Form C-101

<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**

August 1, 2011 Permit 336088

62		

APPLICA	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	Franklin Mountain Energy 3, LLC						
44 Cook Street	44 Cook Street						
Denver, CO 80206		30-025-51200					
4. Property Code	5. Property Name	6. Well No.					
333824	EAGLE STATE COM	702H					

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	3	19S	35E	3	400	N	1920	W	Lea

8. Proposed Bottom Hole Location

ſ	UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
	K	10	19S	35E	K	1428	S	1815	W	Lea

9. Pool Information

VI COLIMORITATION	
SCHARB;WOLFCAMP	55640

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3848	
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date	
N	18982	Wolfcamp		5/1/2023	
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

			cpccca cac;	, and coment regram		
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1900	1457	0
Int1	12.25	9.625	40	4000	841	0
Prod	8.75	7	32	9700	469	3000
Prod	8.75	5.5	20	18982	2317	9700

Casing/Cement Program: Additional Comments

Tapered production string will be ran with a X-over installed at the KOP of 9,700'. 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 and Intermediate strings to further optimization of drilling process and reduction of disturbance. Contingency plan: If adverse drilling conditions are encountered the drilling will pivot to contingency plan to deepen Intermediate casing string and run 2-stage cement job. Please see attached 14 Pt. Plan for additional information.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer	
Double Ram	10000	5000	Cactus	

knowledge and b	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION	
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:	3/14/2023	Expiration Date: 3/14/2025		
Date:	3/10/2023	Phone: 303-570-4057	Conditions of Approval Attached			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-51200		² Pool Code 55640	³ Pool Name SCHARB;WOLFCAN	MP	
4 Property Code 333824			Property Name 6 Well Number LE STATE COM 702H		
⁷ OGRID №. 331595			perator Name UNTAIN ENERGY 3, LLC	⁹ Elevation 3848.2'	

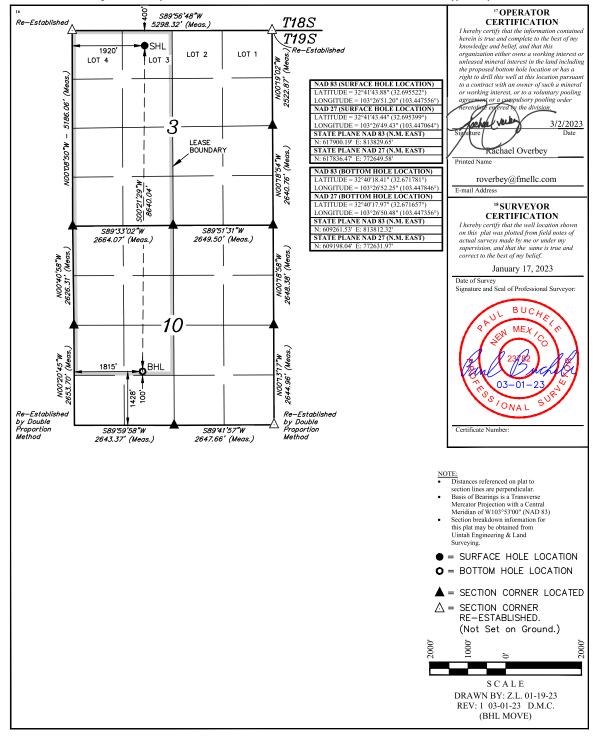
¹⁰ Surface Location

-1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	3	198	35E		400	NORTH	1920	WEST	LEA
_										

"Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	10	19S	35E		1428	SOUTH	1815	WEST	LEA
12 Dedicated Acr 559.31	es 13 J	oint or Infill	14 Conso	olidation Code	15 Order No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Form APD Conditions

Permit 336088

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

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

PERMIT CONDITIONS OF APPROVAL

0	perator Name and Address:	API Number:
	Franklin Mountain Energy 3, LLC [331595]	30-025-51200
	44 Cook Street	Well:
	Denver, CO 80206	EAGLE STATE COM #702H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud



