<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 370867

APPLICATION FOR PERMIT TO DRILL. RE-ENTER. DEEPEN. PLUGBACK. OR ADD A ZONE

Operator Name and Address	2. OGRID Number	
Franklin Mountain Energy 3, LLC	331595	
44 Cook Street	3. API Number	
Denver, CO 80206		30-025-53336
4. Property Code	5. Property Name	6. Well No.
336097	ROPE STATE COM	301H

7 Surface Location

UL - Lot		Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	M	30	18S	35E	M	330	S	978	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	18	18S	35E	D	100	N	800	W	Lea

9. Pool Information

WC 025 G 06 \$183518A-RONE \$PRING	97930
WC-025 G-06 S183518A;BONE SPRING	97930
AIRSTRIP:BONE SPRING	960

**Additional Well Information** 

11. Work Type 12. Well Type		13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	New Well OIL		State	3951
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date
Y 24740		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

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC				
Surf	17.5	13.375	54.5	2010	1532	0				
Int1	12.25	9.625	40	4225	882	0				
Prod	8.75	7	32	8691	376	3225				
Prod	8.75	5.5	20	24740	4004	8691				

#### Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer	
Double Ram	10000	5000	CACTUS	

23. I hereby certi		true and complete to the best of my		OIL CONSERVATION DIVISION		
I further certify ⊠, if applicable.	I have complied with 19.15.14.9 (A)	NMAC ⊠ and/or 19.15.14.9 (B) NMAC				
Signature:						
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: 7/30/2024 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 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

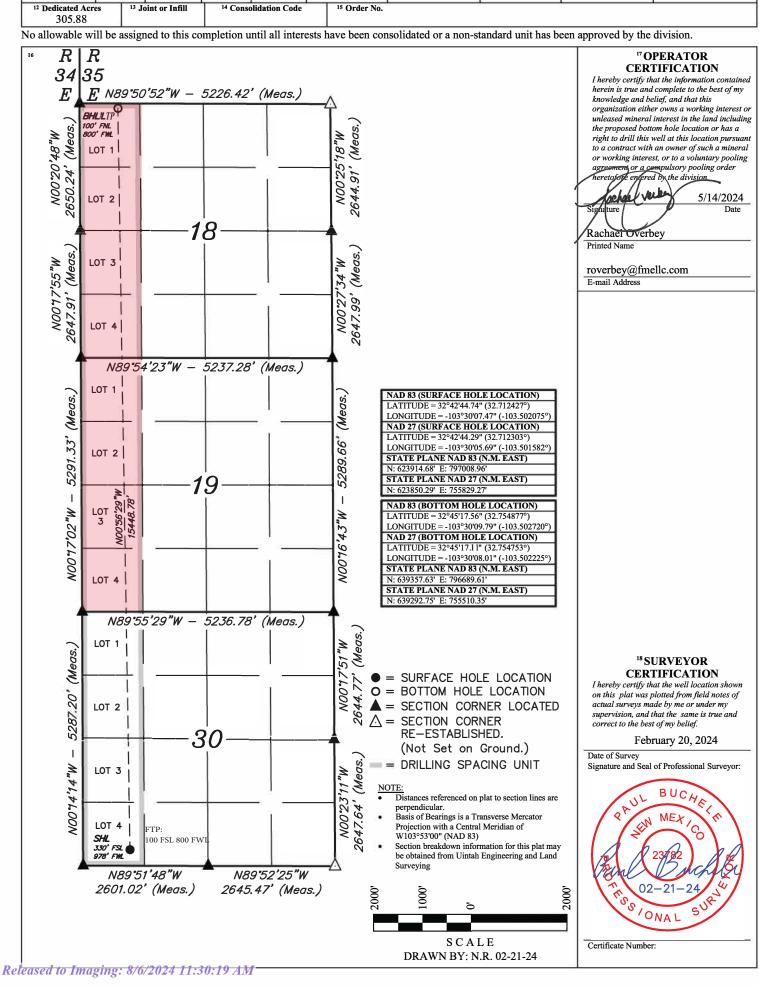
<sup>1</sup> API Number	•	<sup>2</sup> Pool Code 97930	<sup>3</sup> Pool Name WC-025 G-06 S83518A, BONE SPRING	
4 Property Code		5 Pr	operty Name	6 Well Number
		ROPE	STATE COM	301H
7 OGRID No.		8 OI	perator Name	<sup>9</sup> Elevation
331595		FRANKLIN MOU	JNTAIN ENERGY 3, LLC	3951.8

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	30	18S	35E	2	330	SOUTH	978	WEST	LEA

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. 1	Section 18	.	Township 18S	Range 35E	Lot Idn		from the 100	North/South line NORTH	Feet from the 800	East/West line WEST	County LEA
12 Dedicated Acre 305.88	es	<sup>13</sup> J <sub>0</sub>	int or Infill	14 Conso	lidation Code	15	5 Order No.	· · · · · · · · · · · · · · · · · · ·			



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Phone: (575) 748-1283 Fax: (575) 748-9720 District III
1000 Rio Brazos Road, Aztec, NM 87410
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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

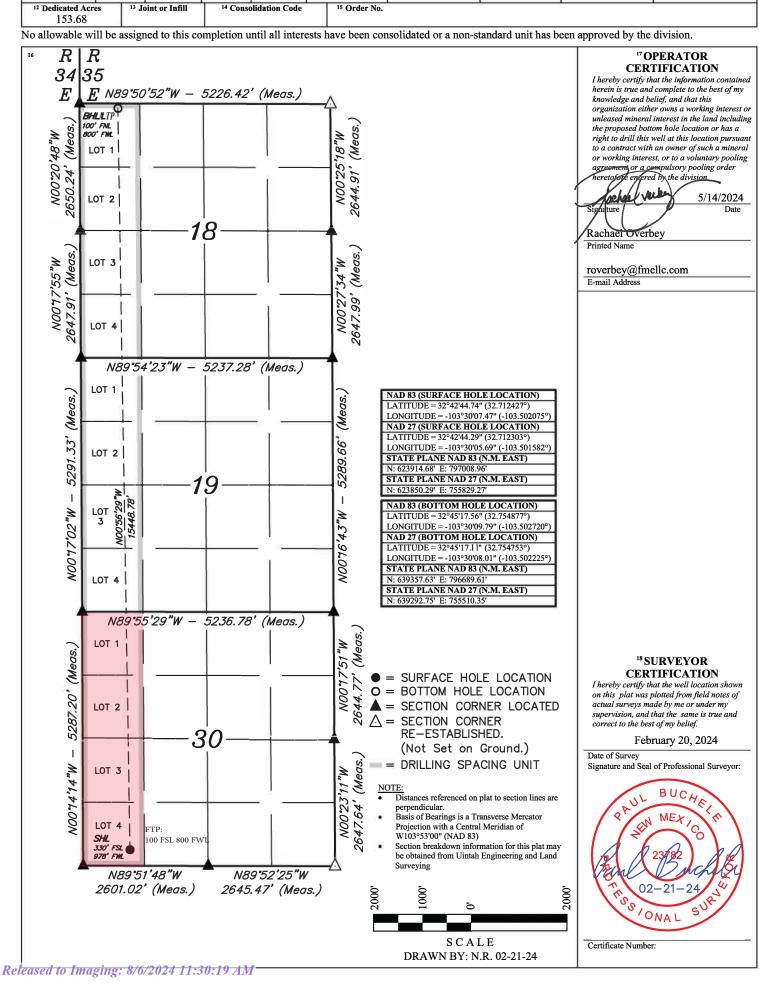
	-			
<sup>1</sup> API Number	•	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
		960	AIRSTRIP, BONE SPRING	
4 Property Code		5 Pr	operty Name	6 Well Number
		ROPE	STATE COM	301H
7 OGRID No.		8 O <sub>I</sub>	perator Name	9 Elevation
331595		FRANKLIN MOU	JNTAIN ENERGY 3, LLC	3951.8

