	+N-/S	+E-/W	Northing	Easting	Latitude	Longitude
Rosa 614H SHL	0.00	0.00	0.00	2140917.75	2838211.87	36.882844	-107.439701
Rosa 614H BHL	6847.49	-647.21	-10807.89	2140225.98	2827406.74	36.881060	-107.476655
Rosa 614H Actual FPP	6847.91	-647.61	-10612.18	2140226.39	2827602.45	36.881060	-107.475986
Rosa 614H PBHL	6872.00	-648.38	-10803.94	2140224.82	2827410.70	36.881057	-107.476642
Rosa 614H Actual POE	6896.29	-1031.38	-878.79	2139882.76	2837337.34	36.880011	-107.442706

**TOTAL CORRECTION: 8.52°**

Azimuths to True North  
Magnetic North: 8.52°

Magnetic Field Strength: 49425.4nT  
 Dip Angle: 63.27°  
 Date: 10/13/2023  
 Model: HRCM



# Logos Operating LLC

Rio Arriba, NM (NAD83)

Rosa Unit 10

Rosa Unit 614H

API: 3003931433

OH

Design: OH

## Standard Survey Report

27 November, 2023

### SDT Survey Report

<b>Company:</b> Logos Operating LLC	<b>Local Co-ordinate Reference:</b> Well Rosa Unit 614H
<b>Project:</b> Rio Arriba, NM (NAD83)	<b>TVD Reference:</b> 6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b> Rosa Unit 10	<b>MD Reference:</b> 6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b> Rosa Unit 614H	<b>North Reference:</b> True
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> EDM 5000 Multi User Db

<b>Project</b> Rio Arriba, NM (NAD83)		
<b>Map System:</b> US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b> North American Datum 1983		
<b>Map Zone:</b> New Mexico Western Zone		

<b>Site</b> Rosa Unit 10		
<b>Site Position:</b>	<b>Northing:</b> 2,140,923.33 usft	<b>Latitude:</b> 36.882859
<b>From:</b> Lat/Long	<b>Easting:</b> 2,838,241.39 usft	<b>Longitude:</b> -107.439600
<b>Position Uncertainty:</b> 0.00 usft	<b>Slot Radius:</b> 13-3/16 "	

<b>Well</b> Rosa Unit 614H		
<b>Well Position</b> +N/-S 0.00 usft	<b>Northing:</b> 2,140,917.75 usft	<b>Latitude:</b> 36.882844
+E/-W 0.00 usft	<b>Easting:</b> 2,838,211.88 usft	<b>Longitude:</b> -107.439701
<b>Position Uncertainty</b> 0.00 usft	<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 6,287.00 usft
<b>Grid Convergence:</b> 0.24 °		

<b>Wellbore</b> OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	10/13/2023	8.52	63.27	49,425.37729655

<b>Design</b> OH					
<b>Audit Notes:</b>					
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b>	0.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	272.45	

<b>Survey Program</b>		<b>Date</b> 11/27/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
50.00	340.00	Survey #1 (OH)	A020Ga_GYRO-NS	OWSG Gyrocompass Gyro
427.00	17,238.00	Survey #2 (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM
6,302.00	17,238.00	Survey #3 - Corrected Run (OH)	MWD+HRGM+MS	MWD + HRGM + Multi-Station Correction
17,310.00	17,310.00	Survey #4 (OH)	Project	Projection

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
50.00	0.48	184.01	50.00	-0.21	-0.01	0.01	0.96	0.96	0.00
109.00	0.65	203.23	109.00	-0.76	-0.16	0.13	0.43	0.29	32.58
188.00	0.64	203.96	187.99	-1.58	-0.52	0.45	0.02	-0.01	0.92
250.00	0.29	188.06	249.99	-2.05	-0.68	0.59	0.60	-0.56	-25.65
340.00	1.74	191.05	339.97	-3.62	-0.98	0.82	1.61	1.61	3.32
427.00	3.30	191.29	426.89	-7.37	-1.72	1.40	1.79	1.79	0.28



