

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address LOGOS Operating, LLC 2010 Afton Place Farmington NM 87401		² OGRID Number 289408	
		³ Reason for Filing Code/ Effective Date Test Allowable	
⁴ API Number 30-039-31358	⁵ Pool Name Basin Mancos		⁶ Pool Code 97232
⁷ Property Code 320608	⁸ Property Name Rosa Unit		⁹ Well Number 665H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
K	30	31N	5W	3	2277	FSL	967	FWL	Rio Arriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	26	31N	6W		1155	FSL	150	FWL	Rio Arriba
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield NM 87413	G

IV. Well Completion Data

²¹ Spud Date 8/23/2021	²² Ready Date ~9/19/2022	²³ TD 17930' MD / 6,927' TVD	²⁴ PBTD 17815' MD / 6927' TVD	²⁵ Perforations ~7510' MD / ~17744' MD ~6968' TVD / ~6927' TVD	²⁶ DHC, MC R-13457
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J-55	324'	350sx (87bbbls - 487cf)		
12-1/4"	9-5/8", 43.5#, N-80	6415'	2174sx (759bbbls - 5000cf) DV @ 4779' & DV @ 3235'		
8-1/2"	5 1/2", 20#, P-110	17,907'	2430sx (662bbbls - 3718cf)		
	2 7/8", 6.5#, J-55	pending			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date ~9/19/2022	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² 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. Signature: <i>Etta Trujillo</i> Printed name: Etta Trujillo Title: Regulatory Specialist E-mail Address: etrujillo@logosresourcesllc.com Date: 9/16/2022	Phone: 505-324-4154	OIL CONSERVATION DIVISION	
		Approved by:	
		Title:	
		Approval Date:	

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☒ AMENDED REPORT
As-Drilled

AS-DRILLED WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-31358		2 Pool Code 97232	3 Pool Name BASIN MANCOS
4 Property Code 320608	5 Property Name ROSA UNIT		6 Well Number 665H
7 OGRID No. 289408	8 Operator Name LOGOS OPERATING, LLC		9 Elevation 6394'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	31N	5W	3	2277	SOUTH	967	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	26	31N	6W		1155	SOUTH	150	WEST	RIO ARriba

12 Dedicated Acres 825.11	13 Joint or Infill	14 Consolidation Code	15 Order No. R-13457
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T31N R5W, Section 30 : Lot 3 & 4, SE/4
T31N R6W, Section 25 : Lot 3 & 4, W/2 SE/4, SW/4
T31N R6W, Section 26 : S/2

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature Etta Trujillo Date 8/8/2022
Printed Name Etta Trujillo
E-mail Address etrujillo@logosresourcesllc.com

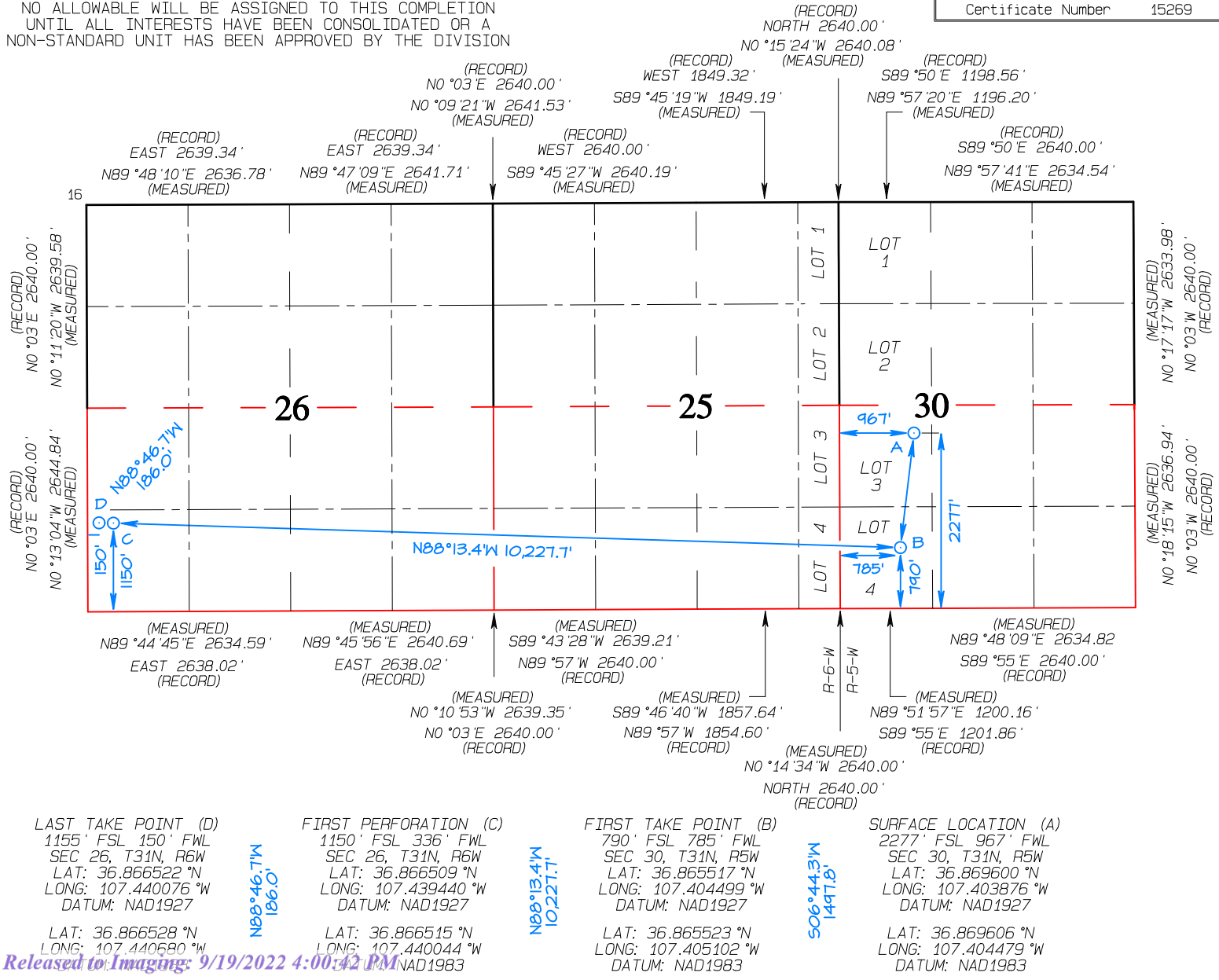
18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: AUGUST 8, 2022
Survey Date: SEPTEMBER 3, 2015

