<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 356739

1. Operator Name and Address	2. OGRID Number
Franklin Mountain Energy 3, LLC	331595
44 Cook Street	3. API Number
Denver, CO 80206	30-025-52376

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

Denver, CO 80206 4. Property Code 5. Property Name 6. Well No. 333824 EAGLE STATE COM 504H

7 Surface Location

UL - Lot		Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	Α	3	19S	35E	1	578	N	1291	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
Р	10	19S	35E	Р	100	S	600	E	Lea

9. Pool Information

SCHARB; BONE SPRING 55610

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	3824
16. Multiple 17. Proposed Depth		18. Formation	19. Contractor	20. Spud Date
N	19548	2nd Bone Spring Sand		5/15/2024
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

Type Double Ram 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	1851	1424	0
Int1	12.25	9.625	40	3994	844	0
Prod	8.75	7	32	8915	410	2994
Prod	8.75	5.5	20	19548	2654	8915

Casing/Cement Program: Additional Comments

Please see attached 14 point plan for additional information.

22. Proposed Blowout Prevention Program Working Pressure Test Pressure Manufacturer 10000 5000 Cactus

knowledge and b	pelief.	is true and complete to the best of my) NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSE	RVATION DIVISION		
Printed Name:	Electronically filed by Rachael A	Overbey	Approved By:	Paul F Kautz			
Title:	Project Manager		Title:	Geologist	Geologist		
Email Address:	roverbey@fmellc.com		Approved Date:	1/5/2024	Expiration Date: 1/5/2026		
Date:	1/3/2024	Phone: 303-570-4057	Conditions of Approval Attached				

Received by OCD: 1/3/2024 1:52:01 PM

• BOTTOM HOLE LOCATION

SECTION CORNER

RE-ESTABLISHED.

(Not Set on Ground.)

SECTION CORNER LOCATED

<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

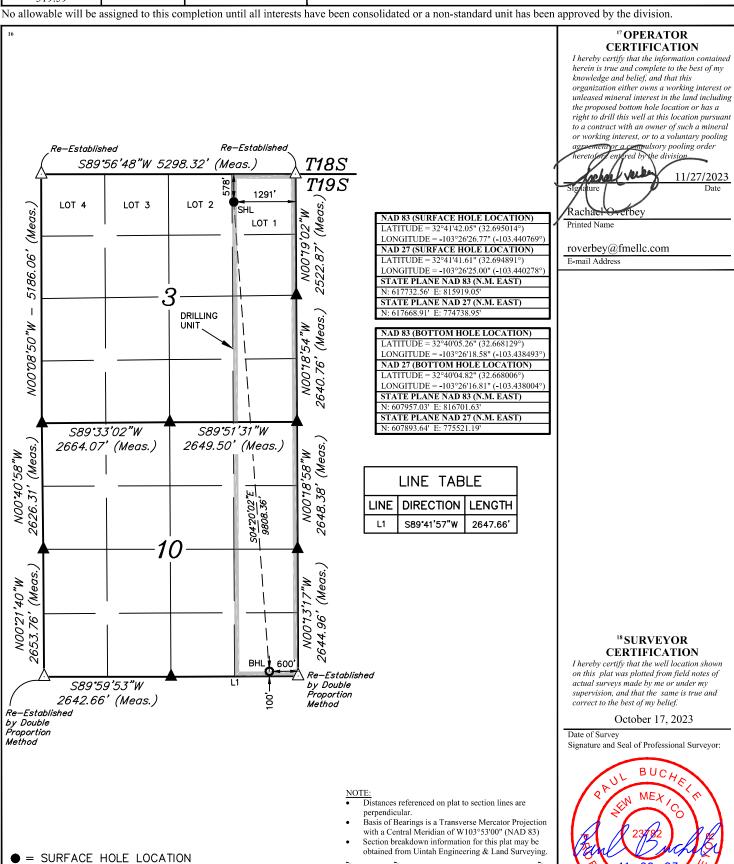
¹ API Number	¹ API Number		² Pool Code ³ Pool Name				
		55610 SCHARB;BONE SPRING					
⁴ Property Code			operty Name	6 Well Number			
		EAGLI	E STATE COM	504H			
7 OGRID No.			perator Name	⁹ Elevation			
331595	1	FRANKLIN MOU	3824.4'				

10 Surface Location

UL or lot no.	Section 3	Township 19S	Range 35E	Lot Idn	Feet from the 578	North/South line NORTH	Feet from the 1291	East/West line EAST	County LEA
---------------	--------------	-----------------	--------------	---------	-------------------	---------------------------	-----------------------	------------------------	---------------

"Bottom Hole Location If Different From Surface

UL or lot no. P	Secti 1(ion)	Township 19S	Range 35E	Lot Idn		from the	North/South line SOUTH	Feet from the 600	East/West line EAST	County LEA
12 Dedicated Acre 319.59	es	¹³ J ₀	int or Infill	14 Conso	olidation Code	15	Order No.				



8

SCALE DRAWN BY: N.R. 11-09-23

SE Cor. Sec. 15



Released to Imaging: 1/5/2024 11:59:22 AM

Certificate Number:

Permit 356739

Form APD Conditions

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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]	30-025-52376
44 Cook Street	Well:
Denver, CO 80206	EAGLE STATE COM #504H

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



Eagle State Com 504H

- 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)	3,826'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2055	1,801'			Carbonates
Salado	1819	2,037'			Salt, Anhydrite & Clastics
Base Salt	697	3,159'			Shaley Carbonate & Shale
Yates	522	3,334'			Anhyrite/Shale
Seven Rivers	90	3,766'			Interbedded Shale/Carbonate
Queen	-664	4,521'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2220	6,076'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3475	7,332'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5060	8,916'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5287	9,143'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-5429	9,285'			Sandstone - oil/gas/water
HZ Target	-5564	9,420'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-5890	9,746'			Shale/Carbonates - oil/gas

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

'ater

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 1,851' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new.