Eagle State Com 702H

- 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)	3,855'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,076'	1,809'			Carbonates
Salado	1,841'	2,044'			Salt, Carbonate & Clastics
Base Salt	922'	2,963'			Shaley Carbonate & Shale
Yates	522'	3,363'			Carbonate & Clastics
Seven Rivers	74'	3,811'			Sandstone - oil/gas/water
Queen	-686'	4,571'			Sandstone - oil/gas/water
Cherry Canyon	-2,127'	6,013'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-3,584'	7,470'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,154'	9,039'			Shale/Carbonates - oil/gas
Second Bone Spring Carbonates	-5,419'	9,305'			Chert/Carbonate
Second Bone Spring Sand	-5,584'	9,469'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-6,013'	9,898'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,091'	9,976'			Sandstone - oil/gas/water
Wolfcamp	-6,248'	10,133'			Overpressure shale/sand- Oil/Gas
HZ Target	-6,388'	10,274'			Overpressure Shale - Oil/Gas
Wolfcamp B	-6,426'	10,312'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,013'	Oil
1 st Bone Spring Sand	9,039'	Oil
2 nd Bone Spring Sand	9,469'	Oil
3 rd Bone Spring Sand	9,976'	Oil
Wolfcamp	10,133'	Oil
Wolfcamp B	10,312'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,900'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 des	ign fac	tor
								Burst	Collapse	Tension	Coupling
						BTC					
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1900	1.02	1.14	4.19	4.47
0-1,900'											
						BTC					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	4000	2.08	2.26	3.52	4.01
0-4,000'											
						CDC-HTQ					
Production 7"	32	HCP-110	12460	10760	1025	1053	9700	2.06	2.37	2.50	2.57
0-9,700'											
						CDC-HTQ					
Production 5 1/2"	20	HCP-110	12640	12200	641	667	9282	1.15	2.81	2.24	2.34
9,700'-18,982'						TVD	10274				2.18

Tapered production string will be ran with a X-over installed at the KOP of 9,700'.



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 and Intermediate strings to further optimization of drilling process and reduction of disturbance.

String	Hole	Cas	ing		L	ead					Tail			Excess
Туре	Size	Size	Setting Depth	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	тос	
Surf	17.5	13.375	1900	1016	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	1500	100%
Int	12.25	9.625	4000	640	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	3600	100%
Prod	8.75	7	0- 9700	469	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	9700- 18982						2317	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9700	50%



Contingency plan:

If adverse drilling conditions are encountered the drilling will pivot to contingency plan to deepen Intermediate casing string and run 2-stage cement job on it.

4.a Contingency Casing Program

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length		API des	ign fac	tor
								Burst	Collapse	Tension	Coupling
						BTC					
Surface 13 3/8"	54.5	J-55	2730	1130	853	909	1900	1.02	1.14	4.19	4.47
0-1,900'											
						BTC					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	1042	8000	1.31	1.13	2.18	2.48
0-8,000"											
						CDC-HTQ					
Production 7"	32	HCP-110	12460	10760	1025	1053	9700	2.06	2.37	2.50	2.57
0-9,700'											
						CDC-HTQ					
Production 5 1/2"	20	HCP-110	12640	12200	641	667	9282	1.15	2.81	2.24	2.34
9,700'-18,982'						TVD	10274				2.18

Contingency Cementing Program:

String	Hole	Cas	sing		L	ead					Tail			Excess
Туре	Size	Size	Setting Depth	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	тос	
Surf	17.5	13.375	1900	1016	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	1500	100%
Int St 1	12.25	9.625	8000	823	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	4000	188	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	7600	100%
Int St 2	12.25	9.625	4000	732	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	0						100%
Prod	8.75	7	0- 9700	168	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	7000						100%
Prod	8.75	5.5	9700- 18982						2317	HSLD 80, 13.ppg, 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9700	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 5,000/250 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 5,000/250 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 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' – 4,000'	Brine	8.8-10.2	28-34	N/c
4,000' – 18,982' Lateral	Oil Base	9.0-11.0	58-68	3 - 6

Contingency mud system:

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' - 8,000'	Brine	8.8-10.2	28-34	N/c
8,000′ – 18,982′ Lateral	Oil Base	9.0-11.0	58-68	3 - 6

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

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

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

7. Auxiliary well control and monitoring equipment:

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



8. Logging, testing and coring program:

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

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

The estimated bottom-hole temperature at 10,277' TVD (deepest point of the well) is 165F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,411 psig (based on 12 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 21 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.