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	30	18S	35E		330	SOUTH	978	WEST	LEA

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. 1	Section 18		Township 18S	Range 35E	Lot Idn	Fee	et from the 100	North/South line NORTH	Feet from the 800	East/West line WEST	County LEA
12 Dedicated Acre 153.68	es	13 Jo	int or Infill	14 Conso	lidation Code		15 Order No.				



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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

Form APD Conditions

Permit 370867

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Franklin Mountain Energy 3, LLC [331595]	30-025-53336
44 Cook Street	Well:
Denver, CO 80206	ROPE STATE COM #301H

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 West Pad
(04) Rope State Com 301H - Slot (04) RPSC 301H

301H

Plan: APD-Rev01

# **Standard Planning Report - Geographic**

12 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 West Pad

Well: (04) Rope State Com 301H

301H Wellbore: APD-Rev01 Design:

Local Co-ordinate Reference:

**Survey Calculation Method:** 

Well (04) Rope State Com 301H - Slot (04)

0.00

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

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 West Pad

Site Position: Northing: 623,914.52 usft Latitude: 32.71242845 From: Easting: 796,918.98 usft Longitude: -103.50236793 Мар

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

Well (04) Rope State Com 301H - Slot (04) RPSC 301H

0.00 usft 32.71242695 **Well Position** +N/-S Northing: 623,914.68 usft Latitude:

+E/-W 0.00 usft -103.50207540 Easting: 797,008.96 usft Longitude: **Position Uncertainty** 0.00 usft Wellhead Elevation: Ground Level: 3,951.00 usft

Grid Convergence: 0.45°

301H Wellbore

Version:

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 3/11/2024 6.23 60.26 47,499.35386681

Design **Audit Notes:** 

Phase:

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

PLAN

0.00 0.00 0.00 359.48

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

APD-Rev01

**Depth From** Depth To

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

0.00 24,740.57 APD-Rev01 (301H) MWD+IFR1+MS 1

OWSG MWD + IFR1 + Multi-S

Tie On Depth:



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

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	
1,854.38	5.32	212.48	1,853.87	-13.86	-8.82	1.50	1.50	0.00	212.48	
4,983.16	5.32	212.48	4,969.19	-258.38	-164.47	0.00	0.00	0.00	0.00	
5,514.73	0.00	0.00	5,500.00	-279.17	-177.70	1.00	-1.00	0.00	180.00	
8,690.77	0.00	0.00	8,676.04	-279.17	-177.70	0.00	0.00	0.00	0.00	
9,590.77	90.00	359.48	9,249.00	293.76	-182.86	10.00	10.00	-0.06	359.48	
24,740.57	90.00	359.48	9,249.00	15,442.95	-319.35	0.00	0.00	0.00	0.00	02-PBHL(RPSC-301



