Form C-101

August 1, 2011 Permit 307707

<u>District I</u> 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

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

- 1	ne and Address nklin Mountain En	erav II C			•		·	-		-	2. OGRI	D Number 373910		
44 (Cook Street ver, CO 80206	ergy LLO									3. API N		,	
. Property Cod	e		5. Property Nam	ne NIVAL STAT	E COM						6. Well 1			
		L				Surfa	ce Location				1			
JL - Lot B	Section 2	Township 25S	Range	35E	Lot Idn 2		Feet From 321	N/S Line	N	Feet From 1	415	E/W Line	County	Lea
			l		I.	ed Bo	ttom Hole Location	on		· I	_			
JL - Lot	Section	Township	Range		Lot Idn		Feet From	N/S Line		Feet From		E/W Line	County	,
0	11	25	S	35E	C)	150		S	2	2100	Е		Le
					9. 1	Pool	Information							
/C-025 G-09	S253502B;LWR	BONE SPRIN										981	85	
					Additio	onal V	Vell Information							
1. Work Type		12. Well Type						14. Lea	31			nd Level Elevation		
Nev	Well	OIL		10. Gazioniciany				State			3259			
6. Multiple		17. Proposed De	•	18. Formation 19. Contractor					r	20. Spud Date				
N		2024	7	1st Bone Spring Sand						10/20/2022				
epth to Groun	d water			Distance from nearest fresh water well					Distance to nearest surface water					
We will be u	sing a closed-lo	op system in lie	u of lined pits	<u> </u>										
				21	. Proposed (Casin	g and Cement Pr	ogram						
Туре	Hole Size	Casing	Size		ng Weight/ft		Setting D			Sacks of	Cement		Estimated	TOC
Surf	17.5	13.3	75		54.5		1300)		113	33		0	
Int1	12.25	9.62		40 5150			165			0				
Int2	8.75	7.62			29.7		1043	-		37			4150	
	6.75	5.5	-		23		2024	7		80	6	1	9439	1

	22. Proposed Blowout Preven	ntion Program	
Туре	Working Pressure	Test Pressure	Manufacturer

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	Cactus

knowledge and be	elief.	s true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION	
Printed Name:	Electronically filed by Rachael A	Overbey	Approved By:	Paul F Kautz		
Title:	Project Manager		Title:	Geologist		
Email Address:	roverbey@fmellc.com		Approved Date:	2/9/2022	Expiration Date: 2/9/2024	
Date:	2/8/2022	Phone: 303-570-4057	Conditions of Approval Attached			

<u>District I</u>
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Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., 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 Dr., 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 Dr.
Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	•	² Pool Code	1.					
30-025-49747		98185	WC-025 G-09 S253502B; LWR BONE SPRIN					
4 Property Code		5 Pr	operty Name	6 Well Number				
331897		CARNIV	AL STATE COM	303H				
7 OGRID No.		8 OI	perator Name	⁹ Elevation				
373910		FRANKLIN MO	UNTAIN ENERGY LLC	3259.2'				

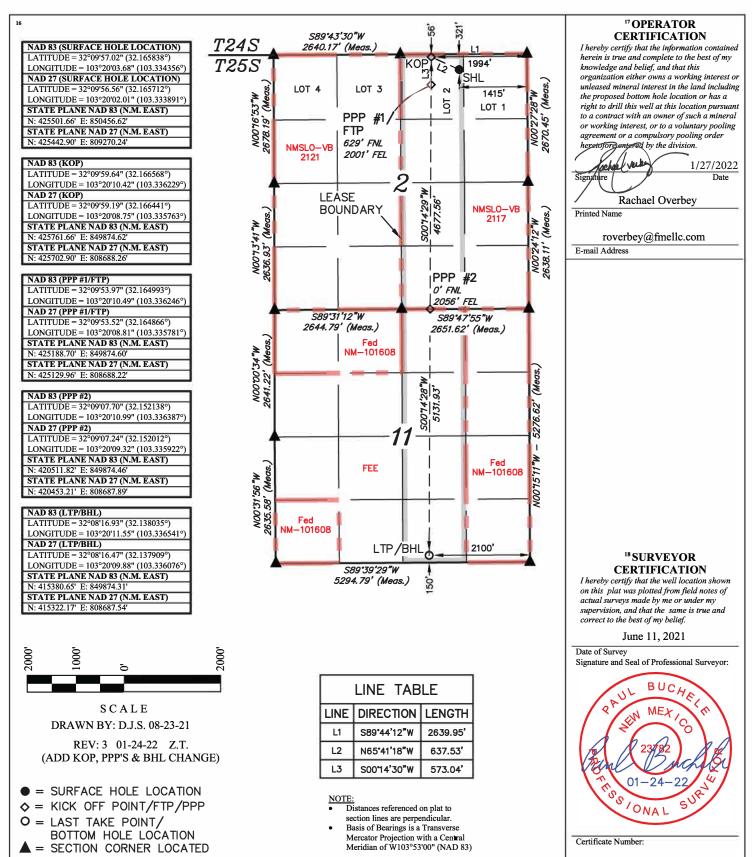
¹⁰ Surface Location

2 2 258 33E 321 NORTH 1415 EAST LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Sect 1	ion 1	Township 25S	Range 35E	Lot Idn	Feet from the 150	North/South line SOUTH	Feet from the 2100	East/West line EAST	County LEA
12 Dedicated Acre 320.85	es	¹³ Jo	oint or Infill	14 Conso	olidation Code	15 Order No.				

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.



Form APD Conditions

Permit 307707

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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**

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Franklin Mountain Energy LLC [373910]	30-025-49747
44 Cook Street	Well:
Denver, CO 80206	CARNIVAL STATE COM #303H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
pkautz	1) SURFACE & INTERMEDIATE1 CASING - Cement must circulate to surface 2) INTERMEDIATE2 CASING - Cement must tie back into intermediate1 casing 3) PRODUCTION CASING - Cement must tie back into intermediate2 casing

Franklin Mountain Energy

Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH Design: Plan #3

Azimuths to Grid North True North: -0.53° Magnetic North: 5.85°

Magnetic Field Strength: 47551.2nT Dip Angle: 59.72° Date: 11/17/2021 Model: HDGM_FILE