**SDT**  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
517.00	3.78	192.00	516.71	-12.81	-2.84	2.29	0.54	0.53	0.79	
607.00	2.81	199.64	606.56	-17.79	-4.20	3.44	1.18	-1.08	8.49	
721.00	1.32	189.18	720.49	-21.72	-5.35	4.42	1.34	-1.31	-9.18	
816.00	1.41	178.11	815.46	-23.97	-5.49	4.46	0.29	0.09	-11.65	
906.00	2.29	168.62	905.41	-26.84	-5.10	3.94	1.03	0.98	-10.54	
997.00	3.21	159.48	996.31	-31.01	-3.84	2.51	1.12	1.01	-10.04	
1,089.00	4.39	159.56	1,088.10	-36.72	-1.71	0.14	1.28	1.28	0.09	
1,180.00	5.71	171.69	1,178.75	-44.46	0.16	-2.06	1.86	1.45	13.33	
1,274.00	6.59	194.81	1,272.22	-54.30	-0.54	-1.78	2.77	0.94	24.60	
1,369.00	7.60	204.65	1,366.50	-65.28	-4.56	1.76	1.66	1.06	10.36	
1,463.00	8.88	207.46	1,459.53	-77.37	-10.50	7.18	1.43	1.36	2.99	
1,558.00	9.40	200.96	1,553.32	-91.12	-16.65	12.74	1.22	0.55	-6.84	
1,653.00	10.68	198.06	1,646.87	-106.74	-22.16	17.57	1.45	1.35	-3.05	
1,747.00	11.38	201.31	1,739.13	-123.66	-28.23	22.92	1.00	0.74	3.46	
1,841.00	11.12	200.96	1,831.32	-140.76	-34.84	28.79	0.29	-0.28	-0.37	
1,874.00	11.21	201.05	1,863.70	-146.73	-37.13	30.82	0.28	0.27	0.27	
1,968.00	10.68	197.18	1,955.99	-163.58	-42.99	35.95	0.96	-0.56	-4.12	
2,063.00	11.29	199.20	2,049.25	-180.77	-48.64	40.87	0.76	0.64	2.13	
2,157.00	11.78	199.82	2,141.35	-198.49	-54.92	46.39	0.54	0.52	0.66	
2,251.00	11.60	199.38	2,233.40	-216.43	-61.31	52.00	0.21	-0.19	-0.47	
2,346.00	10.81	197.36	2,326.59	-233.94	-67.14	57.08	0.93	-0.83	-2.13	
2,441.00	10.59	196.57	2,419.94	-250.81	-72.29	61.50	0.28	-0.23	-0.83	
2,535.00	10.28	195.60	2,512.38	-267.17	-77.01	65.52	0.38	-0.33	-1.03	
2,630.00	10.28	194.11	2,605.86	-283.56	-81.35	69.16	0.28	0.00	-1.57	
2,725.00	9.89	196.04	2,699.39	-299.62	-85.67	72.79	0.54	-0.41	2.03	
2,819.00	9.18	197.27	2,792.09	-314.54	-90.13	76.60	0.79	-0.76	1.31	
2,914.00	8.39	197.97	2,885.98	-328.37	-94.52	80.40	0.84	-0.83	0.74	
3,009.00	6.99	199.99	2,980.12	-340.39	-98.63	83.99	1.50	-1.47	2.13	
3,103.00	6.28	200.52	3,073.49	-350.58	-102.39	87.31	0.76	-0.76	0.56	
3,198.00	5.99	200.79	3,167.95	-360.08	-105.97	90.48	0.31	-0.31	0.28	
3,292.00	5.49	202.54	3,261.47	-368.82	-109.44	93.57	0.56	-0.53	1.86	
3,359.00	5.19	202.81	3,328.18	-374.57	-111.84	95.72	0.45	-0.45	0.40	
3,490.00	4.88	204.21	3,458.68	-385.12	-116.42	99.85	0.25	-0.24	1.07	
3,584.00	6.81	192.70	3,552.19	-394.20	-119.29	102.33	2.39	2.05	-12.24	
3,679.00	8.48	190.94	3,646.34	-406.58	-121.85	104.36	1.77	1.76	-1.85	
3,774.00	10.50	190.15	3,740.04	-421.98	-124.71	106.56	2.13	2.13	-0.83	
3,868.00	12.88	192.79	3,832.08	-440.63	-128.54	109.59	2.59	2.53	2.81	
3,963.00	14.11	191.12	3,924.46	-462.31	-133.12	113.23	1.36	1.29	-1.76	
4,058.00	17.49	190.50	4,015.85	-487.72	-137.95	116.98	3.56	3.56	-0.65	
4,152.00	16.79	188.30	4,105.68	-515.04	-142.49	120.34	1.01	-0.74	-2.34	
4,247.00	17.58	187.95	4,196.44	-542.83	-146.45	123.11	0.84	0.83	-0.37	
4,341.00	16.22	187.87	4,286.38	-569.90	-150.21	125.71	1.45	-1.45	-0.09	
4,435.00	16.30	189.18	4,376.62	-595.92	-154.11	128.50	0.40	0.09	1.39	