Cosing string	Mojeht	Grade	Duret	Callanca	Tonsion	Conn	Longth	9	API desi	gn facto	r
Casing string	Weight	Graue	Burst	Collapse	Telision	Conn	Length	Burst	Collapse	Tension	Coupling
	917(9217)	225000	5000000000	0.000000000	1907/037	BTC	17-75-22-18-75	V007000000	100 70000	2275200000	1034490000
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1,851	1.03	1.17	4.25	4.53
						DTO					
					04.5	BTC					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	3,994	2.08	2.26	3.53	4.01
						CDC-HTQ	0.0000000000000000000000000000000000000				
Production 7"	32	HCP-110	12460	10760	1025	1053	8,915	2.03	2.58	2.66	2.73
	10.000er	100000000000000000000000000000000000000		2000/00/100/00	2000	CDC-HTQ			977.7.44912	540000000	1787 (na 877) A.O.
Production 5 1/2"	20	HCP-110	12640	12200	641	667	10,633	1.15	2.45	2.05	2.13
							9,420				2.31

Tapered production string will be ran with a X-over installed at the KOP of 8,915'.



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			Lea	d						Tail		
Туре	Size	Size	Setting Depth	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	тос	Excess
Surf	17.5	13.375	1,851	983	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel,3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	0	100%
Int1	12.25	9.625	3,994	643	Lead, 11.3 ppg, HSLD 82 10% Gel, 4% STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	1,217	100%
Prod	8.75	7	8,915	410	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	2,994						100%
Prod	8.75	5.5	19,548						2654	HSLD 80, 13.ppg, 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	8,915	50%

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 – 1,851'	Fresh - Gel	8.6-8.8	28-34	N/c
3,994' – 3,994'	Brine	8.8- 10.2	28-34	N/c
3,994' – 19,548' 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 9,420' TVD (deepest point of the well) is 170F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,388' 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.



Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)
Eagle East Pad
(A04) Eagle State Com 504H - Slot (A04) ESC 504H

504H

Plan: APD-Rev01

Standard Planning Report

01 December, 2023



TZ USA 17.2 Database:

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

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

504H Wellbore: APD-Rev01 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

179.46

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

Minimum Curvature

Project PV_Lea County, NM(N83-NME3001)

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

Mean Sea Level System Datum:

0.00

Site Eagle East Pad

Northing: 617.732.10 usft 32.69501447 Site Position: Latitude: 815,829.07 usft Easting: -103.44106139 From: Мар Longitude:

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

0.00

Well (A04) Eagle State Com 504H - Slot (A04) ESC 504H

Well Position +N/-S 0.00 usft Northing: 617,732.56 usft Latitude: 32.69501365 +E/-W 0.00 usft Easting: 815,919.05 usft Longitude: -103.44076892

0.00 usft **Position Uncertainty** Wellhead Elevation: usft Ground Level: 3,826.00 usft

Grid Convergence: 0.48°

Wellbore 504H

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 11/30/2023 6.23 60.26 47,525.24301082

APD-Rev01 Design Audit Notes: PLAN 0.00 Version: Tie On Depth: Phase: Vertical Section: Depth From (TVD) +N/-S Direction +E/-W (usft) (usft) (usft) (°)

0.00

12/1/2023 **Plan Survey Tool Program** Date Depth To **Depth From** (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.00 19,548.39 APD-Rev01 (504H) MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

an 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	
2,129.18	9.44	52.25	2,126.34	31.65	40.88	1.50	1.50	0.00	52.25	
6,624.17	9.44	52.25	6,560.49	482.89	623.68	0.00	0.00	0.00	0.00	
7,567.95	0.00	0.00	7,500.00	530.37	685.00	1.00	-1.00	0.00	180.00	
8,914.99	0.00	0.00	8,847.04	530.37	685.00	0.00	0.00	0.00	0.00	
9,814.99	90.00	179.46	9,420.00	-42.56	690.42	10.00	10.00	19.94	179.46	
19,548.39	90.00	179.46	9,420.00	-9,775.53	782.58	0.00	0.00	0.00	0.00	02-PBHL(ESC-504H