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

Grid

Design:	711 15	Revui							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
30.00	0.00	0.00	30.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
Cenozoi	c Alluvium (sı	ırface)							
100.00	0.00	0.00	100.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
200.00	0.00	0.00	200.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
300.00	0.00	0.00	300.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
400.00 500.00	0.00	0.00 0.00	400.00 500.00	0.00 0.00	0.00 0.00	623,914.68 623,914.68	797,008.96 797,008.96	32.71242695 32.71242695	-103.50207540 -103.50207540
600.00	0.00	0.00	600.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
700.00	0.00	0.00	700.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
800.00	0.00	0.00	800.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
900.00	0.00	0.00	900.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
1,000.00	0.00	0.00	1,000.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
1,100.00	0.00	0.00	1,100.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
1,200.00	0.00	0.00	1,200.00	0.00	0.00	623,914.68	797,008.96	32.71242695	-103.50207540
1,300.00	0.00	0.00 0.00	1,300.00	0.00 0.00	0.00 0.00	623,914.68	797,008.96	32.71242695	-103.50207540
1,400.00 1,500.00	0.00	0.00	1,400.00 1,500.00	0.00	0.00	623,914.68 623,914.68	797,008.96 797,008.96	32.71242695 32.71242695	-103.50207540 -103.50207540
1,600.00	1.50	212.48	1,599.99	-1.10	-0.70	623,913.58	797,008.25	32.71242393	-103.50207772
1,700.00	3.00	212.48	1,699.91	-4.42	-2.81	623,910.27	797,006.15	32.71241487	-103.50208466
1,800.00	4.50	212.48	1,799.69	-9.93	-6.32	623,904.75	797,002.63	32.71239978	-103.50209621
1,854.38	5.32	212.48	1,853.87	-13.86	-8.82	623,900.83	797,000.14	32.71238905	-103.50210443
1,900.00	5.32	212.48	1,899.30	-17.42	-11.09	623,897.26	796,997.87	32.71237930	-103.50211190
1,959.96	5.32	212.48	1,959.00	-22.11	-14.07	623,892.57	796,994.88	32.71236648	-103.50212172
Rustler									
2,000.00	5.32	212.48	1,998.87	-25.24	-16.07	623,889.45	796,992.89	32.71235793	-103.50212828
2,100.00 2,200.00	5.32 5.32	212.48 212.48	2,098.44 2,198.01	-33.05 -40.87	-21.04 -26.01	623,881.63 623,873.81	796,987.92 796,982.94	32.71233655 32.71231518	-103.50214465 -103.50216102
2,241.17	5.32	212.48	2,239.00	-44.09	-28.06	623,870.60	796,980.90	32.71231618	-103.50216776
Salado	0.02	212.10	2,200.00	11.00	20.00	020,010.00	700,000.00	02.7 1200000	100.00210110
2,300.00	5.32	212.48	2,297.58	-48.68	-30.99	623,866.00	796,977.97	32.71229381	-103.50217739
2,400.00	5.32	212.48	2,397.15	-56.50	-35.96	623,858.18	796,972.99	32.71227244	-103.50219376
2,500.00	5.32	212.48	2,496.72	-64.32	-40.94	623,850.37	796,968.02	32.71225106	-103.50221014
2,600.00	5.32	212.48	2,596.29	-72.13	-45.91	623,842.55	796,963.04	32.71222969	-103.50222651
2,700.00	5.32	212.48	2,695.86	-79.95	-50.89	623,834.74	796,958.07	32.71220832	-103.50224288
2,800.00	5.32	212.48	2,795.43	-87.76	-55.86	623,826.92	796,953.09	32.71218695	-103.50225925
2,900.00 3,000.00	5.32 5.32	212.48 212.48	2,895.00 2,994.57	-95.58 -103.39	-60.84 -65.81	623,819.11 623,811.29	796,948.12 796,943.15	32.71216557 32.71214420	-103.50227562 -103.50229199
3,100.00	5.32	212.48	3,094.13	-103.39	-70.79	623,803.48	796,938.17	32.71212283	-103.50229199
3,198.29	5.32	212.48	3,192.00	-118.89	-75.68	623,795.79	796,933.28	32.71210182	-103.50232446
Base Sal			5,			,			
3,200.00	5.32	212.48	3,193.70	-119.02	-75.76	623,795.66	796,933.20	32.71210146	-103.50232474
3,300.00	5.32	212.48	3,293.27	-126.84	-80.74	623,787.85	796,928.22	32.71208008	-103.50234111
3,400.00	5.32	212.48	3,392.84	-134.65	-85.71	623,780.03	796,923.25	32.71205871	-103.50235748
3,500.00	5.32	212.48	3,492.41	-142.47	-90.69	623,772.21	796,918.27	32.71203734	-103.50237385
3,578.92	5.32	212.48	3,571.00	-148.64	-94.61	623,766.05	796,914.35	32.71202047	-103.50238677
Yates	- 0-	040.46	0.504.00	450.00	05.00	000 704 45	700.040.00	00.74004505	400 5000000
3,600.00	5.32	212.48	3,591.98	-150.28	-95.66	623,764.40	796,913.30	32.71201597	-103.50239022
3,700.00 3,800.00	5.32 5.32	212.48 212.48	3,691.55 3,791.12	-158.10 -165.92	-100.64 -105.61	623,756.58 623,748.77	796,908.32 796,903.35	32.71199459 32.71197322	-103.50240660 -103.50242297
									-103.50245571
3,900.00 4,000.00	5.32 5.32	212.48 212.48	3,890.69 3,990.26	-173.73 -181.55	-110.58 -115.56	623,740.95 623,733.14	796,898.37 796,893.40	32.71195185 32.71193048	-103.50243934 -103.5024557



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad Well: (04) Rope State

 Well:
 (04) Rope State Com 301H

 Wellbore:
 301H

 Design:
 APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

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
4,023.84	5.32	212.48	4,014.00	-183.41	-116.75	623,731.28	796,892.21	32.71192538	-103.5024596
Seven Ri	vers								
4,100.00	5.32	212.48	4,089.83	-189.36	-120.53	623,725.32	796,888.42	32.71190910	-103.5024720
4,200.00	5.32	212.48	4,189.40	-197.18	-125.51	623,717.51	796,883.45	32.71188773	-103.5024884
4,300.00	5.32	212.48	4,288.97	-204.99	-130.48	623,709.69	796,878.47	32.71186636	-103.5025048
4,400.00	5.32	212.48	4,388.54	-212.81	-135.46	623,701.88	796,873.50	32.71184499	-103.5025212
4,500.00	5.32	212.48	4,488.11	-220.62	-140.43	623,694.06	796,868.52	32.71182361	-103.5025375
4,600.00	5.32	212.48	4,587.68	-228.44	-145.41	623,686.25	796,863.55	32.71180224	-103.5025539
4,700.00	5.32	212.48	4,687.25	-236.25	-150.38	623,678.43	796,858.58	32.71178087	-103.5025703
4,739.92	5.32	212.48	4,727.00	-239.37	-152.37	623,675.31	796,856.59	32.71177234	-103.5025768
Queen		040.46	4 700 00	044.07	455.00	000 070 05	700.050.00	00.74475046	400 500500
4,800.00	5.32	212.48	4,786.82	-244.07	-155.36	623,670.62	796,853.60	32.71175949	-103.5025866
4,900.00	5.32	212.48	4,886.39	-251.88	-160.33	623,662.80	796,848.63	32.71173812	-103.5026030
4,983.16	5.32	212.48	4,969.19	-258.38	-164.47	623,656.30	796,844.49	32.71172035	-103.5026166
5,000.00	5.15	212.48	4,985.97	-259.68	-165.29	623,655.01	796,843.66	32.71171681	-103.5026193
5,100.00	4.15	212.48 212.48	5,085.64	-266.51 -271.88	-169.64 -173.06	623,648.17	796,839.31 796,835.90	32.71169812 32.71168344	-103.5026337 -103.5026449
5,200.00 5,300.00	3.15 2.15	212.48	5,185.43 5,285.32	-27 1.00 -275.78	-175.54	623,642.80 623,638.91	796,833.42		-103.502644
5,400.00	1.15	212.48	5,385.28	-275.76 -278.20	-175.54	623,636.48	796,831.87	32.71167278 32.71166615	-103.502658
5,500.00	0.15	212.48	5,485.27	-276.20 -279.15	-177.69	623,635.53	796,831.27	32.71166355	-103.502660
5,500.00	0.00	0.00	5,500.00	-279.13 -279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
5,600.00	0.00	0.00	5,585.27	-279.17 -279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
5,700.00	0.00	0.00	5,685.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
5,800.00	0.00	0.00	5,785.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
5,900.00	0.00	0.00	5,885.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
6,000.00	0.00	0.00	5,985.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
6,075.73	0.00	0.00	6,061.00	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
	Mtn Group		-,			,			
6,100.00	0.00	0.00	6,085.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,200.00	0.00	0.00	6,185.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
6,300.00	0.00	0.00	6,285.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,400.00	0.00	0.00	6,385.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,500.00	0.00	0.00	6,485.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,600.00	0.00	0.00	6,585.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,700.00	0.00	0.00	6,685.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,800.00	0.00	0.00	6,785.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
6,900.00	0.00	0.00	6,885.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,000.00	0.00	0.00	6,985.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,100.00	0.00	0.00	7,085.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,200.00	0.00	0.00	7,185.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,300.00	0.00	0.00	7,285.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,400.00	0.00	0.00	7,385.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
7,500.00	0.00	0.00	7,485.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
7,600.00	0.00	0.00	7,585.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
7,700.00	0.00	0.00	7,685.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.5026602
7,705.73	0.00	0.00	7,691.00	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
Bone Spi	_								
7,800.00	0.00	0.00	7,785.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
7,900.00	0.00	0.00	7,885.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
8,000.00	0.00	0.00	7,985.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
8,100.00	0.00	0.00	8,085.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
8,200.00	0.00	0.00	8,185.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660
8,300.00	0.00	0.00	8,285.27	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.502660