**SDT**  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
4,530.00	16.79	193.31	4,467.69	-622.44	-159.40	132.65	1.34	0.52	4.35	
4,624.00	18.19	194.11	4,557.34	-649.88	-166.10	138.17	1.51	1.49	0.85	
4,718.00	16.00	193.84	4,647.18	-676.69	-172.78	143.70	2.33	-2.33	-0.29	
4,813.00	16.79	189.97	4,738.32	-702.92	-178.29	148.08	1.42	0.83	-4.07	
4,876.00	16.70	187.69	4,798.65	-720.85	-181.07	150.09	1.05	-0.14	-3.62	
4,939.00	15.21	187.87	4,859.22	-738.01	-183.42	151.70	2.37	-2.37	0.29	
5,002.00	13.71	186.90	4,920.22	-753.61	-185.45	153.06	2.41	-2.38	-1.54	
5,065.00	12.30	186.81	4,981.60	-767.68	-187.14	154.15	2.24	-2.24	-0.14	
5,128.00	11.69	187.07	5,043.23	-780.68	-188.72	155.18	0.97	-0.97	0.41	
5,191.00	11.12	186.81	5,104.98	-793.05	-190.23	156.15	0.91	-0.90	-0.41	
5,254.00	10.59	186.20	5,166.86	-804.84	-191.57	156.99	0.86	-0.84	-0.97	
5,317.00	10.11	186.90	5,228.83	-816.08	-192.86	157.80	0.79	-0.76	1.11	
5,380.00	9.49	187.25	5,290.91	-826.72	-194.18	158.66	0.99	-0.98	0.56	
5,443.00	9.18	187.51	5,353.08	-836.86	-195.49	159.54	0.50	-0.49	0.41	
5,506.00	9.01	186.72	5,415.28	-846.74	-196.73	160.35	0.33	-0.27	-1.25	
5,569.00	8.48	185.14	5,477.55	-856.26	-197.72	160.94	0.92	-0.84	-2.51	
5,632.00	7.78	185.76	5,539.92	-865.13	-198.56	161.40	1.12	-1.11	0.98	
5,695.00	7.60	185.40	5,602.35	-873.52	-199.38	161.86	0.30	-0.29	-0.57	
5,758.00	6.99	187.87	5,664.84	-881.47	-200.30	162.44	1.09	-0.97	3.92	
5,821.00	6.68	190.24	5,727.39	-888.87	-201.48	163.30	0.67	-0.49	3.76	
5,884.00	6.28	190.06	5,789.99	-895.87	-202.73	164.25	0.64	-0.63	-0.29	
5,947.00	5.90	192.79	5,852.64	-902.42	-204.05	165.29	0.76	-0.60	4.33	
6,010.00	5.58	194.11	5,915.32	-908.55	-205.51	166.49	0.55	-0.51	2.10	
6,073.00	5.32	194.81	5,978.04	-914.34	-207.01	167.73	0.43	-0.41	1.11	
6,136.00	4.79	195.07	6,040.79	-919.71	-208.44	168.93	0.84	-0.84	0.41	
6,198.00	4.48	195.51	6,102.59	-924.54	-209.76	170.04	0.50	-0.50	0.71	
6,302.00	3.81	191.58	6,206.32	-931.84	-211.54	171.51	0.70	-0.64	-3.78	
6,397.00	9.25	204.72	6,300.67	-941.87	-215.37	174.91	5.90	5.73	13.83	
6,491.00	15.99	236.93	6,392.45	-955.83	-229.41	188.34	10.11	7.17	34.27	
6,586.00	25.99	245.51	6,481.05	-971.65	-259.40	217.63	10.99	10.53	9.03	
6,681.00	34.01	253.59	6,563.29	-987.81	-303.92	261.41	9.44	8.44	8.51	
6,775.00	42.47	259.89	6,637.08	-1,000.84	-360.50	317.39	9.90	9.00	6.70	
6,870.00	49.47	264.57	6,703.09	-1,009.90	-428.12	384.56	8.17	7.37	4.93	
6,965.00	55.66	266.33	6,760.81	-1,015.83	-503.28	459.40	6.68	6.52	1.85	
7,059.00	62.83	266.92	6,808.85	-1,020.57	-583.87	539.71	7.65	7.63	0.63	
7,154.00	68.13	267.93	6,848.26	-1,024.43	-670.18	625.78	5.66	5.58	1.06	
7,249.00	76.23	268.41	6,877.31	-1,027.31	-760.50	715.89	8.54	8.53	0.51	
7,344.00	83.66	267.81	6,893.88	-1,030.40	-853.93	809.10	7.85	7.82	-0.63	
7,369.00	85.28	267.66	6,896.29	-1,031.38	-878.79	833.90	6.52	6.49	-0.59	
<b>Actual POE @ 7369' MD</b>										
7,438.00	89.76	267.26	6,899.28	-1,034.44	-947.64	902.55	6.52	6.49	-0.58	
7,533.00	89.93	267.33	6,899.53	-1,038.92	-1,042.53	997.17	0.19	0.18	0.07	
7,628.00	91.01	268.19	6,898.75	-1,042.63	-1,137.46	1,091.85	1.45	1.14	0.91	
7,723.00	90.27	267.61	6,897.69	-1,046.11	-1,232.38	1,186.54	0.99	-0.78	-0.61	