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
15269

Certificate Number 15269





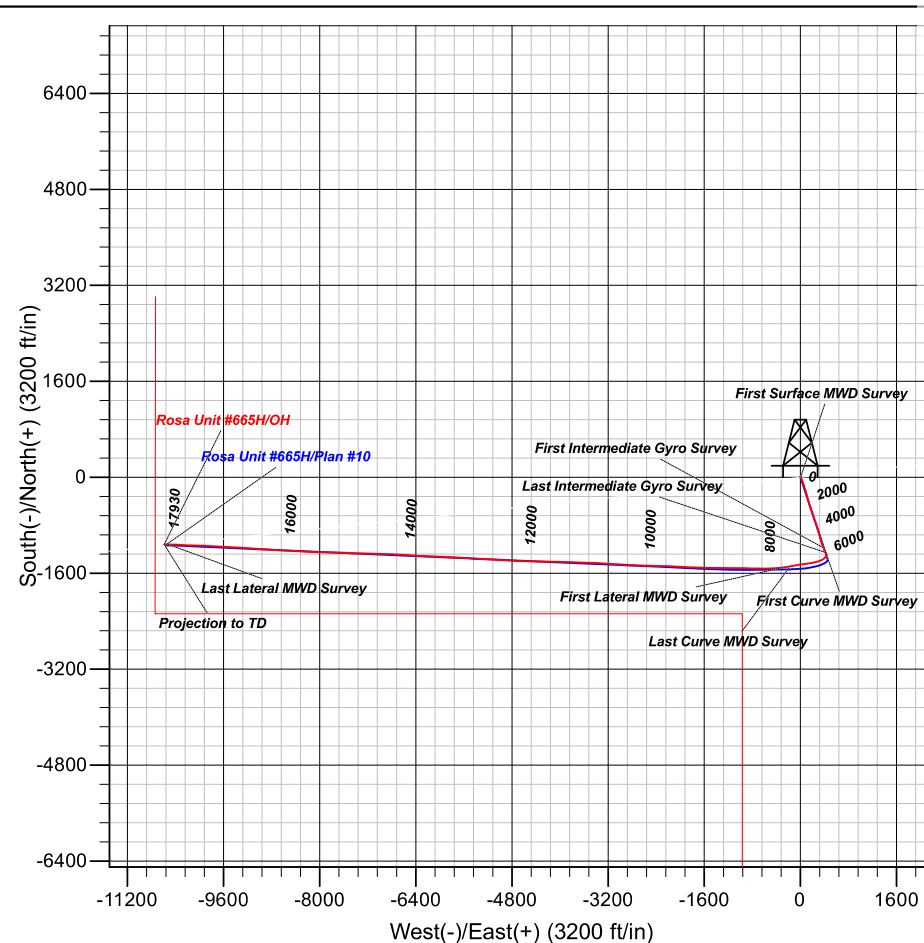
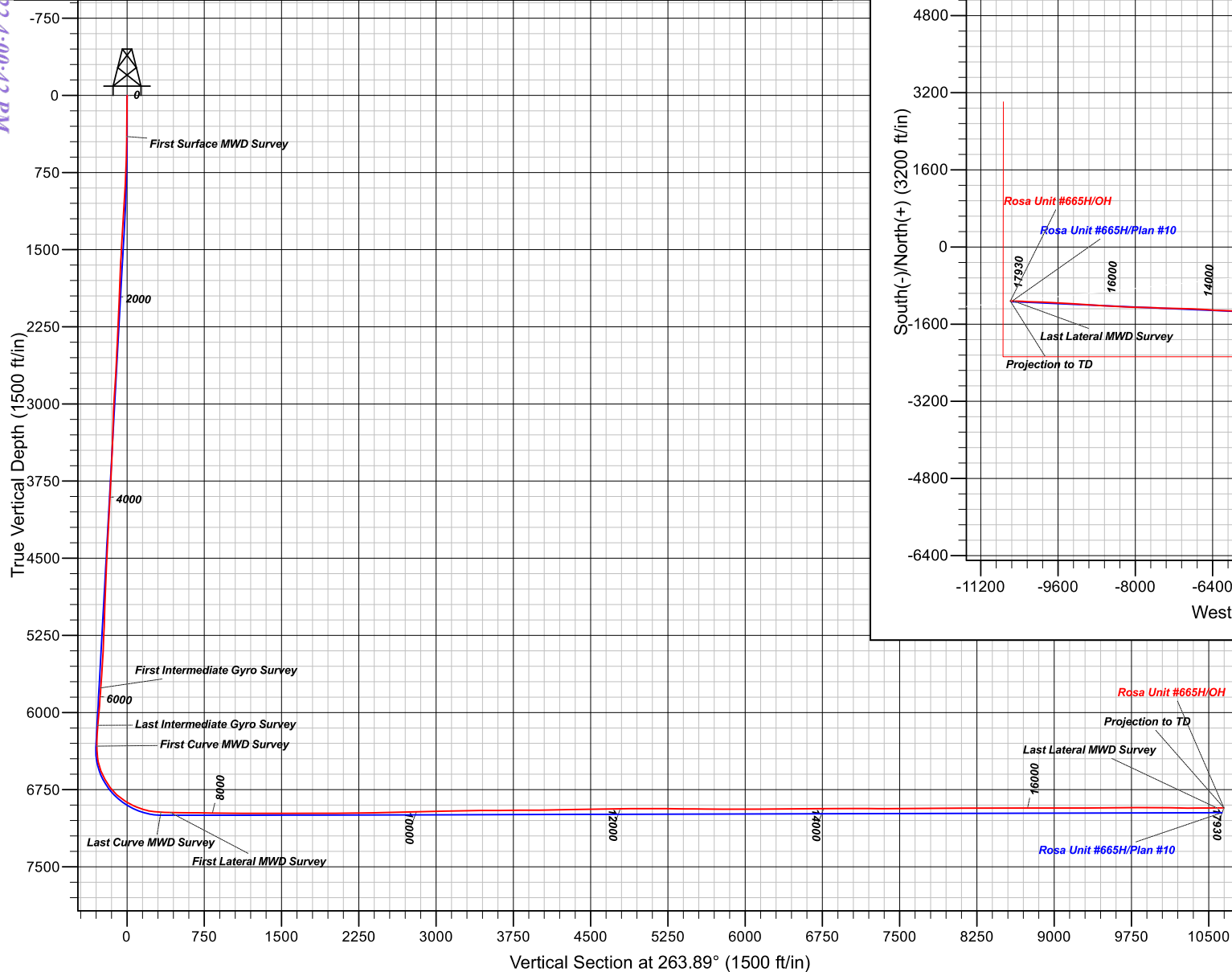
Company Name: Logos Operating LLC
 Project: Rio Arriba, NM NAD83
 Site: Rosa Unit 30
 Well: Rosa Unit #665H
 Wellbore: OH



