

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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 Gas Allowable Green Completion			
⁴ API Number 30 - 0 39-31384		⁵ Pool Name Basin Mancos			⁶ Pool Code 97232		
⁷ Property Code 320608		⁸ Property Name Rosa Unit			⁹ Well Number 654H		

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
A	25	31N	6W	1	1053	FNL	298	FEL	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	21	31N	5W		83	FSL	1193	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 G
373888	Harvest Four Corners, LLC 1755 Arroyo Dr. Bloomfield NM 87413	

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
5/2/2019	~5/28/2021	~18272 MD / ~7027 TVD	~18200 MD / ~7027 TVD	~7727' MD / ~18185' MD ~7012' TVD/ ~7027' TVD	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.4#, J-55	327'	320sx (67bbbls - 378cf)		
12-1/4"	~9-5/8", 43.5#, N-80	Not yet ~6500'	~1289sx (~474bbbls- ~2665cf)		
8-3/4"	~5 1/2", 20#, P-110	Not yet ~surface - ~18272'	~2999sx (~617bbbls~3462cf)		
	~2 7/8", 6.5#, J-55	Not yet			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
	~5/28/2021				
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>Marie E Florez</i>	OIL CONSERVATION DIVISION Approved by: <i>Amy Kummerow</i>
Printed name: Marie E. Florez	Title: Data Compliance Manager
Title: Regulatory Specialist	Approval Date: 5/27/21
E-mail Address: mflorez@logosresourcesllc.com	
Date: 5/26/2021	Phone: 505-419-8420

District I
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First Street, Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31384	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 320608	⁵ Property Name ROSA UNIT	⁶ Well Number 654H
⁷ GRID No. 289408	⁸ Operator Name LOGOS OPERATING, LLC	⁹ Elevation 6372'

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
A	25	31N	6W	1	1053	NORTH	298	EAST	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	21	31N	5W	83		SOUTH	1193	WEST	RIO ARriba

¹² Dedicated Acres 1464.85	N/2 - Section 25, T31N, R6W S/2 - Section 20, 21, T31N, R5W N/2 - Sections 29, 30, T31N, R5W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

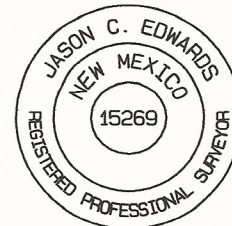
Signature
Marie E. Florez
Printed Name
mflorez@logosresourcesllc.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

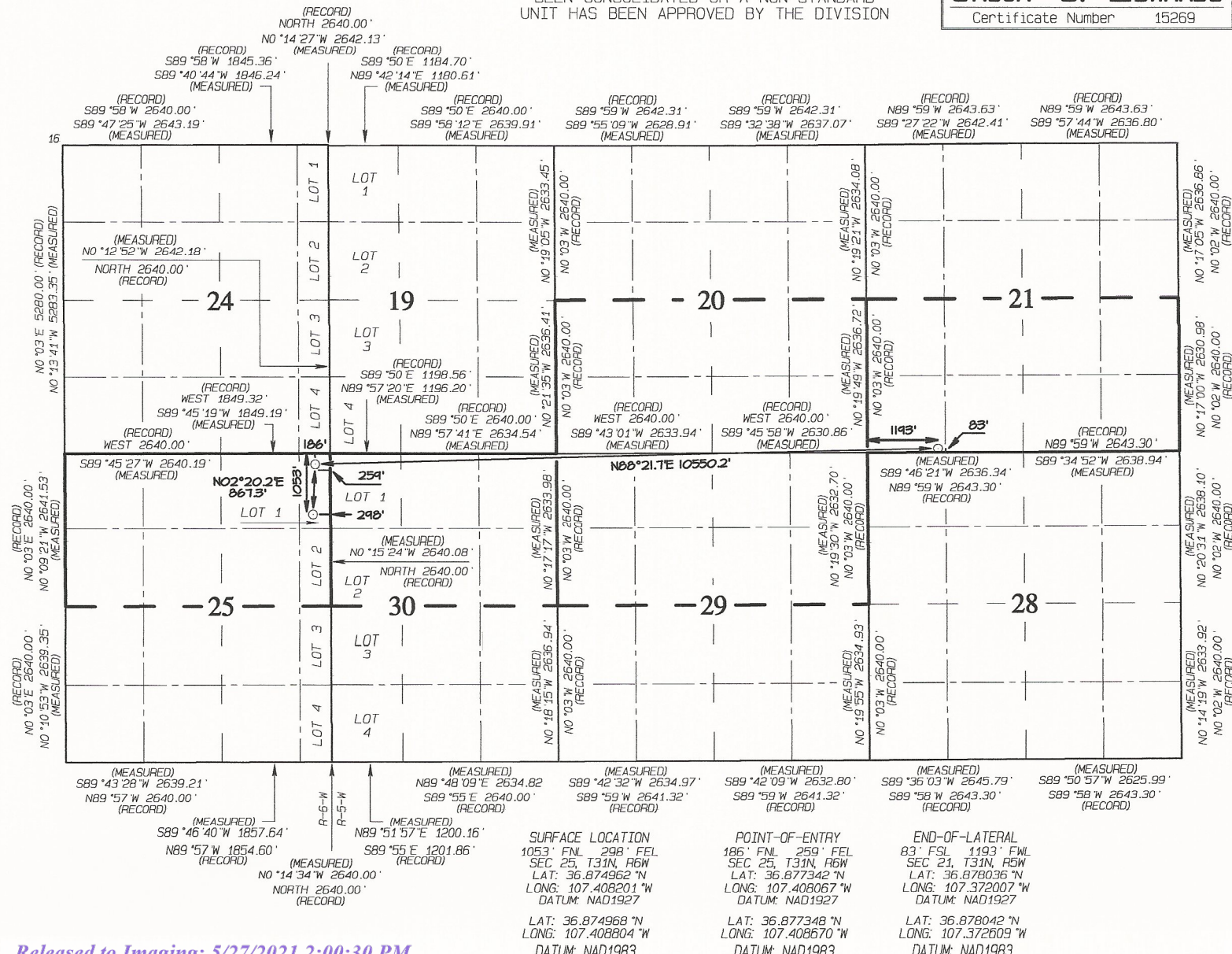
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MARCH 21, 2019
Date of Survey: MARCH 15, 2019