PROJECT DETAILS: Lea County, NM (NAD83) Geodetic System: US State Plane 1983

Datum: North American Datum 1983 Ellipsoid: GRS 1980

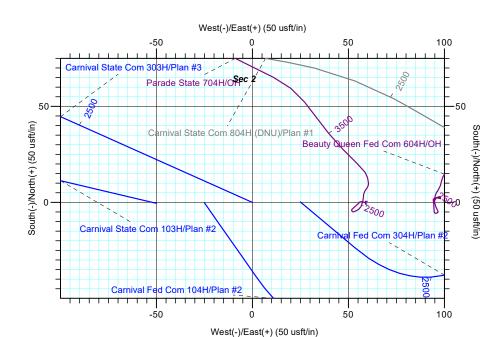
Zone: New Mexico Eastern Zone

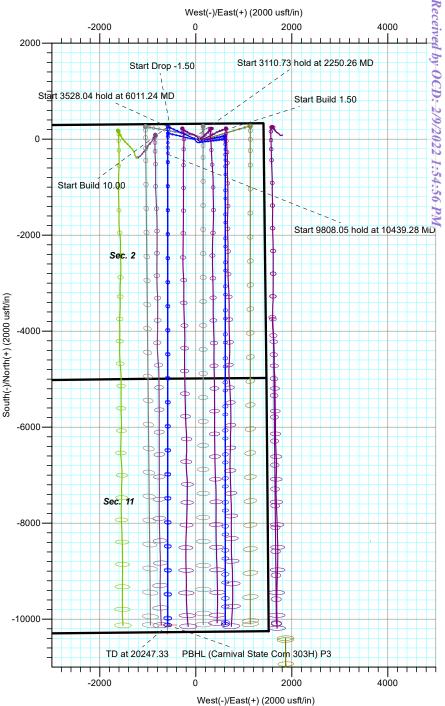
DESIGN TARGET DETAILS

Name +N/-S +E/-W Northing Easting Latitude Longitude PBHL (Carnival State Com 303H) P3 10061.00 -10121.01 -582.31 415380.65 849874.31 32.138035 -103.336541

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2250.26	9.75	294.07	2247.12	22.52	-50.41	1.50	294.07	-19.59	Start 3110.73 hold at 2250.26 MD
5360.98	9.75	294.07	5312.88	237.48	-531.59	0.00	0.00	-206.55	Start Drop -1.50
6011.24	0.00	0.00	5960.00	260.00	-582.00	1.50	180.00	-226.14	Start 3528.04 hold at 6011.24 MD
9539.28	0.00	0.00	9488.04	260.00	-582.00	0.00	0.00	-226.14	Start Build 10.00
10439.28	90.00	180.00	10061.00	-312.96	-582.02	10.00	180.00	345.87	Start 9808.05 hold at 10439.28 MD
20247.33	90.00	180.00	10061.00	-10121.01	-582.31	0.00	0.00	10137.75	TD at 20247.33







TOTAL DIRECTIONAL SERVICES LLC 671 Academy Ct, Windsor, CO 80550 Phone: (970) 460-9402

Plan: Plan #3 (Carnival State Com 303H/OH) Carnival East Pad Created By: R. Wafer Approved:

1500-

True Vertical Depth (1500 usft/in)

4500

True Vertical Depth (2000 usft/in)

Project: Lea County, NM (NAD83) Site: Carnival East Pad

Well: Carnival State Com 303H

Start Build 1.50

Start Drop -1.50

Start 3528.04 hold at 6011.24 MD

Start 3110.73 hold at 2250.26 MD

Wellbore: OH Design: Plan #3



Azimuths to Grid North True North: -0.53° Magnetic North: 5.85°

> Magnetic Field Strength: 47551.2nT Dip Angle: 59.72° Date: 11/17/2021 Model: HDGM_FILE

PROJECT DETAILS: Lea County, NM (NAD83)

Geodetic System: US State Plane 1983

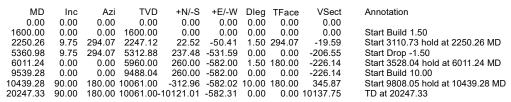
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

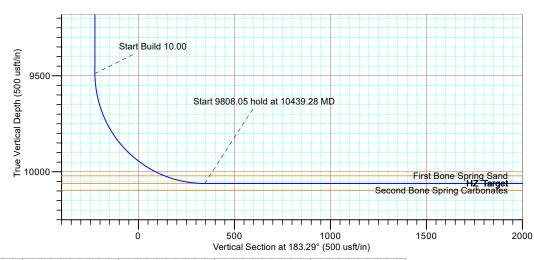


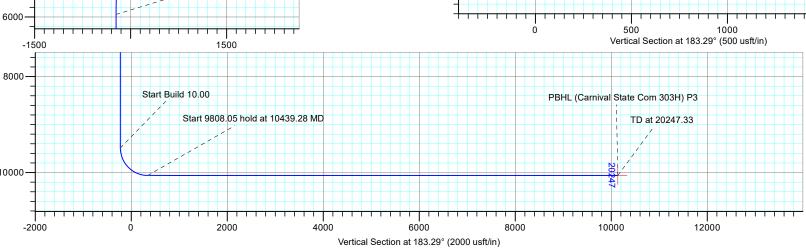
SECTION DETAILS



DESIGN TARGET DETAILS

Name TVD +N/-S +E/-W Latitude Longitude PBHL (Carnival State Com 303H) P3 10061.00 -10121.01 -582.31 32.138035 -103.336541





total

TOTAL DIRECTIONAL SERVICES LLC 671 Academy Ct, Windsor, CO 80550 Phone: (970) 460-9402 Plan: Plan #3 (Carnival State Com 303H/OH)
Carnival East Pad

Created By: R. Wafer Date: 19:04, January Date: _____ Approved: _____ Date: _____

2022



Franklin Mountain Energy

Lea County, NM (NAD83) Carnival East Pad Carnival State Com 303H

OH

Plan: Plan #3

Standard Planning Report

19 January, 2022









EDM 5000.1 Single User Db Database: Company: Franklin Mountain Energy Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: ОН Design: Plan #3 Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: **Survey Calculation Method:** Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft

Minimum Curvature

Project Lea County, NM (NAD83)

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

System Datum: Mean Sea Level

Site Carnival East Pad

425,501.21 usft Site Position: Northing: 32.165838 Latitude: 850,406.63 usft -103.334518 From: Мар Easting: Longitude: 0.00 usft

Position Uncertainty: Slot Radius: 13.200 in

Well Carnival State Com 303H

Well Position +N/-S 0.00 usft 425.501.66 usft Latitude: 32.165838 Northing: 850,456.62 usfl -103.334357 +E/-W 0.00 usft Easting: Longitude:

Position Uncertainty 0.00 usft Wellhead Elevation: usf Ground Level: 3,259.20 usft

Grid Convergence: 0.53°

Wellbore ОН

Declination Field Strength **Magnetics Model Name** Sample Date **Dip Angle** (°) (°) (nT) HDGM FILE 6.38 47,551.20000000 11/17/2021 59.72

Design Plan #3

Audit Notes:

1

Version: Phase: **PLAN** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction

(usft) (usft) (usft) (°) 0.00 183.29 10,061.00 0.00

Plan Survey Tool Program Date 1/19/2022

Depth From Depth To

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

0.00 20,247.33 Plan #3 (OH) OWSG (Rev2) MWD+IFR1

OWSG MWD + IFR1 + Mult

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,250.26	9.75	294.07	2,247.12	22.52	-50.41	1.50	1.50	0.00	294.07	
5,360.98	9.75	294.07	5,312.88	237.48	-531.59	0.00	0.00	0.00	0.00	
6,011.24	0.00	0.00	5,960.00	260.00	-582.00	1.50	-1.50	0.00	180.00	
9,539.28	0.00	0.00	9,488.04	260.00	-582.00	0.00	0.00	0.00	0.00	
10,439.28	90.00	180.00	10,061.00	-312.96	-582.02	10.00	10.00	0.00	180.00	
20,247.33	90.00	180.00	10,061.00	-10,121.01	-582.31	0.00	0.00	0.00	0.00 PI	BHL (Carnival Sta





Database: EDM 5000.1 Single User Db Company: Franklin Mountain Energy Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft Grid

Minimum Curvature

esigii		1 Idil #5								
Planne	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00 30.00	0.00 0.00 Alluvium (surfa	0.00 0.00	0.00 30.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	100.00 200.00 300.00	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 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
	1,024.00	0.00	0.00	1,024.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	Start Build 1,664.00 Salado	0.96	294.07	1,664.00	0.22	-0.49	-0.19	1.50	1.50	0.00
	1,700.00	1.50	294.07	1,699.99	0.53	-1.20	-0.46	1.50	1.50	0.00
	1,800.00	3.00	294.07	1,799.91	2.14	-4.78	-1.86	1.50	1.50	0.00
	1,900.00	4.50	294.07	1,899.69	4.80	-10.75	-4.18	1.50	1.50	0.00
	2,000.00	6.00	294.07	1,999.27	8.53	-19.11	-7.42	1.50	1.50	0.00
	2,100.00	7.50	294.07	2,098.57	13.33	-29.84	-11.59	1.50	1.50	0.00
	2,200.00	9.00	294.07	2,197.54	19.18	-42.94	-16.68	1.50	1.50	0.00
	2,250.26	9.75	294.07	2,247.12	22.52	-50.41	-19.59	1.50	1.50	0.00
		73 hold at 225								
	2,300.00	9.75	294.07	2,296.14	25.96	-58.11	-22.58	0.00	0.00	0.00
	2,400.00	9.75	294.07	2,394.70	32.87	-73.58	-28.59	0.00	0.00	0.00
	2,500.00	9.75	294.07	2,493.25	39.78	-89.04	-34.60	0.00	0.00	0.00
	2,600.00	9.75	294.07	2,591.81	46.69	-104.51	-40.61	0.00	0.00	0.00
	2,700.00	9.75	294.07	2,690.36	53.60	-119.98	-46.62	0.00	0.00	0.00
	2,800.00	9.75	294.07	2,788.92	60.51	-135.45	-52.63	0.00	0.00	0.00
	2,900.00	9.75	294.07	2,887.47	67.42	-150.92	-58.64	0.00	0.00	0.00
	3,000.00	9.75	294.07	2,986.03	74.33	-166.39	-64.65	0.00	0.00	0.00
	3,100.00	9.75	294.07	3,084.58	81.24	-181.85	-70.66	0.00	0.00	0.00
	3,200.00	9.75	294.07	3,183.14	88.15	-197.32	-76.67	0.00	0.00	0.00
	3,300.00	9.75	294.07	3,281.69	95.06	-212.79	-82.68	0.00	0.00	0.00
	3,400.00	9.75	294.07	3,380.24	101.97	-228.26	-88.69	0.00	0.00	0.00
	3,500.00	9.75	294.07	3,478.80	108.88	-243.73	-94.70	0.00	0.00	0.00
	3,600.00	9.75	294.07	3,577.35	115.79	-259.19	-100.71	0.00	0.00	0.00
	3,627.04	9.75	294.07	3,604.00	117.66	-263.38	-102.34	0.00	0.00	0.00
	3,700.00	9.75	294.07	3,675.91	122.70	-274.66	-106.72	0.00	0.00	0.00
	3,800.00	9.75	294.07	3,774.46	129.61	-290.13	-112.73	0.00	0.00	0.00
	3,900.00	9.75	294.07	3,873.02	136.52	-305.60	-118.74	0.00	0.00	0.00
	4,000.00	9.75	294.07	3,971.57	143.43	-321.07	-124.75	0.00	0.00	0.00
	4,100.00	9.75	294.07	4,070.13	150.34	-336.54	-130.76	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db Company: Franklin Mountain Energy Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft Grid Minimum Curvature

