Form 3160-5 (June 2019)

# UNITED STATES DEPARTMENT OF THE INTERIOR DUDE ALL OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

	Expires: October
Loogo Sorial Ma	

BUREAU OF LAND MANAGEMEN	T	5. Lease Seriai No.	MSF078764
SUNDRY NOTICES AND REPORTS ON	WELLS	6. If Indian, Allottee of	
Do not use this form for proposals to drill or abandoned well. Use Form 3160-3 (APD) for s		,	
SUBMIT IN TRIPLICATE - Other instructions on p.	age 2	7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well			IMNM78407E
Oil Well X Gas Well Other		8. Well Name and No.	ROSA UNIT 645H
2. Name of Operator LOGOS OPERATING LLC			0-039-31322
3a. Address       2010 AFTON PLACE       3b. Phone N         FARMINGTON, NM 87401       (505) 27	o. (include area code) 78-8720	10. Field and Pool or I	Exploratory Area BASIN MANCOS
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 19 T31N R05W NENW (C) 960 FNL 497 FWL		11. Country or Parish,	State RIO ARRIBA COUNTY, NM
12. CHECK THE APPROPRIATE BOX(ES) TO I	NDICATE NATURE OF NOT	TICE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION	TYPE OF AC	CTION	
X Notice of Intent Alter Casing Hy	draulic Fracturing Rec	duction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	=	complete	Other
	· =	nporarily Abandon ter Disposal	
the proposal is to deepen directionally or recomplete horizontally, give subsuthe Bond under which the work will be performed or provide the Bond No. of completion of the involved operations. If the operation results in a multiple of completed. Final Abandonment Notices must be filed only after all requirements ready for final inspection.)  LOGOS Operating is requesting a change for API number 30-039 location of 960 FNL 497 FWL and change in plans.  Attached: New C102, Operation and Directional Drill plans.  Original surface-hole location from 953' FNL & 468' FWL to new surginal bottom-hole location from 73' FNL & 1930' FWL to new surginal TD @ 18,121' MD 6920' TVD to new TD @ 17,598' MD 6965' Geology tops have been updated per changes.  Original KOP @ 6336' MD 6236' TVD to new KOP @ 6406' MD 6348 Original Landing point @ 7560' MD 7035' TVD to new Landing point Original 12.25" OH size, 9.625" Surface casing @ 320' to new 17.5'  Original 8.75" OH size, 7" Intermediate casing @ 6336' MD to new Original 6.125" OH size, 4.5" Production liner @ 18,121' MD to new New 9.625" Intermediate & 5.5" Production cementing, grade as the production cementing.	on file with BLM/BIA. Require completion or recompletion in a ents, including reclamation, have 2-31322 Rosa Unit 645Y to outface-hole location 960' oftom-hole location 52' FI TVD.  'TVD int @ 7398' MD 6970' TVD 'OH size, 13.375" casing @ 12.25" OH size, 9.625" can we see the size, 5.5" casing	d subsequent reports mu a new interval, a Form 31 we been completed and the new 30-039-31415 Ro FNL & 497' FWL NL & 2320' FWL  320' MD sing @ 6268' MD 621' @ 17,598' MD 6965' T	ast be filed within 30 days following 160-4 must befiled once testing has been the operator has determined that the site osa Unit 645H as the new surface 1' TVD
14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )  Etta Trujillo	Regulatory Spec	ialist	
- Lua Tujino	Title Regulatory Spec		
Signature (Ha Trujillo	Date 02/11/2022		
THE SPACE FOR FE	DERAL OR STATE O	FICE USE	
Approved by			
	Title	I	Date
Conditions of approval, if any, are attached. Approval of this notice does not warr certify that the applicant holds legal or equitable title to those rights in the subject which would entitle the applicant to conduct operations thereon.		'	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any false, fictitious or fraudulent statements or representations as to any matter with the control of th		llfully to make to any de	partment or agency of the United States

(Instructions on page 2)

District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 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

State of New Mexico Energy, Minerals & Natural Resources Department

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

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

AMENDED REPORT

"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. Eta Trigillo 12/21/2021

17 OPERATOR CERTIFICATION

Signature Etta Trujillo

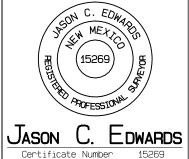
etrujillo@logosresourcesllc.com E-mail Address

Printed Name

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 und my supervision, and that the same is true and correct to the best of my belief.

Date Revised: DECEMBER 17, 202 Survey Date: JANUARY 2, 2015 2021

Signature and Seal of Professional Surveyor



WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Numbe	r	<sup>2</sup> Pool Code	³Pool Name					
30-039-31415		97232	BASIN MANCOS	BASIN MANCOS				
⁴Property Code	<u>'</u>	*Pr	operty Name	⁴Well Number				
320608		RC	OSA UNIT	645H				
70GRID No.		* Op	erator Name	°Elevation				
289408		LOGOS (	PERATING, LLC	6305 '				

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
l c	19	31N	5W	1	960	NORTH	497	WEST	HIU
									ARRIBA

<sup>11</sup> 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
	С	21	31N	5W		52	NORTH 2320		WEST	RIO ARRIBA
Ī	12 Dedicated						<sup>13</sup> Joint or Infill	<sup>4</sup> Consolidation Code	<sup>15</sup> Order No.	
	Acres 872.01	N/2 -	Section	s 19, 2	20, 21,	Γ31N, R5W			R-13457	

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

SURFACE LOCATION 960' FNL 497' FWL SECTION 19, T31N, R5W LAT: 36.889688 N LONG: 107.405476 W DATUM: NAD1927

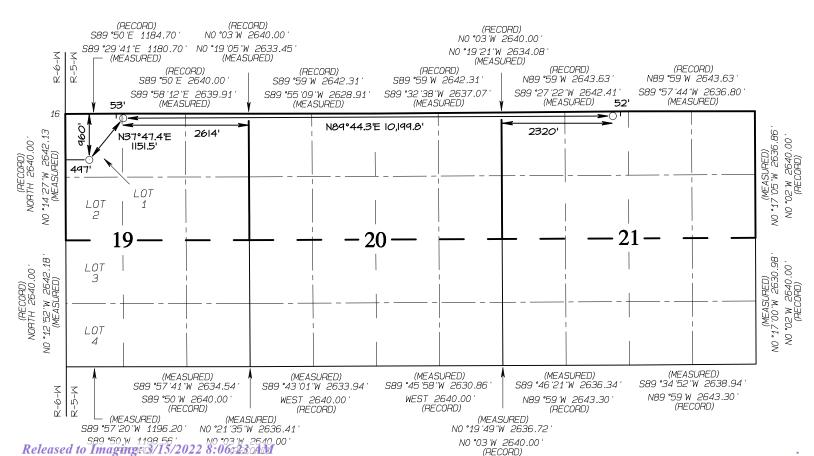
LAT: 36.889694 °N LONG: 107.406079 °W DATUM: NAD 1983

FIRST TAKE POINT 53 FNL 2614 FEL SECTION 19, T31N, R5W LAT: 36.892179 N LONG: 107.403049 W DATUM: NAD1927

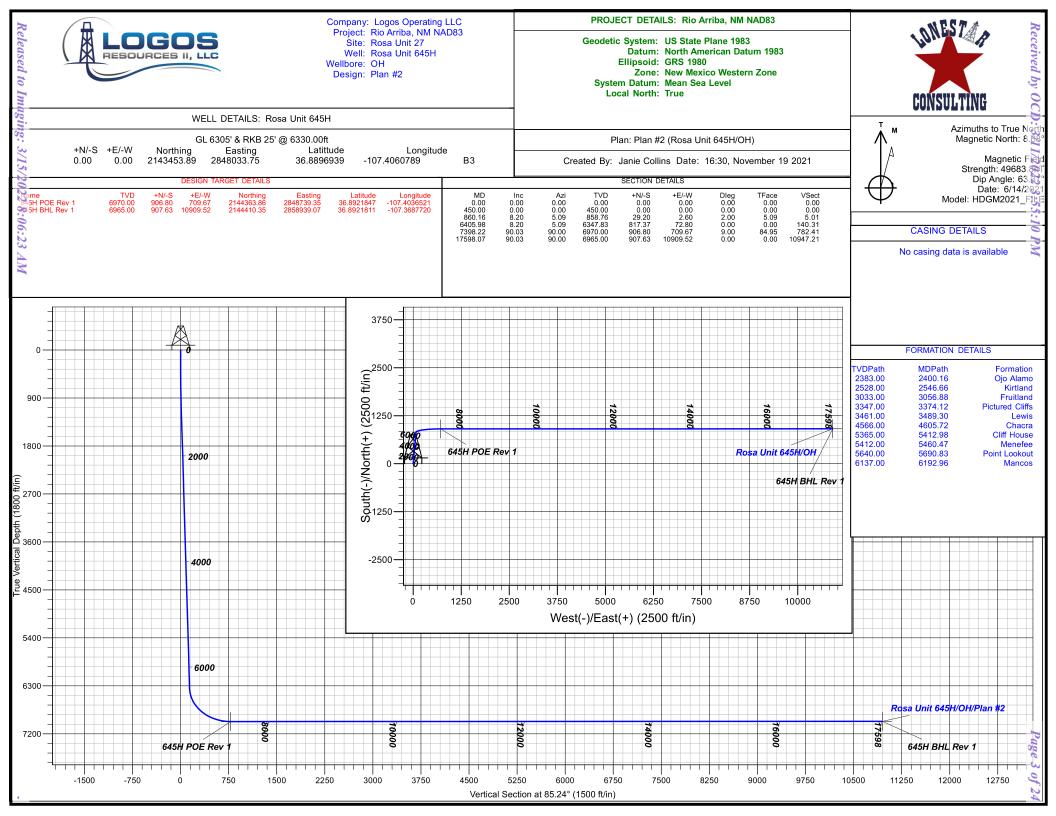
LAT: 36.892185°N LONG: 107.403652°W DATUM: NAD1983

