<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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101 August 1, 2011

Permit 370901

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE							
1. Operator Name and Address	2. OGRID Number						
Franklin Mountain Energy 3, LLC	331595						
44 Cook Street	3. API Number						
Denver, CO 80206	30-025-53344						

Denver, CO 80206 4. Property Code 5. Property Name 6. Well No. 336097 ROPE STATE COM 604H

7. Surface Location

UL - Lot Section		Section	Township	Range	Lot Idn Feet From		N/S Line	Feet From	E/W Line	County		
	Р	30	18S	35E	Р	338	S	1133	E	Lea		

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
Α	18	18S	35E	Α	100	N	925	E	Lea

9. Pool Information

W	/C-025 G-06 S183518A;BONE SPRING	97930
Al	IRSTRIP:BONE SPRING	960

Additional Well Information

11. Work Type	ž		13. Cable/Rotary 14. Lease Type		
New Well	OIL		State	3939	
16. Multiple	· · · · · · · · · · · · · · · · · · ·		19. Contractor	20. Spud Date	
Y	25844	Bone Spring		5/15/2025	
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water	

☑ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

	ziii iopooda dadiiig and domonti i ogiam										
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC					
Surf	17.5	13.375	54.5	1949	1491	0					
Int1	12.25	9.625	40	4134	867	0					
Prod	8.75	7	32	9790	466	3134					
Prod	8.75	5.5	20	25844	4005	9790					

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

22.110 pecca Blowcatt Tovoltani Trogram										
Туре	Working Pressure	Test Pressure	Manufacturer							
Double Ram	10000	5000	CACTUS							

knowledge and b	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	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:	8/6/2024	Expiration Date: 8/6/2026	
Date:	7/31/2024	Phone: 303-570-4057	Conditions of Approval Attached			

<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 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

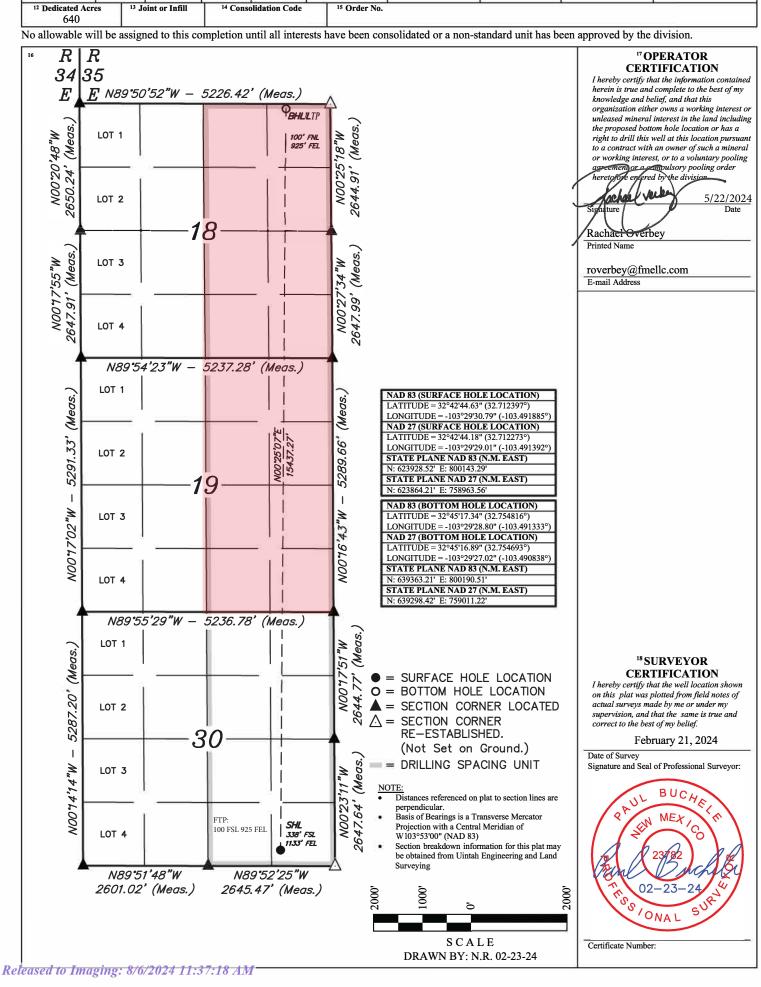
¹ API Number	r	² Pool Code	³ Pool Name								
		97930	WC-025 G-06 S183518A, BONE SPRING								
4 Property Code		5 Pr	operty Name	6 Well Number							
		ROPE	STATE COM	604H							
7 OGRID No.		8 O _I	perator Name	9 Elevation							
331595		FRANKLIN MOU	JNTAIN ENERGY 3, LLC	3939.1'							

Surface Location

	UL or lot no. P	Section 30	Township 18S	Range 35E	Lot Idn	Feet from the 338	North/South line SOUTH	Feet from the 1133	East/West line EAST	County LEA
--	--------------------	---------------	-----------------	--------------	---------	-------------------	---------------------------	--------------------	------------------------	---------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Secti 18	5 I	Township 18S	Range 35E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 925	East/West line EAST	County LEA
12 Dedicated Acro 640	es	¹³ J ₀	int or Infill	14 Conso	lidation Code	15 Order No.			2	



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 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

<u>District IV</u> 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

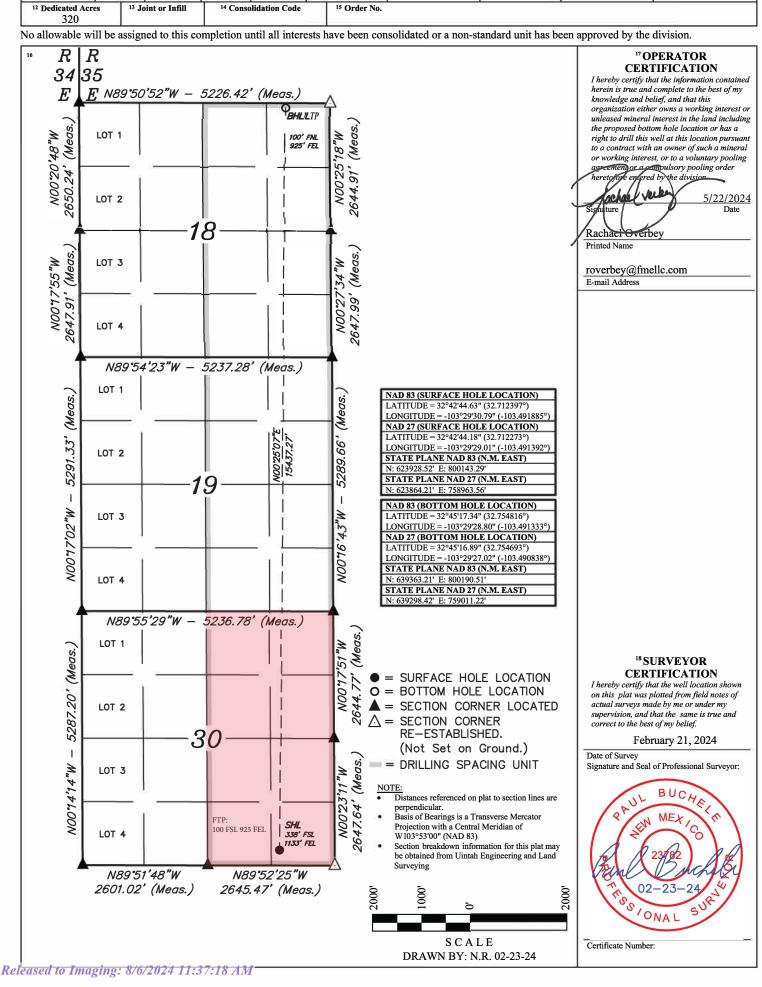
¹ API Number	•	² Pool Code 960	RIP, BONE SPRING		
⁴ Property Code			Property Name 6 Well Number E STATE COM 604H		
⁷ OGRID No. 331595			perator Name JNTAIN ENERGY 3, LLC	⁹ Elevation 3939.1'	