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269





Company: Logos Operating LLC
 Project: Rio Arriba, NM NAD83
 Site: Rosa Unit 29
 Well: Rosa Unit #654H
 Wellbore: OH
 Design: Plan #2

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



Azimuths to True N
 Magnetic North: 8

Magnetic F
 Strength: 49854
 Dip Angle: 63
 Date: 3/6/2
 Model: HC

WELL DETAILS: Rosa Unit #654H

GL 6372' & RKB 25' @ 6397.00ft
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 2138089.14 2847260.68 36.8749680 -107.4088040 A2 (654H)

Plan: Plan #2 (Rosa Unit #654H/OH)

Created By: Janie Collins Date: 10:45, January 13 2021

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rosa 654H POE	7012.00	999.99	42.67	2139089.31	2847298.91	36.8777147	-107.4086581
Rosa 654H BHL	7027.00	1121.28	10586.43	2139257.49	2857842.00	36.8780424	-107.3726086

SECTION DETAILS

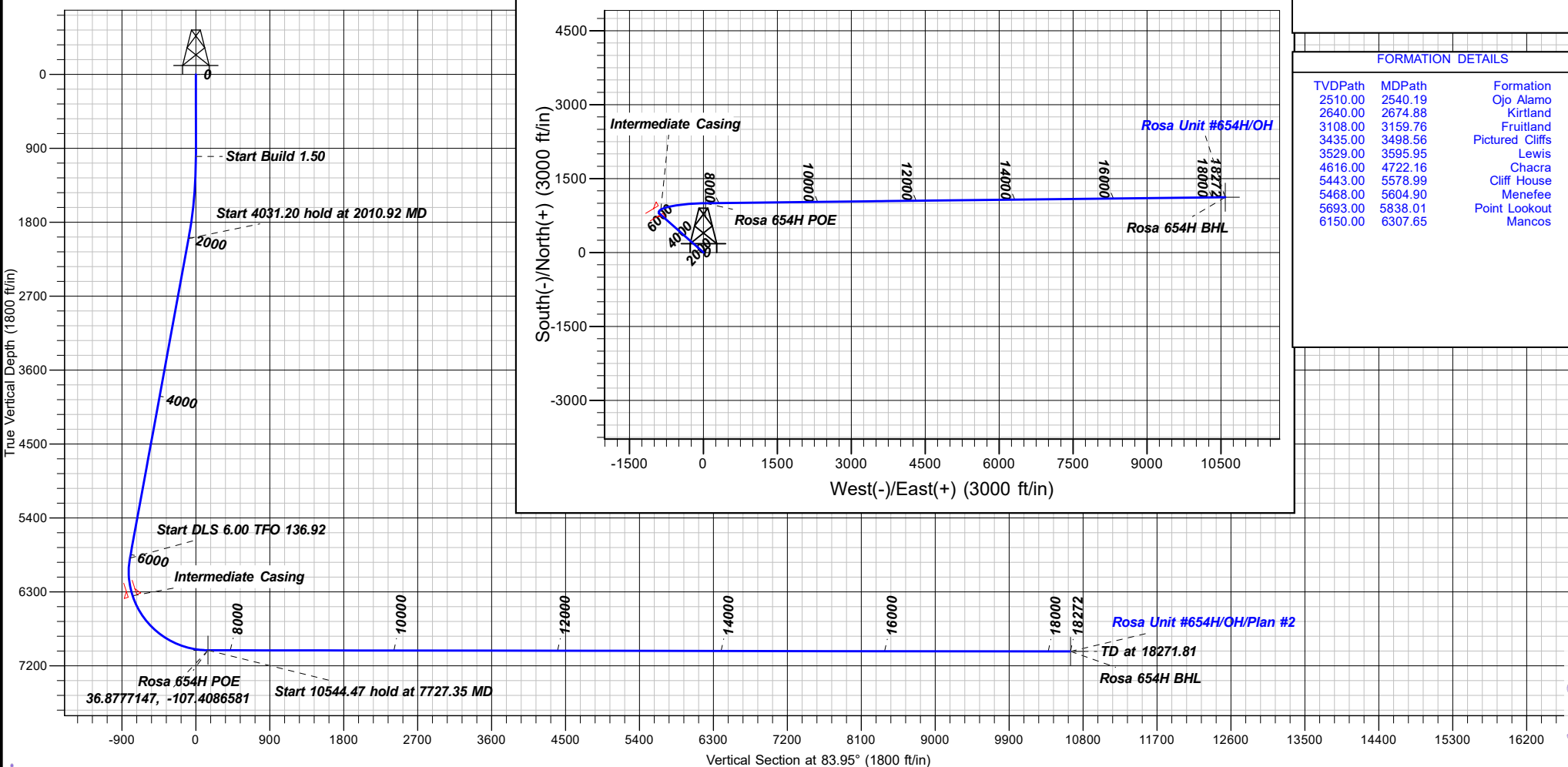
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
2010.92	15.16	311.43	1999.16	88.00	-99.72	1.50	311.43	-89.89	
6042.12	15.16	311.43	5890.00	785.73	-890.35	0.00	0.00	-802.64	
7727.35	89.92	89.34	7012.00	999.99	42.67	6.00	136.92	147.76	Rosa 654H POE
18271.81	89.92	89.34	7027.00	1121.28	10586.43	0.00	0.00	10645.65	Rosa 654H BHL

CASING DETAILS

TVD	MD	Nam
6350.00	6515.10	Intermediate Casir

FORMATION DETAILS

TVDPath	MDPath	Formation
2510.00	2540.19	Ojo Alamo
2640.00	2674.88	Kirtland
3108.00	3159.76	Fruitland
3435.00	3498.56	Pictured Cliffs
3529.00	3595.95	Lewis