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

sign:		APD-Rev01								
anned Si	urvey									
	easured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00 30.00	0.00 0.00	0.00 0.00	0.00 30.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
С	Cenozoic Allu									
	100.00 200.00 300.00	0.00 0.00 0.00	0.00 0.00 0.00	100.00 200.00 300.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	400.00 500.00 600.00 700.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	400.00 500.00 600.00 700.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	800.00 900.00	0.00 0.00	0.00 0.00	800.00 900.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
	1,000.00 1,100.00 1,200.00 1,300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1,000.00 1,100.00 1,200.00 1,300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 1.50 3.00	0.00 0.00 52.25 52.25	1,400.00 1,500.00 1,599.99 1,699.91	0.00 0.00 0.80 3.20	0.00 0.00 1.03 4.14	0.00 0.00 -0.79 -3.17	0.00 0.00 1.50 1.50	0.00 0.00 1.50 1.50	0.00 0.00 0.00 0.00
	1,800.00 1,801.31	4.50 4.52	52.25 52.25	1,799.69 1,801.00	7.21 7.27	9.31 9.39	-7.12 -7.18	1.50 1.50	1.50 1.50	0.00
R	Rustler	1.02	02.20	1,001.00	7.27	0.00	7.10	1.00	1.00	0.00
	1,900.00 2,000.00 2,038.78	6.00 7.50 8.08	52.25 52.25 52.25	1,899.27 1,998.57 2,037.00	12.81 20.01 23.22	16.55 25.84 30.00	-12.65 -19.76 -22.94	1.50 1.50 1.50	1.50 1.50 1.50	0.00 0.00 0.00
S	Salado	0.00	50.05	0.007.54	00.70	07.40	00.44	4.50	4.50	0.00
	2,100.00 2,129.18	9.00 9.44	52.25 52.25	2,097.54 2,126.34	28.79 31.65	37.18 40.88	-28.44 -31.27	1.50 1.50	1.50 1.50	0.00
	2,200.00 2,300.00 2,400.00 2,500.00	9.44 9.44 9.44 9.44	52.25 52.25 52.25 52.25	2,196.20 2,294.85 2,393.49 2,492.14	38.76 48.80 58.84 68.88	50.06 63.03 75.99 88.96	-38.29 -48.20 -58.12 -68.04	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	2,600.00 2,700.00 2,800.00 2,900.00	9.44 9.44 9.44 9.44	52.25 52.25 52.25 52.25	2,590.79 2,689.43 2,788.08 2,886.73	78.92 88.96 98.99 109.03	101.92 114.89 127.86 140.82	-77.95 -87.87 -97.78 -107.70	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	3,000.00	9.44	52.25	2,985.37	119.07	153.79	-117.62	0.00	0.00	0.00
	3,100.00 3,176.01 Base Salt	9.44 9.44	52.25 52.25	3,084.02 3,159.00	129.11 136.74	166.75 176.61	-127.53 -135.07	0.00 0.00	0.00 0.00	0.00 0.00
	3,200.00 3,300.00 3,353.41	9.44 9.44 9.44	52.25 52.25 52.25	3,182.66 3,281.31 3,334.00	139.15 149.19 154.55	179.72 192.68 199.61	-137.45 -147.36 -152.66	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Y	ates/									
	3,400.00 3,500.00 3,600.00 3,700.00 3,791.34	9.44 9.44 9.44 9.44 9.44	52.25 52.25 52.25 52.25 52.25	3,379.96 3,478.60 3,577.25 3,675.90 3,766.00	159.23 169.26 179.30 189.34 198.51	205.65 218.61 231.58 244.55 256.39	-157.28 -167.20 -177.11 -187.03 -196.09	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
S	Seven Rivers			•						
	3,800.00	9.44	52.25	3,774.54	199.38	257.51	-196.95	0.00	0.00	0.00