¹⁰ Surface Location

UL or lot no.	Section 30	Township 18S	Range 35E	Lot Idn	338	SOUTH	1133	East/West line EAST	LEA
		•		•		•			

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Secti 18	·	Township 18S	Range 35E	Lot Idn	Fo	eet from the 100	North/South line NORTH	Feet from the 925	East/West line EAST	County LEA
12 Dedicated Acre 320	es	¹³ Jo	int or Infill	¹⁴ Conso	lidation Code		15 Order No.	17		*	



Permit 370901

Form APD Conditions

<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

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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 3, LLC [331595]	30-025-53344
44 Cook Street	Well:
Denver, CO 80206	ROPE STATE COM #604H

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	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)
Rope East Pad
(03) Rope State Com 604H - Slot (03) RPSC 604H

604H

Plan: APD-Rev01

Standard Planning Report - Geographic

13 March, 2024



TVD Reference:

MD Reference:

North Reference:

TZ USA 17.2 Database:

Franklin Mountain Energy LLC Company: PV_Lea County, NM(N83-NME3001) Project:

Site: Rope East Pad

Well: (03) Rope State Com 604H

604H Wellbore: APD-Rev01 Design:

Local Co-ordinate Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Minimum Curvature

Project PV_Lea County, NM(N83-NME3001)

Map System: US State Plane 1983 System Datum: Mean Sea Level

North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone:

Site Rope East Pad

Site Position: Northing: 623,928.29 usft Latitude: 32.71239770 From: Easting: 800,083.30 usft Longitude: -103.49208046 Мар

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well (03) Rope State Com 604H - Slot (03) RPSC 604H

32.71239702 **Well Position** +N/-S 0.00 usft Northing: 623,928.52 usft Latitude:

+E/-W 0.00 usft -103.49188543 Easting: 800,143.29 usft Longitude: **Position Uncertainty** 0.00 usft Wellhead Elevation: Ground Level: 3,939.00 usft

Grid Convergence: 0.45°

604H Wellbore

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 3/11/2024 6.22 60.26 47,500.42603964

APD-Rev01 Design **Audit Notes:** 0.00 Version: Phase: PLAN Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 359.41

3/12/2024 **Plan Survey Tool Program** Date

Depth From Depth To

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

0.00 25,844.15 APD-Rev01 (604H) MWD+IFR1+MS 1

OWSG MWD + IFR1 + Multi-S



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

lan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
1,834.72	5.02	144.35	1,834.29	-11.91	8.54	1.50	1.50	0.00	144.35	
5,513.11	5.02	144.35	5,498.56	-273.50	196.18	0.00	0.00	0.00	0.00	
6,015.18	0.00	0.00	6,000.00	-291.36	208.99	1.00	-1.00	0.00	180.00	
9,790.22	0.00	0.00	9,775.04	-291.36	208.99	0.00	0.00	0.00	0.00	
10,690.22	90.00	359.41	10,348.00	281.57	203.10	10.00	10.00	-0.07	359.41	
25,844.15	90.00	359.41	10,348.00	15,434.69	47.22	0.00	0.00	0.00	0.00	02-PBHL(RPSC-604



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Design.		itevoi							
Planned Survey	,								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.00			0.00			000 000 50	000 440 00		_
0.00		0.00	0.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
30.00		0.00	30.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
	c Alluvium (sı		400.00	0.00	0.00	200 200 50	000 440 00	00.74000700	100 10100510
100.00		0.00	100.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
200.00	0.00	0.00	200.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
300.00		0.00	300.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
400.00		0.00	400.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
500.00		0.00	500.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
600.00		0.00	600.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
700.00		0.00	700.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
800.00		0.00	800.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
900.00		0.00	900.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
1,000.00	0.00	0.00	1,000.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
1,100.00 1,200.00		0.00 0.00	1,100.00 1,200.00	0.00 0.00	0.00 0.00	623,928.52 623,928.52	800,143.29 800,143.29	32.71239702 32.71239702	-103.49188543 -103.49188543
1		0.00		0.00				32.71239702	
1,300.00 1,400.00		0.00	1,300.00 1,400.00	0.00	0.00 0.00	623,928.52 623,928.52	800,143.29 800,143.29	32.71239702	-103.49188543 -103.49188543
1,500.00		0.00	1,500.00	0.00	0.00	623,928.52	800,143.29	32.71239702	-103.49188543
1,600.00		144.35	1,500.00	-1.06	0.76	623,927.46	800,143.29	32.71239408	-103.49188297
1,700.00		144.35	1,699.91	-4.25	3.05	623,924.27	800,146.34	32.71238527	-103.49187562
1,800.00		144.35	1,799.69	-9.57	6.86	623,918.96	800,150.15	32.71237058	-103.49186336
1,834.72		144.35	1,834.29	-11.91	8.54	623,916.61	800,151.83	32.71236411	-103.49185796
1,898.67		144.35	1,898.00	-16.46	11.80	623,912.07	800,155.09	32.71235154	-103.49184747
Rustler	0.02	111.00	1,000.00	10.10	11.00	020,012.01	000,100.00	02.7 1200101	100.10101111
1,900.00	5.02	144.35	1,899.32	-16.55	11.87	623,911.97	800,155.16	32.71235127	-103.49184726
2,000.00		144.35	1,998.94	-23.66	16.97	623,904.86	800,160.26	32.71233162	-103.49183086
2,100.00		144.35	2,098.55	-30.77	22.07	623,897.75	800,165.36	32.71231196	-103.49181446
2,200.00		144.35	2,198.17	-37.89	27.18	623,890.64	800,170.46	32.71229231	-103.49179806
2,226.93		144.35	2,225.00	-39.80	28.55	623,888.72	800,171.84	32.71228701	-103.49179364
Salado						•	•		
2,300.00	5.02	144.35	2,297.79	-45.00	32.28	623,883.53	800,175.56	32.71227265	-103.49178166
2,400.00		144.35	2,397.40	-52.11	37.38	623,876.41	800,180.67	32.71225299	-103.49176526
2,500.00		144.35	2,497.02	-59.22	42.48	623,869.30	800,185.77	32.71223334	-103.49174886
2,600.00		144.35	2,596.64	-66.33	47.58	623,862.19	800,190.87	32.71221368	-103.49173246
2,700.00		144.35	2,696.25	-73.44	52.68	623,855.08	800,195.97	32.71219402	-103.49171606
2,800.00	5.02	144.35	2,795.87	-80.55	57.78	623,847.97	800,201.07	32.71217437	-103.49169966
2,900.00	5.02	144.35	2,895.48	-87.67	62.88	623,840.86	800,206.17	32.71215471	-103.49168326
3,000.00	5.02	144.35	2,995.10	-94.78	67.98	623,833.75	800,211.27	32.71213505	-103.49166686
3,100.00	5.02	144.35	3,094.72	-101.89	73.08	623,826.63	800,216.37	32.71211540	-103.49165046
3,200.00	5.02	144.35	3,194.33	-109.00	78.19	623,819.52	800,221.47	32.71209574	-103.49163406
3,201.67	5.02	144.35	3,196.00	-109.12	78.27	623,819.40	800,221.56	32.71209541	-103.49163379
Base Sa	lt								
3,300.00	5.02	144.35	3,293.95	-116.11	83.29	623,812.41	800,226.57	32.71207609	-103.49161766
3,400.00	5.02	144.35	3,393.57	-123.22	88.39	623,805.30	800,231.68	32.71205643	-103.49160126
3,500.00	5.02	144.35	3,493.18	-130.33	93.49	623,798.19	800,236.78	32.71203677	-103.49158486
3,559.04	5.02	144.35	3,552.00	-134.53	96.50	623,793.99	800,239.79	32.71202517	-103.49157518
Yates									
3,600.00	5.02	144.35	3,592.80	-137.45	98.59	623,791.08	800,241.88	32.71201712	-103.49156846
3,700.00	5.02	144.35	3,692.41	-144.56	103.69	623,783.97	800,246.98	32.71199746	-103.49155206
3,800.00		144.35	3,792.03	-151.67	108.79	623,776.85	800,252.08	32.71197780	-103.49153566
3,900.00		144.35	3,891.65	-158.78	113.89	623,769.74	800,257.18	32.71195815	-103.49151927
3,933.48	5.02	144.35	3,925.00	-161.16	115.60	623,767.36	800,258.89	32.71195157	-103.49151377
Seven R	ivers								