LAST TAKE POINT 52' FNL 2320' FWL SECTION 21, T31N, R5W LAT: 36.892175 N LONG: 107.368170 W DATUM: NAD1927

LAT: 36.892181°N LONG: 107.368772°W DATUM: NAD1983



(RECORD)





# **Logos Operating LLC**

Rio Arriba, NM NAD83 Rosa Unit 27 Rosa Unit 645H - Slot B3

OH

Plan: Plan #2

# **Standard Planning Report**

19 November, 2021





#### Planning Report



Grand Junction Database: Logos Operating LLC Company:

Rio Arriba, NM NAD83 Project: Rosa Unit 27 Site:

Well: Rosa Unit 645H ОН Wellbore: Plan #2 Design:

**Local Co-ordinate Reference** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

Minimum Curvature

Rio Arriba, NM NAD83 Project

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: New Mexico Western Zone

System Datum:

Mean Sea Level

Rosa Unit 27 Site

Map Zone:

Northing: 2,143,451.58 usft 36.8896880 Site Position: Latitude: Lat/Long 2,848,002.44 usft -107.4061860 From: Easting: Longitude: **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.26°

Well Rosa Unit 645H - Slot B3

2.17 ft **Well Position** +N/-S 31.32 ft +E/-W

2,143,453.89 usft Northing: Easting: 2,848,033.75 usft

Longitude:

Latitude:

36.8896939 -107.4060790

0.00 ft 6,305.00 ft Wellhead Elevation: **Ground Level: Position Uncertainty** 

ОН Wellbore

Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (nT) HDGM2021 FILE 6/14/2021 8.68 63.37 49,683.80000000

Plan #2 Design

**Audit Notes:** 

**PLAN** 0.00 Version: Phase: Tie On Depth:

**Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 85.24

11/19/2021 **Plan Survey Tool Program** Date

**Depth From** Depth To

Survey (Wellbore) **Tool Name** Remarks (ft) (ft)

0.00 17,598.07 MWD+HDGM Plan #2 (OH)

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	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
860.16	8.20	5.09	858.76	29.20	2.60	2.00	2.00	0.00	5.09	
6,405.98	8.20	5.09	6,347.83	817.37	72.80	0.00	0.00	0.00	0.00	
7,398.22	90.03	90.00	6,970.00	906.80	709.67	9.00	8.25	8.56	84.95	645H POE Rev 1
17,598.07	90.03	90.00	6,965.00	907.63	10,909.52	0.00	0.00	0.00	0.00	345H BHL Rev 1



# Planning Report



LOGOS RESOURCES II, LLC

Database: Grand Junction
Company: Logos Operating LLC
Project: Rio Arriba, NM NAD83

Site: Rosa Unit 27
Well: Rosa Unit 645H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

anned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/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
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	1.00	5.09	500.00	0.43	0.04	0.07	2.00	2.00	0.00
600.00	3.00	5.09	599.93	3.91	0.35	0.67	2.00	2.00	0.00
700.00	5.00	5.09	699.68	10.86	0.97	1.86	2.00	2.00	0.00
800.00	7.00	5.09	799.13	21.27	1.89	3.65	2.00	2.00	0.00
000.00	7.00	3.09	733.13		1.03	3.03	2.00	2.00	0.00
860.16	8.20	5.09	858.76	29.20	2.60	5.01	2.00	2.00	0.00
900.00	8.20	5.09	898.19	34.86	3.10	5.98	0.00	0.00	0.00
1,000.00	8.20	5.09	997.17	49.07	4.37	8.42	0.00	0.00	0.00
1,100.00	8.20	5.09	1,096.15	63.28	5.64	10.86	0.00	0.00	0.00
1,200.00	8.20	5.09	1,195.12	77.49	6.90	13.30	0.00	0.00	0.00
			1 204 40						
1,300.00	8.20	5.09	1,294.10	91.71	8.17	15.74	0.00	0.00	0.00
1,400.00	8.20	5.09	1,393.08	105.92	9.43	18.18	0.00	0.00	0.00
1,500.00	8.20	5.09	1,492.05	120.13	10.70	20.62	0.00	0.00	0.00
1,600.00	8.20	5.09	1,591.03	134.34	11.96	23.06	0.00	0.00	0.00
1,700.00	8.20	5.09	1,690.01	148.55	13.23	25.50	0.00	0.00	0.00
1,800.00	8.20	5.09	1,788.98	162.77	14.50	27.94	0.00	0.00	0.00
1,900.00	8.20	5.09	1,887.96	176.98	15.76	30.38	0.00	0.00	0.00
			,					0.00	0.00
2,000.00	8.20	5.09	1,986.94	191.19	17.03	32.82	0.00		
2,100.00	8.20	5.09	2,085.91	205.40	18.29	35.26	0.00	0.00	0.00
2,200.00	8.20	5.09	2,184.89	219.62	19.56	37.70	0.00	0.00	0.00
2,300.00	8.20	5.09	2,283.87	233.83	20.82	40.14	0.00	0.00	0.00
2,400.00	8.20	5.09	2,382.85	248.04	22.09	42.58	0.00	0.00	0.00
2,500.00	8.20	5.09	2,481.82	262.25	23.36	45.02	0.00	0.00	0.00
2,600.00	8.20	5.09	2,580.80	276.46	24.62	47.46	0.00	0.00	0.00
2,700.00	8.20	5.09	2,679.78	290.68	25.89	49.90	0.00	0.00	0.00
2,800.00	8.20	5.09	2,778.75	304.89	27.15	52.34	0.00	0.00	0.00
2,900.00	8.20	5.09	2,877.73	319.10	28.42	54.78	0.00	0.00	0.00
3,000.00	8.20	5.09	2,976.71	333.31	29.68	57.22	0.00	0.00	0.00
3,100.00	8.20	5.09	3,075.68	347.52	30.95	59.66	0.00	0.00	0.00
3,200.00	8.20	5.09	3,174.66	361.74	32.22	62.10	0.00	0.00	0.00
3,300.00	8.20	5.09	3,273.64	375.95	33.48	64.54	0.00	0.00	0.00
3,400.00	8.20	5.09	3,372.61	390.16	34.75	66.98	0.00	0.00	0.00
3,500.00	8.20	5.09	3,471.59	404.37	36.01	69.42	0.00	0.00	0.00
3,600.00	8.20	5.09	3,570.57	418.58	37.28	71.86	0.00	0.00	0.00
3,700.00	8.20	5.09	3,669.54	432.80	38.55	74.30	0.00	0.00	0.00
3,800.00	8.20	5.09	3,768.52	447.01	39.81	76.74	0.00	0.00	0.00
3,900.00	8.20	5.09	3,867.50	461.22	41.08	79.17	0.00	0.00	0.00
4,000.00	8.20	5.09	3,966.47	475.43	42.34	81.61	0.00	0.00	0.00
4,100.00	8.20	5.09	4,065.45	489.64	43.61	84.05	0.00	0.00	0.00
4,200.00	8.20	5.09	4,164.43	503.86	44.87	86.49	0.00	0.00	0.00
4,300.00	8.20	5.09	4,263.41	518.07	46.14	88.93	0.00	0.00	0.00
4,400.00	8.20	5.09	4,362.38	532.28	47.41	91.37	0.00	0.00	0.00
4,500.00	8.20	5.09	4,461.36	546.49	48.67	93.81	0.00	0.00	0.00
4,600.00	8.20	5.09	4,560.34	560.70	49.94	96.25	0.00	0.00	0.00
4,700.00	8.20	5.09	4,659.31	574.92	51.20	98.69	0.00	0.00	0.00
4,800.00	8.20	5.09	4,758.29	589.13	52.47	101.13	0.00	0.00	0.00
4,900.00	8.20	5.09	4,857.27	603.34	53.73	103.57	0.00	0.00	0.00
5,000.00	8.20	5.09	4,956.24	617.55	55.00	106.01	0.00	0.00	0.00





**Planning Report** 



Database: Grand Junction
Company: Logos Operating LLC
Project: Rio Arriba, NM NAD83