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

Grid

Design.	, 2	itevoi							
Planned Survey	,								
Measured Depth (usft)	Inclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9 400 00		0.00	0 205 27	-279.17	-177.70	602 625 54	706 924 96	22 74466250	102 50266022
8,400.00 8,500.00	0.00	0.00	8,385.27 8,485.27	-279.17 -279.17	-177.70 -177.70	623,635.51 623,635.51	796,831.26 796,831.26	32.71166350 32.71166350	-103.50266022 -103.50266022
8,600.00	0.00	0.00	8,585.27	-279.17 -279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.50266022
8,690.77	0.00	0.00	8,676.04	-279.17	-177.70	623,635.51	796,831.26	32.71166350	-103.50266022
	90.77' MD/ -27			-275.17	-177.70	020,000.01	7 30,00 1.20	02.7 1100000	-100.00200022
8,700.00	0.92	359.48	8,685.27	-279.10	-177.70	623,635.59	796,831.26	32.71166371	-103.50266022
8,750.00	5.92	359.48	8,735.17	-276.11	-177.73	623,638.57	796,831.23	32.71167191	-103.50266023
8,800.00	10.92	359.48	8,784.61	-268.79	-177.79	623,645.89	796,831.16	32.71169204	-103.50266025
8,850.00	15.92	359.48	8,833.23	-257.19	-177.90	623,657.50	796,831.06	32.71172393	-103.50266030
8,900.00	20.92	359.48	8,880.65	-241.39	-178.04	623,673.29	796,830.92	32.71176735	-103.50266036
8,937.39	24.66	359.48	8,915.12	-226.91	-178.17	623,687.78	796,830.79	32.71180715	-103.50266041
100FLL:	8937.39' MD/	-225.28' VS/8	915.12' TVD						
8,950.00	25.92	359.48	8,926.52	-221.52	-178.22	623,693.16	796,830.74	32.71182196	-103.50266044
9,000.00	30.92	359.48	8,970.48	-197.73	-178.43	623,716.95	796,830.52	32.71188735	-103.50266053
9,050.00	35.92	359.48	9,012.20	-170.20	-178.68	623,744.48	796,830.28	32.71196302	-103.50266063
9,100.00	40.92	359.48	9,051.36	-139.14	-178.96	623,775.55	796,830.00	32.71204840	-103.50266075
9,150.00	45.92	359.48	9,087.66	-104.78	-179.27	623,809.90	796,829.69	32.71214283	-103.50266088
9,165.69	47.49	359.48	9,098.42	-93.36	-179.37	623,821.33	796,829.58	32.71217423	-103.50266092
01-T98(F	RPSC-301H)								
9,200.00	50.92	359.48	9,120.83	-67.39	-179.61	623,847.29	796,829.35	32.71224560	-103.50266102
9,245.36	55.46	359.48	9,148.00	-31.08	-179.94	623,883.60	796,829.02	32.71234540	-103.50266116
	ne Spring San								
9,250.00	55.92	359.48	9,150.61	-27.25	-179.97	623,887.43	796,828.99	32.71235593	-103.50266118
9,300.00	60.92	359.48	9,176.79	15.33	-180.35	623,930.01	796,828.60	32.71247297	-103.50266134
9,350.00	65.92	359.48	9,199.15	60.03	-180.76	623,974.72	796,828.20	32.71259583	-103.50266151
9,400.00	70.92 75.92	359.48	9,217.53	106.51	-181.17	624,021.20	796,827.78	32.71272359	-103.50266169
9,450.00 9,500.00	80.92	359.48 359.48	9,231.79 9,241.82	154.42 203.38	-181.61 -182.05	624,069.10 624,118.07	796,827.35 796,826.91	32.71285526 32.71298984	-103.50266187 -103.50266206
9,550.00	85.92	359.48	9,247.55	253.03	-182.49	624,167.72	796,826.46	32.71312632	-103.50266225
9,590.77	90.00	359.48	9,249.00	293.76	-182.86	624,208.45	796,826.10	32.71323827	-103.50266240
EOC: 95			.00' TVD - HZ T		-102.00	024,200.40	730,020.10	02.7 1020027	-100.00200240
9,600.00	90.77 WD729	359.48	9,249.00	303.00	-182.95	624,217.68	796,826.01	32.71326365	-103.50266244
9,700.00	90.00	359.48	9,249.00	402.99	-183.85	624,317.68	796,825.11	32.71353850	-103.50266282
9,800.00	90.00	359.48	9,249.00	502.99	-184.75	624,417.67	796,824.21	32.71381335	-103.50266320
9,900.00	90.00	359.48	9,249.00	602.99	-185.65	624,517.67	796,823.31	32.71408819	-103.50266358
10,000.00	90.00	359.48	9,249.00	702.98	-186.55	624,617.67	796,822.41	32.71436304	-103.50266396
10,100.00	90.00	359.48	9,249.00	802.98	-187.45	624,717.66	796,821.51	32.71463789	-103.50266434
10,200.00	90.00	359.48	9,249.00	902.97	-188.35	624,817.66	796,820.61	32.71491274	-103.50266473
10,300.00	90.00	359.48	9,249.00	1,002.97	-189.25	624,917.65	796,819.71	32.71518759	-103.50266511
10,400.00	90.00	359.48	9,249.00	1,102.97	-190.15	625,017.65	796,818.81	32.71546244	-103.50266549
10,500.00	90.00	359.48	9,249.00	1,202.96	-191.05	625,117.65	796,817.90	32.71573729	-103.50266587
10,600.00	90.00	359.48	9,249.00	1,302.96	-191.95	625,217.64	796,817.00	32.71601213	-103.50266625
10,700.00	90.00	359.48	9,249.00	1,402.95	-192.86	625,317.64	796,816.10	32.71628698	-103.50266663
10,800.00	90.00	359.48	9,249.00	1,502.95	-193.76	625,417.63	796,815.20	32.71656183	-103.50266702
10,900.00	90.00	359.48	9,249.00	1,602.95	-194.66	625,517.63	796,814.30	32.71683668	-103.50266740
11,000.00	90.00	359.48	9,249.00	1,702.94	-195.56	625,617.63	796,813.40	32.71711153	-103.50266778
11,100.00	90.00	359.48	9,249.00	1,802.94	-196.46	625,717.62	796,812.50	32.71738638	-103.50266816
11,200.00 11,300.00	90.00 90.00	359.48 359.48	9,249.00 9,249.00	1,902.93 2,002.93	-197.36 -198.26	625,817.62 625,917.61	796,811.60 796,810.70	32.71766122 32.71793607	-103.50266854 -103.50266892
11,400.00	90.00	359.48	9,249.00	2,102.93	-198.20	626,017.61	796,810.70	32.71821092	-103.50266930
11,500.00	90.00	359.48	9,249.00	2,102.93	-200.06	626,117.60	796,808.90	32.71848577	-103.50266968
11,600.00	90.00	359.48	9,249.00	2,302.92	-200.96	626,217.60	796,807.99	32.71876062	-103.50267007
11,700.00	90.00	359.48	9,249.00	2,402.91	-201.86	626,317.60	796,807.09	32.71903547	-103.50267045