Database: TZ USA 17.2

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

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

Design:		APD-Rev01								
lanned Su	ırvey									
	easured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	3,900.00	9.44	52.25	3,873.19	209.42	270.48	-206.86	0.00	0.00	0.00
	4,000.00	9.44	52.25	3,971.84	219.46	283.44	-216.78	0.00	0.00	0.00
	4,100.00	9.44	52.25	4,070.48	229.50	296.41	-226.69	0.00	0.00	0.00
	4,200.00	9.44	52.25	4,169.13	239.54	309.37	-236.61	0.00	0.00	0.00
	4.300.00	9.44	52.25	4,267.78	249.57	322.34	-246.53	0.00	0.00	0.00
	4,400.00	9.44	52.25	4,366.42	259.61	335.30	-256.44	0.00	0.00	0.00
	4,500.00	9.44	52.25	4,465.07	269.65	348.27	-266.36	0.00	0.00	0.00
	4,555.69	9.44	52.25	4,520.00	275.24	355.49	-271.88	0.00	0.00	0.00
0	ueen	· · · ·	02.20	1,020.00	2.0.2.	0000	2	0.00	0.00	0.00
	4,600.00	9.44	52.25	4,563.71	279.69	361.23	-276.27	0.00	0.00	0.00
	4,700.00	9.44	52.25	4,662.36	289.73	374.20	-286.19	0.00	0.00	0.00
	4,800.00	9.44	52.25	4,761.01	299.77	387.17	-296.11	0.00	0.00	0.00
	4,900.00	9.44	52.25	4,859.65	309.81	400.13	-306.02	0.00	0.00	0.00
	5,000.00	9.44	52.25	4,958.30	319.85	413.10	-315.94	0.00	0.00	0.00
	5,100.00	9.44	52.25	5,056.95	329.88	426.06	-325.85	0.00	0.00	0.00
	5,200.00	9.44	52.25	5,155.59	339.92	439.03	-335.77	0.00	0.00	0.00
	5,300.00	9.44	52.25	5,254.24	349.96	451.99	-345.69	0.00	0.00	0.00
	5,400.00	9.44	52.25	5,352.89	360.00	464.96	-355.60	0.00	0.00	0.00
	5,500.00	9.44	52.25	5,451.53	370.04	477.92	-365.52	0.00	0.00	0.00
	5,600.00	9.44	52.25	5,550.18	380.08	490.89	-375.43	0.00	0.00	0.00
	5,700.00	9.44	52.25	5,648.83	390.12	503.86	-385.35	0.00	0.00	0.00
	5,800.00	9.44	52.25	5,747.47	400.16	516.82	-395.27	0.00	0.00	0.00
	5,900.00	9.44	52.25	5,846.12	410.19	529.79	-405.18	0.00	0.00	0.00
	6,000.00	9.44	52.25	5,944.76	420.23	542.75	-415.10	0.00	0.00	0.00
	6,100.00	9.44	52.25	6,043.41	430.27	555.72	-425.01	0.00	0.00	0.00
	6,133.04	9.44	52.25	6,076.00	433.59	560.00	-428.29	0.00	0.00	0.00
	*		32.23	0,070.00	433.39	300.00	-420.29	0.00	0.00	0.00
	elaware Mtn 6,200.00	9.44	52.25	6,142.06	440.31	568.68	-434.93	0.00	0.00	0.00
	6,300.00	9.44	52.25	6,240.70	450.35	581.65	-434.93 -444.85	0.00	0.00	0.00
	6,400.00	9.44	52.25	6,339.35	460.39	594.61	-454.76	0.00	0.00	0.00
	6,500.00	9.44	52.25	6,438.00	470.43	607.58	-464.68	0.00	0.00	0.00
	6,600.00	9.44	52.25	6,536.64	480.46	620.54	-474.59	0.00	0.00	0.00
	6,624.17	9.44	52.25	6,560.49	482.89	623.68	-476.99	0.00	0.00	0.00
	6,700.00	8.68	52.25	6,635.37	490.20	633.12	-484.21	1.00	-1.00	0.00
	6,800.00	7.68	52.25	6,734.35	498.91	644.37	-492.82	1.00	-1.00	0.00
	6,900.00	6.68	52.25	6,833.57	506.56	654.25	-500.37	1.00	-1.00	0.00
	7,000.00	5.68	52.25	6,932.98	513.15	662.76	-506.88	1.00	-1.00	0.00
	7,100.00	4.68	52.25	7,032.57	518.68	669.90	-512.34	1.00	-1.00	0.00
	7,200.00	3.68	52.25	7,132.31	523.14	675.66	-516.75	1.00	-1.00	0.00
	7,300.00	2.68	52.25	7,232.15	526.54	680.05	-520.10	1.00	-1.00	0.00
	7,398.92	1.69	52.25	7,331.00	528.84	683.03	-522.38	1.00	-1.00	0.00
В	one Spring I	Lime								
	7.400.00	1.68	52.25	7,332.08	528.86	683.05	-522.40	1.00	-1.00	0.00
	7,500.00	0.68	52.25	7,432.06	530.12	684.68	-523.65	1.00	-1.00	0.00
	7,567.95	0.00	0.00	7,500.00	530.37	685.00	-523.89	1.00	-1.00	0.00
	7,600.00	0.00	0.00	7,532.05	530.37	685.00	-523.89	0.00	0.00	0.00
	7,700.00	0.00	0.00	7,632.05	530.37	685.00	-523.89	0.00	0.00	0.00
	7,800.00	0.00	0.00	7,732.05	530.37	685.00	-523.89	0.00	0.00	0.00
	7,900.00	0.00	0.00	7,832.05	530.37	685.00	-523.89	0.00	0.00	0.00
	8,000.00	0.00	0.00	7,932.05	530.37	685.00	-523.89	0.00	0.00	0.00
	8,100.00	0.00	0.00	8,032.05 8,132.05	530.37	685.00	-523.89 -523.89	0.00	0.00	0.00
	8,200.00	0.00	0.00	0,132.00	530.37	685.00	-523.89	0.00	0.00	0.00