Site: Rosa Unit 27
Well: Rosa Unit 645H

Wellbore: OH

Design: Plan #2

Local Co-ordinate Reference

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

Measured   Depth   Inclination   Azimuth   Depth   (t)   Color   Col	Design:	Plan #2								
Measured   Depth   Inclination   Azimuth   Depth   House   Color   C	Planned Survey									
	r iaimoa Garroy									
	Measured			Vertical			Vertical	Dogleg	Build	Turn
(ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section			
5,100.00         8,20         5.09         5,055.22         631.77         56,27         108.45         0.00         0.00         0.00           5,200.00         8,20         5.09         5,154.517         660.19         5.880         113.33         0.00         0.00         0.00           5,400.00         8,20         5.09         5,352.15         674.40         600.06         115.77         0.00         0.00         0.00           5,500.00         8,20         5.09         5,555.10         707.283         62.59         120.65         0.00         0.00         0.00           5,700.00         8,20         5.09         5,545.10         707.283         62.59         120.65         0.00         0.00         0.00         0.00           5,700.00         8,20         5.09         5,547.03         731.25         66.13         125.53         0.00 <t< th=""><th></th><th>(°)</th><th>(°)</th><th>-</th><th>(ft)</th><th>(ft)</th><th></th><th></th><th></th><th></th></t<>		(°)	(°)	-	(ft)	(ft)				
5,200.00         8,20         5.09         5,154,20         46,98         57,53         110,89         0.00         0.00         0.00           5,300.00         8,20         5.09         5,552,15         674,40         60,68         113,73         0.00         0.00         0.00           5,500.00         8,20         5.09         5,550,10         70,283         62,59         120,65         0.00								0.00	0.00	0.00
5,300,00         8,20         5,09         5,253,17         660,19         58,80         113,33         0,00         0,00         0,00           5,400,00         8,20         5,09         5,461,13         688,61         61,33         118,21         0,00         0,00         0,00           5,600,00         8,20         5,09         5,461,13         688,61         61,33         118,21         0,00         0,00         0,00           5,700,00         8,20         5,09         5,449,08         717,04         63,86         123,09         0,00         0,00         0,00           5,800,00         8,20         5,09         5,549,00         717,04         63,86         123,09         0,00         0,00         0,00           6,000,00         8,20         5,09         5,548,00         73,125         66,13         125,53         0,00         0,00         0,00           6,000,00         8,20         5,09         5,548,01         75,967         67,66         130,41         0,00         0,00         0,00           6,200,00         8,20         5,09         6,444,99         778,810         70,19         135,29         0,00         0,00         0,00           6,405,										
5,400.00 8,20 5.09 5,352.15 674.40 60.06 115.77 0.00 0.00 0.00 5,500.00 8.20 5.09 5,550.10 702.83 116.21 0.00 0.00 0.00 0.00 5,600.00 8.20 5.09 5,550.10 702.83 62.59 120.65 0.00 0.00 0.00 0.00 5,700.00 8.20 5.09 5,748.06 731.25 65.13 125.53 0.00 0.00 0.00 0.00 5,900.00 8.20 5.09 5,748.06 731.25 65.13 125.53 0.00 0.00 0.00 0.00 6,000.00 8.20 5.09 5,847.03 745.46 66.39 127.97 0.00 0.00 0.00 0.00 6,000.00 8.20 5.09 5,847.03 745.46 66.39 127.97 0.00 0.00 0.00 0.00 6,100.00 8.20 5.09 5,847.03 745.46 66.39 127.97 0.00 0.00 0.00 0.00 6,100.00 8.20 5.09 6,044.99 773.89 68.92 132.85 0.00 0.00 0.00 0.00 6,200.00 8.20 5.09 6,143.97 786.10 70.19 135.29 0.00 0.00 0.00 0.00 6,200.00 8.20 5.09 6,43.97 786.10 70.19 135.29 0.00 0.00 0.00 0.00 6,400.00 8.20 5.09 6,341.92 816.52 72.72 140.17 0.00 0.00 0.00 0.00 6.400.00 8.20 5.09 6,341.92 816.52 72.72 140.17 0.00 0.00 0.00 0.00 6.400.00 8.20 5.09 6,341.92 816.52 72.72 140.17 0.00 0.00 0.00 0.00 6.500.00 12.27 48.89 6,440.47 830.67 80.91 149.50 9.00 4.33 46.37 6,600.00 12.27 48.89 6,440.47 830.67 80.91 149.50 9.00 4.33 46.37 6,600.00 12.27 48.89 6,440.47 830.67 80.91 149.50 9.00 4.33 46.37 6,600.00 12.27 88.60 6.536.55 844.47 104.55 174.20 9.00 7.61 17.91 6.600.00 45.76 81.95 67.88.90 880.44 20.68 832.78 9.00 8.42 7.93 6.800.00 45.76 81.95 67.88.90 880.44 220.88 87.03 42.20 8.89 4.47 8.89 6.700.00 45.76 81.95 67.88.90 880.44 220.88.91 9.00 8.87 1.75 7.700.00 65.46 81.85 86.800.00 6.98.95 9.00 6.71 92.88 66.7 195.56 266.99 9.00 8.89 1.49 9.00 8.87 1.75 7.700.00 65.46 81.81 81.85 6.788.90 880.44 220.88 81.40 80.00 8.90 8.79 2.26 7.700.00 65.46 81.81 81.45 880.40 9.00 8.89 1.49 9.00 8.87 1.75 7.700.00 90.03 90.00 6.989.95 906.81 143.08 83.84 9.00 8.90 8.91 1.29 7.700.00 90.03 90.00 6.989.95 906.81 1811.45 883.84 0.00 0.00 0.00 0.00 7.700.00 90.03 90.00 6.989.95 906.81 1811.45 883.84 0.00 0.00 0.00 0.00 7.700.00 90.03 90.00 6.989.85 906.81 1.114.5 1.880.40 0.00 0.00 0.00 8.800.00 90.03 90.00 6.989.85 906.81 1.111.45 1.880.40 0.00 0.00 0.00 0.00 8.800.00 90.03 90.00 6.989.85 906.81 1.1										
5,500,00         8,20         5.09         5,550,10         702,83         62,59         118,21         0.00         0.00         0.00           5,600,00         8,20         5.09         5,5640,08         717,04         63,86         123,09         0.00         0.00         0.00           5,800,00         8,20         5.09         5,840,08         717,04         63,86         123,09         0.00         0.00         0.00           5,900,00         8,20         5.09         5,846,01         758,67         66,39         127,97         0.00         0.00         0.00           6,000,00         8,20         5.09         5,946,01         758,67         67,66         130,41         0.00         0.00         0.00           6,000,00         8,20         5.09         6,449,99         77,88         68,92         132,85         9,00         0.00         0.00         0.00           6,300,00         8,20         5.09         6,449,97         73,89         86,92         132,85         9,00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00										
5,600.00         8,20         5.09         5,550.10         702.83         62.59         120.65         0.00         0.00         0.00           5,700.00         8,20         5.09         5,748.06         731.25         65.13         125.53         0.00         0.00         0.00           5,900.00         8,20         5.09         5,748.06         731.25         66.13         125.53         0.00         0.00         0.00           6,000.00         8,20         5.09         5,946.01         759.67         67.66         130.41         0.00         0.00         0.00           6,200.00         8,20         5.09         6,044.99         773.89         68.92         132.85         0.00         0.00         0.00           6,300.00         8,20         5.09         6,242.94         802.21         171.45         137.73         0.00         0.00         0.00           6,400.00         8,20         5.09         6,341.92         816.52         72.72         140.17         0.00         0.00         0.00           6,500.00         12,27         48.89         6,440.47         830.67         80.91         149.50         9.00         4.33         46.37           6,5										
5,700.00         8.20         5,09         5,649.08         717.04         63.86         123.09         0.00         0.00         0.00           5,800.00         8.20         5.09         5,748.06         731.25         65.13         125.79         0.00 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
5,900.00         8,20         5,09         5,847.03         745.46         66.39         127.97         0.00         0.00         0.00           6,000.00         8,20         5,09         6,044.99         773.89         68.92         132.85         0.00         0.00         0.00           6,200.00         8,20         5,09         6,143.97         788.10         70.19         135.29         0.00         0.00         0.00           6,300.00         8,20         5,09         6,242.94         802.31         714.5         137.73         0.00         0.00         0.00           6,400.00         8,20         5,09         6,241.92         816.52         72.72         140.17         0.00         0.00         0.00           6,400.00         8,20         5,09         6,341.92         816.52         72.72         140.17         0.00         0.00         0.00           6,500.00         12,27         48.69         6,440.47         830.67         89.91         149.50         9.00         4.33         46.37           6,700.00         28.30         74.53         6,627.78         857.58         143.08         213.69         9.00         8.42         7.93           6										
5,900.00         8,20         5,09         5,847.03         745.46         66.39         127.97         0.00         0.00         0.00           6,000.00         8,20         5,09         6,044.99         773.89         68.92         132.85         0.00         0.00         0.00           6,200.00         8,20         5,09         6,143.97         788.10         70.19         135.29         0.00         0.00         0.00           6,300.00         8,20         5,09         6,242.94         802.31         714.5         137.73         0.00         0.00         0.00           6,400.00         8,20         5,09         6,241.92         816.52         72.72         140.17         0.00         0.00         0.00           6,400.00         8,20         5,09         6,341.92         816.52         72.72         140.17         0.00         0.00         0.00           6,500.00         12,27         48.69         6,440.47         830.67         89.91         149.50         9.00         4.33         46.37           6,700.00         28.30         74.53         6,627.78         857.58         143.08         213.69         9.00         8.42         7.93           6	5 800 00	8 20	5.09	5 748 06	731 25	65 13	125 53	0.00	0.00	0.00
6,000.00 8.20 5.09 5,946.01 759.67 67.66 130.41 0.00 0.00 0.00 0.00 6100.00 8.20 5.09 6,143.97 778.89 68.92 132.85 0.00 0.00 0.00 0.00 6200.00 8.20 5.09 6,143.97 788.10 70.19 135.29 0.00 0.00 0.00 0.00 6400.00 8.20 5.09 6,343.92 181.52 72.72 140.17 0.00 0.00 0.00 0.00 6400.00 8.20 5.09 6,343.92 816.52 72.72 140.17 0.00 0.00 0.00 0.00 6405.88 8.20 5.09 6,347.83 817.37 72.80 140.31 0.00 0.00 0.00 0.00 6,500.00 12.27 48.69 6,440.47 830.67 80.91 149.50 9.00 4.33 46.37 6,600.00 19.88 66.60 6,536.55 844.47 104.55 174.20 9.00 7.61 17.91 6,700.00 3.83 74.53 6,627.78 857.58 143.08 213.69 9.00 8.42 7.93 6,800.00 36.98 70.00 6,719.2 860.67 195.56 266.99 9.00 8.68 4.47 6,900.00 45.76 81.95 6,766.90 880.44 260.68 332.78 9.00 8.79 2.96 7,000.00 54.61 84.14 6,850.87 889.64 338.86 409.46 9.00 8.87 1.75 7.200.00 72.38 87.38 6,962.56 997.03 40.22 495.12 9.00 8.87 1.75 7.200.00 72.38 87.38 6,962.56 905.72 611.83 684.82 9.00 8.89 1.49 7.300.00 81.28 87.73 6,962.56 905.72 611.83 684.82 9.00 8.90 1.35 7.398.22 90.03 90.00 6,970.00 906.80 709.67 75.24 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.90 906.80 711.45 784.18 0.00 0.00 0.00 0.00 7.600.00 90.03 90.00 6,969.90 906.80 711.45 1.83 84.82 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.90 906.80 711.45 1.83 84.82 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.90 906.80 711.45 1.83 684.82 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.90 906.80 711.45 1.83 684.82 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.90 906.80 711.45 1.83 684.82 9.00 8.91 1.29 7.400.00 90.03 90.00 6,969.95 906.81 111.45 1.83.14 0.00 0.00 0.00 0.00 7.900.00 90.03 90.00 6,969.95 906.81 111.45 1.82.81 0.00 0.00 0.00 0.00 7.900.00 90.03 90.00 6,969.95 906.81 111.45 1.83.49 0.00 0.00 0.00 0.00 0.00 8.000 90.03 90.00 6,969.95 906.81 111.45 1.880.40 0.00 0.00 0.00 0.00 8.000 90.03 90.00 6,969.95 906.81 1.11.45 1.14.91 1.14.91 1.14.91 1.14.90 0.00 0.00 0.00 8.000 90.03 90.00 6,969.95 906.81 1.11.45 1.14.91 1.14.90 0.00 0.00 0.00 0.00 8.000 90.03 90.00 6,969.95 906.81 1.11.45 1.14.91 1.14.90 0.00 0.00 0.00 0.00 8.000 90.03 90.00 6,969.95										
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6,800.00         36,98         79.00         6,711.92         889.67         195.56         266.99         9.00         8.68         4.47           6,900.00         45,76         81.95         6,786.90         880.44         260.68         332.78         9.00         8.79         2.96           7,000.00         54.61         84.14         6,850.87         889.64         336.86         409.46         9.00         8.84         2.18           7,100.00         63.48         85.88         6,902.26         897.03         422.20         495.12         9.00         8.87         1.75           7,200.00         72.38         87.38         6,939.80         902.44         514.62         587.67         9.00         8.89         1.49           7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,398.22         90.03         90.00         6,970.00         906.80         719.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,969.95         906.81         811.45         784.18         0.00         0.00         0.00				6,536.55						
6,800.00         36,98         79.00         6,711.92         889.67         195.56         266.99         9.00         8.68         4.47           6,900.00         45,76         81.95         6,786.90         880.44         260.68         332.78         9.00         8.79         2.96           7,000.00         54.61         84.14         6,850.87         889.64         336.86         409.46         9.00         8.84         2.18           7,100.00         63.48         85.88         6,902.26         897.03         422.20         495.12         9.00         8.87         1.75           7,200.00         72.38         87.38         6,939.80         902.44         514.62         587.67         9.00         8.89         1.49           7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,398.22         90.03         90.00         6,970.00         906.80         719.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,969.95         906.81         811.45         784.18         0.00         0.00         0.00	6,700.00	28.30	74.53	6,627.78	857.58	143.08	213.69	9.00	8.42	7.93