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Design:	APD-	Rev01							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,000.00	5.02	144.35	3,991.26	-165.89	118.99	623,762.63	800,262.28	32.71193849	-103.49150287
4,100.00	5.02	144.35	4,090.88	-173.00	124.09	623,755.52	800,267.38	32.71191883	-103.49148647
4,200.00	5.02	144.35	4,190.50	-180.12	129.20	623,748.41	800,272.48	32.71189918	-103.49147007
4,300.00	5.02	144.35	4,290.11	-187.23	134.30	623,741.30	800,277.58	32.71187952	-103.49145367
4,400.00	5.02	144.35	4,389.73	-194.34	139.40	623,734.19	800,282.68	32.71185986	-103.49143727
4,500.00	5.02	144.35	4,489.35	-201.45	144.50	623,727.07	800,287.79	32.71184021	-103.49142087
4,600.00	5.02	144.35	4,588.96	-208.56	149.60	623,719.96	800,292.89	32.71182055	-103.49140447
4,700.00	5.02	144.35	4,688.58	-215.67	154.70	623,712.85	800,297.99	32.71180090	-103.49138807
4,719.50	5.02	144.35	4,708.00	-217.06	155.69	623,711.47	800,298.98	32.71179706	-103.49138487
Queen									
4,800.00	5.02	144.35	4,788.19	-222.78	159.80	623,705.74	800,303.09	32.71178124	-103.49137167
4,900.00	5.02	144.35	4,887.81	-229.90	164.90	623,698.63	800,308.19	32.71176158	-103.49135527
5,000.00	5.02	144.35	4,987.43	-237.01	170.00	623,691.52	800,313.29	32.71174193	-103.49133887
5,100.00	5.02	144.35	5,087.04	-244.12	175.10	623,684.41	800,318.39	32.71172227	-103.49132247
5,200.00	5.02	144.35	5,186.66	-251.23	180.20	623,677.29	800,323.49	32.71170261	-103.49130607
5,300.00	5.02	144.35	5,286.28	-258.34	185.31	623,670.18	800,328.59	32.71168296	-103.49128967
5,400.00	5.02	144.35	5,385.89	-265.45	190.41	623,663.07	800,333.69	32.71166330	-103.49127327
5,500.00	5.02	144.35	5,485.51	-272.56	195.51	623,655.96	800,338.80	32.71164364	-103.49125687
5,513.11	5.02	144.35	5,498.56	-273.50	196.18	623,655.03	800,339.46	32.71164107	-103.49125473
5,600.00	4.15	144.35	5,585.18	-279.14	200.23	623,649.38	800,343.51	32.71162546	-103.49124171
5,700.00	3.15	144.35	5,684.97	-284.32	203.94	623,644.21	800,347.23	32.71161116	-103.49122977
5,800.00	2.15	144.35	5,784.87	-288.08	206.64	623,640.45	800,349.92	32.71160077	-103.49122110
5,900.00	1.15	144.35	5,884.82	-290.42	208.32	623,638.10	800,351.60	32.71159429	-103.49121570
6,000.00	0.15 0.00	144.35	5,984.82 6,000.00	-291.34 -291.36	208.98 208.99	623,637.18	800,352.27 800,352.28	32.71159174	-103.49121357
6,015.18 6,025.18	0.00	0.00 0.00	6,010.00	-291.36	208.99	623,637.16 623,637.16	800,352.28	32.71159169 32.71159169	-103.49121353 -103.49121353
·	Mtn Group	0.00	0,010.00	-291.30	200.99	023,037.10	000,332.20	32.7 1139109	-100.49121333
6,100.00	0.00	0.00	6,084.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,200.00	0.00	0.00	6,184.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,300.00	0.00	0.00	6,284.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,400.00	0.00	0.00	6,384.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,500.00	0.00	0.00	6,484.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,600.00	0.00	0.00	6,584.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,700.00	0.00	0.00	6,684.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,800.00	0.00	0.00	6,784.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
6,900.00	0.00	0.00	6,884.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,000.00	0.00	0.00	6,984.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,100.00	0.00	0.00	7,084.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,200.00	0.00	0.00	7,184.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,300.00	0.00	0.00	7,284.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,400.00	0.00	0.00	7,384.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,500.00	0.00	0.00	7,484.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,600.00	0.00	0.00	7,584.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,616.18	0.00	0.00	7,601.00	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
Bone Spr	ring Lime								
7,700.00	0.00	0.00	7,684.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,800.00	0.00	0.00	7,784.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
7,900.00	0.00	0.00	7,884.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
8,000.00	0.00	0.00	7,984.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
8,100.00	0.00	0.00	8,084.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
8,200.00	0.00	0.00	8,184.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
8,300.00	0.00	0.00	8,284.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
8,400.00	0.00	0.00	8,384.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