WELL DETAILS: Rosa Unit #665H

GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223) 6394.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	2136142.63	2848534.45	36.8696059	-107.4044791	A4 (665H)



Design: OH (Rosa Unit #665H/OH)

Created By: Janie Collins Date: 14:03, July 14 2022

PROJECT DETAILS: Rio Arriba, NM NAD83

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Western Zone

System Datum: Mean Sea Level
 Local North: True



Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 30

Rosa Unit #665H - Slot A4 (665H)

OH

Design: OH

Standard Survey Report

14 July, 2022





Lonestar Consulting, LLC

Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #665H - Slot A4 (665H)
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Site:	Rosa Unit 30	MD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Well:	Rosa Unit #665H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

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 30			
Site Position:		Northing:	2,136,112.13 usft	Latitude:	36.8695220
From:	Lat/Long	Easting:	2,848,540.75 usft	Longitude:	-107.4044580
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in		

Well	Rosa Unit #665H - Slot A4 (665H)					
Well Position	+N/-S	0.00 ft	Northing:	2,136,142.63 usft	Latitude:	36.8696058
	+E/-W	0.00 ft	Easting:	2,848,534.45 usft	Longitude:	-107.4044791
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,394.00 ft
Grid Convergence:		0.26 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2022	7/7/2022	8.58	63.32	49,565.60000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	263.89	

Survey Program	Date	7/14/2022			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
401.00	5,809.00	Survey #1 - Surface MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
5,909.00	6,284.00	Survey #2 - Gyro Survey (OH)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
6,490.00	7,499.00	Survey #3 - Curve MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
7,593.00	17,930.00	Survey #4 - Lateral MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
401.00	0.53	87.39	401.00	0.08	1.85	-1.85	0.13	0.13	0.00	
496.00	1.88	98.64	495.97	-0.13	3.83	-3.80	1.44	1.42	11.84	
591.00	3.29	138.63	590.88	-2.41	7.18	-6.88	2.33	1.48	42.09	
685.00	5.38	157.60	684.61	-8.51	10.64	-9.67	2.67	2.22	20.18	