7,000.00         54.61         84.14         6,850.87         889.64         336.86         409.46         9.00         8.84         2.18           7,100.00         63.48         85.88         6,902.26         897.03         422.20         495.12         9.00         8.87         1.75           7,200.00         72.38         87.38         6,939.80         90.244         514.62         587.67         9.00         8.90         1.35           7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,398.22         90.03         90.00         6,970.00         906.80         709.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,969.95         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00										
7,100.00         63.48         85.88         6,902.26         897.03         422.20         495.12         9.00         8.87         1.75           7,200.00         72.38         87.38         6,939.80         902.44         514.62         587.67         9.00         8.89         1.49           7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,382.22         90.03         90.00         6,970.00         906.80         709.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,970.00         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.85         906.82         911.45         983.49         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.85         906.84         1,211.45         1,382.81         0.00         0.00         0.00	6,900.00	45.76	81.95	6,786.90	880.44	260.68	332.78	9.00	8.79	2.96
7,200.00         72.38         87.38         6,939.80         902.44         514.62         587.67         9.00         8.89         1.49           7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,398.22         90.03         90.00         6,970.00         906.80         709.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,970.00         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.95         906.82         911.45         983.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.85         906.84         1,211.45         1,282.46         0.00         0.00         0.00 </th <th>7,000.00</th> <th>54.61</th> <th>84.14</th> <th>6,850.87</th> <th>889.64</th> <th>336.86</th> <th>409.46</th> <th>9.00</th> <th>8.84</th> <th>2.18</th>	7,000.00	54.61	84.14	6,850.87	889.64	336.86	409.46	9.00	8.84	2.18
7,300.00         81.28         88.73         6,962.56         905.72         611.83         684.82         9.00         8.90         1.35           7,398.22         90.03         90.00         6,970.00         906.80         709.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,970.00         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.85         906.82         911.45         983.49         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.85         906.84         1,111.45         1,828.81         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.75         906.85         1,311.45         1,382.12         0.00         0.00         0.00	7,100.00	63.48	85.88	6,902.26	897.03	422.20	495.12	9.00	8.87	1.75
7,398.22         90.03         90.00         6,970.00         906.80         709.67         782.41         9.00         8.91         1.29           7,400.00         90.03         90.00         6,970.00         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.90         906.82         911.45         983.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.85         906.84         1,111.45         1,182.81         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.65         906.85         1,311.45         1,382.12         0.00         0.00         0.00 <th>7,200.00</th> <th>72.38</th> <th>87.38</th> <th>6,939.80</th> <th>902.44</th> <th>514.62</th> <th>587.67</th> <th>9.00</th> <th>8.89</th> <th>1.49</th>	7,200.00	72.38	87.38	6,939.80	902.44	514.62	587.67	9.00	8.89	1.49
7,400.00         90.03         90.00         6,970.00         906.80         711.45         784.18         0.00         0.00         0.00           7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.95         906.82         911.45         983.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.75         906.84         1,111.45         1,182.81         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.70         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00	7,300.00	81.28	88.73	6,962.56	905.72	611.83	684.82	9.00	8.90	1.35
7,500.00         90.03         90.00         6,969.95         906.81         811.45         883.84         0.00         0.00         0.00           7,600.00         90.03         90.00         6,969.90         906.82         911.45         983.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.80         906.84         1,111.45         1,182.81         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.70         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,100.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.65         906.88         1,611.45         1,581.43         0.00         0.00	7,398.22				906.80	709.67		9.00	8.91	1.29
7,600.00         90.03         90.00         6,969.90         906.82         911.45         983.49         0.00         0.00         0.00           7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.80         906.84         1,111.45         1,182.81         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.65         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,100.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,300.00         90.03         90.00         6,969.55         906.88         1,611.45         1,681.49         0.00         0.00										
7,700.00         90.03         90.00         6,969.85         906.83         1,011.45         1,083.15         0.00         0.00         0.00           7,800.00         90.03         90.00         6,969.80         906.84         1,111.45         1,182.81         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.70         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,100.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.60         906.87         1,511.45         1,581.43         0.00         0.00         0.00           8,300.00         90.03         90.00         6,969.55         906.88         1,611.45         1,681.09         0.00         0.00         0.00           8,600.00         90.03         90.00         6,969.50         906.88         1,711.45         1,780.74         0.00         0.00	7,500.00	90.03	90.00	6,969.95	906.81	811.45	883.84	0.00	0.00	0.00
7,800.00         90.03         90.00         6,969.80         906.84         1,111.45         1,182.81         0.00         0.00         0.00           7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.70         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,100.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.60         906.87         1,511.45         1,581.43         0.00         0.00         0.00           8,300.00         90.03         90.00         6,969.55         906.88         1,611.45         1,681.09         0.00         0.00         0.00           8,400.00         90.03         90.00         6,969.50         906.88         1,711.45         1,780.74         0.00         0.00         0.00           8,500.00         90.03         90.00         6,969.45         906.89         1,811.45         1,880.40         0.00         0.00										
7,900.00         90.03         90.00         6,969.75         906.84         1,211.45         1,282.46         0.00         0.00         0.00           8,000.00         90.03         90.00         6,969.70         906.85         1,311.45         1,382.12         0.00         0.00         0.00           8,100.00         90.03         90.00         6,969.65         906.86         1,411.45         1,481.78         0.00         0.00         0.00           8,200.00         90.03         90.00         6,969.60         906.87         1,511.45         1,581.43         0.00         0.00         0.00           8,300.00         90.03         90.00         6,969.55         906.88         1,611.45         1,681.09         0.00         0.00         0.00           8,400.00         90.03         90.00         6,969.50         906.88         1,711.45         1,780.74         0.00         0.00         0.00           8,500.00         90.03         90.00         6,969.45         906.89         1,811.45         1,880.40         0.00         0.00         0.00           8,700.00         90.03         90.00         6,969.40         906.90         1,911.45         1,980.06         0.00         0.00										
8,000.00       90.03       90.00       6,969.70       906.85       1,311.45       1,382.12       0.00       0.00       0.00         8,100.00       90.03       90.00       6,969.65       906.86       1,411.45       1,481.78       0.00       0.00       0.00         8,200.00       90.03       90.00       6,969.60       906.87       1,511.45       1,581.43       0.00       0.00       0.00         8,300.00       90.03       90.00       6,969.55       906.88       1,611.45       1,681.09       0.00       0.00       0.00         8,400.00       90.03       90.00       6,969.50       906.88       1,711.45       1,780.74       0.00       0.00       0.00         8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.35       906.93										
8,100.00       90.03       90.00       6,969.65       906.86       1,411.45       1,481.78       0.00       0.00       0.00         8,200.00       90.03       90.00       6,969.60       906.87       1,511.45       1,581.43       0.00       0.00       0.00         8,300.00       90.03       90.00       6,969.55       906.88       1,611.45       1,681.09       0.00       0.00       0.00         8,400.00       90.03       90.00       6,969.50       906.88       1,711.45       1,780.74       0.00       0.00       0.00         8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93										
8,200.00       90.03       90.00       6,969.60       906.87       1,511.45       1,581.43       0.00       0.00       0.00         8,300.00       90.03       90.00       6,969.55       906.88       1,611.45       1,681.09       0.00       0.00       0.00         8,400.00       90.03       90.00       6,969.50       906.88       1,711.45       1,780.74       0.00       0.00       0.00         8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93						1,311.45				
8,300.00       90.03       90.00       6,969.55       906.88       1,611.45       1,681.09       0.00       0.00       0.00         8,400.00       90.03       90.00       6,969.50       906.88       1,711.45       1,780.74       0.00       0.00       0.00         8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94										
8,400.00       90.03       90.00       6,969.50       906.88       1,711.45       1,780.74       0.00       0.00       0.00         8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94       2,411.45       2,478.34       0.00       0.00       0.00										
8,500.00       90.03       90.00       6,969.45       906.89       1,811.45       1,880.40       0.00       0.00       0.00         8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94       2,411.45       2,478.34       0.00       0.00       0.00										
8,600.00       90.03       90.00       6,969.40       906.90       1,911.45       1,980.06       0.00       0.00       0.00         8,700.00       90.03       90.00       6,969.35       906.91       2,011.45       2,079.71       0.00       0.00       0.00         8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94       2,411.45       2,478.34       0.00       0.00       0.00										
8,700.00     90.03     90.00     6,969.35     906.91     2,011.45     2,079.71     0.00     0.00     0.00       8,800.00     90.03     90.00     6,969.30     906.92     2,111.45     2,179.37     0.00     0.00     0.00       8,900.00     90.03     90.00     6,969.25     906.93     2,211.45     2,279.03     0.00     0.00     0.00       9,000.00     90.03     90.00     6,969.20     906.93     2,311.45     2,378.68     0.00     0.00     0.00       9,100.00     90.03     90.00     6,969.15     906.94     2,411.45     2,478.34     0.00     0.00     0.00										
8,800.00       90.03       90.00       6,969.30       906.92       2,111.45       2,179.37       0.00       0.00       0.00         8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94       2,411.45       2,478.34       0.00       0.00       0.00	1			,		,	,			
8,900.00       90.03       90.00       6,969.25       906.93       2,211.45       2,279.03       0.00       0.00       0.00         9,000.00       90.03       90.00       6,969.20       906.93       2,311.45       2,378.68       0.00       0.00       0.00         9,100.00       90.03       90.00       6,969.15       906.94       2,411.45       2,478.34       0.00       0.00       0.00										
9,000.00 90.03 90.00 6,969.20 906.93 2,311.45 2,378.68 0.00 0.00 0.00 9,100.00 90.03 90.00 6,969.15 906.94 2,411.45 2,478.34 0.00 0.00 0.00										
9,100.00 90.03 90.00 6,969.15 906.94 2,411.45 2,478.34 0.00 0.00 0.00										
9,300.00 90.03 90.00 6,969.05 906.96 2,611.45 2,677.65 0.00 0.00 0.00										
9,400.00 90.03 90.00 6,969.00 906.97 2,711.45 2,777.31 0.00 0.00 0.00										
9,500.00 90.03 90.00 6,968.95 906.97 2,811.45 2,876.96 0.00 0.00 0.00							,			
9,600.00 90.03 90.00 6,968.90 906.98 2,911.45 2,976.62 0.00 0.00 0.00	9 600 00	90 03	90.00	6.968 90	906 98	2.911 45	2.976 62	0.00	0.00	0.00
9,700.00 90.03 90.00 6,968.85 906.99 3,011.45 3,076.28 0.00 0.00 0.00										
9,800.00 90.03 90.00 6,968.80 907.00 3,111.45 3,175.93 0.00 0.00 0.00										
9,900.00 90.03 90.00 6,968.76 907.01 3,211.45 3,275.59 0.00 0.00 0.00										
10,000.00 90.03 90.00 6,968.71 907.01 3,311.45 3,375.25 0.00 0.00 0.00	10,000.00	90.03	90.00	6,968.71	907.01	3,311.45		0.00	0.00	0.00
10,100.00 90.03 90.00 6,968.66 907.02 3,411.45 3,474.90 0.00 0.00 0.00	10,100.00	90.03	90.00	6,968.66	907.02	3,411.45	3,474.90	0.00	0.00	0.00