8,800.00 0.00 0.00 8,584.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,800.00 0.00 0.00 8,784.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,000.00 0.00 0.00 8,884.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,100.00 0.00 0.00 0.00 8,884.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,100.00 0.00 0.00 0.00 9,084.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,100.00 0.00 0.00 0.00 9,184.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,200.00 0.00 0.00 0.00 9,184.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,300.00 0.00 0.00 0.00 9,284.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,300.00 0.00 0.00 0.00 9,284.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,300.00 0.00 0.00 0.00 9,284.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,300.00 0.00 0.00 0.00 9,384.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,400.00 0.00 0.00 0.00 9,484.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 0.00 9,484.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,484.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,647.00 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,647.00 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,848.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,848.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,848.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 9,848.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 0.00 9,848.82 291.82 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 0.00 9,848.82 291.82 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 8,500.00 0.00 0.00 0.00 0.00 9,848.82 290.82 208.9										
Depth Inclination Azimuth Depth HV-S 4E/W Northing Easting Latitude Longitude	Planned Survey									
8,800.00 0.00 0.00 8,584.82 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 8,800.00 0.00 0.00 8,784.62 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,000.00 0.00 0.00 8,884.62 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,100.00 0.00 0.00 8,884.62 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,100.00 0.00 0.00 0.00 9,084.62 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,100.00 0.00 0.00 0.00 9,184.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,200.00 0.00 0.00 0.00 9,184.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,300.00 0.00 0.00 0.00 9,284.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,300.00 0.00 0.00 0.00 9,284.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,374.18 0.00 0.00 0.00 9,384.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 0.00 9,384.82 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,484.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,484.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,484.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,844.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 9,844.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 9,844.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 9,844.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 9,844.62 291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 9,844.62 291.86 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 0.00 9,844.62 291.86 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,662.18 0.00 0.00 0.00 9,844.62 291.86 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,700.00 0.00 0.00 0.00 9,844.62 291.86 208.99 623.637.16 800.352	Depth			Depth			Northing	Easting	Latitude	Longitude
8,600.00 0.00 0.00 8,584.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 8,800.00 0.00 0.00 8,784.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,000.00 0.00 0.00 8,884.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,000.00 0.00 0.00 0.00 8,884.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,100.00 0.00 0.00 0.00 9,084.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,100.00 0.00 0.00 0.00 9,184.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,200.00 0.00 0.00 0.00 9,184.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,300.00 0.00 0.00 0.00 9,284.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,300.00 0.00 0.00 0.00 9,284.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,374.18 0.00 0.00 9,399.00 291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,374.18 0.00 0.00 9,384.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,400.00 0.00 0.00 9,484.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,484.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,484.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,500.00 0.00 0.00 9,684.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 9,684.82 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 9,845.20 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 9,845.20 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 9,845.20 -291.36 208.99 623.837.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 9,845.20 -291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 0.00 9,845.20 -291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 0.00 9,845.20 -291.36 208.99 623.637.16 800.352.28 32.71159169 -103.49121. 9,602.18 0.00 0.00 0.00 0.00 9,845.20 -291.36 208	8,500.00	0.00	0.00	8,484.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
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Page	9,000.00	0.00	0.00	8,984.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
First Bone Spring Sand 9,200.00	9,100.00	0.00	0.00	9,084.82	-291.36	208.99	623,637.16	800,352.28	32.71159169	-103.49121353
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100FLL: 10051.13' MD/ -235.11' VS/10027.02' TVD 10,100.00										-103.49121397
10,100.00 30.98 359.41 10,069.94 -209.64 208.15 623,718.88 800,351.44 32.71181630 -103.491214 10,150.00 35.98 359.41 10,111.63 -182.07 207.87 623,746.45 800,351.15 32.71189208 -103.491214 10,200.00 40.98 359.41 10,150.76 -150.97 207.55 623,777.55 800,350.83 32.71197756 -103.491214 10,249.95 45.97 359.41 10,187.00 -116.62 207.19 623,811.90 800,350.48 32.71207199 -103.491214 10,250.00 45.98 359.41 10,187.04 -116.58 207.19 623,811.94 800,350.48 32.71207209 -103.491214 10,268.86 47.86 359.41 10,199.92 -102.81 207.05 623,825.71 800,350.34 32.71207209 -103.491214 10,300.00 50.98 359.41 10,220.17 -79.16 206.81 623,849.36 800,350.10 32.71217494 -103.491215 10,350.00 55.98 359.41 10,249.92 -39.00 206.39 623,889.53 800,349.68 32.71228534 -103.491215 10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491215 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.712252537 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.712252537 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,550.00 70.98 359.41 10,316.71 94.83 205.00 623,976.86 800,348.78 32.71252537 -103.491216 10,550.00 70.98 359.41 10,316.71 94.83 205.00 624,023.35 800,348.81 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,5					-232.98	208.39	623,695.55	800,351.68	32.71175216	-103.49121397
10,150.00 35.98 359.41 10,111.63 -182.07 207.87 623,746.45 800,351.15 32.71189208 -103.491214 10,200.00 40.98 359.41 10,150.76 -150.97 207.55 623,777.55 800,350.83 32.71197756 -103.491214 10,249.95 45.97 359.41 10,187.00 -116.62 207.19 623,811.90 800,350.48 32.71207199 -103.491214 10,250.00 45.98 359.41 10,187.04 -116.58 207.19 623,811.94 800,350.48 32.71207209 -103.491214 10,268.86 47.86 359.41 10,199.92 -102.81 207.05 623,825.71 800,350.34 32.71207209 -103.491214 10,300.00 50.98 359.41 10,220.17 -79.16 206.81 623,849.36 800,350.10 32.71217494 -103.491215 10,350.00 55.98 359.41 10,249.92 -39.00 206.39 623,889.53 800,349.68 32.71228534 -103.491215 10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491215 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216										
10,200.00										
10,249.95										
Third Bone Spring Carbonate 10,250.00										
10,250.00	-,			10, 107.00	-110.02	207.13	023,011.90	000,000.40	32.7 1207 199	-100.43121400
10,268.86				10 187 04	-116 58	207 19	623 811 94	800 350 48	32 71207209	-103 49121486
01-T98(RPSC-604H) 10,300.00 50.98 359.41 10,220.17 -79.16 206.81 623,849.36 800,350.10 32.71217494 -103.491218 10,350.00 55.98 359.41 10,249.92 -39.00 206.39 623,889.53 800,349.68 32.71228534 -103.491218 10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491218 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491218 Third Bone Spring Sand 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81	,									-103.49121497
10,300.00 50.98 359.41 10,220.17 -79.16 206.81 623,849.36 800,350.10 32.71217494 -103.491215 10,350.00 55.98 359.41 10,249.92 -39.00 206.39 623,889.53 800,349.68 32.71228534 -103.491215 10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491215 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 Third Bone Spring Sand 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216				,			,			
10,350.00 55.98 359.41 10,249.92 -39.00 206.39 623,889.53 800,349.68 32.71228534 -103.491215 10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491215 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216	•	,	359.41	10,220.17	-79.16	206.81	623,849.36	800,350.10	32.71217494	-103.49121515
10,400.00 60.98 359.41 10,276.05 3.61 205.96 623,932.13 800,349.24 32.71240245 -103.491215 10,439.48 64.93 359.41 10,294.00 38.76 205.59 623,967.29 800,348.88 32.71249907 -103.491216 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216				,			,			-103.49121545
Third Bone Spring Sand 10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216									32.71240245	-103.49121578
10,450.00 65.98 359.41 10,298.37 48.33 205.50 623,976.86 800,348.78 32.71252537 -103.491216 10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216	10,439.48	64.93	359.41	10,294.00	38.76	205.59	623,967.29	800,348.88	32.71249907	-103.49121604
10,500.00 70.98 359.41 10,316.71 94.83 205.02 624,023.35 800,348.31 32.71265318 -103.491216 10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216	Third Bo	ne Spring Sa	nd							
10,550.00 75.98 359.41 10,330.92 142.75 204.52 624,071.27 800,347.81 32.71278488 -103.491216										-103.49121612
										-103.49121647
10,000.00 80.98 359.41 10,340.91 191.72 204.02 624,120.24 800,347.31 32.71291949 -103.49121	,									-103.49121684
40 650 00 05 00 050 44 40 046 50 044 20 000 54 004 400 00 000 046 00 00 74005500 400 40404										-103.49121721
	,									-103.49121759 -103.49121789
						203.10	024,210.09	000,340.30	32.1 13 10043	-103.49121/89
EOC: 10690.22' MD/ 279.46' VS/10348.00' TVD - HZ Target 10,700.00 90.00 359.41 10,348.00 291.34 203.00 624,219.87 800,346.28 32.71319332 -103.491217						203 00	624 210 97	800 346 38	32 71210222	-103.49121797
										-103.49121873
	,									-103.49121949