4616.00	4722.16	Chacra
5443.00	5578.99	Cliff House
5468.00	5604.90	Menefee
5693.00	5838.01	Point Lookout
6150.00	6307.65	Mancos





Logos Operating LLC

Rio Arriba, NM NAD83

Rosa Unit 29

Rosa Unit #654H - Slot A2 (654H)

OH

Plan: Plan #2

Standard Planning Report

13 January, 2021





Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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 29			
Site Position:		Northing:	2,138,126.53 usft	Latitude: 36.8750715
From:	Map	Easting:	2,847,195.58 usft	Longitude: -107.4090261
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	

Well	Rosa Unit #654H - Slot A2 (654H)			
Well Position	+N/-S	0.00 ft	Northing:	2,138,089.14 usft
	+E/-W	0.00 ft	Easting:	2,847,260.69 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level: 6,372.00 ft
Grid Convergence:	0.25 °			

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/6/2019	8.88	63.43	49,854.20000000

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	83.95

Plan Survey Tool Program	Date	1/13/2021		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,271.81 Plan #2 (OH)	MWD+HDGM	
			OWSG MWD + HDGM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,010.92	15.16	311.43	1,999.16	88.00	-99.72	1.50	1.50	0.00	311.43	
6,042.12	15.16	311.43	5,890.00	785.73	-890.35	0.00	0.00	0.00	0.00	
7,727.35	89.92	89.34	7,012.00	999.99	42.67	6.00	4.44	8.18	136.92	Rosa 654H POE
18,271.81	89.92	89.34	7,027.00	1,121.28	10,586.43	0.00	0.00	0.00	0.00	Rosa 654H BHL



Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.50	311.43	1,099.99	0.87	-0.98	-0.88	1.50	1.50	0.00
1,200.00	3.00	311.43	1,199.91	3.46	-3.92	-3.54	1.50	1.50	0.00
1,300.00	4.50	311.43	1,299.69	7.79	-8.83	-7.96	1.50	1.50	0.00
1,400.00	6.00	311.43	1,399.27	13.85	-15.69	-14.14	1.50	1.50	0.00
1,500.00	7.50	311.43	1,498.57	21.62	-24.50	-22.09	1.50	1.50	0.00
1,600.00	9.00	311.43	1,597.54	31.12	-35.26	-31.79	1.50	1.50	0.00
1,700.00	10.50	311.43	1,696.09	42.32	-47.96	-43.23	1.50	1.50	0.00
1,800.00	12.00	311.43	1,794.16	55.23	-62.58	-56.42	1.50	1.50	0.00
1,900.00	13.50	311.43	1,891.70	69.83	-79.13	-71.34	1.50	1.50	0.00
2,000.00	15.00	311.43	1,988.62	86.12	-97.59	-87.97	1.50	1.50	0.00
2,010.92	15.16	311.43	1,999.16	88.00	-99.72	-89.89	1.50	1.50	0.00
2,100.00	15.16	311.43	2,085.14	103.42	-117.19	-105.64	0.00	0.00	0.00
2,200.00	15.16	311.43	2,181.66	120.73	-136.80	-123.33	0.00	0.00	0.00
2,300.00	15.16	311.43	2,278.17	138.03	-156.41	-141.01	0.00	0.00	0.00
2,400.00	15.16	311.43	2,374.69	155.34	-176.03	-158.69	0.00	0.00	0.00
2,500.00	15.16	311.43	2,471.21	172.65	-195.64	-176.37	0.00	0.00	0.00
2,600.00	15.16	311.43	2,567.73	189.96	-215.25	-194.05	0.00	0.00	0.00
2,700.00	15.16	311.43	2,664.25	207.27	-234.87	-211.73	0.00	0.00	0.00
2,800.00	15.16	311.43	2,760.77	224.58	-254.48	-229.41	0.00	0.00	0.00
2,900.00	15.16	311.43	2,857.28	241.88	-274.09	-247.09	0.00	0.00	0.00
3,000.00	15.16	311.43	2,953.80	259.19	-293.70	-264.77	0.00	0.00	0.00
3,100.00	15.16	311.43	3,050.32	276.50	-313.32	-282.45	0.00	0.00	0.00
3,200.00	15.16	311.43	3,146.84	293.81	-332.93	-300.13	0.00	0.00	0.00
3,300.00	15.16	311.43	3,243.36	311.12	-352.54	-317.81	0.00	0.00	0.00
3,400.00	15.16	311.43	3,339.87	328.42	-372.16	-335.49	0.00	0.00	0.00
3,500.00	15.16	311.43	3,436.39	345.73	-391.77	-353.17	0.00	0.00	0.00
3,600.00	15.16	311.43	3,532.91	363.04	-411.38	-370.85	0.00	0.00	0.00
3,700.00	15.16	311.43	3,629.43	380.35	-430.99	-388.54	0.00	0.00	0.00
3,800.00	15.16	311.43	3,725.95	397.66	-450.61	-406.22	0.00	0.00	0.00
3,900.00	15.16	311.43	3,822.47	414.97	-470.22	-423.90	0.00	0.00	0.00
4,000.00	15.16	311.43	3,918.98	432.27	-489.83	-441.58	0.00	0.00	0.00
4,100.00	15.16	311.43	4,015.50	449.58	-509.45	-459.26	0.00	0.00	0.00
4,200.00	15.16	311.43	4,112.02	466.89	-529.06	-476.94	0.00	0.00	0.00
4,300.00	15.16	311.43	4,208.54	484.20	-548.67	-494.62	0.00	0.00	0.00
4,400.00	15.16	311.43	4,305.06	501.51	-568.28	-512.30	0.00	0.00	0.00
4,500.00	15.16	311.43	4,401.58	518.81	-587.90	-529.98	0.00	0.00	0.00
4,600.00	15.16	311.43	4,498.09	536.12	-607.51	-547.66	0.00	0.00	0.00
4,700.00	15.16	311.43	4,594.61	553.43	-627.12	-565.34	0.00	0.00	0.00
4,800.00	15.16	311.43	4,691.13	570.74	-646.74	-583.02	0.00	0.00	0.00
4,900.00	15.16	311.43	4,787.65	588.05	-666.35	-600.70	0.00	0.00	0.00
5,000.00	15.16	311.43	4,884.17	605.36	-685.96	-618.38	0.00	0.00	0.00
5,100.00	15.16	311.43	4,980.68	622.66	-705.57	-636.07	0.00	0.00	0.00
5,200.00	15.16	311.43	5,077.20	639.97	-725.19	-653.75	0.00	0.00	0.00



Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
5,300.00	15.16	311.43	5,173.72	657.28	-744.80	-671.43	0.00	0.00	0.00
5,400.00	15.16	311.43	5,270.24	674.59	-764.41	-689.11	0.00	0.00	0.00
5,500.00	15.16	311.43	5,366.76	691.90	-784.03	-706.79	0.00	0.00	0.00
5,600.00	15.16	311.43	5,463.28	709.20	-803.64	-724.47	0.00	0.00	0.00
5,700.00	15.16	311.43	5,559.79	726.51	-823.25	-742.15	0.00	0.00	0.00
5,800.00	15.16	311.43	5,656.31	743.82	-842.86	-759.83	0.00	0.00	0.00
5,900.00	15.16	311.43	5,752.83	761.13	-862.48	-777.51	0.00	0.00	0.00
6,000.00	15.16	311.43	5,849.35	778.44	-882.09	-795.19	0.00	0.00	0.00
6,042.12	15.16	311.43	5,890.00	785.73	-890.35	-802.64	0.00	0.00	0.00
6,100.00	12.84	322.16	5,946.17	795.82	-899.98	-811.15	6.00	-4.01	18.53
6,200.00	10.43	349.80	6,044.18	813.52	-908.41	-817.67	6.00	-2.41	27.64
6,300.00	11.14	22.07	6,142.50	831.40	-906.38	-813.77	6.00	0.70	32.27
6,400.00	14.51	44.77	6,240.05	849.26	-893.92	-799.50	6.00	3.37	22.71
6,500.00	19.18	57.89	6,335.77	866.90	-871.16	-775.01	6.00	4.68	13.12
6,600.00	24.43	65.79	6,428.60	884.13	-838.36	-740.57	6.00	5.25	7.90
6,700.00	29.95	70.98	6,517.53	900.76	-795.86	-696.56	6.00	5.52	5.19
6,800.00	35.61	74.67	6,601.59	916.60	-744.14	-643.46	6.00	5.66	3.68
6,900.00	41.35	77.45	6,679.84	931.49	-683.77	-581.85	6.00	5.75	2.78
7,000.00	47.15	79.66	6,751.44	945.27	-615.40	-512.41	6.00	5.80	2.21
7,100.00	52.99	81.49	6,815.61	957.77	-539.78	-435.90	6.00	5.83	1.83
7,200.00	58.84	83.05	6,871.63	968.87	-457.75	-353.16	6.00	5.86	1.57
7,300.00	64.72	84.44	6,918.89	978.43	-370.20	-265.08	6.00	5.88	1.38
7,400.00	70.61	85.69	6,956.88	986.37	-278.08	-172.65	6.00	5.89	1.25
7,500.00	76.50	86.86	6,985.18	992.58	-182.42	-76.86	6.00	5.89	1.17
7,600.00	82.40	87.97	7,003.48	997.01	-84.26	21.23	6.00	5.90	1.11
7,700.00	88.30	89.05	7,011.58	999.60	15.34	120.54	6.00	5.90	1.08
7,727.35	89.92	89.34	7,012.00	999.99	42.67	147.76	6.00	5.90	1.07
7,800.00	89.92	89.34	7,012.10	1,000.82	115.32	220.10	0.00	0.00	0.00
7,900.00	89.92	89.34	7,012.25	1,001.97	215.32	319.65	0.00	0.00	0.00
8,000.00	89.92	89.34	7,012.39	1,003.12	315.31	419.21	0.00	0.00	0.00
8,100.00	89.92	89.34	7,012.53	1,004.27	415.30	518.77	0.00	0.00	0.00
8,200.00	89.92	89.34	7,012.67	1,005.42	515.30	618.33	0.00	0.00	0.00
8,300.00	89.92	89.34	7,012.81	1,006.57	615.29	717.89	0.00	0.00	0.00
8,400.00	89.92	89.34	7,012.96	1,007.72	715.28	817.45	0.00	0.00	0.00
8,500.00	89.92	89.34	7,013.10	1,008.88	815.28	917.00	0.00	0.00	0.00
8,600.00	89.92	89.34	7,013.24	1,010.03	915.27	1,016.56	0.00	0.00	0.00
8,700.00	89.92	89.34	7,013.38	1,011.18	1,015.26	1,116.12	0.00	0.00	0.00
8,800.00	89.92	89.34	7,013.53	1,012.33	1,115.26	1,215.68	0.00	0.00	0.00
8,900.00	89.92	89.34	7,013.67	1,013.48	1,215.25	1,315.24	0.00	0.00	0.00
9,000.00	89.92	89.34	7,013.81	1,014.63	1,315.24	1,414.80	0.00	0.00	0.00
9,100.00	89.92	89.34	7,013.95	1,015.78	1,415.24	1,514.35	0.00	0.00	0.00
9,200.00	89.92	89.34	7,014.10	1,016.93	1,515.23	1,613.91	0.00	0.00	0.00
9,300.00	89.92	89.34	7,014.24	1,018.08	1,615.22	1,713.47	0.00	0.00	0.00
9,400.00	89.92	89.34	7,014.38	1,019.23	1,715.22	1,813.03	0.00	0.00	0.00
9,500.00	89.92	89.34	7,014.52	1,020.38	1,815.21	1,912.59	0.00	0.00	0.00
9,600.00	89.92	89.34	7,014.66	1,021.53	1,915.20	2,012.14	0.00	0.00	0.00
9,700.00	89.92	89.34	7,014.81	1,022.68	2,015.20	2,111.70	0.00	0.00	0.00
9,800.00	89.92	89.34	7,014.95	1,023.83	2,115.19	2,211.26	0.00	0.00	0.00
9,900.00	89.92	89.34	7,015.09	1,024.98	2,215.18	2,310.82	0.00	0.00	0.00
10,000.00	89.92	89.34	7,015.23	1,026.13	2,315.18	2,410.38	0.00	0.00	0.00
10,100.00	89.92	89.34	7,015.38	1,027.28	2,415.17	2,509.94	0.00	0.00	0.00
10,200.00	89.92	89.34	7,015.52	1,028.43	2,515.16	2,609.49	0.00	0.00	0.00
10,300.00	89.92	89.34	7,015.66	1,029.58	2,615.16	2,709.05	0.00	0.00	0.00
10,400.00	89.92	89.34	7,015.80	1,030.73	2,715.15	2,808.61	0.00	0.00	0.00



Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
10,500.00	89.92	89.34	7,015.94	1,031.88	2,815.14	2,908.17	0.00	0.00	0.00
10,600.00	89.92	89.34	7,016.09	1,033.03	2,915.14	3,007.73	0.00	0.00	0.00
10,700.00	89.92	89.34	7,016.23	1,034.18	3,015.13	3,107.29	0.00	0.00	0.00
10,800.00	89.92	89.34	7,016.37	1,035.33	3,115.12	3,206.84	0.00	0.00	0.00
10,900.00	89.92	89.34	7,016.51	1,036.48	3,215.12	3,306.40	0.00	0.00	0.00
11,000.00	89.92	89.34	7,016.66	1,037.63	3,315.11	3,405.96	0.00	0.00	0.00
11,100.00	89.92	89.34	7,016.80	1,038.78	3,415.10	3,505.52	0.00	0.00	0.00
11,200.00	89.92	89.34	7,016.94	1,039.93	3,515.10	3,605.08	0.00	0.00	0.00
11,300.00	89.92	89.34	7,017.08	1,041.08	3,615.09	3,704.63	0.00	0.00	0.00
11,400.00	89.92	89.34	7,017.22	1,042.24	3,715.08	3,804.19	0.00	0.00	0.00
11,500.00	89.92	89.34	7,017.37	1,043.39	3,815.07	3,903.75	0.00	0.00	0.00
11,600.00	89.92	89.34	7,017.51	1,044.54	3,915.07	4,003.31	0.00	0.00	0.00
11,700.00	89.92	89.34	7,017.65	1,045.69	4,015.06	4,102.87	0.00	0.00	0.00
11,800.00	89.92	89.34	7,017.79	1,046.84	4,115.05	4,202.43	0.00	0.00	0.00
11,900.00	89.92	89.34	7,017.94	1,047.99	4,215.05	4,301.98	0.00	0.00	0.00
12,000.00	89.92	89.34	7,018.08	1,049.14	4,315.04	4,401.54	0.00	0.00	0.00
12,100.00	89.92	89.34	7,018.22	1,050.29	4,415.03	4,501.10	0.00	0.00	0.00
12,200.00	89.92	89.34	7,018.36	1,051.44	4,515.03	4,600.66	0.00	0.00	0.00
12,300.00	89.92	89.34	7,018.50	1,052.59	4,615.02	4,700.22	0.00	0.00	0.00
12,400.00	89.92	89.34	7,018.65	1,053.74	4,715.01	4,799.78	0.00	0.00	0.00
12,500.00	89.92	89.34	7,018.79	1,054.89	4,815.01	4,899.33	0.00	0.00	0.00
12,600.00	89.92	89.34	7,018.93	1,056.04	4,915.00	4,998.89	0.00	0.00	0.00
12,700.00	89.92	89.34	7,019.07	1,057.19	5,014.99	5,098.45	0.00	0.00	0.00
12,800.00	89.92	89.34	7,019.22	1,058.34	5,114.99	5,198.01	0.00	0.00	0.00
12,900.00	89.92	89.34	7,019.36	1,059.49	5,214.98	5,297.57	0.00	0.00	0.00
13,000.00	89.92	89.34	7,019.50	1,060.64	5,314.97	5,397.12	0.00	0.00	0.00
13,100.00	89.92	89.34	7,019.64	1,061.79	5,414.97	5,496.68	0.00	0.00	0.00
13,200.00	89.92	89.34	7,019.79	1,062.94	5,514.96	5,596.24	0.00	0.00	0.00
13,300.00	89.92	89.34	7,019.93	1,064.09	5,614.95	5,695.80	0.00	0.00	0.00
13,400.00	89.92	89.34	7,020.07	1,065.24	5,714.95	5,795.36	0.00	0.00	0.00
13,500.00	89.92	89.34	7,020.21	1,066.39	5,814.94	5,894.92	0.00	0.00	0.00
13,600.00	89.92	89.34	7,020.35	1,067.54	5,914.93	5,994.47	0.00	0.00	0.00
13,700.00	89.92	89.34	7,020.50	1,068.69	6,014.93	6,094.03	0.00	0.00	0.00
13,800.00	89.92	89.34	7,020.64	1,069.84	6,114.92	6,193.59	0.00	0.00	0.00
13,900.00	89.92	89.34	7,020.78	1,070.99	6,214.91	6,293.15	0.00	0.00	0.00
14,000.00	89.92	89.34	7,020.92	1,072.14	6,314.91	6,392.71	0.00	0.00	0.00
14,100.00	89.92	89.34	7,021.07	1,073.29	6,414.90	6,492.27	0.00	0.00	0.00
14,200.00	89.92	89.34	7,021.21	1,074.44	6,514.89	6,591.82	0.00	0.00	0.00
14,300.00	89.92	89.34	7,021.35	1,075.60	6,614.89	6,691.38	0.00	0.00	0.00
14,400.00	89.92	89.34	7,021.49	1,076.75	6,714.88	6,790.94	0.00	0.00	0.00
14,500.00	89.92	89.34	7,021.63	1,077.90	6,814.87	6,890.50	0.00	0.00	0.00
14,600.00	89.92	89.34	7,021.78	1,079.05	6,914.87	6,990.06	0.00	0.00	0.00
14,700.00	89.92	89.34	7,021.92	1,080.20	7,014.86	7,089.62	0.00	0.00	0.00
14,800.00	89.92	89.34	7,022.06	1,081.35	7,114.85	7,189.17	0.00	0.00	0.00
14,900.00	89.92	89.34	7,022.20	1,082.50	7,214.85	7,288.73	0.00	0.00	0.00
15,000.00	89.92	89.34	7,022.35	1,083.65	7,314.84	7,388.29	0.00	0.00	0.00
15,100.00	89.92	89.34	7,022.49	1,084.80	7,414.83	7,487.85	0.00	0.00	0.00
15,200.00	89.92	89.34	7,022.63	1,085.95	7,514.83	7,587.41	0.00	0.00	0.00
15,300.00	89.92	89.34	7,022.77	1,087.10	7,614.82	7,686.96	0.00	0.00	0.00
15,400.00	89.92	89.34	7,022.91	1,088.25	7,714.81	7,786.52	0.00	0.00	0.00
15,500.00	89.92	89.34	7,023.06	1,089.40	7,814.81	7,886.08	0.00	0.00	0.00
15,600.00	89.92	89.34	7,023.20	1,090.55	7,914.80	7,985.64	0.00	0.00	0.00
15,700.00	89.92	89.34	7,023.34	1,091.70	8,014.79	8,085.20	0.00	0.00	0.00
15,800.00	89.92	89.34	7,023.48	1,092.85	8,114.79	8,184.76	0.00	0.00	0.00



Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)	
15,900.00	89.92	89.34	7,023.63	1,094.00	8,214.78	8,284.31	0.00	0.00	0.00	
16,000.00	89.92	89.34	7,023.77	1,095.15	8,314.77	8,383.87	0.00	0.00	0.00	
16,100.00	89.92	89.34	7,023.91	1,096.30	8,414.77	8,483.43	0.00	0.00	0.00	
16,200.00	89.92	89.34	7,024.05	1,097.45	8,514.76	8,582.99	0.00	0.00	0.00	
16,300.00	89.92	89.34	7,024.20	1,098.60	8,614.75	8,682.55	0.00	0.00	0.00	
16,400.00	89.92	89.34	7,024.34	1,099.75	8,714.75	8,782.11	0.00	0.00	0.00	
16,500.00	89.92	89.34	7,024.48	1,100.90	8,814.74	8,881.66	0.00	0.00	0.00	
16,600.00	89.92	89.34	7,024.62	1,102.05	8,914.73	8,981.22	0.00	0.00	0.00	
16,700.00	89.92	89.34	7,024.76	1,103.20	9,014.73	9,080.78	0.00	0.00	0.00	
16,800.00	89.92	89.34	7,024.91	1,104.35	9,114.72	9,180.34	0.00	0.00	0.00	
16,900.00	89.92	89.34	7,025.05	1,105.50	9,214.71	9,279.90	0.00	0.00	0.00	
17,000.00	89.92	89.34	7,025.19	1,106.65	9,314.71	9,379.45	0.00	0.00	0.00	
17,100.00	89.92	89.34	7,025.33	1,107.80	9,414.70	9,479.01	0.00	0.00	0.00	
17,200.00	89.92	89.34	7,025.48	1,108.96	9,514.69	9,578.57	0.00	0.00	0.00	
17,300.00	89.92	89.34	7,025.62	1,110.11	9,614.69	9,678.13	0.00	0.00	0.00	
17,400.00	89.92	89.34	7,025.76	1,111.26	9,714.68	9,777.69	0.00	0.00	0.00	
17,500.00	89.92	89.34	7,025.90	1,112.41	9,814.67	9,877.25	0.00	0.00	0.00	
17,600.00	89.92	89.34	7,026.04	1,113.56	9,914.67	9,976.80	0.00	0.00	0.00	
17,700.00	89.92	89.34	7,026.19	1,114.71	10,014.66	10,076.36	0.00	0.00	0.00	
17,800.00	89.92	89.34	7,026.33	1,115.86	10,114.65	10,175.92	0.00	0.00	0.00	
17,900.00	89.92	89.34	7,026.47	1,117.01	10,214.65	10,275.48	0.00	0.00	0.00	
18,000.00	89.92	89.34	7,026.61	1,118.16	10,314.64	10,375.04	0.00	0.00	0.00	
18,100.00	89.92	89.34	7,026.76	1,119.31	10,414.63	10,474.60	0.00	0.00	0.00	
18,200.00	89.92	89.34	7,026.90	1,120.46	10,514.62	10,574.15	0.00	0.00	0.00	
18,271.81	89.92	89.34	7,027.00	1,121.28	10,586.43	10,645.65	0.00	0.00	0.00	