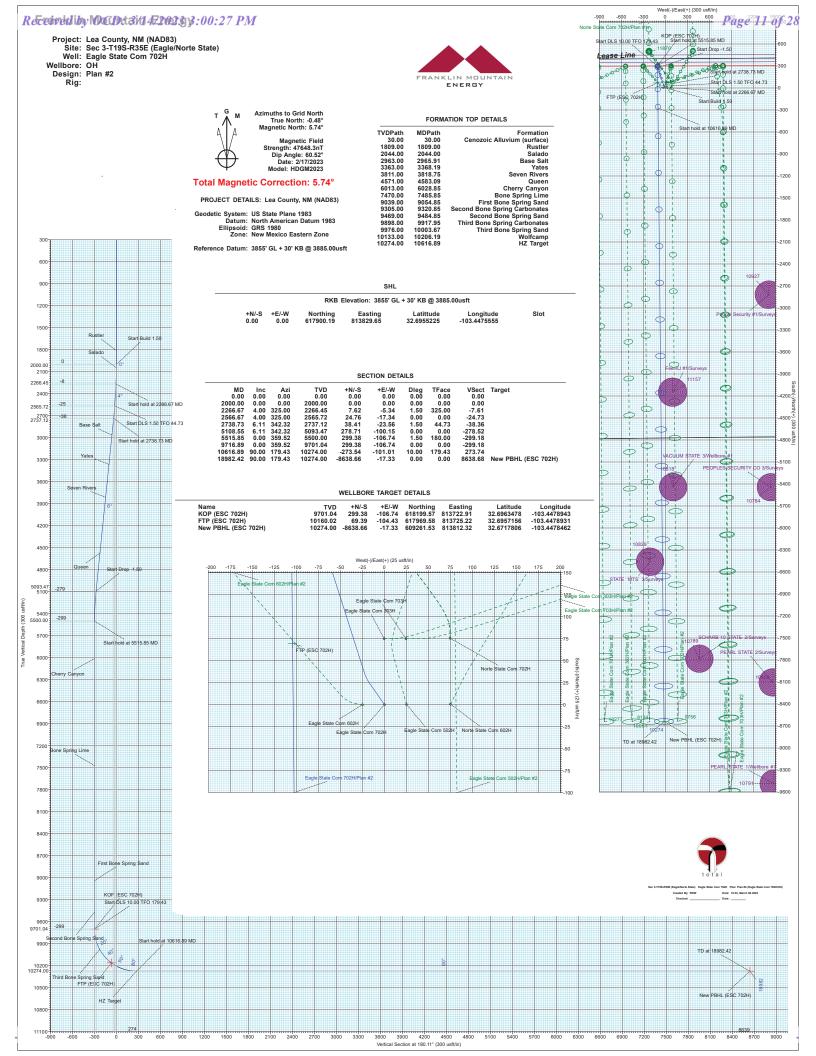


Both the surface and intermediate casing strings will be tested as per NMOCD Rules to the one-third of manufacture's rated yield pressure, no less than 600 psi, but not greater than 1,500 psi.

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.