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Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,800.00	90.00	359.48	9,249.00	2,502.91	-202.77	626,417.59	796,806.19	32.71931031	-103.5026708
11,900.00	90.00	359.48	9,249.00	2,602.90	-203.67	626,517.59	796,805.29	32.71958516	-103.5026712
12,000.00	90.00	359.48	9,249.00	2,702.90	-204.57	626,617.58	796,804.39	32.71986001	-103.5026715
12,100.00	90.00	359.48	9,249.00	2,802.90	-205.47	626,717.58	796,803.49	32.72013486	-103.5026719
12,200.00	90.00	359.48	9,249.00	2,902.89	-206.37	626,817.58	796,802.59	32.72040971	-103.5026723
12,300.00	90.00	359.48	9,249.00	3,002.89	-207.27	626,917.57	796,801.69	32.72068456	-103.5026727
12,400.00	90.00	359.48	9,249.00	3,102.88	-208.17	627,017.57	796,800.79	32.72095940	-103.5026731
12,500.00	90.00	359.48	9,249.00	3,202.88	-209.07	627,117.56	796,799.89	32.72123425	-103.5026735
12,600.00	90.00	359.48	9,249.00	3,302.88	-209.97	627,217.56	796,798.99	32.72150910	-103.5026738
12,700.00	90.00	359.48	9,249.00	3,402.87	-210.87	627,317.56	796,798.08	32.72178395	-103.5026742
12,800.00	90.00	359.48	9,249.00	3,502.87	-211.77	627,417.55	796,797.18	32.72205880	-103.5026746
12,900.00	90.00	359.48	9,249.00	3,602.86	-212.68	627,517.55	796,796.28	32.72233365	-103.5026750
13,000.00	90.00	359.48	9,249.00	3,702.86	-213.58	627,617.54	796,795.38	32.72260849	-103.502675
13,100.00	90.00	359.48	9,249.00	3,802.86	-214.48	627,717.54	796,794.48	32.72288334	-103.502675
13,200.00	90.00	359.48	9,249.00	3,902.85	-215.38	627,817.54	796,793.58	32.72315819	-103.502676
13,300.00	90.00	359.48	9,249.00	4,002.85	-216.28	627,917.53	796,792.68	32.72343304	-103.502676
13,400.00	90.00	359.48	9,249.00	4,102.84	-217.18	628,017.53	796,791.78	32.72370789	-103.502676
13,500.00	90.00	359.48	9,249.00	4,202.84	-218.08	628,117.52	796,790.88	32.72398273	-103.502677
13,600.00	90.00	359.48	9,249.00	4,302.84	-218.98	628,217.52	796,789.98	32.72425758	-103.502677
13,700.00	90.00	359.48	9,249.00	4,402.83	-219.88	628,317.52	796,789.07	32.72453243	-103.502678
13,800.00	90.00	359.48	9,249.00	4,502.83	-220.78	628,417.51	796,788.17	32.72480728	-103.502678
13,900.00	90.00	359.48	9,249.00	4,602.82	-221.68	628,517.51	796,787.27	32.72508213	-103.502678
14,000.00	90.00	359.48	9,249.00	4,702.82	-222.59	628,617.50	796,786.37	32.72535697	-103.502679
14,100.00	90.00	359.48	9,249.00	4,802.82	-223.49	628,717.50	796,785.47	32.72563182	-103.502679
14,200.00	90.00	359.48	9,249.00	4,902.81	-224.39	628,817.50	796,784.57	32.72590667	-103.502679
14,300.00	90.00	359.48	9,249.00	5,002.81	-225.29	628,917.49	796,783.67	32.72618152	-103.502680
14,400.00	90.00	359.48	9,249.00	5,102.80	-226.19	629,017.49	796,782.77	32.72645637	-103.502680
14,500.00	90.00	359.48	9,249.00	5,202.80	-227.09	629,117.48	796,781.87	32.72673121	-103.502681
14,600.00	90.00	359.48	9,249.00	5,302.80	-227.99	629,217.48	796,780.97	32.72700606	-103.502681
14,700.00	90.00	359.48	9,249.00	5,402.79	-228.89	629,317.48	796,780.07	32.72728091	-103.502681
14,800.00	90.00	359.48	9,249.00	5,502.79	-229.79	629,417.47	796,779.16	32.72755576	-103.502682
14,900.00	90.00	359.48	9,249.00	5,602.78	-230.69	629,517.47	796,778.26	32.72783061	-103.502682
15,000.00	90.00	359.48	9,249.00	5,702.78	-231.59 -232.50	629,617.46	796,777.36	32.72810545	-103.502683
15,100.00	90.00	359.48	9,249.00	5,802.77	-232.50 -233.40	629,717.46	796,776.46	32.72838030	-103.502683
15,200.00	90.00	359.48	9,249.00	5,902.77		629,817.45	796,775.56 796,774.66	32.72865515	-103.502683 -103.502684
15,300.00 15,400.00	90.00 90.00	359.48 359.48	9,249.00 9,249.00	6,002.77 6,102.76	-234.30 -235.20	629,917.45 630,017.45	796,773.76	32.72893000 32.72920485	-103.502684
15,500.00	90.00	359.48	9,249.00	6,202.76	-235.20 -236.10	630,117.44	796,772.86	32.72947969	-103.502684
15,600.00	90.00	359.48	9,249.00	6,302.75	-237.00	630.217.44	796,772.86	32.72947909	-103.502685
15,700.00	90.00	359.48	,		-237.00	,	,	32.73002939	-103.502685
15,700.00	90.00	359.48	9,249.00 9,249.00	6,402.75 6,502.75	-237.90	630,317.43 630,417.43	796,771.06 796,770.16	32.73030424	-103.502686
15,900.00	90.00	359.48	9,249.00	6,602.74	-239.70	630,517.43	796,769.25	32.73057909	-103.502686
16,000.00	90.00	359.48	9,249.00	6,702.74	-240.60	630,617.42	796,768.35	32.73085393	-103.502686
16,100.00	90.00	359.48	9,249.00	6,802.73	-241.51	630,717.42	796,767.45	32.73112878	-103.502687
16,100.00	90.00	359.48	9,249.00	6,902.73	-241.51 -242.41	630,817.41	796,766.55	32.73112676	-103.502687
16,300.00	90.00	359.48	9,249.00	7,002.73	-243.31	630,917.41	796,765.65	32.73140303	-103.502687
16,400.00	90.00	359.48	9,249.00	7,002.73	-244.21	631,017.41	796,764.75	32.73195332	-103.502688
16,500.00	90.00	359.48	9,249.00	7,102.72	-245.11	631,117.40	796,763.85	32.73222817	-103.502688
16,600.00		359.48	9,249.00	7,302.72	-246.01	631,217.40	796,762.95	32.73250302	-103.502689
16,700.00	90.00	359.48	9,249.00	7,402.71	-246.91	631,317.39	796,762.05	32.73277787	-103.502689
16,800.00	90.00	359.48	9,249.00	7,502.71	-240.91	631,417.39	796,761.15	32.73305272	-103.502689
16,900.00	90.00	359.48	9,249.00	7,602.71	-248.71	631,517.39	796,760.25	32.73332756	-103.502690
17,000.00	90.00	359.48	9,249.00	7,702.70	-249.61	631,617.38	796,759.34	32.73360241	-103.502690
17,000.00	90.00	359.48	9,249.00	7,702.70	-250.51	631,717.38	796,758.44	32.73387726	-103.502691