Desig	11.	Plan #3								
Plann	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	4,163.80	9.75	294.07	4,133.00	154.75	-346.40	-134.60	0.00	0.00	0.00
	Capitan 4,200.00 4,300.00	9.75 9.75	294.07 294.07	4,168.68 4,267.23	157.25 164.16	-352.00 -367.47	-136.77 -142.78	0.00 0.00	0.00 0.00	0.00 0.00
	4,400.00	9.75	294.07	4,365.79	171.07	-382.94	-148.79	0.00	0.00	0.00
	4,500.00	9.75	294.07	4,464.34	177.98	-398.41	-154.80	0.00	0.00	0.00
	4,600.00	9.75	294.07	4,562.90	184.89	-413.88	-160.81	0.00	0.00	0.00
	4,700.00	9.75	294.07	4,661.45	191.80	-429.34	-166.83	0.00	0.00	0.00
	4,800.00	9.75	294.07	4,760.01	198.71	-444.81	-172.84	0.00	0.00	0.00
	4,900.00	9.75	294.07	4,858.56	205.62	-460.28	-178.85	0.00	0.00	0.00
	5,000.00	9.75	294.07	4,957.12	212.53	-475.75	-184.86	0.00	0.00	0.00
	5,095.26	9.75	294.07	5,051.00	219.12	-490.48	-190.58	0.00	0.00	0.00
	Lamar									
	5,100.00	9.75	294.07	5,055.67	219.44	-491.22	-190.87	0.00	0.00	0.00
	5,200.00	9.75	294.07	5,154.22	226.35	-506.69	-196.88	0.00	0.00	0.00
	5,300.00	9.75	294.07	5,252.78	233.26	-522.15	-202.89	0.00	0.00	0.00
	5,313.42	9.75	294.07	5,266.00	234.19	-524.23	-203.69	0.00	0.00	0.00
	Bell Canyo		204.07	F 240 00	007.40	F24 F0	200 55	0.00	0.00	0.00
	5,360.98 Start Drop	9.75	294.07	5,312.88	237.48	-531.59	-206.55	0.00	0.00	0.00
	5,400.00	9.17	294.07	5,351.37	240.09	-537.44	-208.83	1.50	-1.50	0.00
	5,500.00	7.67	294.07	5,450.29	246.07	-550.81	-214.02	1.50	-1.50	0.00
	5,600.00	6.17	294.07	5,549.56	250.98	-561.81	-218.29	1.50	-1.50	0.00
	5,700.00	4.67	294.07	5,649.11	254.83	-570.43	-221.64	1.50	-1.50	0.00
	5,800.00	3.17	294.07	5,748.87	257.62	-576.67	-224.07	1.50	-1.50	0.00
	5,900.00	1.67	294.07	5,848.78	259.34	-580.52	-225.57	1.50	-1.50	0.00
	6,000.00	0.17	294.07	5,948.76	259.99	-581.98	-226.13	1.50	-1.50	0.00
	6,011.24	0.00	0.00	5,960.00	260.00	-582.00	-226.14	1.50	-1.50	0.00
	,	04 hold at 601		5,500.00	200.00	-302.00	-220.14	1.50	-1.50	0.00
	6,100.00	0.00	0.00	6,048.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,143.24	0.00	0.00	6,092.00	260.00	-582.00	-226.14	0.00	0.00	0.00
	Cherry Car									
	6,200.00	0.00	0.00	6,148.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,300.00	0.00	0.00	6,248.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,400.00	0.00	0.00	6,348.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,500.00	0.00	0.00	6,448.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,600.00	0.00	0.00	6,548.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,700.00	0.00	0.00	6,648.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,800.00	0.00	0.00	6,748.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	6,900.00	0.00	0.00	6,848.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,000.00	0.00	0.00	6,948.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,100.00	0.00	0.00	7,048.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,200.00	0.00	0.00	7,148.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,300.00	0.00	0.00	7,248.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,400.00	0.00	0.00	7,348.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,500.00	0.00	0.00	7,448.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,505.24	0.00	0.00	7,454.00	260.00	-582.00	-226.14	0.00	0.00	0.00
	Brushy Ca			7 - 10 = -						0.05
	7,600.00	0.00	0.00	7,548.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,700.00	0.00	0.00	7,648.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,800.00	0.00	0.00	7,748.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	7,900.00	0.00	0.00	7,848.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	8,000.00	0.00	0.00	7,948.76	260.00	-582.00	-226.14	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db Company: Franklin Mountain Energy Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft Grid Minimum Curvature

Planned	Survey									
M	leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	8,100.00	0.00	0.00	8,048.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	8,200.00	0.00	0.00	8,148.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	8,300.00 8,400.00 8,500.00 8,600.00 8,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	8,248.76 8,348.76 8,448.76 8,548.76 8,648.76	260.00 260.00 260.00 260.00 260.00	-582.00 -582.00 -582.00 -582.00 -582.00	-226.14 -226.14 -226.14 -226.14	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
	8,800.00	0.00	0.00	8,748.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	8,888.24	0.00	0.00	8,837.00	260.00	-582.00	-226.14	0.00	0.00	0.00
	Bone Sprir	ng Lime		•						
	8,900.00	0.00	0.00	8,848.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	8,968.24	0.00	0.00	8,917.00	260.00	-582.00	-226.14	0.00	0.00	0.00
1	Avalon 9,000.00	0.00	0.00	8,948.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,100.00	0.00	0.00	9,048.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,175.24	0.00	0.00	9,124.00	260.00	-582.00	-226.14	0.00	0.00	0.00
	Chert Zone		0.00	0.440.70	000.00	500.00	000.44	0.00	0.00	0.00
	9,200.00	0.00	0.00	9,148.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,300.00	0.00	0.00	9,248.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,400.00	0.00	0.00	9,348.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,500.00	0.00	0.00	9,448.76	260.00	-582.00	-226.14	0.00	0.00	0.00
	9,539.28	0.00	0.00	9,488.04	260.00	-582.00	-226.14	0.00	0.00	0.00
;	Start Build									
	9,550.00	1.07	180.00	9,498.76	259.90	-582.00	-226.04	10.00	10.00	0.00
	9,600.00	6.07	180.00	9,548.65	256.79	-582.00	-222.93	10.00	10.00	0.00
	9,650.00	11.07	180.00	9,598.07	249.34	-582.00	-215.49	10.00	10.00	0.00
	9,700.00	16.07	180.00	9,646.66	237.61	-582.00	-203.78	10.00	10.00	0.00
	9,750.00	21.07	180.00	9,694.04	221.69	-582.00	-187.89	10.00	10.00	0.00
	9,800.00	26.07	180.00	9,739.86	201.70	-582.00	-167.93	10.00	10.00	0.00
	9,850.00	31.07	180.00	9,783.75	177.79	-582.00	-144.07	10.00	10.00	0.00
	9,900.00	36.07	180.00	9,825.40	150.15	-582.00	-116.47	10.00	10.00	0.00
	9,950.00	41.07	180.00	9,864.48	118.99	-582.00	-85.36	10.00	10.00	0.00
	10,000.00	46.07	180.00	9,900.69	84.53	-582.01	-50.96	10.00	10.00	0.00
	10,050.00	51.07	180.00	9,933.77	47.06	-582.01	-13.55	10.00	10.00	0.00
	10,100.00	56.07	180.00	9,963.45	6.84	-582.01	26.60	10.00	10.00	0.00
	10,150.00	61.07	180.00	9,989.51	-35.81	-582.01	69.18	10.00	10.00	0.00
	10,200.00	66.07	180.00	10,011.76	-80.57	-582.01	113.87	10.00	10.00	0.00
	10,223.92	68.46	180.00	10,021.00	-102.63	-582.01	135.89	10.00	10.00	0.00
		Spring Sand	100.00	10.000.00	10= 10	E00.0:	400.00	40.00	40.00	0.00
•	10,250.00	71.07	180.00	10,030.02	-127.10	-582.01	160.32	10.00	10.00	0.00
	10,300.00	76.07	180.00	10,044.15	-175.04	-582.01	208.19	10.00	10.00	0.00
	10,350.00	81.07	180.00	10,054.06	-224.04	-582.01	257.10	10.00	10.00	0.00
	10,400.00	86.07	180.00	10,059.65	-273.71	-582.02	306.69	10.00	10.00	0.00
	10,439.28	90.00	180.00	10,061.00	-312.96	-582.02	345.87	10.00	10.00	0.00
		05 hold at 104								
•	10,500.00	90.00	180.00	10,061.00	-373.68	-582.02	406.49	0.00	0.00	0.00
	10,600.00	90.00	180.00	10,061.00	-473.68	-582.02	506.33	0.00	0.00	0.00
	10,700.00	90.00	180.00	10,061.00	-573.68	-582.02	606.16	0.00	0.00	0.00
	10,800.00	90.00	180.00	10,061.00	-673.68	-582.03	706.00	0.00	0.00	0.00
	10,900.00	90.00	180.00	10,061.00	-773.68	-582.03	805.83	0.00	0.00	0.00
	11,000.00	90.00	180.00	10,061.00	-873.68	-582.03	905.67	0.00	0.00	0.00
	11,100.00	90.00	180.00	10,061.00	-973.68	-582.04	1,005.50	0.00	0.00	0.00
	11,200.00	90.00	180.00	10,061.00	-1,073.68	-582.04	1,105.34	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db Company: Franklin Mountain Energy Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft Grid Minimum Curvature