**Planning Report** 



Database: Grand Junction
Company: Logos Operating LLC
Project: Rio Arriba, NM NAD83

Site: Rosa Unit 27
Well: Rosa Unit 645H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

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)
10,200.00	90.03	90.00	6,968.61	907.03	3,511.45	3,574.56	0.00	0.00	0.00
10,300.00	90.03	90.00	6,968.56	907.04	3,611.45	3,674.22	0.00	0.00	0.00
10,400.00	90.03	90.00	6,968.51	907.05	3,711.45	3,773.87	0.00	0.00	0.00
10,500.00	90.03	90.00	6,968.46	907.06	3,811.45	3,873.53	0.00	0.00	0.00
10,600.00	90.03	90.00	6,968.41	907.06	3,911.45	3,973.18	0.00	0.00	0.00
10,700.00	90.03	90.00	6,968.36	907.07	4,011.45	4,072.84	0.00	0.00	0.00
10,800.00	90.03	90.00	6,968.31	907.08	4,111.45	4,172.50	0.00	0.00	0.00
10,900.00	90.03	90.00	6,968.26	907.09	4,211.45	4,272.15	0.00	0.00	0.00
11,000.00	90.03	90.00	6,968.21	907.10	4,311.45	4,371.81	0.00	0.00	0.00
11,100.00	90.03	90.00	6,968.16	907.10	4,411.45	4,471.47	0.00	0.00	0.00
11,200.00	90.03	90.00	6,968.11	907.11	4,511.45	4,571.12	0.00	0.00	0.00
11,300.00	90.03	90.00	6,968.06	907.12	4,611.45	4,670.78	0.00	0.00	0.00
11,400.00	90.03	90.00	6,968.01	907.13	4,711.45	4,770.44	0.00	0.00	0.00
11,500.00	90.03	90.00	6,967.96	907.14	4,811.45	4,870.09	0.00	0.00	0.00
11,600.00	90.03	90.00	6,967.91	907.14	4,911.45	4,969.75	0.00	0.00	0.00
11,700.00	90.03	90.00	6,967.86	907.15	5,011.45	5,069.40	0.00	0.00	0.00
11,800.00	90.03	90.00	6,967.81	907.16	5,111.45	5,169.06	0.00	0.00	0.00
11,900.00	90.03	90.00	6,967.76	907.17	5,211.45	5,268.72	0.00	0.00	0.00
12,000.00	90.03	90.00	6,967.71	907.18	5,311.45	5,368.37	0.00	0.00	0.00
12,100.00	90.03	90.00	6,967.66	907.18	5,411.45	5,468.03	0.00	0.00	0.00
12,200.00	90.03	90.00	6,967.61	907.19	5,511.45	5,567.69	0.00	0.00	0.00
12,300.00	90.03	90.00	6,967.56	907.20	5,611.45	5,667.34	0.00	0.00	0.00
12,400.00	90.03	90.00	6,967.51	907.21	5,711.45	5,767.00	0.00	0.00	0.00
12,500.00	90.03	90.00	6,967.46	907.22	5,811.45	5,866.66	0.00	0.00	0.00
12,600.00	90.03	90.00	6,967.41	907.23	5,911.45	5,966.31	0.00	0.00	0.00
12,700.00	90.03	90.00	6,967.36	907.23	6,011.45	6,065.97	0.00	0.00	0.00
12,800.00	90.03	90.00	6,967.31	907.24	6,111.45	6,165.62	0.00	0.00	0.00
12,900.00	90.03	90.00	6,967.26	907.25	6,211.45	6,265.28	0.00	0.00	0.00
13,000.00	90.03	90.00	6,967.21	907.26	6,311.45	6,364.94	0.00	0.00	0.00
13,100.00	90.03	90.00	6,967.16	907.27	6,411.45	6,464.59	0.00	0.00	0.00
13,200.00	90.03	90.00	6,967.11	907.27	6,511.45	6,564.25	0.00	0.00	0.00
13,300.00	90.03	90.00	6,967.06	907.28	6,611.45	6,663.91	0.00	0.00	0.00
13,400.00	90.03	90.00	6,967.01	907.29	6,711.45	6,763.56	0.00	0.00	0.00
13,500.00	90.03	90.00	6,966.96	907.30	6,811.45	6,863.22	0.00	0.00	0.00
12 600 00	00.03	90.00	6,966.91	907.31	6 011 45	6 062 00	0.00	0.00	0.00
13,600.00 13,700.00	90.03 90.03	90.00	6,966.86	907.31	6,911.45 7,011.45	6,962.88 7,062.53	0.00 0.00	0.00 0.00	0.00
13,800.00	90.03	90.00	6,966.81	907.31	7,011.45	7,162.19	0.00	0.00	0.00
13,900.00	90.03	90.00	6,966.76	907.33	7,111.45	7,102.19	0.00	0.00	0.00
14,000.00	90.03	90.00	6,966.71	907.34	7,311.45	7,361.50	0.00	0.00	0.00
						,			
14,100.00 14,200.00	90.03 90.03	90.00 90.00	6,966.66 6,966.61	907.35 907.35	7,411.45 7,511.45	7,461.16 7,560.81	0.00 0.00	0.00 0.00	0.00 0.00
14,300.00	90.03	90.00	6,966.57	907.36	7,511.45 7,611.45	7,660.47	0.00	0.00	0.00
14,400.00	90.03	90.00	6,966.52	907.37	7,011.45	7,760.13	0.00	0.00	0.00
14,500.00	90.03	90.00	6,966.47	907.38	7,811.45	7,859.78	0.00	0.00	0.00
,									
14,600.00	90.03 90.03	90.00	6,966.42	907.39	7,911.45	7,959.44	0.00	0.00	0.00
14,700.00 14,800.00	90.03	90.00 90.00	6,966.37 6,966.32	907.40 907.40	8,011.45 8,111.45	8,059.10 8,158.75	0.00 0.00	0.00 0.00	0.00 0.00
14,900.00	90.03	90.00	6,966.27	907.40	8,211.45	8,258.41	0.00	0.00	0.00
15,000.00	90.03	90.00	6,966.22	907.41	8,311.45	8,358.06	0.00	0.00	0.00
15,100.00	90.03	90.00	6,966.17	907.43	8,411.45	8,457.72	0.00	0.00	0.00
15,200.00	90.03	90.00	6,966.12	907.44	8,511.45	8,557.38	0.00	0.00	0.00
15,300.00	90.03	90.00	6,966.07	907.44	8,611.45 8 711 45	8,657.03 8,756.60	0.00	0.00	0.00
15,400.00	90.03	90.00	6,966.02	907.45	8,711.45	8,756.69	0.00	0.00	0.00