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

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
17,200.00	90.00	359.48	9,249.00	7,902.69	-251.42	631,817.37	796,757.54	32.73415211	-103.50269139
17,300.00	90.00	359.48	9,249.00	8,002.69	-252.32	631,917.37	796,756.64	32.73442695	-103.50269177
17,400.00	90.00	359.48	9,249.00	8,102.68	-253.22	632,017.37	796,755.74	32.73470180	-103.50269215
17,500.00	90.00	359.48	9,249.00	8,202.68	-254.12	632,117.36	796,754.84	32.73497665	-103.50269253
17,600.00	90.00	359.48	9,249.00	8,302.67	-255.02	632,217.36	796,753.94	32.73525150	-103.50269291
17,700.00	90.00	359.48	9,249.00	8,402.67	-255.92	632,317.35	796,753.04	32.73552634	-103.50269329
17,800.00	90.00	359.48	9,249.00	8,502.67	-256.82	632,417.35	796,752.14	32.73580119	-103.50269367
17,900.00	90.00	359.48	9,249.00	8,602.66	-257.72	632,517.35	796,751.24	32.73607604	-103.50269405
18,000.00	90.00	359.48	9,249.00	8,702.66	-258.62	632,617.34	796,750.34	32.73635089	-103.50269443
18,100.00	90.00	359.48	9,249.00	8,802.65	-259.52	632,717.34	796,749.43	32.73662573	-103.50269481
18,200.00	90.00	359.48	9,249.00	8,902.65	-260.42	632,817.33	796,748.53	32.73690058	-103.50269519
18,300.00	90.00	359.48	9,249.00	9,002.65	-261.33	632,917.33	796,747.63	32.73717543	-103.50269557
18,400.00	90.00	359.48	9,249.00	9,102.64	-262.23	633,017.33	796,746.73	32.73745028	-103.50269595
18,500.00	90.00	359.48	9,249.00	9,202.64	-263.13	633,117.32	796,745.83	32.73772512	-103.50269633
18,600.00	90.00	359.48	9,249.00	9,302.63	-264.03	633,217.32	796,744.93	32.73799997	-103.5026967
18,700.00	90.00	359.48	9,249.00	9,402.63	-264.93	633,317.31	796,744.03	32.73827482	-103.50269709
18,800.00	90.00	359.48 359.48	9,249.00	9,502.62	-265.83 -266.73	633,417.31	796,743.13 796,742.23	32.73854967	-103.50269747 -103.5026978
18,900.00	90.00		9,249.00 9,249.00	9,602.62 9,702.62	-266.73 -267.63	633,517.30	,	32.73882451	
19,000.00 19,100.00	90.00 90.00	359.48 359.48	9,249.00	9,702.62	-267.63 -268.53	633,617.30 633,717.30	796,741.33 796,740.42	32.73909936 32.73937421	-103.50269823 -103.5026986
19,100.00	90.00	359.48	9,249.00	9,802.61	-269.43	633,817.29	796,739.52	32.73964906	-103.5026989
19,300.00	90.00	359.48	9,249.00	10,002.60	-209.43	633,917.29	796,738.62	32.73992390	-103.5026993
19,400.00	90.00	359.48	9,249.00	10,002.60	-270.33	634,017.28	796,737.72	32.74019875	-103.5026997
19,500.00	90.00	359.48	9,249.00	10,102.60	-271.24	634,117.28	796,736.82	32.74047360	-103.50270013
19,600.00	90.00	359.48	9,249.00	10,302.59	-273.04	634,217.28	796,735.92	32.74074845	-103.5027001
19,700.00	90.00	359.48	9,249.00	10,402.59	-273.94	634,317.27	796,735.02	32.74102329	-103.5027008
19,800.00	90.00	359.48	9,249.00	10,502.58	-274.84	634,417.27	796,734.12	32.74129814	-103.5027012
19,900.00	90.00	359.48	9,249.00	10,602.58	-275.74	634,517.26	796,733.22	32.74157299	-103.5027016
20,000.00	90.00	359.48	9,249.00	10,702.58	-276.64	634,617.26	796,732.32	32.74184784	-103.50270203
20,100.00	90.00	359.48	9,249.00	10,802.57	-277.54	634,717.26	796,731.42	32.74212268	-103.5027024
20,200.00	90.00	359.48	9,249.00	10,902.57	-278.44	634,817.25	796,730.51	32.74239753	-103.50270279
20,300.00	90.00	359.48	9,249.00	11,002.56	-279.34	634,917.25	796,729.61	32.74267238	-103.50270317
20,400.00	90.00	359.48	9,249.00	11,102.56	-280.24	635,017.24	796,728.71	32.74294723	-103.5027035
20,500.00	90.00	359.48	9,249.00	11,202.56	-281.15	635,117.24	796,727.81	32.74322207	-103.50270393
20,600.00	90.00	359.48	9,249.00	11,302.55	-282.05	635,217.24	796,726.91	32.74349692	-103.5027043
20,700.00	90.00	359.48	9,249.00	11,402.55	-282.95	635,317.23	796,726.01	32.74377177	-103.50270469
20,800.00	90.00	359.48	9,249.00	11,502.54	-283.85	635,417.23	796,725.11	32.74404661	-103.50270507
20,900.00	90.00	359.48	9,249.00	11,602.54	-284.75	635,517.22	796,724.21	32.74432146	-103.5027054
21,000.00	90.00	359.48	9,249.00	11,702.54	-285.65	635,617.22	796,723.31	32.74459631	-103.50270583
21,100.00	90.00	359.48	9,249.00	11,802.53	-286.55	635,717.22	796,722.41	32.74487116	-103.5027062