Design:	Plan #3								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,300.00	90.00	180.00	10,061.00	-1,173.68	-582.04	1,205.17	0.00	0.00	0.00
11,400.00	90.00	180.00	10,061.00	-1,273.68	-582.05	1,305.01	0.00	0.00	0.00
11,500.00	90.00	180.00	10,061.00	-1,373.68	-582.05	1,404.84	0.00	0.00	0.00
11,600.00	90.00	180.00	10,061.00	-1,473.68	-582.05	1,504.68	0.00	0.00	0.00
11,700.00	90.00	180.00	10,061.00	-1,573.68	-582.05	1,604.51	0.00	0.00	0.00
11,800.00	90.00	180.00	10,061.00	-1,673.68	-582.06	1,704.35	0.00	0.00	0.00
11,900.00	90.00	180.00	10,061.00	-1,773.68	-582.06	1,804.18	0.00	0.00	0.00
12,000.00	90.00	180.00	10,061.00	-1,873.68	-582.06	1,904.02	0.00	0.00	0.00
12,100.00	90.00	180.00	10,061.00	-1,973.68	-582.07	2,003.85	0.00	0.00	0.00
12,200.00	90.00	180.00	10,061.00	-2,073.68	-582.07	2,103.69	0.00	0.00	0.00
12,300.00	90.00	180.00	10,061.00	-2,173.68	-582.07	2,203.52	0.00	0.00	0.00
12,400.00	90.00	180.00	10,061.00	-2,273.68	-582.08	2,303.36	0.00	0.00	0.00
12,500.00	90.00	180.00	10,061.00	-2,373.68	-582.08	2,403.19	0.00	0.00	0.00
12,600.00	90.00	180.00	10,061.00	-2,473.68	-582.08	2,503.03	0.00	0.00	0.00
12,700.00	90.00	180.00	10,061.00	-2,573.68	-582.08	2,602.86	0.00	0.00	0.00
12,800.00	90.00	180.00	10,061.00	-2,673.68	-582.09	2,702.70	0.00	0.00	0.00
12,900.00	90.00	180.00	10,061.00	-2,773.68	-582.09	2,802.53	0.00	0.00	0.00
13,000.00	90.00	180.00	10,061.00	-2,873.68	-582.09	2,902.37	0.00	0.00	0.00
13,100.00	90.00	180.00	10,061.00	-2,973.68	-582.10	3,002.20	0.00	0.00	0.00
13,200.00	90.00	180.00	10,061.00	-3,073.68	-582.10	3,102.04	0.00	0.00	0.00
13,300.00	90.00	180.00	10,061.00	-3,173.68	-582.10	3,201.87	0.00	0.00	0.00
13,400.00	90.00	180.00	10,061.00	-3,273.68	-582.11	3,301.71	0.00	0.00	0.00
13,500.00	90.00	180.00	10,061.00	-3,373.68	-582.11	3,401.54	0.00	0.00	0.00
13,600.00	90.00	180.00	10,061.00	-3,473.68	-582.11	3,501.38	0.00	0.00	0.00
13,700.00	90.00	180.00	10,061.00	-3,573.68	-582.11	3,601.21	0.00	0.00	0.00
13,800.00	90.00	180.00	10,061.00	-3,673.68	-582.12	3,701.05	0.00	0.00	0.00
13,900.00	90.00	180.00	10,061.00	-3,773.68	-582.12	3,800.88	0.00	0.00	0.00
14,000.00	90.00	180.00	10,061.00	-3,873.68	-582.12	3,900.72	0.00	0.00	0.00
14,100.00	90.00	180.00	10,061.00	-3,973.68	-582.13	4,000.55	0.00	0.00	0.00
14,200.00	90.00	180.00	10,061.00	-4,073.68	-582.13	4,100.39	0.00	0.00	0.00
14,300.00	90.00	180.00	10,061.00	-4,173.68	-582.13	4,200.22	0.00	0.00	0.00
14,400.00	90.00	180.00	10,061.00	-4,273.68	-582.14	4,300.06	0.00	0.00	0.00
14,500.00	90.00	180.00	10,061.00	-4,373.68	-582.14	4,399.89	0.00	0.00	0.00
14,600.00	90.00	180.00	10,061.00	-4,473.68	-582.14	4,499.73	0.00	0.00	0.00
14,700.00	90.00	180.00	10,061.00	-4,573.68	-582.14	4,599.56	0.00	0.00	0.00
14,800.00	90.00	180.00	10,061.00	-4,673.68	-582.15	4,699.40	0.00	0.00	0.00
14,900.00	90.00	180.00	10,061.00	-4,773.68	-582.15	4,799.23	0.00	0.00	0.00
15,000.00	90.00	180.00	10,061.00	-4,873.68	-582.15	4,899.07	0.00	0.00	0.00
15,100.00	90.00	180.00	10,061.00	-4,973.68	-582.16	4,998.90	0.00	0.00	0.00
15,200.00	90.00	180.00	10,061.00	-5,073.68	-582.16	5,098.74	0.00	0.00	0.00
15,300.00	90.00	180.00	10,061.00	-5,173.68	-582.16	5,198.57	0.00	0.00	0.00
15,400.00	90.00	180.00	10,061.00	-5,273.68	-582.17	5,298.41	0.00	0.00	0.00
15,500.00	90.00	180.00	10,061.00	-5,373.68	-582.17	5,398.24	0.00	0.00	0.00
15,600.00	90.00	180.00	10,061.00	-5,473.68	-582.17	5,498.08	0.00	0.00	0.00
15,700.00	90.00	180.00	10,061.00	-5,573.68	-582.17	5,597.91	0.00	0.00	0.00
15,800.00	90.00	180.00	10,061.00	-5,673.68	-582.18	5,697.75	0.00	0.00	0.00
15,900.00	90.00	180.00	10,061.00	-5,773.68	-582.18	5,797.58	0.00	0.00	0.00
16,000.00	90.00	180.00	10,061.00	-5,873.68	-582.18	5,897.42	0.00	0.00	0.00
16,100.00	90.00	180.00	10,061.00	-5,973.68	-582.19	5,997.25	0.00	0.00	0.00
16,200.00	90.00	180.00	10,061.00	-6,073.68	-582.19	6,097.09	0.00	0.00	0.00
16,300.00	90.00	180.00	10,061.00	-6,173.68	-582.19	6,196.92	0.00	0.00	0.00
16,400.00	90.00	180.00	10,061.00	-6,273.68	-582.20	6,296.76	0.00	0.00	0.00
16,500.00	90.00	180.00	10,061.00	-6,373.68	-582.20	6,396.60	0.00	0.00	0.00
16,600.00	90.00	180.00	10,061.00	-6,473.68	-582.20	6,496.43	0.00	0.00	0.00