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.00	90.00	359.41	10,348.00	591.33	199.91	624,519.85	800,343.20	32.71401786	-103.49122025
11,100.00	90.00	359.41	10,348.00	691.32	198.88	624,619.85	800,342.17	32.71429271	-103.49122102
11,200.00	90.00	359.41	10,348.00	791.32	197.85	624,719.84	800,341.14	32.71456756	-103.49122178
11,300.00	90.00	359.41	10,348.00	891.31	196.82	624,819.83	800,340.11	32.71484240	-103.49122254
11,400.00	90.00	359.41	10,348.00	991.31	195.80	624,919.83	800,339.08	32.71511725	-103.49122330
11,500.00	90.00	359.41	10,348.00	1,091.30	194.77	625,019.82	800,338.05	32.71539210	-103.49122406
11,600.00	90.00	359.41	10,348.00	1,191.29	193.74	625,119.82	800,337.03	32.71566695	-103.49122482
11,700.00	90.00	359.41	10,348.00	1,291.29	192.71	625,219.81	800,336.00	32.71594179	-103.49122559
11,800.00	90.00	359.41	10,348.00	1,391.28	191.68	625,319.81	800,334.97	32.71621664	-103.49122635
11,900.00	90.00	359.41	10,348.00	1,491.28	190.65	625,419.80	800,333.94	32.71649149	-103.49122711
12,000.00	90.00	359.41	10,348.00	1,591.27	189.62	625,519.80	800,332.91	32.71676633	-103.49122787
12,100.00	90.00	359.41	10,348.00	1,691.27	188.60	625,619.79	800,331.88	32.71704118	-103.49122863
12,200.00	90.00	359.41	10,348.00	1,791.26	187.57	625,719.79	800,330.85	32.71731603	-103.49122939
12,300.00	90.00	359.41	10,348.00	1,891.26	186.54	625,819.78	800,329.83	32.71759088	-103.49123015
12,400.00	90.00	359.41	10,348.00	1,991.25	185.51	625,919.78	800,328.80	32.71786572	-103.49123092
12,500.00	90.00	359.41	10,348.00	2,091.25	184.48	626,019.77	800,327.77	32.71814057	-103.49123168
12,600.00	90.00	359.41	10,348.00	2,191.24	183.45	626,119.77	800,326.74	32.71841542	-103.49123244
12,700.00	90.00	359.41	10,348.00	2,291.24	182.42	626,219.76	800,325.71	32.71869027	-103.49123320
12,800.00	90.00	359.41	10,348.00	2,391.23	181.39	626,319.76	800,324.68	32.71896511	-103.49123396
12,900.00	90.00	359.41	10,348.00	2,491.23	180.37	626,419.75	800,323.65	32.71923996	-103.49123472
13,000.00	90.00	359.41	10,348.00	2,591.22	179.34	626,519.74	800,322.63	32.71951481	-103.49123548
13,100.00	90.00	359.41	10,348.00	2,691.22	178.31	626,619.74	800,321.60	32.71978965	-103.49123625
13,200.00	90.00	359.41	10,348.00	2,791.21	177.28	626,719.73	800,320.57	32.72006450	-103.49123701
13,300.00 13,400.00	90.00 90.00	359.41 359.41	10,348.00 10,348.00	2,891.20 2,991.20	176.25 175.22	626,819.73 626,919.72	800,319.54 800,318.51	32.72033935 32.72061420	-103.49123777 -103.49123853
13,500.00	90.00	359.41	10,348.00	3,091.19	173.22	627,019.72	800,317.48	32.72088904	-103.49123929
13,600.00	90.00	359.41	10,348.00	3,191.19	174.19	627,119.71	800,316.45	32.72116389	-103.49124005
13,700.00	90.00	359.41	10,348.00	3,191.19	173.17	627,219.71	800,315.43	32.72110309	-103.49124081
13,800.00	90.00	359.41	10,348.00	3,391.18	172.14	627,319.70	800,314.40	32.72171358	-103.49124157
13,900.00	90.00	359.41	10,348.00	3,491.17	170.08	627,419.70	800,313.37	32.72171338	-103.49124234
14,000.00	90.00	359.41	10,348.00	3,591.17	169.05	627,519.69	800,312.34	32.72226328	-103.49124310
14,100.00	90.00	359.41	10,348.00	3,691.16	168.02	627,619.69	800,311.31	32.72253812	-103.49124386
14,200.00	90.00	359.41	10,348.00	3,791.16	166.99	627,719.68	800,310.28	32.72281297	-103.49124462
14,300.00	90.00	359.41	10,348.00	3,891.15	165.97	627,819.68	800,309.25	32.72308782	-103.49124538
14,400.00	90.00	359.41	10,348.00	3,991.15	164.94	627,919.67	800,308.22	32.72336267	-103.49124614
14,500.00	90.00	359.41	10,348.00	4,091.14	163.91	628,019.67	800,307.20	32.72363751	-103.49124690
14,600.00	90.00	359.41	10,348.00	4,191.14	162.88	628,119.66	800,306.17	32.72391236	-103.49124766
14,700.00	90.00	359.41	10,348.00	4,291.13	161.85	628,219.65	800,305.14	32.72418721	-103.49124842
14,800.00	90.00	359.41	10,348.00	4,391.13	160.82	628,319.65	800,304.11	32.72446205	-103.49124919
14,900.00	90.00	359.41	10,348.00	4,491.12	159.79	628,419.64	800,303.08	32.72473690	-103.49124995
15,000.00	90.00	359.41	10,348.00	4,591.12	158.77	628,519.64	800,302.05	32.72501175	-103.49125071
15,100.00	90.00	359.41	10,348.00	4,691.11	157.74	628,619.63	800,301.02	32.72528659	-103.49125147
15,200.00	90.00	359.41	10,348.00	4,791.10	156.71	628,719.63	800,300.00	32.72556144	-103.49125223
15,300.00	90.00	359.41	10,348.00	4,891.10	155.68	628,819.62	800,298.97	32.72583629	-103.49125299
15,400.00	90.00	359.41	10,348.00	4,991.09	154.65	628,919.62	800,297.94	32.72611114	-103.49125375
15,500.00	90.00	359.41	10,348.00	5,091.09	153.62	629,019.61	800,296.91	32.72638598	-103.49125451
15,600.00	90.00	359.41	10,348.00	5,191.08	152.59	629,119.61	800,295.88	32.72666083	-103.49125527
15,700.00	90.00	359.41	10,348.00	5,291.08	151.56	629,219.60	800,294.85	32.72693568	-103.49125603
15,800.00	90.00	359.41	10,348.00	5,391.07	150.54	629,319.60	800,293.82	32.72721052	-103.49125680
15,900.00	90.00	359.41	10,348.00	5,491.07	149.51	629,419.59	800,292.80	32.72748537	-103.49125756
16,000.00	90.00	359.41	10,348.00	5,591.06	148.48	629,519.59	800,291.77	32.72776022	-103.49125832
16,100.00	90.00	359.41	10,348.00	5,691.06	147.45	629,619.58	800,290.74	32.72803506	-103.49125908
16,200.00	90.00	359.41	10,348.00	5,791.05	146.42	629,719.58	800,289.71	32.72830991	-103.49125984
16,300.00	90.00	359.41	10,348.00	5,891.05	145.39	629,819.57	800,288.68	32.72858476	-103.49126060