Franklin Mountain Energy

Lea County, NM (NAD83) Sec 3-T19S-R35E (Eagle/Norte State) Eagle State Com 702H

OH

Plan: Plan #2

Standard Planning Report

06 March, 2023



Page 13 of 28

Total Directional

Planning Report



Database: Company: Project:

EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State) Site:

Well: Wellbore: Eagle State Com 702H

OH Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H

3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Minimum Curvature

Project

Lea County, NM (NAD83)

Map System: Geo Datum:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Map Zone:

Site

From:

Well

Sec 3-T19S-R35E (Eagle/Norte State)

Site Position:

Well Position

Мар

Northing: Easting:

617,968.58 usft 812,554.48 usft

Latitude: Longitude: 32.6957397

Position Uncertainty:

Slot Radius:

13-3/16 "

Eagle State Com 702H

Model Name

HDGM2023

-103.4516984

0.00 usft

617.900.19 usfl

Latitude:

32.6955225

Position Uncertainty

0.00 usft 0.50 usft

0.00 usft

Northing: Easting: Wellhead Elevation:

813,829.65 usfl usf Longitude: Ground Level: -103.4475555 3,855.00 usft

Grid Convergence:

0.48°

ОН

+N/-S

+E/-W

Magnetics

2/17/2023

Declination (°) 6.22 **Dip Angle** (°)

Field Strength (nT) 47,648.30000000

Design

Wellbore

Plan #2

Audit Notes:

Version:

Phase:

Sample Date

PLAN

Tie On Depth:

0.00

Depth From (TVD) (usft)

+N/-S

+E/-W

Direction

Vertical Section:

0.00

(usft) 0.00

(usft) 0.00

(°) 180.11

60.52

Plan Survey Tool Program

Depth To

(usft) Survey (Wellbore)

Date 3/6/2023

Tool Name

Remarks

(usft) 0.00 1

Depth From

18,982.42 Plan #2 (OH)

MWD+HDGM

OWSG MWD + HDGM

Planning Report



Database: Company: Project: Site: EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)
Eagle State Com 702H

Well: Eagle St Wellbore: OH Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H

3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Grid

Plan Sections	s									
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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,266.67	4.00	325.00	2,266.45	7.62	-5.34	1.50	1.50	0.00	325.00	
2,566.67	4.00	325.00	2,565.72	24.76	-17.34	0.00	0.00	0.00	0.00	
2,738.73	6.11	342.32	2,737.12	38.41	-23.56	1.50	1.23	10.07	44.73	
5,108.55	6.11	342.32	5,093.47	278.71	-100.15	0.00	0.00	0.00	0.00	
5,515.85	0.00	359.52	5,500.00	299.39	-106.74	1.50	-1.50	0.00	180.00	
9,716.89	0.00	359.52	9,701.04	299.39	-106.74	0.00	0.00	0.00	0.00	
10,616.89	90.00	179.43	10,274.00	-273.54	-101.01	10.00	10.00	19.99	179.43	
18,982.42	90.00	179.43	10,274.00	-8,638.66	-17.33	0.00	0.00	0.00	0.00	New PBHL (ESC 70

Planning Report



Database: Company: Project: Site: EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)