Lonestar Consulting, LLC

Survey Report



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Well:	Rosa Unit #665H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
779.00	8.19	159.69	777.94	-18.86	14.64	-12.55	3.00	2.99	2.22
875.00	10.96	160.08	872.60	-33.86	20.13	-16.41	2.89	2.89	0.41
970.00	13.96	160.96	965.35	-53.19	26.94	-21.13	3.16	3.16	0.93
1,065.00	15.10	158.56	1,057.31	-75.54	35.20	-26.96	1.36	1.20	-2.53
1,160.00	16.15	158.19	1,148.80	-99.32	44.64	-33.81	1.11	1.11	-0.39
1,256.00	15.84	162.31	1,241.09	-124.20	53.58	-40.05	1.23	-0.32	4.29
1,351.00	16.04	162.51	1,332.43	-149.07	61.46	-45.25	0.22	0.21	0.21
1,446.00	15.23	163.93	1,423.92	-173.58	68.86	-49.99	0.94	-0.85	1.49
1,509.00	15.43	162.80	1,484.68	-189.54	73.63	-53.04	0.57	0.32	-1.79
1,603.00	16.58	161.66	1,575.03	-214.22	81.55	-58.28	1.27	1.22	-1.21
1,697.00	14.99	165.35	1,665.49	-238.71	88.84	-62.93	2.00	-1.69	3.93
1,792.00	15.37	166.30	1,757.17	-262.83	94.93	-66.42	0.48	0.40	1.00
1,888.00	14.50	166.75	1,849.93	-286.89	100.70	-69.59	0.91	-0.91	0.47
1,983.00	13.74	164.38	1,942.06	-309.33	106.46	-72.93	1.01	-0.80	-2.49
2,078.00	14.11	163.73	2,034.27	-331.31	112.75	-76.84	0.42	0.39	-0.68
2,173.00	15.18	162.38	2,126.18	-354.28	119.76	-81.37	1.18	1.13	-1.42
2,269.00	14.24	164.43	2,219.03	-377.64	126.73	-85.81	1.12	-0.98	2.14
2,364.00	14.53	163.49	2,311.05	-400.32	133.25	-89.89	0.39	0.31	-0.99
2,459.00	14.20	163.79	2,403.08	-422.93	139.89	-94.08	0.36	-0.35	0.32
2,554.00	14.62	163.88	2,495.08	-445.64	146.47	-98.21	0.44	0.44	0.09
2,650.00	13.91	161.65	2,588.13	-468.23	153.47	-102.76	0.94	-0.74	-2.32
2,745.00	14.31	160.97	2,680.26	-490.17	160.89	-107.81	0.46	0.42	-0.72
2,840.00	14.24	161.84	2,772.33	-512.37	168.36	-112.87	0.24	-0.07	0.92
2,936.00	15.11	161.10	2,865.19	-535.43	176.10	-118.11	0.93	0.91	-0.77
3,031.00	15.02	158.56	2,956.93	-558.60	184.61	-124.10	0.70	-0.09	-2.67
3,126.00	12.50	162.13	3,049.20	-579.84	192.26	-129.45	2.80	-2.65	3.76
3,222.00	10.31	165.21	3,143.30	-598.04	197.64	-132.87	2.37	-2.28	3.21
3,317.00	9.56	163.62	3,236.87	-613.83	202.04	-135.56	0.84	-0.79	-1.67
3,412.00	10.56	163.01	3,330.41	-629.72	206.81	-138.61	1.06	1.05	-0.64
3,507.00	11.38	161.58	3,423.67	-646.94	212.31	-142.25	0.91	0.86	-1.51
3,603.00	12.07	160.88	3,517.67	-665.41	218.59	-146.53	0.73	0.72	-0.73
3,698.00	12.49	159.55	3,610.50	-684.42	225.44	-151.31	0.53	0.44	-1.40
3,793.00	11.86	160.33	3,703.36	-703.24	232.31	-156.14	0.69	-0.66	0.82
3,889.00	11.03	158.15	3,797.45	-721.05	239.05	-160.94	0.97	-0.86	-2.27
3,984.00	10.01	161.01	3,890.85	-737.30	245.12	-165.25	1.21	-1.07	3.01
4,079.00	10.74	160.55	3,984.30	-753.45	250.75	-169.13	0.77	0.77	-0.48
4,174.00	12.63	162.21	4,077.33	-771.69	256.87	-173.28	2.02	1.99	1.75
4,269.00	13.02	162.04	4,169.96	-791.76	263.35	-177.58	0.41	0.41	-0.18
4,364.00	13.90	158.28	4,262.35	-812.54	270.87	-182.85	1.31	0.93	-3.96
4,459.00	15.17	160.36	4,354.31	-834.85	279.27	-188.83	1.45	1.34	2.19
4,554.00	15.82	163.17	4,445.86	-858.95	287.20	-194.14	1.05	0.68	2.96
4,650.00	14.65	164.44	4,538.48	-883.17	294.24	-198.57	1.27	-1.22	1.32