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Design:	APD-	Rev01							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,400.00	90.00	359.41	10,348.00	5,991.04	144.36	629,919.56	800,287.65	32.72885960	-103.49126136
16,500.00	90.00	359.41	10,348.00	6,091.04	143.34	630,019.56	800,286.62	32.72913445	-103.49126212
16,600.00	90.00	359.41	10,348.00	6,191.03	142.31	630,119.55	800,285.60	32.72940930	-103.49126288
16,700.00	90.00	359.41	10,348.00	6,291.03	141.28	630,219.55	800,284.57	32.72968414	-103.49126364
16,800.00	90.00	359.41	10,348.00	6,391.02	140.25	630,319.54	800,283.54	32.72995899	-103.49126440
16,900.00	90.00	359.41	10,348.00	6,491.01	139.22	630,419.54	800,282.51	32.73023384	-103.49126517
17,000.00	90.00	359.41	10,348.00	6,591.01	138.19	630,519.53	800,281.48	32.73050868	-103.49126593
17,100.00	90.00	359.41	10,348.00	6,691.00	137.16	630,619.53	800,280.45	32.73078353	-103.49126669
17,200.00	90.00	359.41	10,348.00	6,791.00	136.14	630,719.52	800,279.42	32.73105838	-103.49126745
17,300.00	90.00	359.41	10,348.00	6,890.99	135.11	630,819.52	800,278.39	32.73133322	-103.49126821
17,400.00 17,500.00	90.00 90.00	359.41 359.41	10,348.00 10,348.00	6,990.99 7,090.98	134.08 133.05	630,919.51 631,019.51	800,277.37 800,276.34	32.73160807 32.73188292	-103.49126897 -103.49126973
17,600.00	90.00	359.41	10,348.00	7,090.98	132.02	631,119.50	800,275.31	32.73215776	-103.49127049
17,700.00	90.00	359.41	10,348.00	7,190.90	130.99	631,219.50	800,274.28	32.73243261	-103.49127125
17,800.00	90.00	359.41	10,348.00	7,390.97	129.96	631,319.49	800,273.25	32.73270746	-103.49127201
17,900.00	90.00	359.41	10,348.00	7,490.96	128.94	631,419.49	800,272.22	32.73298230	-103.49127277
18,000.00	90.00	359.41	10,348.00	7,590.96	127.91	631,519.48	800,271.19	32.73325715	-103.49127353
18,100.00	90.00	359.41	10,348.00	7,690.95	126.88	631,619.48	800,270.17	32.73353200	-103.49127429
18,200.00	90.00	359.41	10,348.00	7,790.95	125.85	631,719.47	800,269.14	32.73380684	-103.49127505
18,300.00	90.00	359.41	10,348.00	7,890.94	124.82	631,819.46	800,268.11	32.73408169	-103.49127581
18,400.00	90.00	359.41	10,348.00	7,990.94	123.79	631,919.46	800,267.08	32.73435654	-103.49127658
18,500.00	90.00	359.41	10,348.00	8,090.93	122.76	632,019.45	800,266.05	32.73463138	-103.49127734
18,600.00	90.00	359.41	10,348.00	8,190.92	121.73	632,119.45	800,265.02	32.73490623	-103.49127810
18,700.00	90.00	359.41	10,348.00	8,290.92	120.71	632,219.44	800,263.99	32.73518108	-103.49127886
18,800.00	90.00	359.41	10,348.00	8,390.91	119.68	632,319.44	800,262.97	32.73545592	-103.49127962
18,900.00	90.00	359.41	10,348.00	8,490.91	118.65	632,419.43	800,261.94	32.73573077	-103.49128038
19,000.00	90.00	359.41	10,348.00	8,590.90	117.62	632,519.43	800,260.91	32.73600562	-103.49128114
19,100.00	90.00	359.41	10,348.00	8,690.90	116.59	632,619.42	800,259.88	32.73628046	-103.49128190
19,200.00	90.00	359.41	10,348.00	8,790.89	115.56	632,719.42	800,258.85	32.73655531	-103.49128266
19,300.00	90.00	359.41	10,348.00	8,890.89	114.53	632,819.41	800,257.82	32.73683015	-103.49128342
19,400.00	90.00	359.41	10,348.00	8,990.88	113.51	632,919.41	800,256.79	32.73710500	-103.49128418
19,500.00	90.00	359.41	10,348.00	9,090.88	112.48	633,019.40	800,255.77	32.73737985	-103.49128494
19,600.00	90.00 90.00	359.41 359.41	10,348.00	9,190.87	111.45 110.42	633,119.40	800,254.74 800,253.71	32.73765469	-103.49128570
19,700.00 19,800.00	90.00	359.41	10,348.00 10,348.00	9,290.87 9,390.86	109.39	633,219.39 633,319.39	800,252.68	32.73792954 32.73820439	-103.49128646 -103.49128722
19,900.00	90.00	359.41	10,348.00	9,490.86	109.39	633,419.38	800,251.65	32.73847923	-103.49128798
20,000.00	90.00	359.41	10,348.00	9,590.85	107.33	633,519.37	800,250.62	32.73875408	-103.49128874
20,100.00	90.00	359.41	10,348.00	9,690.85	106.31	633,619.37	800,249.59	32.73902893	-103.49128950
20,200.00	90.00	359.41	10,348.00	9,790.84	105.28	633,719.36	800,248.56	32.73930377	-103.49129026
20,300.00	90.00	359.41	10,348.00	9,890.83	104.25	633,819.36	800,247.54	32.73957862	-103.49129102
20,400.00	90.00	359.41	10,348.00	9,990.83	103.22	633,919.35	800,246.51	32.73985346	-103.49129178
20,500.00	90.00	359.41	10,348.00	10,090.82	102.19	634,019.35	800,245.48	32.74012831	-103.49129254
20,600.00	90.00	359.41	10,348.00	10,190.82	101.16	634,119.34	800,244.45	32.74040316	-103.49129330
20,700.00	90.00	359.41	10,348.00	10,290.81	100.13	634,219.34	800,243.42	32.74067800	-103.49129406
20,800.00	90.00	359.41	10,348.00	10,390.81	99.11	634,319.33	800,242.39	32.74095285	-103.49129482
20,900.00	90.00	359.41	10,348.00	10,490.80	98.08	634,419.33	800,241.36	32.74122770	-103.49129558
21,000.00	90.00	359.41	10,348.00	10,590.80	97.05	634,519.32	800,240.34	32.74150254	-103.49129634
21,100.00	90.00	359.41	10,348.00	10,690.79	96.02	634,619.32	800,239.31	32.74177739	-103.49129710
21,200.00	90.00	359.41	10,348.00	10,790.79	94.99	634,719.31	800,238.28	32.74205223	-103.49129787
21,300.00	90.00	359.41	10,348.00	10,890.78	93.96	634,819.31	800,237.25	32.74232708	-103.49129863
21,400.00	90.00	359.41	10,348.00	10,990.78	92.93	634,919.30	800,236.22	32.74260193	-103.49129939
21,500.00	90.00	359.41	10,348.00	11,090.77	91.90	635,019.30	800,235.19	32.74287677	-103.49130015
21,600.00	90.00	359.41	10,348.00	11,190.77	90.88	635,119.29	800,234.16	32.74315162	-103.49130091
21,700.00	90.00	359.41	10,348.00	11,290.76	89.85	635,219.28	800,233.14	32.74342647	-103.49130167



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV_Lea County, NM(N83-NME3001)