Well: Eagle State Com 702H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H

3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Grid

anned 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)
0.00 30.00	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
100.00 200.00 300.00	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
400.00 500.00 600.00 700.00 800.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	400.00 500.00 600.00 700.00 800.00	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 0.00	0.00 0.00 0.00 0.00 0.00
900.00 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	900.00 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 0.00	0.00 0.00 0.00 0.00 0.00
1,400.00 1,500.00 1,600.00 1,700.00 1,800.00	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 1,800.00	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 0.00	0.00 0.00 0.00 0.00 0.00
1,809.00 Rustler	0.00	0.00	1,809.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00 2,000.00 2,044.00	0.00	0.00 0.00 325.00	1,900.00 2,000.00 2,044.00	0.00 0.00 0.21	0.00 0.00 -0.15	0.00 0.00 -0.21	0.00 0.00 1.50	0.00 0.00 1.50	0.00 0.00 0.00
Salado 2,100.00	1.50	325.00	2,099.99	1.07	-0.75	-1.07	1.50	1.50	0.00
2,200.00 2,266.67 2,300.00 2,400.00 2,500.00	4.00 4.00 4.00	325.00 325.00 325.00 325.00 325.00	2,199.91 2,266.45 2,299.70 2,399.46 2,499.22	4.29 7.62 9.53 15.24 20.95	-3.00 -5.34 -6.67 -10.67 -14.67	-4.28 -7.61 -9.51 -15.22 -20.93	1.50 1.50 0.00 0.00 0.00	1.50 1.50 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,566.67 2,600.00 2,700.00 2,738.73 2,800.00	4.37 5.60	325.00 329.62 339.58 342.32 342.32	2,565.72 2,598.96 2,698.59 2,737.12 2,798.04	24.76 26.81 34.67 38.41 44.62	-17.34 -18.65 -22.28 -23.56 -25.54	-24.73 -26.78 -34.63 -38.36 -44.57	0.00 1.50 1.50 1.50 0.00	0.00 1.11 1.23 1.31 0.00	0.00 13.87 9.95 7.09 0.00
2,900.00 2,965.91	6.11	342.32 342.32	2,897.47 2,963.00	54.76 61.44	-28.78 -30.91	-54.70 -61.38	0.00 0.00	0.00 0.00	0.00 0.00
3,000.00 3,100.00 3,200.00	6.11 6.11	342.32 342.32 342.32	2,996.90 3,096.33 3,195.76	64.90 75.04 85.18	-32.01 -35.24 -38.47	-64.84 -74.97 -85.11	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,300.00 3,368.19 Yates		342.32 342.32	3,295.20 3,363.00	95.32 102.24	-41.70 -43.91	-95.24 -102.15	0.00 0.00	0.00 0.00	0.00 0.00
3,400.00 3,500.00 3,600.00	6.11	342.32 342.32 342.32	3,394.63 3,494.06 3,593.49	105.46 115.60 125.74	-44.93 -48.17 -51.40	-105.38 -115.51 -125.64	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,700.00 3,800.00 3,818.75	6.11	342.32 342.32 342.32	3,692.92 3,792.36 3,811.00	135.88 146.02 147.92	-54.63 -57.86 -58.47	-135.78 -145.91 -147.81	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

Planning Report



Database: Company: Project: Site: EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)

Well: Eagle State Com 702H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H 3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Grid