Lonestar Consulting, LLC

Survey Report



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,745.00	14.85	166.17	4,630.35	-906.56	300.38	-202.18	0.51	0.21	1.82	
4,840.00	14.64	165.76	4,722.22	-930.02	306.24	-205.51	0.25	-0.22	-0.43	
4,918.00	14.51	164.62	4,797.71	-949.00	311.26	-208.48	0.40	-0.17	-1.46	
5,013.00	13.59	163.25	4,889.87	-971.16	317.63	-212.46	1.03	-0.97	-1.44	
5,108.00	12.60	164.41	4,982.40	-991.83	323.63	-216.22	1.08	-1.04	1.22	
5,203.00	11.14	165.74	5,075.37	-1,010.71	328.68	-219.23	1.56	-1.54	1.40	
5,250.00	10.24	165.81	5,121.55	-1,019.16	330.82	-220.46	1.92	-1.91	0.15	
5,296.00	10.39	163.16	5,166.81	-1,027.09	333.02	-221.81	1.08	0.33	-5.76	
5,390.00	11.54	162.15	5,259.09	-1,044.15	338.36	-225.30	1.24	1.22	-1.07	
5,486.00	13.89	163.46	5,352.73	-1,064.34	344.59	-229.34	2.47	2.45	1.36	
5,581.00	15.27	161.61	5,444.67	-1,087.15	351.78	-234.07	1.53	1.45	-1.95	
5,677.00	16.74	162.84	5,536.95	-1,112.35	359.85	-239.41	1.57	1.53	1.28	
5,740.00	17.03	162.04	5,597.23	-1,129.80	365.37	-243.04	0.59	0.46	-1.27	
5,803.00	16.45	160.58	5,657.56	-1,146.99	371.18	-246.99	1.14	-0.92	-2.32	
5,809.00	16.43	160.58	5,663.31	-1,148.59	371.74	-247.38	0.27	-0.27	-0.03	
5,909.00	15.76	158.76	5,759.39	-1,174.59	381.37	-254.18	0.84	-0.67	-1.82	
6,009.00	14.38	156.81	5,855.95	-1,198.66	391.18	-261.37	1.47	-1.38	-1.95	
6,109.00	13.27	154.18	5,953.06	-1,220.41	401.07	-268.89	1.28	-1.11	-2.63	
6,209.00	12.16	152.64	6,050.60	-1,240.09	410.91	-276.58	1.16	-1.11	-1.54	
6,284.00	11.37	152.09	6,124.03	-1,253.64	418.00	-282.19	1.06	-1.05	-0.73	
6,490.00	8.67	160.94	6,326.88	-1,286.27	432.58	-293.21	1.51	-1.31	4.30	
6,553.00	11.69	189.46	6,388.91	-1,297.06	433.08	-292.56	9.18	4.79	45.27	
6,648.00	18.74	214.18	6,480.62	-1,319.23	422.90	-280.08	9.93	7.42	26.02	
6,743.00	26.47	226.95	6,568.31	-1,346.37	398.80	-253.23	9.60	8.14	13.44	
6,838.00	31.32	238.62	6,651.52	-1,373.71	362.20	-213.93	7.81	5.11	12.28	
6,933.00	37.77	249.63	6,729.81	-1,396.74	313.75	-163.30	9.43	6.79	11.59	
7,028.00	47.04	256.57	6,799.92	-1,415.00	252.50	-100.45	10.92	9.76	7.31	
7,123.00	58.69	260.39	6,857.18	-1,429.90	178.40	-25.19	12.67	12.26	4.02	
7,217.00	63.85	263.24	6,902.36	-1,441.58	96.84	57.15	6.10	5.49	3.03	
7,311.00	71.79	261.64	6,937.82	-1,453.05	10.63	144.09	8.59	8.45	-1.70	
7,405.00	81.03	259.29	6,959.88	-1,468.21	-79.36	235.18	10.12	9.83	-2.50	
7,499.00	88.22	260.41	6,968.68	-1,484.68	-171.42	328.48	7.74	7.65	1.19	
7,593.00	88.56	262.03	6,971.33	-1,499.03	-264.28	422.33	1.76	0.36	1.72	
7,688.00	88.39	263.71	6,973.85	-1,510.81	-358.51	517.28	1.78	-0.18	1.77	
7,782.00	90.37	266.50	6,974.87	-1,518.83	-452.15	611.24	3.64	2.11	2.97	
7,877.00	89.13	270.99	6,975.29	-1,520.91	-547.10	705.87	4.90	-1.31	4.73	
7,971.00	88.66	270.40	6,977.10	-1,519.77	-641.07	799.19	0.80	-0.50	-0.63	
8,065.00	89.96	270.67	6,978.23	-1,518.89	-735.06	892.55	1.41	1.38	0.29	
8,160.00	88.93	270.72	6,979.15	-1,517.74	-830.05	986.88	1.09	-1.08	0.05	
8,255.00	89.63	270.61	6,980.34	-1,516.64	-925.03	1,081.21	0.75	0.74	-0.12	
8,350.00	89.73	269.56	6,980.88	-1,516.50	-1,020.03	1,175.65	1.11	0.11	-1.11	
8,445.00	91.27	270.46	6,980.05	-1,516.48	-1,115.02	1,270.10	1.88	1.62	0.95	