**SDT**  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
7,818.00	89.46	268.11	6,897.92	-1,049.66	-1,327.32	1,281.23	1.00	-0.85	0.53	
7,912.00	90.61	268.53	6,897.86	-1,052.42	-1,421.27	1,374.99	1.30	1.22	0.45	
8,007.00	91.04	271.21	6,896.49	-1,052.63	-1,516.26	1,469.87	2.86	0.45	2.82	
8,102.00	90.34	272.24	6,895.35	-1,049.77	-1,611.20	1,564.86	1.31	-0.74	1.08	
8,196.00	89.80	272.89	6,895.23	-1,045.57	-1,705.11	1,658.86	0.90	-0.57	0.69	
8,291.00	89.02	272.07	6,896.21	-1,041.46	-1,800.01	1,753.85	1.19	-0.82	-0.86	
8,386.00	89.53	272.32	6,897.41	-1,037.82	-1,894.94	1,848.84	0.60	0.54	0.26	
8,481.00	90.54	272.41	6,897.35	-1,033.90	-1,989.85	1,943.84	1.07	1.06	0.09	
8,576.00	90.24	274.54	6,896.71	-1,028.14	-2,084.67	2,038.82	2.26	-0.32	2.24	
8,670.00	89.43	274.21	6,896.98	-1,020.97	-2,178.40	2,132.76	0.93	-0.86	-0.35	
8,765.00	90.81	274.09	6,896.78	-1,014.09	-2,273.14	2,227.72	1.46	1.45	-0.13	
8,859.00	89.90	273.90	6,896.20	-1,007.55	-2,366.91	2,321.68	0.99	-0.97	-0.20	
8,953.00	91.45	272.92	6,895.09	-1,001.95	-2,460.74	2,415.66	1.95	1.65	-1.04	
9,048.00	90.61	272.60	6,893.38	-997.38	-2,555.61	2,510.64	0.95	-0.88	-0.34	
9,142.00	89.83	272.02	6,893.02	-993.59	-2,649.53	2,604.64	1.03	-0.83	-0.62	
9,237.00	89.87	272.14	6,893.27	-990.14	-2,744.47	2,699.63	0.13	0.04	0.13	
9,331.00	89.83	271.01	6,893.52	-987.56	-2,838.43	2,793.62	1.20	-0.04	-1.20	
9,425.00	91.38	272.11	6,892.52	-985.00	-2,932.39	2,887.60	2.02	1.65	1.17	
9,520.00	90.57	273.64	6,890.91	-980.24	-3,027.25	2,982.58	1.82	-0.85	1.61	
9,614.00	90.40	273.69	6,890.11	-974.23	-3,121.05	3,076.56	0.19	-0.18	0.05	
9,709.00	90.44	273.14	6,889.41	-968.57	-3,215.88	3,171.54	0.58	0.04	-0.58	
9,804.00	89.97	273.03	6,889.07	-963.46	-3,310.74	3,266.53	0.51	-0.49	-0.12	
9,898.00	89.70	272.36	6,889.35	-959.04	-3,404.64	3,360.53	0.77	-0.29	-0.71	
9,993.00	89.36	272.27	6,890.12	-955.20	-3,499.56	3,455.53	0.37	-0.36	-0.09	
10,087.00	90.17	272.85	6,890.51	-951.00	-3,593.46	3,549.52	1.06	0.86	0.62	
10,182.00	89.87	272.51	6,890.48	-946.56	-3,688.36	3,644.52	0.48	-0.32	-0.36	
10,277.00	89.83	272.54	6,890.73	-942.38	-3,783.27	3,739.52	0.05	-0.04	0.03	
10,371.00	89.33	271.69	6,891.41	-938.91	-3,877.20	3,833.52	1.05	-0.53	-0.90	
10,466.00	88.75	271.34	6,893.01	-936.39	-3,972.15	3,928.49	0.71	-0.61	-0.37	
10,560.00	88.82	272.96	6,895.00	-932.87	-4,066.06	4,022.47	1.72	0.07	1.72	
10,655.00	90.44	274.30	6,895.61	-926.85	-4,160.86	4,117.44	2.21	1.71	1.41	
10,749.00	90.00	274.00	6,895.25	-920.05	-4,254.62	4,211.40	0.57	-0.47	-0.32	
10,844.00	91.11	273.50	6,894.33	-913.84	-4,349.41	4,306.37	1.28	1.17	-0.53	
10,938.00	90.77	273.41	6,892.79	-908.18	-4,443.22	4,400.34	0.37	-0.36	-0.10	
11,033.00	90.13	273.00	6,892.04	-902.86	-4,538.07	4,495.33	0.80	-0.67	-0.43	
11,128.00	90.10	272.63	6,891.85	-898.20	-4,632.95	4,590.32	0.39	-0.03	-0.39	
11,222.00	89.60	272.99	6,892.10	-893.59	-4,726.84	4,684.32	0.66	-0.53	0.38	
11,317.00	88.75	272.41	6,893.47	-889.12	-4,821.72	4,779.31	1.08	-0.89	-0.61	
11,412.00	89.97	272.10	6,894.53	-885.38	-4,916.64	4,874.30	1.33	1.28	-0.33	
11,506.00	89.56	272.02	6,894.91	-882.00	-5,010.58	4,968.30	0.44	-0.44	-0.09	
11,601.00	89.16	271.70	6,895.97	-878.92	-5,105.52	5,063.29	0.54	-0.42	-0.34	
11,695.00	88.48	271.57	6,897.91	-876.23	-5,199.47	5,157.26	0.74	-0.72	-0.14	
11,789.00	89.90	270.75	6,899.24	-874.33	-5,293.43	5,251.22	1.74	1.51	-0.87	