Database: EDM 5000.1 Single User Db Company: Franklin Mountain Energy Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft Grid

Minimum Curvature

esign:	Plan #3								
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,700.00	90.00	180.00	10,061.00	-6,573.68	-582.20	6,596.27	0.00	0.00	0.00
16,800.00	90.00	180.00	10,061.00	-6,673.68	-582.21	6,696.10	0.00	0.00	0.00
16,900.00	90.00	180.00	10,061.00	-6,773.68	-582.21	6,795.94	0.00	0.00	0.00
17,000.00	90.00	180.00	10,061.00	-6,873.68	-582.21	6,895.77	0.00	0.00	0.00
17,100.00	90.00	180.00	10,061.00	-6,973.68	-582.22	6,995.61	0.00	0.00	0.00
17,200.00	90.00	180.00	10,061.00	-7,073.68	-582.22	7,095.44	0.00	0.00	0.00
17,300.00	90.00	180.00	10,061.00	-7,173.68	-582.22	7,195.28	0.00	0.00	0.00
17,400.00	90.00	180.00	10,061.00	-7,273.68	-582.22	7,295.11	0.00	0.00	0.00
17,500.00	90.00	180.00	10,061.00	-7,373.68	-582.23	7,394.95	0.00	0.00	0.00
17,600.00	90.00	180.00	10,061.00	-7,473.68	-582.23	7,494.78	0.00	0.00	0.00
17,700.00	90.00	180.00	10,061.00	-7,573.68	-582.23	7,594.62	0.00	0.00	0.00
17,800.00	90.00	180.00	10,061.00	-7,673.68	-582.24	7,694.45	0.00	0.00	0.00
17,900.00	90.00	180.00	10,061.00	-7,773.68	-582.24	7,794.29	0.00	0.00	0.00
18,000.00	90.00	180.00	10,061.00	-7,873.68	-582.24	7,894.12	0.00	0.00	0.00
18,100.00	90.00	180.00	10,061.00	-7,973.68	-582.25	7,993.96	0.00	0.00	0.00
18,200.00	90.00	180.00	10,061.00	-8,073.68	-582.25	8,093.79	0.00	0.00	0.00
18,300.00	90.00	180.00	10,061.00	-8,173.68	-582.25	8,193.63	0.00	0.00	0.00
18,400.00	90.00	180.00	10,061.00	-8,273.68	-582.25	8,293.46	0.00	0.00	0.00
18,500.00	90.00	180.00	10,061.00	-8,373.68	-582.26	8,393.30	0.00	0.00	0.00
18,600.00	90.00	180.00	10,061.00	-8,473.68	-582.26	8,493.13	0.00	0.00	0.00
18,700.00	90.00	180.00	10,061.00	-8,573.68	-582.26	8,592.97	0.00	0.00	0.00
18,800.00	90.00	180.00	10,061.00	-8,673.68	-582.27	8,692.80	0.00	0.00	0.00
18,900.00	90.00	180.00	10,061.00	-8,773.68	-582.27	8,792.64	0.00	0.00	0.00
19,000.00	90.00	180.00	10,061.00	-8,873.68	-582.27	8,892.47	0.00	0.00	0.00
19,100.00	90.00	180.00	10,061.00	-8,973.68	-582.28	8,992.31	0.00	0.00	0.00
19,200.00	90.00	180.00	10,061.00	-9,073.68	-582.28	9,092.14	0.00	0.00	0.00
19,300.00	90.00	180.00	10,061.00	-9,173.68	-582.28	9,191.98	0.00	0.00	0.00
19,400.00	90.00	180.00	10,061.00	-9,273.68	-582.28	9,291.81	0.00	0.00	0.00
19,500.00	90.00	180.00	10,061.00	-9,373.68	-582.29	9,391.65	0.00	0.00	0.00
19,600.00	90.00	180.00	10,061.00	-9,473.68	-582.29	9,491.48	0.00	0.00	0.00
19,700.00	90.00	180.00	10,061.00	-9,573.68	-582.29	9,591.32	0.00	0.00	0.00
19,800.00	90.00	180.00	10,061.00	-9,673.68	-582.30	9,691.15	0.00	0.00	0.00
19,900.00	90.00	180.00	10,061.00	-9,773.68	-582.30	9,790.99	0.00	0.00	0.00
20,000.00	90.00	180.00	10,061.00	-9,873.68	-582.30	9,890.82	0.00	0.00	0.00
20,100.00	90.00	180.00	10,061.00	-9,973.68	-582.31	9,990.66	0.00	0.00	0.00
20,200.00	90.00	180.00	10,061.00	-10,073.68	-582.31	10,090.49	0.00	0.00	0.00
20,247.33	90.00	180.00	10,061.00	-10,121.01	-582.31	10,137.75	0.00	0.00	0.00
TD at 20247	7.33								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Carnival State - plan hits target c - Point	0.00 enter	0.00	10,061.00	-10,121.01	-582.31	415,380.65	849,874.31	32.138035	-103.336541







Database: EDM 5000.1 Single User Db Franklin Mountain Energy Project: Lea County, NM (NAD83) Site: Carnival East Pad Well: Carnival State Com 303H

Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Carnival State Com 303H GE 3259.2' + KB 30' @ 3289.20usft GE 3259.2' + KB 30' @ 3289.20usft

Minimum Curvature

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Casi	III U	гυ	เมเอ

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (in)	Hole Diameter (in)	
20,313.71		20" Casing		20.000	24.000	