21,200.00	90.00	359.48	9,249.00	11,902.53	-287.45	635,817.21	796,721.51	32.74514600	-103.50270659
21,300.00	90.00	359.48	9,249.00	12,002.52	-288.35	635,917.21	796,720.60	32.74542085	-103.50270697
21,400.00	90.00	359.48	9,249.00	12,102.52	-289.25	636,017.20	796,719.70	32.74569570	-103.5027073
21,500.00	90.00	359.48	9,249.00	12,202.52	-290.15	636,117.20	796,718.80	32.74597054	-103.50270773
21,600.00	90.00	359.48	9,249.00	12,302.51	-291.06	636,217.20	796,717.90	32.74624539	-103.5027081
21,700.00	90.00	359.48	9,249.00	12,402.51	-291.96	636,317.19	796,717.00	32.74652024	-103.50270849
21,800.00	90.00	359.48	9,249.00	12,502.50	-292.86	636,417.19	796,716.10	32.74679509	-103.5027088
21,900.00	90.00	359.48	9,249.00	12,602.50	-293.76	636,517.18	796,715.20	32.74706993	-103.5027092
22,000.00	90.00	359.48	9,249.00	12,702.50	-294.66	636,617.18	796,714.30	32.74734478	-103.5027096
22,100.00	90.00	359.48	9,249.00	12,802.49	-295.56	636,717.17	796,713.40	32.74761963	-103.5027100
22,200.00	90.00	359.48	9,249.00	12,902.49	-296.46	636,817.17	796,712.50	32.74789447	-103.50271039
22,300.00	90.00	359.48	9,249.00	13,002.48	-297.36	636,917.17	796,711.60	32.74816932	-103.50271077
22,400.00	90.00	359.48	9,249.00	13,102.48	-298.26	637,017.16	796,710.69	32.74844417	-103.50271115
22,500.00	90.00	359.48	9,249.00	13,202.47	-299.16	637,117.16	796,709.79	32.74871902	-103.50271



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC
Project: PV\_Lea County, NM(N83-NME3001)

Site: Rope West Pad

Well: (04) Rope State Com 301H

Wellbore: 301H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

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
22,600.00	90.00	359.48	9,249.00	13,302.47	-300.07	637,217.15	796,708.89	32.74899386	-103.50271190
22,700.00	90.00	359.48	9,249.00	13,402.47	-300.97	637,317.15	796,707.99	32.74926871	-103.50271228
22,800.00	90.00	359.48	9,249.00	13,502.46	-301.87	637,417.15	796,707.09	32.74954356	-103.50271266
22,900.00	90.00	359.48	9,249.00	13,602.46	-302.77	637,517.14	796,706.19	32.74981840	-103.50271304
23,000.00	90.00	359.48	9,249.00	13,702.45	-303.67	637,617.14	796,705.29	32.75009325	-103.50271342
23,100.00	90.00	359.48	9,249.00	13,802.45	-304.57	637,717.13	796,704.39	32.75036810	-103.50271380
23,200.00	90.00	359.48	9,249.00	13,902.45	-305.47	637,817.13	796,703.49	32.75064294	-103.50271418
23,300.00	90.00	359.48	9,249.00	14,002.44	-306.37	637,917.13	796,702.59	32.75091779	-103.50271456
23,400.00	90.00	359.48	9,249.00	14,102.44	-307.27	638,017.12	796,701.69	32.75119264	-103.50271494
23,500.00	90.00	359.48	9,249.00	14,202.43	-308.17	638,117.12	796,700.78	32.75146749	-103.50271532
23,600.00	90.00	359.48	9,249.00	14,302.43	-309.07	638,217.11	796,699.88	32.75174233	-103.50271570
23,700.00	90.00	359.48	9,249.00	14,402.43	-309.98	638,317.11	796,698.98	32.75201718	-103.50271608
23,800.00	90.00	359.48	9,249.00	14,502.42	-310.88	638,417.11	796,698.08	32.75229203	-103.50271646
23,900.00	90.00	359.48	9,249.00	14,602.42	-311.78	638,517.10	796,697.18	32.75256687	-103.50271684
24,000.00	90.00	359.48	9,249.00	14,702.41	-312.68	638,617.10	796,696.28	32.75284172	-103.50271721
24,100.00	90.00	359.48	9,249.00	14,802.41	-313.58	638,717.09	796,695.38	32.75311657	-103.50271759
24,200.00	90.00	359.48	9,249.00	14,902.41	-314.48	638,817.09	796,694.48	32.75339141	-103.50271797
24,300.00	90.00	359.48	9,249.00	15,002.40	-315.38	638,917.09	796,693.58	32.75366626	-103.50271835
24,400.00	90.00	359.48	9,249.00	15,102.40	-316.28	639,017.08	796,692.68	32.75394111	-103.50271873
24,500.00	90.00	359.48	9,249.00	15,202.39	-317.18	639,117.08	796,691.78	32.75421595	-103.50271911
24,600.00	90.00	359.48	9,249.00	15,302.39	-318.08	639,217.07	796,690.87	32.75449080	-103.50271949
24,700.00	90.00	359.48	9,249.00	15,402.39	-318.98	639,317.07	796,689.97	32.75476565	-103.50271987
24,740.57	90.00	359.48	9,249.00	15,442.95	-319.35	639,357.63	796,689.61	32.75487714	-103.50272002
TD: 2474	0.57' MD/ 154	45.22' VS/924	19.00' TVD - 02	-PBHL(RPSC	-301H)				