**SDT**  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
11,884.00	90.47	270.87	6,898.93	-872.99	-5,388.42	5,346.18	0.61	0.60	0.13	
11,978.00	89.90	270.35	6,898.63	-871.99	-5,482.42	5,440.13	0.82	-0.61	-0.55	
12,073.00	89.53	272.33	6,899.10	-869.77	-5,577.39	5,535.11	2.12	-0.39	2.08	
12,167.00	91.28	273.01	6,898.44	-865.39	-5,671.28	5,629.10	2.00	1.86	0.72	
12,262.00	90.61	272.68	6,896.87	-860.67	-5,766.15	5,724.08	0.79	-0.71	-0.35	
12,356.00	89.70	272.06	6,896.62	-856.79	-5,860.06	5,818.08	1.17	-0.97	-0.66	
12,450.00	90.37	272.92	6,896.56	-852.70	-5,953.97	5,912.08	1.16	0.71	0.91	
12,545.00	90.71	273.90	6,895.66	-847.05	-6,048.80	6,007.06	1.09	0.36	1.03	
12,639.00	91.78	275.05	6,893.62	-839.72	-6,142.49	6,100.98	1.67	1.14	1.22	
12,734.00	91.58	274.63	6,890.84	-831.71	-6,237.11	6,195.85	0.49	-0.21	-0.44	
12,828.00	91.41	274.62	6,888.38	-824.13	-6,330.77	6,289.75	0.18	-0.18	-0.01	
12,923.00	90.00	272.28	6,887.21	-818.42	-6,425.58	6,384.72	2.88	-1.48	-2.46	
13,017.00	89.93	272.55	6,887.27	-814.46	-6,519.50	6,478.72	0.30	-0.07	0.29	
13,112.00	89.60	272.49	6,887.66	-810.28	-6,614.41	6,573.72	0.35	-0.35	-0.06	
13,207.00	89.13	272.15	6,888.71	-806.43	-6,709.32	6,668.72	0.61	-0.49	-0.36	
13,301.00	91.52	272.55	6,888.18	-802.58	-6,803.23	6,762.71	2.58	2.54	0.43	
13,396.00	90.67	272.09	6,886.37	-798.73	-6,898.14	6,857.69	1.02	-0.89	-0.48	
13,490.00	89.93	272.03	6,885.87	-795.35	-6,992.08	6,951.68	0.79	-0.79	-0.06	
13,584.00	88.92	271.93	6,886.82	-792.11	-7,086.01	7,045.68	1.08	-1.07	-0.11	
13,679.00	89.63	271.61	6,888.02	-789.17	-7,180.96	7,140.66	0.82	0.75	-0.34	
13,773.00	90.37	272.62	6,888.02	-785.70	-7,274.89	7,234.66	1.33	0.79	1.07	
13,867.00	90.13	271.92	6,887.61	-781.98	-7,368.82	7,328.65	0.79	-0.26	-0.74	