**Planning Report** 



Database: Grand Junction
Company: Logos Operating LLC

Project: Rio Arriba, NM NAD83
Site: Rosa Unit 27

 Well:
 Rosa Unit 645H

 Wellbore:
 OH

 Design:
 Plan #2

**Local Co-ordinate Reference** 

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

esign:	Fiaii #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)
15,500.00	90.03	90.00	6,965.97	907.46	8,811.45	8,856.35	0.00	0.00	0.00
15,600.00 15,700.00 15,800.00 15,900.00 16,000.00	90.03 90.03 90.03 90.03 90.03	90.00 90.00 90.00 90.00 90.00	6,965.92 6,965.87 6,965.82 6,965.77 6,965.72	907.47 907.48 907.48 907.49 907.50	8,911.45 9,011.45 9,111.45 9,211.45 9,311.45	8,956.00 9,055.66 9,155.32 9,254.97 9,354.63	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	90.03 90.03 90.03 90.03 90.03	90.00 90.00 90.00 90.00 90.00	6,965.67 6,965.62 6,965.57 6,965.52 6,965.47	907.51 907.52 907.52 907.53 907.54	9,411.45 9,511.45 9,611.45 9,711.45 9,811.45	9,454.28 9,553.94 9,653.60 9,753.25 9,852.91	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	90.03 90.03 90.03 90.03 90.03	90.00 90.00 90.00 90.00 90.00	6,965.42 6,965.37 6,965.32 6,965.27 6,965.22	907.55 907.56 907.57 907.57 907.58	9,911.45 10,011.45 10,111.45 10,211.45 10,311.45	9,952.57 10,052.22 10,151.88 10,251.54 10,351.19	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00	90.03 90.03 90.03 90.03 90.03	90.00 90.00 90.00 90.00 90.00	6,965.17 6,965.12 6,965.07 6,965.02 6,964.97	907.59 907.60 907.61 907.61 907.62	10,411.45 10,511.45 10,611.45 10,711.45 10,811.45	10,450.85 10,550.50 10,650.16 10,749.82 10,849.47	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,598.07	90.03	90.00	6,965.00	907.63	10,909.52	10,947.21	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
645H BHL Rev 1 - plan hits target cent - Point	0.00 er	0.00	6,965.00	907.63	10,909.52	2,144,410.35	2,858,939.07	36.8921811	-107.3687720
645H POE Rev 1 - plan hits target cent - Point	0.00 er	0.00	6,970.00	906.80	709.67	2,144,363.86	2,848,739.35	36.8921846	-107.4036521



#### **Planning Report**



Grand Junction Database: Logos Operating LLC Company:

Rio Arriba, NM NAD83 Project:

Rosa Unit 27 Site: Rosa Unit 645H Well: ОН Wellbore:

**Local Co-ordinate Reference** 

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**  Well Rosa Unit 645H - Slot B3 GL 6305' & RKB 25' @ 6330.00ft GL 6305' & RKB 25' @ 6330.00ft

True

esign:	Plan #2						
Formations							
	Measured	Vertical				Dip	
	Depth	Depth			Dip	Direction	
	(ft)	(ft)	Name	Lithology	(°)	(°)	
	2,400.16	2,383.00	Ojo Alamo		0.00	0.00	
	2,546.66	2,528.00	Kirtland		0.00	0.00	
	3,056.88	3,033.00	Fruitland		0.00	0.00	
	3,374.12	3,347.00	Pictured Cliffs		0.00	0.00	
	3,489.30	3,461.00	Lewis		0.00	0.00	
	4,605.72	4,566.00	Chacra		0.00	0.00	
	5,412.98	5,365.00	Cliff House		0.00	0.00	
	5,460.47	5,412.00	Menefee		0.00	0.00	
	5,690.83	5,640.00	Point Lookout		0.00	0.00	
	6,192.96	6,137.00	Mancos		0.00	0.00	



# LOGOS Operating, LLC Operations Plan

Note: This procedure will be adjusted onsite based upon actual conditions

Date:	December 17, 2021	Pool:	Basin Mancos
Well Name:	Rosa Unit 645H	GL Elevation:	6,305'
Surface Location:	Sec 19, T31N, R5W 960 FNL, 497 FWL (36.889694° N, 107.406079° W – NAD83)	Measured Depth:	17,598' (KB)
Bottom Hole Location:	Sec 21, T31N, R5W 52 FNL, 2320 FWL (36.892181° N, 107.368772° W – NAD83)	County:	Rio Arriba

Lease Serial #NMSF078769, CA Serial #NMNM78407E

#### I. GEOLOGY

**A.** Formation Tops (Based on 25' KB Elevation): Estimated top of important geological markers: SURFACE FORMATION – NACIMIENTO

Sold Meet Old Million Michigania								
NAME	MD	TVD	NAME	MD	TVD			
OJO ALAMO	2400	2383	*POINT LOOKOUT	5691	5640			
KIRTLAND	2547	2528	*MANCOS	6193	6137			
*FRUITLAND	3057	3033	KICKOFF POINT	6406	6348			
*PICTURED CLIFFS	3374	3347	LANDING POINT	7398	6970			
LEWIS	3489	3461						
CHACRA	4606	4566						
*CLIFF HOUSE	5413	5365						
MENEFEE	5461	5412	TD	17598	6965			

<sup>\*</sup> indicates depth at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered.

- B. MUD LOGGING PROGRAM: Mudlogger on location from KOP to TD.
- C. LOGGING PROGRAM: LWD GR from surface casing to TD.
- **D.** <u>NATURAL GAUGES:</u> Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

#### II. <u>DRILLING</u>

A. MUD PROGRAM: LSND mud (WBM) will be used to drill the 17-1/2" surface hole as well as the 12-1/4" directional vertical hole. A LSND (WBM) or (OBM) will be used to drill the 8-3/4" curve and lateral portion of the wellbore. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

Above ground steel pits will be used for fluid and cuttings while drilling. In the unlikely event that a tank develops a leak, upon immediate visual discovery, the fluid would be transferred to another tank and contaminated soil would be removed and disposed. Any leaks, spills or other undesirable events will be reported in accordance with BLM NTL 3A. Rig crews will monitor the tanks at all times.



B. BOP TESTING: The BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Pressure test surface casing to 600 psi for 30 minutes and intermediate casing to 1500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. BOP equipment will be tested every 30 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe and blind rams shall be activated each trip or but not more than once a day. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE. All tests and inspections will be recorded and logged with time and results. A full BOP test will be conducted when initially installed for the first well on the pad or if seals subject to test pressure are broken, following related repairs and at a minimum of 30 day intervals. A BOPE Shell Test only will be conducted for subsequent wells on the pad when seals subject to pressure have not been broken or repaired and fall within the 30 day interval of first full test.