Database: TZ USA 17.2

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

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

ign:	APD-Rev01								
nned Survey									
Measure Depth (usft)	d Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,300		0.00	8,232.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,400	.00 0.00	0.00	8,332.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,500	.00 0.00	0.00	8,432.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,600	.00 0.00	0.00	8,532.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,700	.00 0.00	0.00	8,632.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,800	.00 0.00	0.00	8,732.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,900		0.00	8,832.05	530.37	685.00	-523.89	0.00	0.00	0.00
8,914		0.00	8,847.04	530.37	685.00	-523.89	0.00	0.00	0.00
	14.99' MD/ -523.89' \	/S/8847.04' TVE							
8,950		179.46	8,882.03	529.30	685.01	-522.82	10.00	10.00	0.00
8,984		179.46	8,916.00	526.21	685.04	-519.73	10.00	10.00	0.00
	ne Spring Sand		-,-						
		470.40	0.004.74	504.07	005.00	547.00	40.00	40.00	0.00
9,000 9,050		179.46 179.46	8,931.74 8,980.81	524.07 514.54	685.06 685.15	-517.60 -508.06	10.00 10.00	10.00 10.00	0.00 0.00
9,050		179.46	9,028.86	500.76	685.28	-306.06 -494.28	10.00	10.00	0.00
9,100		179.46	9,026.60	483.07	685.45	-494.26 -476.59	10.00	10.00	0.00
-,	9149.44' MD/ -476.5			403.07	003.43	-470.55	10.00	10.00	0.00
9,150		179.46	9,075.52	482.85	685.45	-476.36	10.00	10.00	0.00
•									
9,200		179.46	9,120.44	460.93	685.66	-454.45	10.00	10.00	0.00
9,226		179.46	9,143.00	448.02	685.78	-441.53	10.00	10.00	0.00
	Bone Spring Carbon								
9,250		179.46	9,163.29	435.19	685.90	-428.71	10.00	10.00	0.00
9,300		179.46	9,203.73	405.81	686.18	-399.33	10.00	10.00	0.00
9,350	.00 43.50	179.46	9,241.45	373.02	686.49	-366.53	10.00	10.00	0.00
9,395	.70 48.07	179.46	9,273.31	340.28	686.80	-333.79	10.00	10.00	0.00
01-T98(I	ESC-504H)								
9,400		179.46	9,276.17	337.06	686.83	-330.58	10.00	10.00	0.00
9,413	.51 49.85	179.46	9,285.00	326.84	686.93	-320.35	10.00	10.00	0.00
Second	Bone Spring Sand								
9,450		179.46	9,307.62	298.22	687.20	-291.73	10.00	10.00	0.00
9,500	.00 58.50	179.46	9,335.57	256.78	687.59	-250.29	10.00	10.00	0.00
9,550	.00 63.50	179.46	9,359.81	213.07	688.00	-206.57	10.00	10.00	0.00
9,600		179.46	9,380.14	167.40	688.44	-160.91	10.00	10.00	0.00
9,650		179.46	9,396.41	120.15	688.88	-113.65	10.00	10.00	0.00
9,700	.00 78.50	179.46	9,408.50	71.65	689.34	-65.15	10.00	10.00	0.00
9,750	.00 83.50	179.46	9,416.32	22.28	689.81	-15.78	10.00	10.00	0.00
9,800	.00 88.50	179.46	9,419.80	-27.58	690.28	34.08	10.00	10.00	0.00
9,814		179.46	9,420.00	-42.56	690.42	49.07	10.00	10.00	0.00
	314.99' MD/ 49.07' VS								
9,900		179.46	9,420.00	-127.57	691.23	134.08	0.00	0.00	0.00
10,000	.00 90.00	179.46	9,420.00	-227.57	692.18	234.08	0.00	0.00	0.00
10,100	.00 90.00	179.46	9,420.00	-327.56	693.12	334.08	0.00	0.00	0.00
10,200	.00 90.00	179.46	9,420.00	-427.56	694.07	434.08	0.00	0.00	0.00
10,300		179.46	9,420.00	-527.55	695.02	534.08	0.00	0.00	0.00
10,400		179.46	9,420.00	-627.55	695.96	634.08	0.00	0.00	0.00
10,500		179.46	9,420.00	-727.55	696.91	734.08	0.00	0.00	0.00
10,600		179.46	9,420.00	-827.54	697.86	834.08	0.00	0.00	0.00
10,700		179.46	9,420.00	-927.54	698.80	934.08	0.00	0.00	0.00
10,700		179.46	9,420.00	-927.54 -1,027.53	699.75	1,034.08	0.00	0.00	0.00
10,800		179.46	9,420.00	-1,127.53	700.70	1,134.08	0.00	0.00	0.00
		179.46	9,420.00	-1,227.52	701.64	1,234.08	0.00	0.00	0.00
11,000									



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Eagle East Pad

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Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid Minimum Curvature