13,962.00	89.87	271.48	6,887.61	-779.16	-7,463.78	7,423.65	0.54	-0.27	-0.46	
14,057.00	89.43	271.00	6,888.19	-777.11	-7,558.75	7,518.62	0.69	-0.46	-0.51	
14,151.00	90.20	271.87	6,888.49	-774.75	-7,652.72	7,612.61	1.24	0.82	0.93	
14,246.00	91.38	272.22	6,887.18	-771.36	-7,747.65	7,707.59	1.30	1.24	0.37	
14,341.00	91.04	271.62	6,885.18	-768.18	-7,842.57	7,802.57	0.73	-0.36	-0.63	
14,435.00	90.87	271.09	6,883.61	-765.96	-7,936.53	7,896.54	0.59	-0.18	-0.56	
14,530.00	90.64	270.20	6,882.36	-764.89	-8,031.52	7,991.48	0.97	-0.24	-0.94	
14,624.00	90.40	271.56	6,881.51	-763.45	-8,125.50	8,085.44	1.47	-0.26	1.45	
14,719.00	90.91	272.66	6,880.42	-759.95	-8,220.43	8,180.43	1.28	0.54	1.16	
14,813.00	92.46	272.63	6,877.66	-755.61	-8,314.29	8,274.38	1.65	1.65	-0.03	
14,908.00	92.16	272.04	6,873.83	-751.75	-8,409.13	8,369.31	0.70	-0.32	-0.62	
15,002.00	91.41	271.35	6,870.90	-748.97	-8,503.04	8,463.25	1.08	-0.80	-0.73	
15,097.00	91.18	271.29	6,868.75	-746.78	-8,597.99	8,558.21	0.25	-0.24	-0.06	
15,191.00	91.66	272.19	6,866.42	-743.93	-8,691.92	8,652.17	1.08	0.51	0.96	
15,285.00	92.19	273.03	6,863.26	-739.65	-8,785.77	8,746.12	1.06	0.56	0.89	
15,380.00	91.65	272.74	6,860.08	-734.87	-8,880.59	8,841.06	0.65	-0.57	-0.31	
15,474.00	91.11	274.62	6,857.82	-728.84	-8,974.37	8,935.01	2.08	-0.57	2.00	
15,568.00	90.88	274.64	6,856.18	-721.25	-9,068.05	9,028.92	0.25	-0.24	0.02	
15,663.00	90.57	274.66	6,854.98	-713.55	-9,162.73	9,123.85	0.33	-0.33	0.02	
15,758.00	90.34	274.29	6,854.23	-706.14	-9,257.43	9,218.78	0.46	-0.24	-0.39	
15,852.00	89.97	274.22	6,853.97	-699.16	-9,351.17	9,312.74	0.40	-0.39	-0.07	
15,947.00	91.28	273.84	6,852.94	-692.49	-9,445.93	9,407.69	1.44	1.38	-0.40	