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	30.00	30.00	Cenozoic Alluvium (surface)			
	1,024.00	1,024.00	Rustler			
	1,664.00	1,664.00	Salado			
	3,627.04	3,604.00	Base Salt			
	4,163.80	4,133.00	Capitan			
	5,095.26	5,051.00	Lamar			
	5,313.42	5,266.00	Bell Canyon			
	6,143.24	6,092.00	Cherry Canyon			
	7,505.24	7,454.00	Brushy Canyon			
	8,888.24	8,837.00	Bone Spring Lime			
	8,968.24	8,917.00	Avalon			
	9,175.24	9,124.00	Chert Zone			
	10,223.92	10,021.00	First Bone Spring Sand			
	10,439.28	10,061.00	HZ Target			

Plan Annotations				
Measured	Vertical	Local Coor	dinates	Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
1,600.00	1,600.00	0.00	0.00	Start Build 1.50 Start 3110.73 hold at 2250.26 MD Start Drop -1.50 Start 3528.04 hold at 6011.24 MD Start Build 10.00
2,250.26	2,247.12	22.52	-50.41	
5,360.98	5,312.88	237.48	-531.59	
6,011.24	5,960.00	260.00	-582.00	
9,539.28	9.488.04	260.00	-582.00	
10,439.28	10,061.00	-312.96	-582.02	Start 9808.05 hold at 10439.28 MD
20,247.33	10,061.00	-10,121.01	-582.31	TD at 20247.33



Carnival State Com 303H

1. Geologic name of surface location: Permian

2. Estimated tops of important geological markers:

PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
3,259'	30'	30'	0	Sand/Gravels/unconsolidated
2,265'	1,024'			Carbonates
1,625'	1,664'			Salt, Carbonate & Clastics
-315'	3,604'			Shaley Carbonate & Shale
-844'	4,133'			Carbonates
-1,762'	5,051'			Carbonate & Clastics
-1,977'	5,266'			Sandstone - oil/gas/water
-2,803'	6,092'			Sandstone - oil/gas/water
-4,165'	7,454'			Sand/carb/shales - oil/gas/water
-5,548'	8,837'			Shale/Carbonates - oil/gas
-5,628'	8,917'			Shale/Carbonates - oil/gas
-5,835'	9,124'			Carbonate/Chert
-6,732'	10,021'			Sandstone - oil/gas/water
-6,772'	10,061'			Sandstone - oil/gas/water
-6,807'	10,096'			Shale/Carbonates - oil/gas
-7,222'	10,511'			Sandstone - oil/gas/water
	3,259' 2,265' 1,625' -315' -844' -1,762' -1,977' -2,803' -4,165' -5,548' -5,628' -6,732' -6,772' -6,807'	3,259' 30' 2,265' 1,024' 1,625' 1,664' -315' 3,604' -844' 4,133' -1,762' 5,051' -1,977' 5,266' -2,803' 6,092' -4,165' 7,454' -5,548' 8,837' -5,628' 8,917' -5,835' 9,124' -6,732' 10,021' -6,772' 10,061' -6,807' 10,096'	3,259' 30' 30' 30' 30' 2,265' 1,024' 1,625' 1,664' -315' 3,604' -844' 4,133' -1,762' 5,051' -1,977' 5,266' -2,803' 6,092' -4,165' 7,454' -5,548' 8,837' -5,628' 8,917' -5,835' 9,124' -6,732' 10,021' -6,772' 10,061' -6,807' 10,096'	3,259' 30' 30' 0 2,265' 1,024' 1,625' 1,664' -315' 3,604' -844' 4,133' -1,762' 5,051' -1,977' 5,266' -2,803' 6,092' -4,165' 7,454' -5,548' 8,837' -5,628' 8,917' -5,835' 9,124' -6,732' 10,021' -6,772' 10,061' -6,807' 10,096'

3. Estimated depth of anticipated fresh water, oil or gas:

Upper Permian Sands 0- 400' Fresh Water Delaware Sands 5,266' Oil Bone Spring Sand 10,021' Oil Bone Spring Carbonate 10,096' Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,300'and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new. Safety factors calculated assuming the well is vertical.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length		1.18 1.67 4.99 5.32			API design factor		
								Burst	Collapse	Tension	Coupling			
						BTC								
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1300	1.18	1.67	4.99	5.32			
						BTC								
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	5150	1.78	1.76	2.99	3.41			
						Stinger								
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	564	10439	1.27	1.46	2.02	1.38			
						Eagle								
Long string 5 1/2"	23	P-110	14520	14520	729	606	20247	1.32	1.53	1.29	1.07			
						TVD	10061				1.83			

7 5/8" casing will be set at 10,439'MD/10,061' TVD at 90°Inc. Stress calculations on 5 $\frac{1}{2}$ " casing performed assuming 20,247' depth. Actual max vertical depth is 10,061'.



Cementing Program:

Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface.

String	Hole	Cas	sing		L	ead					Tail			Excess
Туре	Size	Size	Setting Depth	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	тос	
Surf	17.5	13.375	1300	803	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol- Seal	1.747	9.06	0	330	Tail, 14.8 ppg, Class C,	1.349	6.51	1000	100%
					0.125pps Poly- E-Flake					1% CaCl2, 0.125pps Celo-Flake				
Int1	12.25	9.625	5150	1505	Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	Tail, 14.8 ppg, Class C,	1.33	6.37	4850	100%
					0.125 pps Poly- E-Flake, 3lb/sk Kol-Seal					0.1% HR 800 .125 pps Poly-E- Flake				
Int2	8.75	7.625	10439	283	Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5%	2.13	5.97	4150	94	NeoCem 14.8 ppg, Class C	1.33	6.29	9439	50%
					Salt, 5pps LCM, 0.25pps Cello- Flake Tail, 14.5 ppg,					0.25 pps Cello-Flake, 2% CalCl2				
Prod	6.75	5.5	20247	806	Gas Migration Control	1.34	6.22	9439						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 $\frac{1}{2}$ " x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.



6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,300′	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' - 10,439'	Brine	8.8-10.2	28-34	N/c
10,439' – 20,247' Lateral	Oil Base	10.0-12.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 10-11 ppg. In order to maintain hole stability, mud weights up to 12 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary well control and monitoring equipment:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.
- (D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR–CCL-CNL Will be run in cased hole during completions phase of operations. Open-hole logs are not planned for this well.

9. Abnormal conditions, pressures, temperatures and potential hazards:

The estimated bottom-hole temperature at 10,061' TVD (deepest point of the well) is 170F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,278 psig (based on 12 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H2S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 - 1. Rescue packs (SCBA) 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity



- 3. Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.
- ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - The Mud program will be designed to minimize the volume of H2S circulated to surface.
 The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.



12. Disposal/environmental concerns:

- (A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
- (B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

After running the 2nd intermediate casing, and before drilling out, the wellhead, BOP, and related equipment will be tested to 10,000/250 psig.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

14. Additional variance requests

A. Casing.

In order to minimize potential environmental and technical hazards, this well is planned with two intermediate strings of casing.