Design:	APD-Rev01								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,200.00	90.00	179.46	9,420.00	-1,427.51	703.54	1,434.08	0.00	0.00	0.00
11,300.00	90.00	179.46	9,420.00	-1,527.51	704.48	1,534.08	0.00	0.00	0.00
11,400.00	90.00	179.46	9,420.00	-1,627.51	705.43	1,634.08	0.00	0.00	0.00
11,500.00	90.00	179.46	9,420.00	-1,727.50	706.38	1,734.08	0.00	0.00	0.00
11,600.00	90.00	179.46	9,420.00	-1,827.50	707.33	1,834.08	0.00	0.00	0.00
11,700.00	90.00	179.46	9,420.00	-1,927.49	708.27	1,934.08	0.00	0.00	0.00
11,800.00	90.00	179.46	9,420.00	-2,027.49	708.27	2,034.08	0.00	0.00	0.00
11,900.00	90.00	179.46	9,420.00	-2,127.48	710.17	2,034.08	0.00	0.00	0.00
12,000.00	90.00	179.46	9,420.00	-2,127.48	710.17	2,134.08	0.00	0.00	0.00
12,100.00	90.00	179.46	9,420.00	-2,327.47	712.06	2,334.08	0.00	0.00	0.00
12,200.00	90.00	179.46	9,420.00	-2,427.47	713.01	2,434.08	0.00	0.00	0.00
12,300.00	90.00	179.46	9,420.00	-2,527.47	713.95	2,534.08	0.00	0.00	0.00
12,400.00	90.00	179.46	9,420.00	-2,627.46	714.90	2,634.08	0.00	0.00	0.00
12,500.00	90.00	179.46	9,420.00	-2,727.46	715.85	2,734.08	0.00	0.00	0.00
12,600.00	90.00	179.46	9,420.00	-2,827.45	716.79	2,834.08	0.00	0.00	0.00
12,700.00	90.00	179.46	9,420.00	-2,927.45	717.74	2,934.08	0.00	0.00	0.00
12,800.00	90.00	179.46	9,420.00	-3,027.44	718.69	3,034.08	0.00	0.00	0.00
12,900.00	90.00	179.46	9,420.00	-3,127.44	719.63	3,134.08	0.00	0.00	0.00
13,000.00	90.00	179.46	9,420.00	-3,227.43	720.58	3,234.08	0.00	0.00	0.00
13,100.00	90.00	179.46	9,420.00	-3,327.43	721.53	3,334.08	0.00	0.00	0.00
13,200.00	90.00	179.46	9,420.00	-3,427.42	722.47	3,434.08	0.00	0.00	0.00
13,300.00	90.00	179.46	9,420.00	-3,527.42	723.42	3,534.08	0.00	0.00	0.00
13,400.00	90.00	179.46	9,420.00	-3,627.42	724.37	3,634.08	0.00	0.00	0.00
13,500.00	90.00	179.46	9,420.00	-3,727.41	725.31	3,734.08	0.00	0.00	0.00
13,600.00	90.00	179.46	9,420.00	-3,827.41	726.26	3,834.08	0.00	0.00	0.00
13,700.00	90.00	179.46	9,420.00	-3,927.40	727.21	3,934.08	0.00	0.00	0.00
13,800.00	90.00	179.46	9,420.00	-4,027.40 -4,027.40	727.21	4,034.08	0.00	0.00	0.00
13,900.00	90.00	179.46	9,420.00	-4,027.40 -4,127.39	720.13	4,034.08	0.00	0.00	0.00
14,000.00	90.00	179.46	9,420.00	-4,227.39	730.05	4,234.08	0.00	0.00	0.00
14,100.00	90.00	179.46	9,420.00	-4,327.38	730.99	4,334.08	0.00	0.00	0.00
14,200.00	90.00	179.46	9,420.00	-4,427.38	731.94	4,434.08	0.00	0.00	0.00
14,300.00	90.00	179.46	9,420.00	-4,527.38	732.89	4,534.08	0.00	0.00	0.00
14,400.00	90.00	179.46	9,420.00	-4,627.37	733.84	4,634.08	0.00	0.00	0.00
14,500.00 14,600.00	90.00 90.00	179.46 179.46	9,420.00	-4,727.37 -4,827.36	734.78	4,734.08	0.00	0.00 0.00	0.00 0.00
,			9,420.00		735.73	4,834.08	0.00		
14,700.00	90.00	179.46	9,420.00	-4,927.36	736.68	4,934.08	0.00	0.00	0.00
14,800.00	90.00	179.46	9,420.00	-5,027.35	737.62	5,034.08	0.00	0.00	0.00
14,900.00	90.00	179.46	9,420.00	-5,127.35	738.57	5,134.08	0.00	0.00	0.00
15,000.00	90.00	179.46	9,420.00	-5,227.34	739.52	5,234.08	0.00	0.00	0.00
15,100.00	90.00	179.46	9,420.00	-5,327.34	740.46	5,334.08	0.00	0.00	0.00
15,200.00	90.00	179.46	9,420.00	-5,427.34	741.41	5,434.08	0.00	0.00	0.00
15,300.00	90.00	179.46	9,420.00	-5,527.33	742.36	5,534.08	0.00	0.00	0.00
15,400.00	90.00	179.46	9,420.00	-5,627.33	743.30	5,634.08	0.00	0.00	0.00
15,500.00	90.00	179.46	9,420.00	-5,727.32	744.25	5,734.08	0.00	0.00	0.00
15,600.00	90.00	179.46	9,420.00	-5,827.32	745.20	5,834.08	0.00	0.00	0.00
15,700.00	90.00	179.46	9,420.00	-5,927.31	746.14	5,934.08	0.00	0.00	0.00
15,800.00	90.00	179.46	9,420.00	-6,027.31	747.09	6,034.08	0.00	0.00	0.00
15,900.00	90.00	179.46	9,420.00	-6,127.30	748.04	6,134.08	0.00	0.00	0.00
16,000.00	90.00	179.46	9,420.00	-6,227.30	748.98	6,234.08	0.00	0.00	0.00
16,100.00	90.00	179.46	9,420.00	-6,327.29	749.93	6,334.08	0.00	0.00	0.00
16,200.00	90.00	179.46	9,420.00	-6,427.29	750.88	6,434.08	0.00	0.00	0.00
16,300.00	90.00	179.46	9,420.00	-6,527.29	750.86 751.82	6,534.08	0.00	0.00	0.00
16,400.00	90.00	179.46	9,420.00	-6,627.28	752.77	6,634.08	0.00	0.00	0.00
10,700.00	30.00	173.40	5,720.00	-0,021.20	102.11	0,004.00	0.00	0.00	0.00