**SDT**  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	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)	
16,041.00	90.81	273.61	6,851.22	-686.38	-9,539.72	9,501.65	0.56	-0.50	-0.24	
16,136.00	90.13	272.84	6,850.44	-681.04	-9,634.56	9,596.64	1.08	-0.72	-0.81	
16,231.00	89.83	272.55	6,850.48	-676.57	-9,729.46	9,691.64	0.44	-0.32	-0.31	
16,325.00	89.43	272.76	6,851.08	-672.22	-9,823.35	9,785.64	0.48	-0.43	0.22	
16,420.00	91.01	272.68	6,850.72	-667.71	-9,918.24	9,880.63	1.67	1.66	-0.08	
16,515.00	90.81	272.19	6,849.21	-663.67	-10,013.14	9,975.62	0.56	-0.21	-0.52	
16,609.00	90.03	272.04	6,848.52	-660.20	-10,107.08	10,069.62	0.84	-0.83	-0.16	
16,704.00	89.36	271.51	6,849.03	-657.26	-10,202.03	10,164.61	0.90	-0.71	-0.56	
16,798.00	90.84	271.82	6,848.86	-654.53	-10,295.99	10,258.59	1.61	1.57	0.33	
16,893.00	90.00	271.69	6,848.17	-651.62	-10,390.94	10,353.58	0.89	-0.88	-0.14	
16,987.00	89.63	271.09	6,848.47	-649.34	-10,484.91	10,447.57	0.75	-0.39	-0.64	
17,081.00	90.64	270.63	6,848.25	-647.93	-10,578.90	10,541.53	1.18	1.07	-0.49	
17,114.29	90.53	270.47	6,847.91	-647.61	-10,612.18	10,574.80	0.57	-0.32	-0.47	
<b>Actual FPP @ 17114.29' MD</b>										
17,175.00	90.34	270.19	6,847.44	-647.26	-10,672.89	10,635.47	0.57	-0.32	-0.47	
17,238.00	89.87	269.97	6,847.33	-647.17	-10,735.89	10,698.41	0.82	-0.75	-0.35	
17,310.00	89.87	269.97	6,847.49	-647.21	-10,807.89	10,770.34	0.00	0.00	0.00	
<b>BHL @ 17310' MD</b>										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Rosa 614H SHL - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	2,140,917.75	2,838,211.88	36.882844	-107.439701	
Rosa 614H BHL - actual wellpath hits target center - Point	0.00	0.00	6,847.49	-647.21	-10,807.89	2,140,225.98	2,827,406.75	36.881061	-107.476656	
Rosa 614H Actual FPP - actual wellpath hits target center - Point	0.00	0.00	6,847.91	-647.61	-10,612.18	2,140,226.39	2,827,602.45	36.881060	-107.475986	
Rosa 614H PBHL - actual wellpath misses target center by 24.54usft at 17306.11usft MD (6847.48 TVD, -647.20 N, -10804.00 E) - Point	0.00	0.00	6,872.00	-648.38	-10,803.94	2,140,224.82	2,827,410.70	36.881057	-107.476642	
Rosa 614H Actual POE - actual wellpath hits target center - Point	0.00	0.00	6,896.29	-1,031.38	-878.79	2,139,882.75	2,837,337.35	36.880011	-107.442706	

SDT  
Survey Report

<b>Company:</b>	Logos Operating LLC	<b>Local Co-ordinate Reference:</b>	Well Rosa Unit 614H
<b>Project:</b>	Rio Arriba, NM (NAD83)	<b>TVD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Site:</b>	Rosa Unit 10	<b>MD Reference:</b>	6287+30 @ 6317.00usft (H&P 530)
<b>Well:</b>	Rosa Unit 614H	<b>North Reference:</b>	True
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000 Multi User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,369.00	6,896.29	-1,031.38	-878.79	Actual POE @ 7369' MD
17,114.29	6,847.91	-647.61	-10,612.18	Actual FPP @ 17114.29' MD
17,310.00	6,847.49	-647.21	-10,807.89	BHL @ 17310' MD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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 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 391966

**ACKNOWLEDGMENTS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 391966
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	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 391966

**CONDITIONS**

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 391966
	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