esigii.		I Idii #Z								
lanned	Survey									
	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)
9	Seven Rive	ers								
	3,900.00 4,000.00	6.11 6.11	342.32 342.32	3,891.79 3,991.22	156.16 166.30	-61.09 -64.32	-156.05 -166.18	0.00 0.00	0.00 0.00	0.00 0.00
	4,100.00 4,200.00 4,300.00 4,400.00 4,500.00	6.11 6.11 6.11 6.11 6.11	342.32 342.32 342.32 342.32 342.32	4,090.65 4,190.08 4,289.52 4,388.95 4,488.38	176.44 186.58 196.72 206.87 217.01	-67.56 -70.79 -74.02 -77.25 -80.48	-176.31 -186.45 -196.58 -206.72 -216.85	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
	4,583.09	6.11	342.32	4,571.00	225.43	-83.17	-225.27	0.00	0.00	0.00
	Queen 4,600.00 4,700.00 4,800.00 4,900.00	6.11 6.11 6.11 6.11	342.32 342.32 342.32 342.32	4,587.81 4,687.24 4,786.68 4,886.11	227.15 237.29 247.43 257.57	-83.71 -86.95 -90.18 -93.41	-226.98 -237.12 -247.25 -257.39	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	5,000.00 5,108.55 5,200.00 5,300.00 5,400.00	6.11 6.11 4.74 3.24 1.74	342.32 342.32 342.32 342.32 342.32	4,985.54 5,093.47 5,184.51 5,284.27 5,384.17	267.71 278.71 286.95 293.58 297.71	-96.64 -100.15 -102.77 -104.88 -106.20	-267.52 -278.52 -286.75 -293.37 -297.51	0.00 0.00 1.50 1.50 1.50	0.00 0.00 -1.50 -1.50	0.00 0.00 0.00 0.00 0.00
	5,500.00 5,515.85 5,600.00 5,700.00 5,800.00	0.24 0.00 0.00 0.00 0.00	342.32 359.52 0.00 0.00 0.00	5,484.15 5,500.00 5,584.15 5,684.15 5,784.15	299.35 299.39 299.39 299.39 299.39	-106.73 -106.74 -106.74 -106.74	-299.15 -299.18 -299.18 -299.18 -299.18	1.50 1.50 0.00 0.00 0.00	-1.50 -1.50 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	5,900.00 6,000.00 6,028.85	0.00 0.00 0.00	0.00 0.00 0.00	5,884.15 5,984.15 6,013.00	299.39 299.39 299.39	-106.74 -106.74 -106.74	-299.18 -299.18 -299.18	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Cherry Car									
	6,100.00 6,200.00	0.00 0.00	0.00 0.00	6,084.15 6,184.15	299.39 299.39	-106.74 -106.74	-299.18 -299.18	0.00 0.00	0.00 0.00	0.00 0.00
	6,300.00 6,400.00 6,500.00 6,600.00 6,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,284.15 6,384.15 6,484.15 6,584.15 6,684.15	299.39 299.39 299.39 299.39 299.39	-106.74 -106.74 -106.74 -106.74	-299.18 -299.18 -299.18 -299.18 -299.18	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
	6,800.00 6,900.00 7,000.00 7,100.00 7,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6,784.15 6,884.15 6,984.15 7,084.15 7,184.15	299.39 299.39 299.39 299.39 299.39	-106.74 -106.74 -106.74 -106.74	-299.18 -299.18 -299.18 -299.18 -299.18	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
	7,300.00 7,400.00 7,485.85	0.00 0.00 0.00	0.00 0.00 0.00	7,284.15 7,384.15 7,470.00	299.39 299.39 299.39	-106.74 -106.74 -106.74	-299.18 -299.18 -299.18	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Bone Sprir		0.00	7 404 45	200.20	106.74	200.40	0.00	0.00	0.00
	7,500.00 7,600.00	0.00 0.00	0.00 0.00	7,484.15 7,584.15	299.39 299.39	-106.74 -106.74	-299.18 -299.18	0.00 0.00	0.00 0.00	0.00 0.00
	7,700.00 7,800.00 7,900.00 8,000.00 8,100.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	7,684.15 7,784.15 7,884.15 7,984.15 8,084.15	299.39 299.39 299.39 299.39 299.39	-106.74 -106.74 -106.74 -106.74	-299.18 -299.18 -299.18 -299.18 -299.18	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	8,200.00 8,300.00	0.00 0.00	0.00 0.00	8,184.15 8,284.15	299.39 299.39	-106.74 -106.74	-299.18 -299.18	0.00 0.00	0.00 0.00	0.00 0.00

Planning Report



COMPASS 5000.16 Build 97

Database: Company: Project:

Site:

EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)
Eagle State Com 702H

Well: Eagle S
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H 3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Grid