Lonestar Consulting, LLC

Survey Report



Company:	Logos Operating LLC	Local Co-ordinate Reference:	Well Rosa Unit #665H - Slot A4 (665H)
Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Site:	Rosa Unit 30	MD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Well:	Rosa Unit #665H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,540.00	90.13	271.05	6,978.89	-1,515.23	-1,210.01	1,364.41	1.35	-1.20	0.62	
8,635.00	89.46	270.84	6,979.23	-1,513.66	-1,304.99	1,458.69	0.74	-0.71	-0.22	
8,731.00	89.13	270.88	6,980.41	-1,512.22	-1,400.97	1,553.97	0.35	-0.34	0.04	
8,826.00	89.33	271.32	6,981.68	-1,510.40	-1,495.95	1,648.21	0.51	0.21	0.46	
8,921.00	90.84	271.56	6,981.54	-1,508.01	-1,590.91	1,742.39	1.61	1.59	0.25	
9,015.00	91.01	271.61	6,980.02	-1,505.41	-1,684.87	1,835.53	0.19	0.18	0.05	
9,109.00	90.54	271.37	6,978.75	-1,502.97	-1,778.83	1,928.69	0.56	-0.50	-0.26	
9,205.00	89.46	272.96	6,978.75	-1,499.34	-1,874.75	2,023.69	2.00	-1.13	1.66	
9,300.00	90.13	272.92	6,979.09	-1,494.47	-1,969.63	2,117.51	0.71	0.71	-0.04	
9,395.00	91.24	272.75	6,977.96	-1,489.77	-2,064.50	2,211.34	1.18	1.17	-0.18	
9,490.00	90.67	272.59	6,976.37	-1,485.35	-2,159.39	2,305.22	0.62	-0.60	-0.17	
9,586.00	91.68	271.50	6,974.41	-1,481.92	-2,255.30	2,400.22	1.55	1.05	-1.14	
9,681.00	90.97	270.86	6,972.21	-1,479.97	-2,350.25	2,494.43	1.01	-0.75	-0.67	
9,776.00	91.58	272.33	6,970.09	-1,477.32	-2,445.19	2,588.54	1.67	0.64	1.55	
9,872.00	91.44	271.87	6,967.57	-1,473.81	-2,541.09	2,683.53	0.50	-0.15	-0.48	
9,967.00	91.17	270.94	6,965.40	-1,471.48	-2,636.04	2,777.68	1.02	-0.28	-0.98	
10,062.00	90.94	273.65	6,963.65	-1,467.67	-2,730.94	2,871.64	2.86	-0.24	2.85	
10,157.00	90.34	272.98	6,962.59	-1,462.18	-2,825.77	2,965.35	0.95	-0.63	-0.71	
10,253.00	91.91	272.60	6,960.71	-1,457.51	-2,921.64	3,060.17	1.68	1.64	-0.40	
10,348.00	91.78	272.69	6,957.65	-1,453.13	-3,016.49	3,154.02	0.17	-0.14	0.09	
10,443.00	91.24	273.16	6,955.14	-1,448.28	-3,111.33	3,247.81	0.75	-0.57	0.49	
10,539.00	90.37	274.04	6,953.80	-1,442.25	-3,207.13	3,342.42	1.29	-0.91	0.92	
10,634.00	90.70	273.26	6,952.91	-1,436.21	-3,301.93	3,436.04	0.89	0.35	-0.82	
10,729.00	90.10	273.95	6,952.24	-1,430.23	-3,396.74	3,529.67	0.96	-0.63	0.73	
10,825.00	90.13	271.91	6,952.05	-1,425.33	-3,492.61	3,624.48	2.13	0.03	-2.13	
10,920.00	90.80	272.18	6,951.28	-1,421.94	-3,587.54	3,718.51	0.76	0.71	0.28	
11,015.00	90.50	271.83	6,950.20	-1,418.61	-3,682.48	3,812.55	0.49	-0.32	-0.37	
11,110.00	89.96	271.55	6,949.82	-1,415.81	-3,777.44	3,906.67	0.64	-0.57	-0.29	
11,206.00	91.24	271.46	6,948.82	-1,413.29	-3,873.40	4,001.82	1.34	1.33	-0.09	
11,301.00	91.01	271.37	6,946.95	-1,410.94	-3,968.35	4,095.98	0.26	-0.24	-0.09	
11,396.00	90.47	271.06	6,945.72	-1,408.93	-4,063.32	4,190.20	0.66	-0.57	-0.33	
11,491.00	91.45	271.11	6,944.13	-1,407.13	-4,158.29	4,284.44	1.03	1.03	0.05	
11,586.00	90.80	271.40	6,942.27	-1,405.05	-4,253.25	4,378.64	0.75	-0.68	0.31	
11,681.00	90.50	271.33	6,941.19	-1,402.79	-4,348.21	4,472.82	0.32	-0.32	-0.07	
11,776.00	90.70	270.03	6,940.20	-1,401.66	-4,443.20	4,567.15	1.38	0.21	-1.37	
11,872.00	91.48	270.32	6,938.37	-1,401.37	-4,539.18	4,662.55	0.87	0.81	0.30	
11,967.00	90.84	273.29	6,936.45	-1,398.38	-4,634.10	4,756.62	3.20	-0.67	3.13	
12,062.00	90.77	272.96	6,935.11	-1,393.20	-4,728.95	4,850.38	0.36	-0.07	-0.35	
12,157.00	90.34	272.18	6,934.19	-1,388.94	-4,823.85	4,944.28	0.94	-0.45	-0.82	
12,252.00	90.20	273.56	6,933.74	-1,384.18	-4,918.73	5,038.12	1.46	-0.15	1.45	
12,348.00	89.93	273.04	6,933.63	-1,378.66	-5,014.57	5,132.82	0.61	-0.28	-0.54	
12,443.00	89.16	273.10	6,934.39	-1,373.57	-5,109.43	5,226.60	0.81	-0.81	0.06	