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Rosa 654H POE - plan hits target center - Point	0.00	0.00	7,012.00	999.99	42.67	2,139,089.30	2,847,298.92	36.8777147	-107.4086581
Rosa 654H BHL - plan hits target center - Point	0.00	0.00	7,027.00	1,121.28	10,586.43	2,139,257.48	2,857,842.01	36.8780423	-107.3726086

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
6,515.10	6,350.00	Intermediate Casing	7.000	8.750	



Lonestar Consulting

Planning Report



Database:	EDM _16.0	Local Co-ordinate Reference:	Well Rosa Unit #654H - Slot A2 (654H)
Company:	Logos Operating LLC	TVD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Project:	Rio Arriba, NM NAD83	MD Reference:	GL 6372' & RKB 25' @ 6397.00ft
Site:	Rosa Unit 29	North Reference:	True
Well:	Rosa Unit #654H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,540.19	2,510.00	Ojo Alamo		0.00	0.00	
2,674.88	2,640.00	Kirtland		0.00	0.00	
3,159.76	3,108.00	Fruitland		0.00	0.00	
3,498.56	3,435.00	Pictured Cliffs		0.00	0.00	
3,595.95	3,529.00	Lewis		0.00	0.00	
4,722.16	4,616.00	Chacra		0.00	0.00	
5,578.99	5,443.00	Cliff House		0.00	0.00	
5,604.90	5,468.00	Menefee		0.00	0.00	
5,838.01	5,693.00	Point Lookout		0.00	0.00	
6,307.65	6,150.00	Mancos		0.00	0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	Start Build 1.50	
2,010.92	1,999.16	88.00	-99.72	Start 4031.20 hold at 2010.92 MD	
6,042.12	5,890.00	785.73	-890.35	Start DLS 6.00 TFO 136.92	
7,727.35	7,012.00	999.99	42.67	Start 10544.47 hold at 7727.35 MD	
7,727.35	7,012.00	999.99	42.68	POE @ 7727' MD / 7012' TVD	
7,727.35	7,012.00	999.99	42.68	36.8777147, -107.4086581	
18,271.81	7,027.00	1,121.28	10,586.43	TD at 18271.81	

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 29613

ACKNOWLEDGMENTS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 29613
	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
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29613

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 29613
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ahvermersch	File Casing sundry's as soon as they are available; File as drilled C-102 and updated directional survey with NW completion packet.	5/27/2021