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,500.00	90.00	179.46	9.420.00	-6,727.28	753.72	6,734.08	0.00	0.00	0.00
16,600.00	90.00	179.46	9,420.00	-6,827.27	754.66	6,834.08	0.00	0.00	0.00
16,700.00	90.00	179.46	9,420.00	-6,927.27	755.61	6,934.08	0.00	0.00	0.00
16,800.00	90.00	179.46	9,420.00	-7,027.26	756.56	7,034.08	0.00	0.00	0.00
16,900.00	90.00	179.46	9,420.00	-7,127.26	757.51	7,134.08	0.00	0.00	0.00
17,000.00	90.00	179.46	9,420.00	-7,227.25	758.45	7,234.08	0.00	0.00	0.00
17,100.00	90.00	179.46	9,420.00	-7,327.25	759.40	7,334.08	0.00	0.00	0.00
17,200.00	90.00	179.46	9,420.00	-7,427.25	760.35	7,434.08	0.00	0.00	0.00
17,300.00	90.00	179.46	9,420.00	-7,527.24	761.29	7,534.08	0.00	0.00	0.00
17,400.00	90.00	179.46	9,420.00	-7,627.24	762.24	7,634.08	0.00	0.00	0.00
17,500.00	90.00	179.46	9,420.00	-7,727.23	763.19	7,734.08	0.00	0.00	0.00
17,600.00	90.00	179.46	9,420.00	-7,827.23	764.13	7,834.08	0.00	0.00	0.00
17,700.00	90.00	179.46	9,420.00	-7,927.22	765.08	7,934.08	0.00	0.00	0.00
17,800.00	90.00	179.46	9,420.00	-8,027.22	766.03	8,034.08	0.00	0.00	0.00
17,900.00	90.00	179.46	9,420.00	-8,127.21	766.97	8,134.08	0.00	0.00	0.00
18,000.00	90.00	179.46	9,420.00	-8,227.21	767.92	8,234.08	0.00	0.00	0.00
18,100.00	90.00	179.46	9,420.00	-8,327.21	768.87	8,334.08	0.00	0.00	0.00
18,200.00	90.00	179.46	9,420.00	-8,427.20	769.81	8,434.08	0.00	0.00	0.00
18,300.00	90.00	179.46	9,420.00	-8,527.20	770.76	8,534.08	0.00	0.00	0.00
18,400.00	90.00	179.46	9,420.00	-8,627.19	771.71	8,634.08	0.00	0.00	0.00
18,500.00	90.00	179.46	9,420.00	-8,727.19	772.65	8,734.08	0.00	0.00	0.00
18,600.00	90.00	179.46	9,420.00	-8,827.18	773.60	8,834.08	0.00	0.00	0.00
18,700.00	90.00	179.46	9,420.00	-8,927.18	774.55	8,934.08	0.00	0.00	0.00
18,800.00	90.00	179.46	9,420.00	-9,027.17	775.49	9,034.08	0.00	0.00	0.00
18,900.00	90.00	179.46	9,420.00	-9,127.17	776.44	9,134.08	0.00	0.00	0.00
19,000.00	90.00	179.46	9,420.00	-9,227.16	777.39	9,234.08	0.00	0.00	0.00
19,100.00	90.00	179.46	9,420.00	-9,327.16	778.33	9,334.08	0.00	0.00	0.00
19,200.00	90.00	179.46	9,420.00	-9,427.16	779.28	9,434.08	0.00	0.00	0.00
19,300.00	90.00	179.46	9,420.00	-9,527.15	780.23	9,534.08	0.00	0.00	0.00
19,400.00	90.00	179.46	9,420.00	-9,627.15	781.18	9,634.08	0.00	0.00	0.00
19,500.00	90.00	179.46	9,420.00	-9,727.14	782.12	9,734.08	0.00	0.00	0.00
19,548.39	90.00	179.46	9,420.00	-9,775.53	782.58	9,782.47	0.00	0.00	0.00

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(ESC-504H) - plan hits target cer - Point	0.00 nter	0.00	9,420.00	-9,775.53	782.58	607,957.03	816,701.63	32.66812875	-103.43849328
01-T98(ESC-504H) - plan misses target - Point	0.00 center by 203	0.00 .93usft at 93	9,420.00 95.70usft MI	481.94 D (9273.31 TV	686.59 D, 340.28 N, 6	618,214.50 686.80 E)	816,605.64	32.69632229	-103.43852408



Database: TZ USA 17.2

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

Site: Eagle East Pad

Well: (A04) Eagle State Com 504H

Wellbore: 504H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (A04) Eagle State Com 504H - Slot

(A04) ESC 504H 3826+30 @ 3856.00usft 3826+30 @ 3856.00usft

Grid

mations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	30.00	30.00	Cenozoic Alluvium				
	1,801.31	1,801.00	Rustler				
	2,038.78	2,037.00	Salado				
	3,176.01	3,159.00	Base Salt				
	3,353.41	3,334.00	Yates				
	3,791.34	3,766.00	Seven Rivers				
	4,555.69	4,520.00	Queen				
	6,133.04	6,076.00	Delaware Mtn Group				
	7,398.92	7,331.00	Bone Spring Lime				
	8,984.11	8,916.00	First Bone Spring Sand				
	9,226.00	9,143.00	Second Bone Spring Carbonate				
	9,413.51	9,285.00	Second Bone Spring Sand				
	9,814.99	9,420.00	HZ Target				

Plan Annotation	ns				
	Measured	Vertical	Local Coor	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(usft)	(usft)	(usft)	(usft)	Comment
	8,914.99	8,847.04	530.37	685.00	KOP: 8914.99' MD/ -523.89' VS/8847.04' TVD
	9,149.44	9,075.01	483.07	685.45	100FLL: 9149.44' MD/ -476.59' VS/9075.01' TVD
	9,814.99	9,420.00	-42.57	690.42	EOC: 9814.99' MD/ 49.07' VS/9420.00' TVD
	19,548.39	9,420.00	-9,775.53	782.58	TD: 19548.39' MD/ 9782.47' VS/9420.00' TVD