- 1. Variance is requested to wave the centralizer requirements for the 7 5/8" casing due to the tight clearance with 9 5/8" string.
- 2. Variance is requested to wave/reduce the centralizer requirements for the 5 ½" casing due to the tight clearance with 6 3/4" hole and 5 ½" casing due to tight clearances.

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:Franklin	Mountain F	Energy, LLC	OGR	ID: 373910_		Date: 01/_10_/_2022
II. Type: ⊠ Original	□ Amendme	ent due to \square 19.15.	27.9.D(6)(a) NM	IAC □ 19.15.27.9	.D(6)(b) NMAC	□ Other.
If Other, please describe: _						
III. Well(s): Provide the for the form a single term of the form of the					wells proposed to	be drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached Well List						222,2
V. Anticipated Schedule or proposed to be recomple Well Name					t. Initial I	Flow First Production
C A4411 W-11 I :-4			Dute		Duck I	Jule Bule
See Attached Well List						
VI. Separation Equipment VII. Operational Practice Subsection A through F of VIII. Best Management I during active and planned	es: Attacl 19.15.27.8 N	h a complete descr NMAC.	ription of the act	tions Operator wil	l take to comply	with the requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🖾 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \boxtimes Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system [\square will \square will not have	capacity to gather 100%	of the anticipated natural gas
production volume from the well prior to the date of first	t production.		

XIII. Line Pressure. Operator \Box	does \square does not anticipate that its	s existing well(s) connected	d to the same segment,	or portion,	of the
natural gas gathering system(s) de	scribed above will continue to mee	et anticipated increases in l	ine pressure caused by	the new we	ell(s).

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information j	provided in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific in	information
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h) other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become 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
- (b) 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: Sechal Verber
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 01/10/2022
Phone: 720-414-7868
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

	,			Anticipated Oil	Anticipated	Anticipated Produced
Well Name	API 14 Digit	ULSTR	Surface Location FTG	BBL/D	Gas MCF/D	Water BBL/D
Carnival Fed Com 104H	TBD	B-2-25S-35E	321 FNL 1440 FEL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 304H	TBD	B-2-25S-35E	321 FNL 1390 FEL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 806H	TBD	A-2-25S-35E	321 FNL 1225 FEL	800 +/-	1100 +/-	500 +/-
Carnival State Com 103H	TBD	B-2-25S-35E	321 FNL 1465 FEL	800 +/-	1100 +/-	500 +/-
Carnival State Com 303H	TBD	B-2-25S-35E	321 FNL 1415 FEL	800 +/-	1100 +/-	500 +/-
Carnival State Com 805H	TBD	A-2-25S-35E	321 FNL 1250 FEL	800 +/-	1100 +/-	500 +/-
Carnival State Com 804H	30025496590000	B-2-25S-35E	674 FNL 2547 FEL	800 +/-	1100 +/-	500 +/-
Blue Ribbon Fed Com 702H (re-drill)	30025493940000	C-2-25S-35E	215 FNL 1355 FWL	800 +/-	1100 +/-	500 +/-
County Fair Fed Com 602H (re-drill)	30025493950000	C-2-25S-35E	215 FNL 1320 FWL	800 +/-	1100 +/-	500 +/-
County Fair Fed Com 701H (re-drill)	30025493950000	D-2-25S-35E	215 FNL 1285 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 101H	TBD	D-2-25S-35E	250 FNL 1100 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 102H	TBD	D-2-25S-35E	250 FNL 1125 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 301H	TBD	D-2-25S-35E	250 FNL 1150 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 302H	TBD	D-2-25S-35E	250 FNL 1175 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 801H	TBD	D-2-25S-35E	250 FNL 1200 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 802H	TBD	D-2-25S-35E	250 FNL 1225 FWL	800 +/-	1100 +/-	500 +/-
Carnival Fed Com 803H	TBD	D-2-25S-35E	250 FNL 1250 FWL	800 +/-	1100 +/-	500 +/-

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

recompleted from a single well pad of		, , , , , , , , , , , , , , , , , , ,	···•	Completion	Initial	
		Spud Date			Flowback	
Well Name	API 14 Digit	(Batch Drilling)	TD Reached Date	Date	Date	First Production Date
Carnival Fed Com 104H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 304H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 806H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival State Com 103H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival State Com 303H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival State Com 805H	TBD	4/24/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival State Com 804H	30025496590000	1/10/2022	2/7/2022	3/7/2022	3/21/2022	3/22/2022
Blue Ribbon Fed Com 702H (re-drill)	30025493940000	11/15/2021	1/25/2022	2/21/2022	3/21/2022	3/22/2022
County Fair Fed Com 602H (re-drill)	30025493950000	11/15/2021	1/25/2022	2/21/2022	3/21/2022	3/22/2022
County Fair Fed Com 701H (re-drill)	30025493950000	11/15/2021	1/25/2022	2/21/2022	3/21/2022	3/22/2022
Carnival Fed Com 101H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 102H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 301H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 302H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 801H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 802H	TBD	3/20/2023	7/1/2023	7/10/2023	8/7/2023	8/9/2023
Carnival Fed Com 803H	TBD	3/20/2023	6/20/2022	7/10/2023	8/7/2023	8/9/2023



Natural Gas Management Plan

Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a high pressure 2-phase separator to remove bulk gas, liquid from the 2-phase separator is sent to a 3-phase separator where additional gas is separated. Gas from the 2 Phase and 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales. As production declines the 2-phase separator may be removed.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- Drilling Operations:
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 - Flares will be properly sized and placed at least 100' from the nearest surface hole on the pad.
- Completions/Recompletions Operations:
 - Flowback operations will not commence until connected to a properly sized gas gathering system.
 - During initial flowback wells are routed to the separation equipment as soon as technically feasible to minimize gas waste.
 - During separation flowback wells are routed to the separation equipment to minimize gas waste.
 - Gas sales is maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - Flares are properly sized with a continuous pilot.
- Production Operations:
 - Gas sales will be maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- Performance Standards:
 - The facility will be designed to handle peak production rates and pressures.
 - o All tanks will have automatic gauging equipment.
 - Flares will be designed to ensure proper combustion and will have continuous pilots. Flares will be located 100' from nearest surface hole on the pad and storage tanks.
 - Weekly AVOs will be performed, and any leaking thief hatches will be cleaned and properly re-sealed.



- Measurement and Calibration:
 - o All volume that is flared and vented that is not measured will be estimated.
 - When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
 - Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices to minimize vent.

Carnival Mid NGMP Map

Sep 2021 - Capacities reflected are FME's understanding of Lucid's system capacity