#### III. MATERIALS

#### A. CASING EQUIPMENT:

CASING TYPE	OHSIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	17.5"	320' or greater	13.375"	54.5 LBS	J-55 or equiv	LTC/BTC
INTERMEDIATE	12.25"	6,268'	9.625"	43.5 LBS	N-80 or equiv	LTC/BTC
PRODUCTION	8.5"	17,598'	5.5"	20 LBS	P-110 or equiv	LTC/BTC

NOTE: All casing depths are approximate, based on KB elevation (25') and will be based on drilling conditions +/-50'. Weights, grades and connections will be based on availability and may vary but will be equivalent or greater.

#### **B. FLOAT EQUIPMENT:**

- 1. <u>SURFACE CASING:</u> 13-3/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- 2. INTERMEDIATE CASING: 9-5/8" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. Optional use of DV Tools (2) will be strategically placed above loss circulation zones anticipated in the Mesaverde and Fruitland Coal. Optional use of cancelation plugs for DV tools may be used if losses while cementing are not encountered.
- 3. <u>PRODUCTION CASING</u>: Run 5-1/2" casing with cement nose guide Float Shoe, 5-1/2" full or pup joints as necessary, Landing Collar, 5-1/2" full or pup joints as necessary, at least (1) one Toe Sleeve (Sliding Sleeve) positioned inside the applicable production area. Centralizer program will be determined by wellbore conditions. Production casing to be pressure tested during completion operations with frac stack installed.

#### C. <u>CEMENTING</u>:

(Note: Cement type and volumes may be adjusted onsite due to actual conditions and availability)

1. <u>SURFACE</u>: Casing shall be set at ~ 320' and cemented to surface. TOC at Surface. 263 sks of 15.8 ppg Type Neat G, 1.18 cuft/sk yield or equivalent 223 sks of 14.6 ppg Type III with 1.39 cuf/sk yield, 30% excess.



2. <u>INTERMEDIATE:</u> Intermediate casing shall be kept fluid filled while running in to the hole to meet BLM minimum collapse requirements. The intermediate casing will be cemented in 2 or 3 stages using DV/STAGE tools in order to reduce cement losses and maximize cement coverage. Operator proposes optional DV tools above anticipated loss circulation zones in the Mesaverde and in the Fruitland coal. If losses are not observed during the second stage a cancelation plug will be pumped and the remaining cement will be pumped during stage 2. If cement does not circulate to the DV tool(s) or to surface, a CBL will be run to determine TOC.

	Top (ft)	Footage (ft)	Cement (ft3/ft) Annular Capacity	Excess (30%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Stage 1 Tail	5,791	477	0.31318	1.3	212	38	1.15	184	15.8
Stage 1 Lead	4,657	1,134	0.31318	1.3	462	82	2.30	201	12.3
					673	120		385	
Stage 2 Tail	3,574	1,083	0.31318	1.3	441	79	1.50	294	13.5
Stage 2 Lead	3,107	467	0.31318	1.3	190	34	2.30	83	12.3
					631	112		377	
Stage 3 Tail	2,357	750	0.31318	1.3	305	54	1.99	153	12.8
Stage 3 Lead	320	2,037	0.31318	1.3	829	148	2.53	328	12
Stage 3 Lead	-	320	0.36268	1	116	21	2.53	46	12
					1,251	223		527	
All Stage Totals					2,555	455		1,289	

Calculations based on 30% excess for open hole and cement to surface. Actual excess pumped will be determined by well conditions.

3. <u>PRODUCTION</u>: Production casing will be cemented in 1 stage with 100' of cement overlap above intermediate shoe. A CBL, or alternatively, a Temperature Survey will be used to determine TOC.

	Top (ft)	Footage (ft)	Cement (ft3/ft) Annular Capacity	Excess (15%)	Total (ft3)	Total (bbl)	Slurry Yield (ft3/sk)	Sacks Cement	Density (PPG)
Cased Lead	6,168	100	0.2531	1	25	5	1.56	16	13
Open Hole Lead	6,268	11,330	0.2291	1.15	2,996	534	1.56	1,920	13
					3,021	538		1,936	

Calculations based on 15% excess for open hole and 100' overlap into intermediate casing. Actual volumes will vary.

Cement calculations are used for volume estimation. Well conditions will dictate final cement job design. Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected. All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

#### IV. <u>COMPLETION</u>

#### A. CBL

CBLs and/or Temperature Surveys will be performed as needed or required to determine cement top if cement is not circulated.

#### **B.** PRESSURE TEST

C. Pressure test 5-1/2" casing to 1532 psi (0.22 psi/ft \* 6,965' TVD) for 30 minutes. Increase pressure to Open RSI sleeves.



#### D. <u>STIMULATION</u>

Stimulate with sand and water. Isolate stages with flow through or dissolvable frac plugs. Drill out frac plugs and flowback lateral.

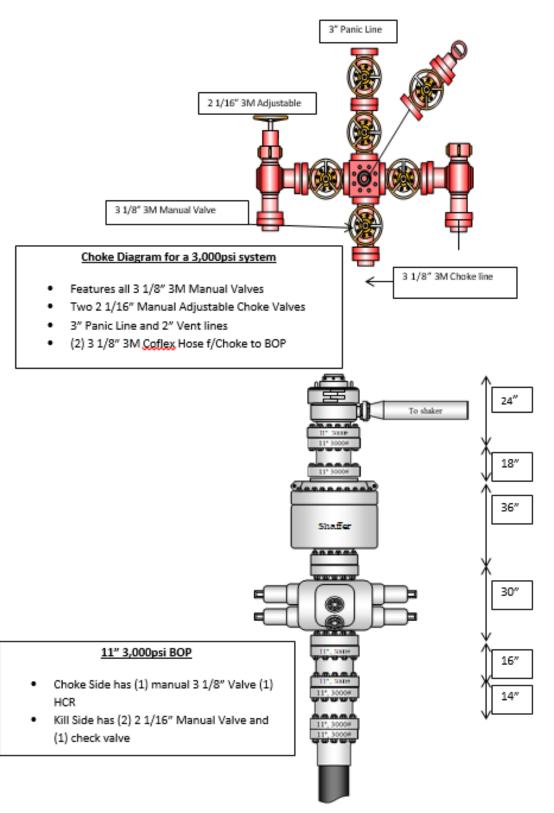
#### E. PRODUCTION TUBING

2-7/8", 6.5#, J-55 or L-80, EUE tubing will be run once volumes and pressures dictate. Due to the extremely high initial flow rates and pressures seen in offset wells, tubing will be installed once it is safe to do so, typically 12-18 months after completion.

\*NOTE: Although this horizontal well may be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 8(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 8(2) NMAC, 19.15.16.15 8(2)NMAC, and 19.15.16.15. 8(4) NMAC.



# 3M 11" B.O.P.E Diagram



#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

#### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

## Section 1 – Plan Description Effective May 25, 2021

I. Operator: LOGO	OS Operating,	HC <b>OCI</b>	RID: 289408	<b>Date:</b> 03/11	/2022			
i. Operator	operating,	<u>LLC</u> OGI	<u></u>	Date: 03/11	12022			
II. Type: ⊠ Original [	☐ Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C □ 19.15.27.9.D(	6)(b) N	MAC □ Ot	her.	
If Other, please describe	e:							
III. Well(s): Provide the be recompleted from a s					wells pi	oposed to b	e dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated oduced Water BBL/D
Rosa Unit 645H	30-039-31415	C 19 T31N R5W	960FNL 497FWL	N/A	11.	205		508
Rosa Unit 647H	30-039-31411	C 19 T31N R5W	952FNL 422FWL	N/A	11.	205	506	
Rosa Unit 649H	30-039-31410	C 19 T31N R5W	965FNL 480FWL	N/A	11,	205		506
V. Anticipated Schedu or proposed to be recom	ule: Provide the	e following inform	ation for each ne		well or	19.15.27.9( set of wells		<u>-</u>
Well Name	API	Spud Date	TD Reached	Completion		Initial Flo	ow	First Production
		•	Date	Commencement	Date	Back Da	te	Date
Rosa Unit 645H	30-039-31415	Pending	Pending	Pending		Pending		Pending
Rosa Unit 647H	30-039-31411	Pending	Pending	Pending		Pending		Pending
Rosa Unit 649H	30-039-31410	Pending	Pending	Pending		Pending		Pending
			ũ					
VI. Separation Equipm	nent: 🛭 Attach	a complete descri	ption of how Ope	erator will size sep	aration	equipment	to opt	imize gas capture.
VII. Operational Prac Subsection A through F			ription of the act	tions Operator wil	l take t	o comply w	ith th	ne requirements of
VIII. Best Management during active and planner			ete description of	Operator's best n	nanagei	nent practic	es to	minimize venting

(h)

(i)

## **Section 3 - Certifications** Effective May 25, 2021

Operator certifies that, at	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of t	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the arinto account the current a	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. ☐ Operate D of 19.15.27.9 NMAC;	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
	an.   Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential
alternative beneficial use	s for the natural gas until a natural gas gathering system is available, including:
(a)	power generation on lease;
(b)	power generation for grid;
(c)	compression on lease;
(d)	liquids removal on lease;
(e)	reinjection for underground storage;
(f)	reinjection for temporary storage;
(g)	reinjection for enhanced oil recovery;

# **Section 4 - Notices**

other alternative beneficial uses approved by the division.