Lonestar Consulting, LLC

Survey Report



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Project:	Rio Arriba, NM NAD83	TVD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Site:	Rosa Unit 30	MD Reference:	GL 6394' & RKB 24.5' @ 6418.50ft (Ensign T223)
Well:	Rosa Unit #665H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,538.00	88.86	273.06	6,936.03	-1,368.46	-5,204.28	5,320.37	0.32	-0.32	-0.04	
12,633.00	89.66	273.92	6,937.26	-1,362.68	-5,299.09	5,414.03	1.24	0.84	0.91	
12,728.00	89.26	274.36	6,938.15	-1,355.82	-5,393.84	5,507.51	0.63	-0.42	0.46	
12,824.00	89.60	274.42	6,939.11	-1,348.48	-5,489.55	5,601.90	0.36	0.35	0.06	
12,919.00	90.00	273.01	6,939.44	-1,342.32	-5,584.35	5,695.50	1.54	0.42	-1.48	
13,014.00	89.43	272.74	6,939.91	-1,337.56	-5,679.23	5,789.33	0.66	-0.60	-0.28	
13,109.00	89.50	272.41	6,940.80	-1,333.29	-5,774.13	5,883.24	0.36	0.07	-0.35	
13,204.00	90.60	272.29	6,940.72	-1,329.39	-5,869.05	5,977.20	1.16	1.16	-0.13	
13,299.00	90.00	271.91	6,940.22	-1,325.91	-5,963.98	6,071.23	0.75	-0.63	-0.40	
13,394.00	91.51	272.51	6,938.97	-1,322.25	-6,058.90	6,165.22	1.71	1.59	0.63	
13,489.00	90.74	271.87	6,937.10	-1,318.62	-6,153.81	6,259.20	1.05	-0.81	-0.67	
13,584.00	89.83	272.38	6,936.63	-1,315.10	-6,248.74	6,353.22	1.10	-0.96	0.54	
13,679.00	90.47	273.67	6,936.38	-1,310.08	-6,343.61	6,447.01	1.52	0.67	1.36	
13,774.00	90.10	273.62	6,935.91	-1,304.04	-6,438.41	6,540.64	0.39	-0.39	-0.05	
13,869.00	89.73	274.51	6,936.05	-1,297.31	-6,533.17	6,634.14	1.01	-0.39	0.94	
13,964.00	90.33	273.25	6,936.00	-1,290.88	-6,627.95	6,727.70	1.47	0.63	-1.33	
14,058.00	90.03	272.95	6,935.70	-1,285.80	-6,721.81	6,820.49	0.45	-0.32	-0.32	
14,154.00	91.17	271.78	6,934.70	-1,281.84	-6,817.72	6,915.43	1.70	1.19	-1.22	
14,249.00	90.44	271.75	6,933.36	-1,278.91	-6,912.67	7,009.53	0.77	-0.77	-0.03	
14,344.00	90.17	271.14	6,932.86	-1,276.52	-7,007.64	7,103.70	0.70	-0.28	-0.64	
14,439.00	89.66	271.30	6,933.00	-1,274.49	-7,102.62	7,197.92	0.56	-0.54	0.17	
14,533.00	89.03	270.94	6,934.07	-1,272.66	-7,196.59	7,291.17	0.77	-0.67	-0.38	
14,628.00	90.44	271.25	6,934.51	-1,270.84	-7,291.57	7,385.41	1.52	1.48	0.33	
14,724.00	89.63	271.20	6,934.45	-1,268.79	-7,387.55	7,480.63	0.85	-0.84	-0.05	
14,819.00	91.01	272.28	6,933.92	-1,265.90	-7,482.50	7,574.73	1.84	1.45	1.14	
14,914.00	90.20	272.93	6,932.92	-1,261.59	-7,577.39	7,668.63	1.09	-0.85	0.68	
15,009.00	89.73	272.64	6,932.98	-1,256.97	-7,672.28	7,762.49	0.58	-0.49	-0.31	
15,104.00	91.54	272.04	6,931.93	-1,253.09	-7,767.19	7,856.44	2.01	1.91	-0.63	
15,199.00	90.70	271.79	6,930.07	-1,249.92	-7,862.12	7,950.50	0.92	-0.88	-0.26	
15,293.00	90.27	272.18	6,929.27	-1,246.66	-7,956.06	8,043.56	0.62	-0.46	0.41	
15,388.00	89.97	271.49	6,929.07	-1,243.62	-8,051.01	8,137.64	0.79	-0.32	-0.73	
15,483.00	89.30	271.77	6,929.68	-1,240.92	-8,145.97	8,231.77	0.76	-0.71	0.29	
15,578.00	90.74	271.95	6,929.65	-1,237.83	-8,240.92	8,325.85	1.53	1.52	0.19	
15,673.00	89.90	271.93	6,929.12	-1,234.62	-8,335.86	8,419.92	0.88	-0.88	-0.02	
15,767.00	89.60	272.29	6,929.53	-1,231.16	-8,429.79	8,512.95	0.50	-0.32	0.38	
15,863.00	90.67	273.30	6,929.30	-1,226.48	-8,525.68	8,607.79	1.53	1.11	1.05	
15,957.00	90.07	273.53	6,928.69	-1,220.88	-8,619.51	8,700.49	0.68	-0.64	0.24	
16,053.00	89.50	272.66	6,929.05	-1,215.69	-8,715.37	8,795.25	1.08	-0.59	-0.91	
16,148.00	90.44	273.79	6,929.10	-1,210.35	-8,810.21	8,888.99	1.55	0.99	1.19	
16,243.00	90.10	273.88	6,928.65	-1,204.00	-8,905.00	8,982.56	0.37	-0.36	0.09	
16,338.00	89.73	274.23	6,928.80	-1,197.28	-8,999.76	9,076.07	0.54	-0.39	0.37	
16,433.00	90.64	274.37	6,928.49	-1,190.16	-9,094.49	9,169.51	0.97	0.96	0.15	



Lonestar Consulting, LLC Survey Report



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Well:	Rosa Unit #665H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	edm

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
16,528.00	90.23	274.40	6,927.77	-1,182.89	-9,189.21	9,262.91	0.43	-0.43	0.03	
16,623.00	90.20	273.72	6,927.41	-1,176.17	-9,283.97	9,356.42	0.72	-0.03	-0.72	
16,718.00	89.83	274.48	6,927.39	-1,169.37	-9,378.73	9,449.92	0.89	-0.39	0.80	
16,814.00	90.80	273.63	6,926.86	-1,162.59	-9,474.48	9,544.41	1.34	1.01	-0.89	
16,909.00	90.81	272.15	6,925.52	-1,157.80	-9,569.35	9,638.22	1.56	0.01	-1.56	
17,004.00	90.47	272.70	6,924.46	-1,153.78	-9,664.26	9,732.17	0.68	-0.36	0.58	
17,099.00	90.17	272.35	6,923.93	-1,149.59	-9,759.16	9,826.09	0.49	-0.32	-0.37	
17,194.00	89.80	272.38	6,923.96	-1,145.67	-9,854.08	9,920.05	0.39	-0.39	0.03	
17,290.00	89.20	271.78	6,924.79	-1,142.19	-9,950.02	10,015.07	0.88	-0.63	-0.63	
17,385.00	89.16	272.52	6,926.15	-1,138.62	-10,044.94	10,109.07	0.78	-0.04	0.78	
17,480.00	88.42	271.98	6,928.16	-1,134.90	-10,139.84	10,203.04	0.96	-0.78	-0.57	
17,575.00	89.77	273.26	6,929.66	-1,130.55	-10,234.73	10,296.92	1.96	1.42	1.35	
17,670.00	90.97	272.28	6,929.05	-1,125.96	-10,329.61	10,390.78	1.63	1.26	-1.03	
17,765.00	90.47	271.57	6,927.85	-1,122.77	-10,424.55	10,484.84	0.91	-0.53	-0.75	
17,860.00	90.10	271.41	6,927.38	-1,120.30	-10,519.52	10,579.00	0.42	-0.39	-0.17	
17,930.00	90.10	271.41	6,927.26	-1,118.58	-10,589.50	10,648.40	0.00	0.00	0.00	