Site: Rope East Pad

Well: (03) Rope State Com 604H

Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,800.00	90.00	359.41	10,348.00	11,390.76	88.82	635,319.28	800,232.11	32.74370131	-103.49130
21,900.00	90.00	359.41	10,348.00	11,490.75	87.79	635,419.27	800,231.08	32.74397616	-103.49130
22,000.00	90.00	359.41	10,348.00	11,590.74	86.76	635,519.27	800,230.05	32.74425100	-103.4913
22,100.00	90.00	359.41	10,348.00	11,690.74	85.73	635,619.26	800,229.02	32.74452585	-103.4913
22,200.00	90.00	359.41	10,348.00	11,790.73	84.70	635,719.26	800,227.99	32.74480070	-103.4913
22,300.00	90.00	359.41	10,348.00	11,890.73	83.68	635,819.25	800,226.96	32.74507554	-103.4913
22,400.00	90.00	359.41	10,348.00	11,990.72	82.65	635,919.25	800,225.94	32.74535039	-103.4913
22,500.00	90.00	359.41	10,348.00	12,090.72	81.62	636,019.24	800,224.91	32.74562523	-103.4913
22,600.00	90.00	359.41	10,348.00	12,190.71	80.59	636,119.24	800,223.88	32.74590008	-103.4913
22,700.00	90.00	359.41	10,348.00	12,290.71	79.56	636,219.23	800,222.85	32.74617493	-103.4913
22,800.00	90.00	359.41	10,348.00	12,390.70	78.53	636,319.23	800,221.82	32.74644977	-103.4913
22,900.00	90.00	359.41	10,348.00	12,490.70	77.50	636,419.22	800,220.79	32.74672462	-103.4913
23,000.00	90.00	359.41	10,348.00	12,590.69	76.48	636,519.22	800,219.76	32.74699946	-103.4913
23,100.00	90.00	359.41	10,348.00	12,690.69	75.45	636,619.21	800,218.73	32.74727431	-103.4913
23,200.00	90.00	359.41	10,348.00	12,790.68	74.42	636,719.21	800,217.71	32.74754916	-103.4913
23,300.00	90.00	359.41	10,348.00	12,890.68	73.39	636,819.20	800,216.68	32.74782400	-103.4913
23,400.00	90.00	359.41	10,348.00	12,990.67	72.36	636,919.19	800,215.65	32.74809885	-103.4913
23,500.00	90.00	359.41	10,348.00	13,090.67	71.33	637,019.19	800,214.62	32.74837369	-103.4913
23,600.00	90.00	359.41	10,348.00	13,190.66	70.30	637,119.18	800,213.59	32.74864854	-103.4913
23,700.00	90.00	359.41	10,348.00	13,290.65	69.28	637,219.18	800,212.56	32.74892339	-103.4913
23,800.00	90.00	359.41	10,348.00	13,390.65	68.25	637,319.17	800,211.53	32.74919823	-103.4913
23,900.00	90.00	359.41	10,348.00	13,490.64	67.22	637,419.17	800,210.51	32.74947308	-103.4913
24,000.00	90.00	359.41	10,348.00	13,590.64	66.19	637,519.16	800,209.48	32.74974792	-103.4913
24,100.00	90.00	359.41	10,348.00	13,690.63	65.16	637,619.16	800,208.45	32.75002277	-103.4913
24,200.00	90.00	359.41	10,348.00	13,790.63	64.13	637,719.15	800,207.42	32.75029761	-103.4913
24,300.00	90.00	359.41	10,348.00	13,890.62	63.10	637,819.15	800,206.39	32.75057246	-103.4913
24,400.00	90.00	359.41	10,348.00	13,990.62	62.07	637,919.14	800,205.36	32.75084731	-103.4913
24,500.00	90.00	359.41	10,348.00	14,090.61	61.05	638,019.14	800,204.33	32.75112215	-103.4913
24,600.00	90.00	359.41	10,348.00	14,190.61	60.02	638,119.13	800,203.31	32.75139700	-103.4913
24,700.00	90.00	359.41	10,348.00	14,290.60	58.99	638,219.13	800,202.28	32.75167184	-103.4913
24,800.00	90.00	359.41	10,348.00	14,390.60	57.96	638,319.12	800,201.25	32.75194669	-103.4913
24,900.00	90.00	359.41	10,348.00	14,490.59	56.93	638,419.12	800,200.22	32.75222154	-103.4913
25,000.00	90.00	359.41	10,348.00	14,590.59	55.90	638,519.11	800,199.19	32.75249638	-103.4913
25,100.00	90.00	359.41	10,348.00	14,690.58	54.87	638,619.10	800,198.16	32.75277123	-103.4913
25,200.00	90.00	359.41	10,348.00	14,790.58	53.85	638,719.10	800,197.13	32.75304607	-103.4913
25,300.00	90.00	359.41	10,348.00	14,890.57	52.82	638,819.09	800,196.11	32.75332092	-103.4913
25,400.00	90.00	359.41	10,348.00	14,990.57	51.79	638,919.09	800,195.08	32.75359576	-103.4913
25,500.00	90.00	359.41	10,348.00	15,090.56	50.76	639,019.08	800,194.05	32.75387061	-103.4913
25,600.00	90.00	359.41	10,348.00	15,190.55	49.73	639,119.08	800,193.02	32.75414546	-103.4913
25,700.00	90.00	359.41	10,348.00	15,290.55	48.70	639,219.07	800,191.99	32.75442030	-103.4913
25,800.00	90.00	359.41	10,348.00	15,390.54	47.67	639,319.07	800,190.96	32.75469515	-103.4913
25,844.15	90.00	359.41	10,348.00	15,434.69	47.22	639,363.21	800,190.51	32.75481649	-103.4913



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
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Wellbore: 604H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (03) Rope State Com 604H - Slot (03)

RPSC 604H

3939+30 @ 3969.00usft 3939+30 @ 3969.00usft

Grid

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
02-PBHL(RPSC-604H) - plan hits target cent - Point	0.00 er	0.00	10,348.00	15,434.69	47.22	639,363.21	800,190.51	32.75481649	-103.49133315
01-T98(RPSC-604H) - plan misses target of a Point	0.00 center by 197		10,348.00)268.86usft M	-233.93 1D (10199.92	207.66 TVD, -102.81	623,694.60 N, 207.05 E)	800,350.95	32.71174957	-103.49121636

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	30.00	30.00	Cenozoic Alluvium (surface)			
	1,898.67	1,898.00	Rustler			
	2,226.93	2,225.00	Salado			
	3,201.67	3,196.00	Base Salt			
	3,559.04	3,552.00	Yates			
	3,933.48	3,925.00	Seven Rivers			
	4,719.50	4,708.00	Queen			
	6,025.18	6,010.00	Delaware Mtn Group			
	7,616.18	7,601.00	Bone Spring Lime			
	9,166.18	9,151.00	First Bone Spring Sand			
	9,374.18	9,359.00	Second Bone Spring Carbonate			
	9,662.18	9,647.00	Second Bone Spring Sand			
	10,249.95	10,187.00	Third Bone Spring Carbonate			
	10,439.48	10,294.00	Third Bone Spring Sand			
	10,690.22	10,348.00	HZ Target			

Plan Annotations				
Measured Depth	Vertical Depth	Local Coord	dinates +E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
9,790.22	9,775.04	-291.36	208.99	KOP: 9790.22' MD/ -293.50' VS/9775.04' TVD
10,051.13	10,027.02	-232.98	208.39	100FLL: 10051.13' MD/ -235.11' VS/10027.02' TVD
10,690.22	10,348.00	281.56	203.10	EOC: 10690.22' MD/ 279.46' VS/10348.00' TVD
25,844.15	10,348.00	15,434.69	47.22	TD: 25844.15' MD/ 15433.39' VS/10348.00' TVD



Rope State Com 604H

- 1. Geologic name of surface location: Permian
- 2. Estimated tops of important geological markers:

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)		3,969'	3,969'	0	Sand/Gravels/Unconsolidated
Rustler	2,071'	1,898'			Carbonates
Salado	1,744'	2,225'			Salt, Carbonate & Clastics
Base Salt	773'	3,196'			Shaley Carbonate & Shale
Yates	417'	3,552'			Anhydrite/Shale
Seven Rivers	44'	3,925'			Interbedded Shale/Carbonate
Queen	-739'	4,708'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2,041'	6,010'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3,632'	7,601'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,182'	9,151'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,390'	9,359'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-5,679'	9,647'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,218'	10,187'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,325'	10,294'			Sandstone - oil/gas/water
HZ Target	-6,379'	10,348'			Shale/Sand- oil/gas
Wolfcamp	-6,526'	10,495'			Overpressure Shale/Sand- oil/gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,010'	Oil
1 st Bone Spring Sand	9,151'	Oil
2 nd Bone Spring Carb	9,359'	Oil
2 nd Bone Spring Sand	9,647'	Oil
3 rd Bone Spring Sand	10,294'	Oil
Wolfcamp	N/A	Oil
Wolfcamp B	N/A	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 1,949' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new.