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
01-T98(RPSC-301H) - plan misses target - Point	0.00 center by 201	0.00 .29usft at 91	9,249.00 65.69usft MI	-226.93 D (9098.42 TV	-178.31 'D, -93.36 N, -	623,687.75 179.37 E)	796,830.65	32.71180709	-103.50266087
02-PBHL(RPSC-301H) - plan hits target cer - Point	0.00 nter	0.00	9,249.00	15,442.95	-319.35	639,357.63	796,689.61	32.75487714	-103.50272002



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Company: Franklin Mountain Energy LLC
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Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well (04) Rope State Com 301H - Slot (04)

RPSC 301H

3951+30 @ 3981.00usft 3951+30 @ 3981.00usft

Grid

rmations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	30.00	30.00	Cenozoic Alluvium (surface)				
	1,959.96	1,959.00	Rustler				
	2,241.17	2,239.00	Salado				
	3,198.29	3,192.00	Base Salt				
	3,578.92	3,571.00	Yates				
	4,023.84	4,014.00	Seven Rivers				
	4,739.92	4,727.00	Queen				
	6,075.73	6,061.00	Delaware Mtn Group				
	7,705.73	7,691.00	Bone Spring Lime				
	9,245.36	9,148.00	First Bone Spring Sand				
	9,590.77	9,249.00	HZ Target				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
8,690.77	8,676.04	-279.17	-177.70	KOP: 8690.77' MD/ -277.55' VS/8676.04' TVD
8,937.39	8,915.12	-226.91	-178.17	100FLL: 8937.39' MD/ -225.28' VS/8915.12' TVD
9,590.77	9,249.00	293.77	-182.86	EOC: 9590.77' MD/ 295.42' VS/9249.00' TVD
24,740.57	9,249.00	15,442.95	-319.35	TD: 24740.57' MD/ 15445.22' VS/9249.00' TVD



# Rope State Com 301H

- 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)		3,981'	3,981'	0	Sand/Gravels/Unconsolidated
Rustler	2022	1,959'			Carbonates
Salado	1742	2,239'			Salt, Carbonate & Clastics
Base Salt	789	3,192'			Shaley Carbonate & Shale
Yates	411	3,571'			Anhydrite/Shale
Seven Rivers	-32	4,014'			Interbedded Shale/Carbonate
Queen	-746	4,727'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2080	6,061'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3710	7,691'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5167	9,148'			Sandstone - oil/gas/water
HZ Target	-5267	9,249'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5354	9,336'			Shale/Carbonates - oil/gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,061'	Oil
1 <sup>st</sup> Bone Spring Sand	9,148'	Oil
2 <sup>nd</sup> Bone Spring Carb	9,336'	Oil
2 <sup>nd</sup> Bone Spring Sand	N/A	Oil
3 <sup>rd</sup> Bone Spring Sand	N/A	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 2,010' and circulating cement back to surface.

## 4. Casing Program:

All casing strings will be run new.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length		API desig	gn facto	r
Casing string	weight	Graue	Duist	Collapse	Telision	Collii	Length	Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	2,010	0.99	1.08	4.07	4.34
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,225	2.01	2.14	3.41	3.87
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	8,691	2.07	2.65	2.71	2.78
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	16,049 9,249	1.15	1.62	1.52	1.58 2.34

Tapered production string will be ran with a X-over installed at the KOP of 8,691'.



#### **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						Tail		
Type	Size	Size	Setting	Sacks	Type of cmt	Yield	Water	TOC	Sacks	Type of cmt	Yield	Water	TOC	Excess
506			Depth			ft3/sk	gal/sk	ft			ft3/sk	gal/sk		
Surf	17.5	13.375	2,010	1091	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	4,225	681	Lead, 11.3 ppg,	2.74	16.31	0	201	Econolite	1.33	6.33	1,297	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	8,691	376	HSLD 9420, 10.5	3.99	25.51	3,225						100%
					ppg, Class C, 1#/sk									
					Salt, 4% STE									
					1% C-45									
Prod	8.75	5.5	24,740						4004	HSLD 80,	1.52	7.59	8,691	50%
										13.ppg,				
										32#/sk Salt,				
										4% STE, 1#/sk				
										Gyp Seal				

#### **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 ½" 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 – 2,010'	Fresh - Gel	8.6-8.8	28-34	N/c
2,010' – 4,225'	Brine	8.8- 10.2	28-34	N/c
4,225" – 9,591'	Brine	8.8- 10.2	28-34	N/c
9,591' – 24,740' Lateral	Oil Base	9.0-11	58-68	3 - 6

Γhe

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 9,249' TVD (deepest point of the well) is 165F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,290' 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
  - 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 ½" 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	Energy 3, LLC	OG	RID:331595	i	Date:7/3/2024
II. Type: ⊠ Original [	☐ Amendme	ent due to □ 19.15.	27.9.D(6)(a) NN	MAC □ 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	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						
V. Anticipated Schedule or proposed to be recomple	: Provide the eted from a s	e following informatingle well pad or co	ntion for each ne	w or recompleted on tral delivery point	well or set of wel t.	lls proposed to be drilled
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		
See Attached Well List						
VI. Separation Equipmen VII. Operational Practic Subsection A through F of VIII. Best Management during active and planned	es: ⊠ Attac 19.15.27.8 I Practices: □	h a complete descr NMAC.	ription of the ac	tions Operator wil	l take to comply	with the requirements o

## 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 production.
- XIII. Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- **XIV.** Confidentiality: 
  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information 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 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: Joseph Verlag Signature:
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.

recompleted from a single well p		,,,,,		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