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
401.00	400.99	0.08	1.85	First Surface MWD Survey
5,909.00	5,759.39	-1,174.59	381.37	First Intermediate Gyro Survey
6,284.00	6,124.02	-1,253.64	418.00	Last Intermediate Gyro Survey
6,490.00	6,326.88	-1,286.27	432.58	First Curve MWD Survey
7,499.00	6,968.68	-1,484.68	-171.42	Last Curve MWD Survey
7,593.00	6,971.33	-1,499.03	-264.28	First Lateral MWD Survey
17,860.00	6,927.38	-1,120.30	-10,519.52	Last Lateral MWD Survey
17,930.00	6,927.26	-1,118.58	-10,589.50	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

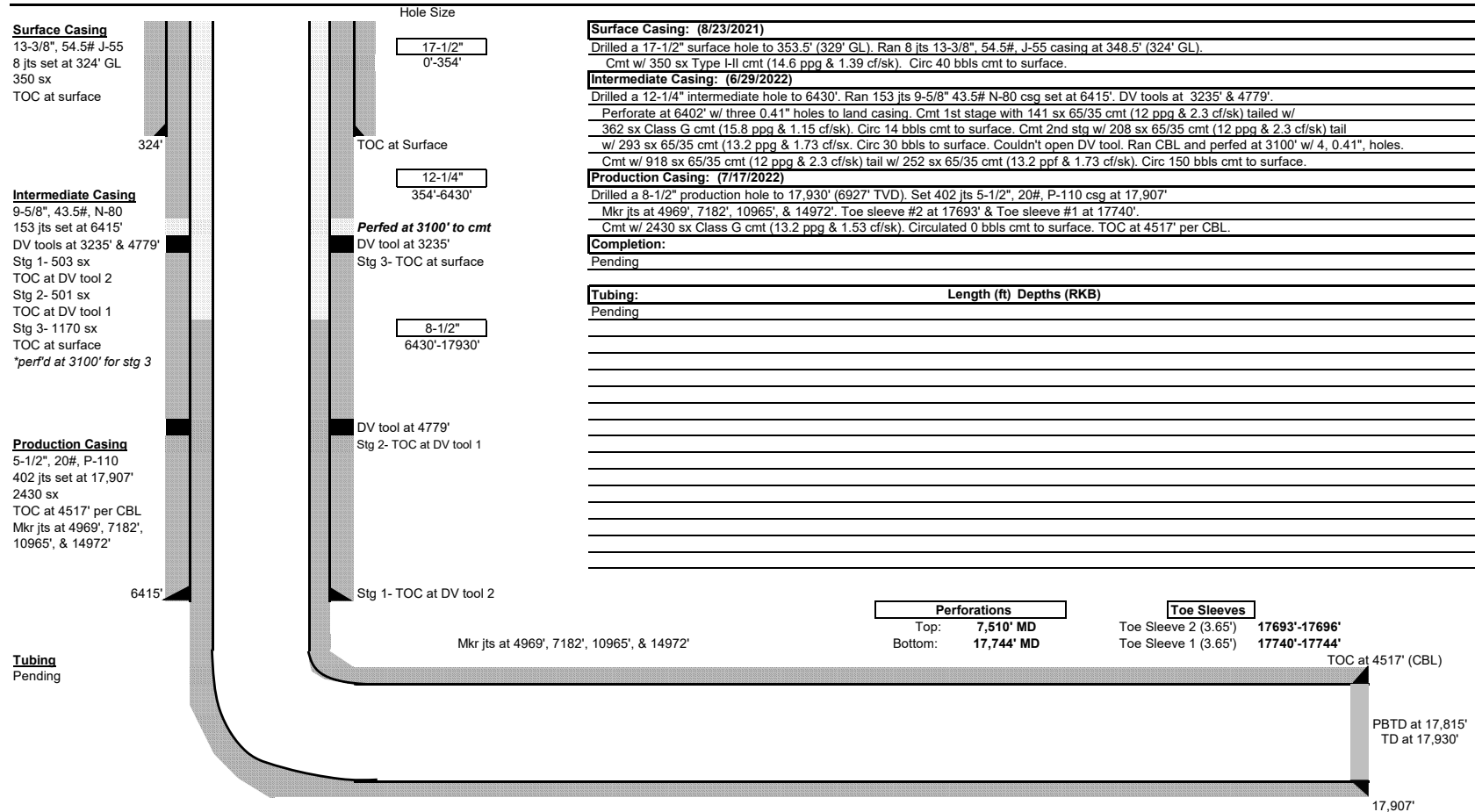


Well Name: Rosa Unit 665H
 Location: K - Sec 30, T31N, R05W, 2277' FSL, 967' FWL
 County: Rio Arriba
 API #: 30-039-31358
 Co-ordinates: 36.8696059, -107.4044791 NAD83
 Operator: LOGOS Operating, LLC

Wellbore Schematic

Ground Elevation: 6394'
 KB Elevation: 6418.5'
 TD (TVD): 6927'
 TD (MD): 17930'
 PBTD: 17815'

Prepared By: 7/28/2022 Gomez
 Reviewed By: 8/1/2022 Moss
 Last Updated: 9/12/2022 Moss
 Spud Date: 8/23/2021
 Completion Date:
 Last Workover 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 144474

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 144474
	Action Type: [C-104] Completion Packet (C-104C)

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.

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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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

COMMENTS

Action 144474

COMMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 144474
	Action Type: [C-104] Completion Packet (C-104C)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Approved, John Garcia, Petroleum Engineer	9/19/2022

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

CONDITIONS

Action 144474

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 144474
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	C-104RT expires 12/18/2022	9/19/2022