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

ı Mountain I	Energy 3, LLC	OG	RID:331595		Date:1/3/2024			
□ Amendme	ent due to □ 19.15.	27.9.D(6)(a) NN	MAC □ 19.15.27.9	.D(6)(b) NMAC	☐ Other.			
				f wells proposed	to be drilled or proposed			
API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D			
IV. Central Delivery Point Name:Eagle/Norte CTB [See 19.15.27.9(D)(1) NMAC] 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.								
API	Spud Date	TD Reached Date						
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.								
	following ir single well part Name: Provide the eted from a s API API API API Practices:	Amendment due to □ 19.15. following information for each single well pad or connected to API ULSTR The Name:Eagle/Norte Provide the following informated from a single well pad or connected from a si	Amendment due to □ 19.15.27.9.D(6)(a) NM following information for each new or recomplishingle well pad or connected to a central deliver. API ULSTR Footages The Provide the following information for each needed from a single well pad or connected to a central deliver. Provide the following information for each needed from a single well pad or connected to a central deliver. API Spud Date TD Reached Date The Attach a complete description of how Openses: ☒ Attach a complete description of the actangle in the complete description of the co	Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9 following information for each new or recompleted well or set of single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D at Name:Eagle/Norte CTB Provide the following information for each new or recompleted betted from a single well pad or connected to a central delivery point API Spud Date TD Reached Completion Commencement The Attach a complete description of how Operator will size septes: ☑ Attach a complete description of the actions Operator will 19.15.27.8 NMAC. Practices: ☑ Attach a complete description of Operator's best in	following information for each new or recompleted well or set of wells proposed single well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D Anticipated Oil BBL/D Gas MCF/D The Name:Eagle/Norte CTB			

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	Available Maximum Daily Capacity
	-		Start Date	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: Joshan Verlage
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 1/3/2024
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
Eagle State Com 301H	30-025-51160	Lot 4, 3-19S-35E	325 FNL 645 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 302H	30-025-51194	Lot 4, 3-19S-35E	400 FNL 745 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 303H	30-025-51161	Lot 3, 3-19S-35E	325 FNL 1920 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 501H	30-025-51195	Lot 4, 3-19S-35E	325 FNL 670 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 502H	30-025-51196	Lot 3, 3-19S-35E	400 FNL 1945 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 601H	30-025-51197	Lot 4, 3-19S-35E	400 FNL 720 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 602H	30-025-51198	Lot 3, 3-19S-35E	400 FNL 1895 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 701H	30-025-51199	Lot 4, 3-19S-35E	325 FNL 695 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 702H	30-025-51200	Lot 3, 3-19S-35E	400 FNL 1920 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 703H	30-025-51201	Lot 3, 3-19S-35E	325 FNL 1945 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 304H	TBD	Lot 1, 3-19S-35E	578 FNL 1321 FEL	800 +/-	700 +/-	2500 +/-
Eagle State Com 503H	TBD	Lot 2, 3-19S-35E	578 FNL 1381 FEL	800 +/-	700 +/-	2500 +/-
Eagle State Com 504H	TBD	Lot 1, 3-19S-35E	578 FNL 1291 FEL	800 +/-	700 +/-	2500 +/-
Eagle State Com 704H	TBD	Lot 2, 3-19S-35E	578 FNL 1351 FEL	800 +/-	700 +/-	2500 +/-
Eagle State Com 705H	TBD	Lot 1, 3-19S-35E	578 FNL 1261 FEL	800 +/-	700 +/-	2500 +/-
Norte State Com 601H	30-025-51162	Lot 4, 3-19S-35E	400 FNL 670 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 602H	30-025-51163	Lot 3, 3-19S-35E	400 FNL 1995 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 701H	30-025-51164	Lot 4, 3-19S-35E	400 FNL 645 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 702H	30-025-51165	Lot 3, 3-19S-35E	325 FNL 1995 FWL	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 pad of		l l l l l l l l l l l l l l l l l l l		Completion	Initial	
		Spud Date		•	Flowback	
		•				E: 4B 1 4: B 4
Well Name	API 14 Digit	(Batch Drilling)	TD Reached Date	Date	Date	First Production Date
Eagle State Com 301H	30-025-51160	Producing				
Eagle State Com 302H	30-025-51194	5/1/2024	6/30/2024	7/15/2024	7/25/2024	7/27/2024
Eagle State Com 303H	30-025-51161	6/1/2024	7/31/2024	8/15/2024	8/25/2024	8/27/2024
Eagle State Com 501H	30-025-51195	Producing				
Eagle State Com 502H	30-025-51196	Producing				
Eagle State Com 601H	30-025-51197	5/1/2024	6/30/2024	7/15/2024	7/25/2024	7/27/2024
Eagle State Com 602H	30-025-51198	6/1/2024	7/31/2024	8/15/2024	8/25/2024	8/27/2024
Eagle State Com 701H	30-025-51199	Producing				
Eagle State Com 702H	30-025-51200	6/1/2024	7/31/2024	8/15/2024	8/25/2024	8/27/2024
Eagle State Com 703H	30-025-51201	Producing				
Eagle State Com 304H	TBD	5/15/2024	7/29/2024	8/13/2024	8/23/2024	8/25/2024
Eagle State Com 503H	TBD	5/15/2024	7/29/2024	8/13/2024	8/23/2024	8/25/2024
Eagle State Com 504H	TBD	5/15/2024	7/29/2024	8/13/2024	8/23/2024	8/25/2024
Eagle State Com 704H	TBD	5/15/2024	7/29/2024	8/13/2024	8/23/2024	8/25/2024
Eagle State Com 705H	TBD	5/15/2024	7/29/2024	8/13/2024	8/23/2024	8/25/2024
Norte State Com 601H	30-025-51162	5/1/2024	6/30/2024	7/15/2024	7/25/2024	7/27/2024
Norte State Com 602H	30-025-51163	6/1/2024	7/31/2024	8/15/2024	8/25/2024	8/27/2024
Norte State Com 701H	30-025-51164	5/1/2024	6/30/2024	7/15/2024	7/25/2024	7/27/2024
Norte State Com 702H	30-025-51165	Producing				



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.
 - 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.

Eagle/Norte NGMP Map Feb 2023

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