Casing string	Weight	/eight Grade	e Burst (Collapse	Tonsion	Conn	Longth	API design factor			
Casing string	weight	Grade	Durst	Collapse	Telision	Com	Length	Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,949	1.01	1.11	4.14	4.41
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,134	2.04	2.19	3.45	3.93
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9,790	1.89	2.35	2.48	2.55
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	16,054 10,348	1.15	1.62	1.52	1.58 2.17



Tapered production string will be ran with a X-over installed at the KOP of 9,790'.

Cementing Program:

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

To increase efficiency of drilling operations and minimize disturbance of the area the batch-drilling approach will be used.

Off-line cementing may be utilized for Surface, Intermediate, and Production strings to further optimization of drilling process and reduction of disturbance.

String	Hole	Cas	ing		Lea	d					1	Tail		ĺ
Type	Size	Size	Setting	Sacks	Type of cmt	Yield	Water	TOC	Sacks	Type of cmt	Yield	Water	TOC	Excess
200			Depth			ft3/sk	gal/sk	ft			ft3/sk	gal/sk		
Surf	17.5	13.375	1,949	1050	85:15 Compass Poz,	2.05	11.12	0	441	Tail, 14.8 ppg,	1.34	6.35	0	100%
					12.8 ppg Class C,					100% Class C,				
					5%Gel,3#/sk Kol					1%CaCl2,				
					Seal, 4.64#/sk Salt					0.1%				
Int1	12.25	9.625	4,134	666	Lead, 11.3 ppg,	2.74	16.31	0	201	Econolite	1.33	6.33	1,266	100%
					HSLD 82					Tail, 14.8 ppg,				
					10% Gel,					100% Class C,				
					4% STE, 2#/sk,					0.08% C-51				
					Gyp Seal									
Prod	8.75	7	9,790	466	HSLD 9420, 10.5	3.99	25.51	3,134						100%
					ppg, Class C, 1#/sk									
					Salt, 4% STE									
					1% C-45									
Prod	8.75	5.5	25,844						4005	HSLD 80,	1.52	7.59	9,790	50%
	55	5.5	20,011							13.ppg,			5,.50	50.0
										32#/sk Salt,				
										4% STE, 1#/sk				
										Gyp Seal				
										Gyp Jean				

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 3,500/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 3,500/250 psig.

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 – 1,949'	Fresh - Gel	8.6-8.8	28-34	N/c
1,949' – 4,134'	Brine	8.8- 10.2	28-34	N/c
4,134'' – 10,690'	Brine	8.8- 10.2	28-34	N/c
10,690' – 25,844' Lateral	Oil Base	9.0-11	58-68	3 - 6

The

highest mud weight needed to balance formation is expected to be 9-11 ppg. In order to maintain hole stability, mud weights up to 11 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 kept 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 10,348' TVD (deepest point of the well) is 185F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,919' psig (based on 11 ppg MW). Hydrogen Sulfide 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.

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 State 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 30 days.

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

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 string. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per NMOCD Rules to the one-third of manufacture's rated yield pressure, no less than 600 psi, but not greater than 1,500 psi.

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 $\frac{1}{2}$ " production casing due to the tight clearance with 8 3/4" hole.

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 <u>Effective May 25, 2021</u>

I. Operator:Franklin	Mountain I	Energy 3, LLC	OG	RID:331595		Date:7/3/2024
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 to be recompleted from a s					f wells proposed t	to be drilled or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached Well List						
IV. Central Delivery Poin V. Anticipated Schedule or proposed to be recomple	: Provide the	following informatingle well pad or co	ntion for each neonnected to a cer	w or recompleted v ntral delivery point	well or set of well t.	s proposed to be drilled
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		
See Attached Well List						
VI. Separation Equipmen VII. Operational Practice Subsection A through F of VIII. Best Management I during active and planned i	es: Attac 19.15.27.81 Practices:	h a complete descr NMAC. Attach a complete	ription of the act	cions 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	st production.		

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or portion	on, of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new	well(s).

$\overline{}$									
	Attach (Onerator'	s plan	to manage	production	in response	to the increas	sed line pressure	e

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the informat	ion 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 spec	ific information
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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 verbe
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 7/3/2024
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
Rope State Com 301H	TBD	Lot 4-30-18S-35E	330 FSL 978 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 302H	TBD	O-30-18S-35E	335 FSL 2493 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 303H	TBD	P-30-18S-35E	338 FSL 1193 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 304H	TBD	P-30-18S-35E	338 FSL 1073 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 501H	TBD	Lot 4-30-18S-35E	330 FSL 948 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 502H	TBD	O-30-18S-35E	335 FSL 2523 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 601H	TBD	Lot 4-30-18S-35E	330 FSL 888 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 602H	TBD	Lot 4-30-18S-35E	330 FSL 1038 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 604H	TBD	P-30-18S-35E	338 FSL 1133 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 701H	TBD	Lot 4-30-18S-35E	330 FSL 1008 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 702H	TBD	O-30-18S-35E	335 FSL 2463 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 703H	TBD	P-30-18S-35E	338 FSL 1163 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 704H	TBD	P-30-18S-35E	338 FSL 1043 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 801H	TBD	Lot 4-30-18S-35E	330 FSL 918 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 802H	TBD	Lot 4-30-18S-35E	330 FSL 1068 FWL	800 +/-	700 +/-	2500 +/-
Rope State Com 803H	TBD	O-30-18S-35E	335 FSL 2433 FEL	800 +/-	700 +/-	2500 +/-
Rope State Com 804H	TBD	P-30-18S-35E	338 FSL 1103 FEL	800 +/-	700 +/-	2500 +/-
·						

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.

				Completion	Initial	
		Spud Date		Commencement	Flowback	
Well Name	API 14 Digit	(Batch Drilling)	TD Reached Date	Date	Date	First Production Date
Rope State Com 301H	TBD	5/15/2025	8/23/2025	9/17/2025	11/6/2025	11/8/2025
Rope State Com 302H	TBD	6/15/2025	9/3/2025	9/28/2025	11/7/2025	11/9/2025
Rope State Com 303H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 304H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 501H	TBD	5/15/2025	8/23/2025	9/17/2025	11/6/2025	11/8/2025
Rope State Com 502H	TBD	6/15/2025	9/3/2025	9/28/2025	11/7/2025	11/9/2025
Rope State Com 601H	TBD	5/15/2025	8/23/2025	9/17/2025	11/6/2025	11/8/2025
Rope State Com 602H	TBD	6/15/2025	9/3/2025	9/28/2025	11/7/2025	11/9/2025
Rope State Com 604H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 701H	TBD	5/15/2025	8/23/2025	9/17/2025	11/6/2025	11/8/2025
Rope State Com 702H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 703H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 704H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 801H	TBD	5/15/2025	8/23/2025	9/17/2025	11/6/2025	11/8/2025
Rope State Com 802H	TBD	6/15/2025	9/3/2025	9/28/2025	11/7/2025	11/9/2025
Rope State Com 803H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026
Rope State Com 804H	TBD	7/1/2025	12/8/2025	1/2/2026	3/23/2026	3/25/2026



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 a 3-phase separator to remove gas. Gas from the 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales.
- 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.

Rope NGMP Map

July 2024

- Capacities reflected are FME's understanding of 3rd party midstream system capacities