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

fuel cell production; and

- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Eta Trujillo
Printed Name:	Etta Trujillo
Title:	Regulatory Specialist
E-mail Address:	etrujillo@logosresourcesllc.com
Date:	03/11/2022
Phone:	(505) 324-4154
	OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:	
Title:	
Approval Date:	
Conditions of App	oroval:

# **LOGOS Operating, LLC**

#### VI. Separation Equipment

The operator will select separation equipment for the maximum anticipated throughput and pressure to optimize gas capture. Separation equipment is sized according to manufacturer's design specifications. Separation vessels are built following the A.S.M.E. section VII division 1 codes for pressure vessel design, fabrication, inspection, testing and certification. Anticipated well pressures and production rates are evaluated to select separation equipment according to the equipment's designed operating pressure and throughput.

After completion, the operator utilizes flowback equipment, including separators, to manage wellbore fluids and solids during the initial separation period. After the initial flowback period is complete the operator utilizes iterative facility separation equipment to ensure that optimal separation is achieved.

#### VII. Operational Practices 19.15.27.8 NMAC A through F

- A. The operator will maximize the recovery of natural gas and minimize the amount of gas vented or flared when technically and safely feasible as further described and detailed within the following subsections (B-F of 19.15.27.8). In all cases where natural gas venting and flaring requires regulatory reporting, reporting will be submitted accurately and within the required time frames.
- B. Venting and flaring during drilling operations:
  - a. New Drill HZ Gas Wells: The operator drills wells in the area by utilizing a balanced mud to safely drill the wellbore. This technique prevents gas from coming to surface during the drilling process. If there is an emergency or malfunction and natural gas does come to surface the natural gas will be captured and routed to sales if technically and safely feasible.
- C. Venting and flaring during completion or recompletion operations:
  - a. New Drill HZ Gas Wells: The operator's facilities are designed to handle the maximum throughput and pressures from the newly drilled and completed wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible. During initial flowback and initial separation flowback the operator will utilize contracted flowback equipment, including separators, to manage wellbore fluids and solids. The initial flowback period will be minimized and flow will be sent to separation equipment as soon as possible to reduce the amount of gas that is vented to atmosphere. The natural gas will be utilized on site as needed for fuel gas and natural gas will be sold.
- D. Venting and flaring during production operations:
  - a. New Drill HZ Gas Wells: The operator's facilities are designed to handle the maximum throughput and pressures from producing wellbores. The amount of gas vented and flared will be minimized when technically and safely feasible.
    - Operations will effectively manage the following scenarios to minimize the quantity of natural gas that is vented or flared:

- (a) If there is an emergency or malfunction vented or flared natural gas will be reported, if required, and the emergency or malfunction will be resolved as soon as technically and safely feasible.
- (b) If the wellbore needs to be unloaded to atmosphere the operator will not vent the well after the well has achieved a stabilized rate and pressure. The operator will remain on site during unloading. Plunger lift systems will be optimized to reduce the amount of natural gas venting. Downhole maintenance, such as workovers, swabbing, etc. will only be conducted as needed and best management practices will be utilized to reduce venting of natural gas.
- (c) The operator will minimize the amount of time that natural gas is vented to atmosphere from gauging and sampling a storage tank or lowpressure vessel, automatic tank gauges will be the primary means of gauging. The formation is only anticipated to produce water and therefore tank emissions are anticipated to be negligible.
- (d) The operator will reduce the amount of time needed for loading out liquids from a storage tanks or other low-pressure vessels whenever feasible. Operations will always utilize the water transfer systems when available. Water loading emissions are anticipated to be negligible.
- (e) Equipment will be repaired and maintained routinely to minimize the venting or flaring of natural gas. Repairs and maintenance will be conducted in a manner that minimizes the amount of natural gas vented to atmosphere through the isolation of the equipment that is being repaired or maintained.
- (f) Electric controllers and pumps will be installed to replace pneumatic controllers whenever feasible. Pneumatic controllers and pumps will be inspected frequently to ensure that no excess gas is vented to atmosphere.
- (g) No dehydration or amine units are anticipated to be set on location.
- (h) Compressors, compressor engines, turbines, flanges, connectors, valves, storage tanks, and other low-pressure vessels and flanges will be routinely inspected to ensure that no excess venting occurs outside of normal operations.
- (i) Regulatory required testing, such as bradenhead and packer testing will be performed in a manner that minimizes the amount of natural gas vented to atmosphere.
- (j) If natural gas does not meet gathering pipeline specifications gas samples will be collected twice per week to determine when pipeline specification gas content has been achieved. During this time frame gas will be flared and not vented to atmosphere. Natural gas that meets pipeline specifications will be sold via pipeline and natural gas that can be utilized for fuel gas will be used during this time.
- (k) If pipeline, equipment, or facilities need purged of impurities gas losses will be minimized as much as technically and safely feasible.

#### E. Performance standards:

- a. The production facilities are designed to handle the maximum throughput and pressures from producing wellbores and will be designed to minimize waste. The amount of gas vented and flared will be minimized when technically and safely feasible.
- b. All tanks that are routed to a control device that is installed after 5/25/2021 will have an automatic gauging system to minimize the amount of vented natural gas.
- c. If a flare stack is installed or replaced after 5/25/2021 it will be equipped with an automatic ignitor or continuous pilot. The flare stack will be properly sized and designed to ensure proper combustion efficiency. The flare stack will be located 100 feet away from the nearest wellhead or storage tank.
- d. AVO inspections will be conducted weekly for the year after completion and for all wells producing greater than 60,000 cubic feet of natural gas daily. The AVO inspection will include all components, including flare stacks, thief hatches, closed vent systems, pumps, compressors, pressure relief devices, valves, lines, flanges, connectors, and associated pipeline to identify any leaks and releases by comprehensive auditory, visual, and olfactory inspection. The AVO inspection records will be maintained for 5 years which will be available at the department's request. Identified leaks will be repaired as soon as feasible to minimize the amount of vented natural gas.
- F. Measurement or estimation of vented and flared natural gas.
  - The volume of natural gas that is vented, flared or consumed for beneficial use will be measured when possible, or estimated, during drilling, completions, or production operations.
  - b. Equipment will be installed to measure the volume of natural gas flared for all APD's issued after 5/25/2021 on facilities that will have an average daily gas rate greater than 60,000 cubic feet of natural gas. Measurement equipment will conform to API MPMS Chapter 14.10 regulations. The measurement equipment will not have a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment. If metering is not practical then the volume of gas will be estimated.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Report

Well Name: ROSA UNIT Well Location: T31N / R5W / SEC 19 / County or Parish/State: RIO

NENW / 36.889712 / -107.406179 ARRIBA / NM

Well Number: 645H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMSF078764 Unit or CA Name: ROSA UNIT- Unit or CA Number:

MANCOS PA NMNM78407E

US Well Number: 300393141500X1 Well Status: Temporarily Abandoned Operator: LOGOS OPERATING

LLC

### **Notice of Intent**

**Sundry ID:** 2656755

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 02/11/2022 Time Sundry Submitted: 03:30

Date proposed operation will begin: 04/01/2022

Procedure Description: LOGOS Operating request a change in plans for the following: Original surface-hole location from 953' FNL & 468' FWL to new surface-hole location 960' FNL & 497' FWL Original bottom-hole location from 73' FNL & 1930' FWL to new bottom-hole location 52' FNL & 2320' FWL Original TD @ 18,121' MD 6920' TVD to new TD @ 17,598' MD 6965' TVD. Geology tops have been updated per changes. Original KOP @ 6336' MD 6236' TVD to new KOP @ 6406' MD 6348' TVD Original Landing point @ 7560' MD 7035' TVD to new Landing point @ 7398' MD 6970' TVD Original 12.25" OH size, 9.625" Surface casing @ 320' to new 17.5" OH size, 13.375" casing @ 320' MD Original 8.75" OH size, 7" Intermediate casing @ 6336' MD to new 12.25" OH size, 9.625" casing @ 6268' MD 6211' TVD Original 6.125" OH size, 4.5" Production liner @ 18,121' MD to new 8.5" OH size, 5.5" casing @ 17,598' MD 6965' TVD New 9.625" Intermediate & 5.5" Production cementing, grade and weight have been update per casing depth changes. Attached: New C102, Operation and Directional Drill plans

# **Surface Disturbance**

Is any additional surface disturbance proposed?: No

#### **NOI Attachments**

## **Procedure Description**

3160\_5\_Rosa\_Unit\_645H\_Change\_in\_Plans\_SURF\_INT\_PROD\_20220211\_20220211152840.pdf

Page 1 of 2

Well Location: T31N / R5W / SEC 19 / County or Parish/State: Rio

NENW / 36.889712 / -107.406179 ARRIBA / NM

Well Number: 645H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

**Lease Number:** NMSF078764 **Unit or CA Name:** ROSA UNIT- **Unit or CA Number:** MANCOS PA NMNM78407E

US Well Number: 300393141500X1 Well Status: Temporarily Abandoned Operator: LOGOS OPERATING

LLC

# **Operator Certification**

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: ETTA TRUJILLO Signed on: FEB 11, 2022 03:29 PM

Name: LOGOS OPERATING LLC

**Title:** Regulatory Specialist

Street Address: 2010 AFTON PLACE

City: Farmington State: NM

Phone: (505) 324-4154

Email address: ETRUJILLO@LOGOSRESOURCESLLC.COM

## Field Representative

**Representative Name:** 

City: State: Zip:

Phone:

**Email address:** 

**Street Address:** 

## **BLM Point of Contact**

BLM POC Name: KENNETH G RENNICK BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742 BLM POC Email Address: krennick@blm.gov

**Disposition:** Approved **Disposition Date:** 03/10/2022

Signature: Kenneth Rennick

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

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 89772

#### **CONDITIONS**

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	89772
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By		Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval.	3/15/2022