New York Planned Survey Planned Su	velibore: Design:	Plan #2											
Depth Inclination Azimuth Cyr Cy	Planned Survey												
8,500.00 0.00 0.00 8,484.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 8,500.00 0.00 0.00 0.00 8,504.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 8,800.00 0.00 0.00	Depth			Depth			Section	Rate	Rate	Rate			
8,800 00	8,500.00	0.00	0.00	8,484.15	299.39	-106.74	-299.18	0.00	0.00	0.00			
9,100,00 0,00 0,00 9,084.15 299.39 -106.74 -299.18 0.00 0.00 0.00 9,000 9,000 0,00 9,204.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,300.00 0.00 0,00 9,204.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,300.00 0.00 0,00 9,204.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,300.00 0.00 0.00 9,300.00 0.00 9,300.00 0.00 9,300.00 0.00 0.00 9,300.00 0.00 0.00 9,300.00 0.00 0.00 0.00 9,300.00 0.00 0.00 0.00 9,300.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	8,800.00 8,900.00 9,000.00 9,054.85	0.00 0.00 0.00 0.00	0.00 0.00 0.00	8,784.15 8,884.15 8,984.15	299.39 299.39 299.39	-106.74 -106.74 -106.74	-299.18 -299.18 -299.18	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00			
9,200.00 0.00 0.00 9,184.15 299.39 -106.74 -299.18 0.00 0.00 0.00 9,320.85 0.00 0.00 9,305.00 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,302.085 0.00 0.00 0.00 9,305.00 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,484.85 0.00 0.00 0.00 9,349.00 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,484.85 0.00 0.00 0.00 9,469.00 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,500.00 0.00 0.00 0.00 0.00 9,500.00 0.00 0.00 0.00 9,841.5 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,500.00 0.00 0.00 0.00 9,841.5 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,500.00 0.00 0.00 9,541.5 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,700.00 0.00 0.00 9,541.5 299.39 -106.74 -299.18 0.00 0.00 0.00 9,700.00 0.00 0.00 9,541.5 299.39 -106.74 -299.18 0.00 0.00 0.00 9,761.89 0.00 359.52 9,701.04 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,761.89 0.00 359.52 9,701.04 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,761.89 0.00 359.52 9,701.04 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9,800.00 8.31 179.43 9,783.86 293.37 -106.68 -293.16 10.00 10.00 0.00 9,800.00 8.31 179.43 9,783.86 293.37 -106.68 -293.16 10.00 10.00 0.00 9,900.00 18.31 179.43 9,881.05 270.37 -106.45 -230.16 10.00 10.00 0.00 9,900.00 18.31 179.43 9,881.05 270.37 -106.45 -230.16 10.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.00 10.00 0.	First Bone												
9,400.00	9,200.00 9,300.00 9,320.85	0.00 0.00 0.00	0.00 0.00 0.00	9,184.15 9,284.15	299.39 299.39	-106.74 -106.74	-299.18 -299.18	0.00 0.00	0.00 0.00	0.00 0.00			
9,484.85 0.00 0.00 9,469.00 299.39 -106.74 -299.18 0.00 0.00 0.00 9.00 9.00 0.00 9.00 0.00 0.00 9.00 0.00 0.00 9.00 0.00 0.00 9.00 0.00 0.00 0.00 9.00 0.00 0.00 0.00 9.00 0.00 0.00 0.00 9.00 0.00 0.00 9.00 0.00 0.00 9.684.15 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9.716.89 0.00 359.52 9,701.04 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 9.716.89 0.00 359.52 9,701.04 299.39 -106.74 -299.18 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0				9 384 15	299 39	-106 74	-299 18	0.00	0.00	0.00			
9,500.00	9,484.85	0.00	0.00	-									
9,750.00 3.31 179.43 9,734.13 298.43 -106.73 -298.22 10.00 10.00 0.00 9,800.00 8.31 179.43 9,783.86 293.37 -106.68 -293.16 10.00 10.00 0.00 9,850.00 13.31 179.43 9,832.96 283.99 -106.58 -283.79 10.00 10.00 0.00 9,900.00 18.31 179.43 9,881.05 270.37 -106.45 -270.17 10.00 10.00 0.00 9,917.95 20.11 179.43 9,881.05 270.37 -106.45 -270.17 10.00 10.00 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 1	9,500.00 9,600.00 9,700.00	0.00 0.00 0.00	0.00 0.00 0.00	9,584.15 9,684.15	299.39 299.39	-106.74 -106.74	-299.18 -299.18	0.00 0.00	0.00 0.00	0.00 0.00			
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10,000.00 28.31 179.43 9,972.77 230.85 -106.05 -230.65 10.00 10.00 0.00 10,003.67 28.68 179.43 9,976.00 229.10 -106.03 -228.90 10.00 10.00 10.00 0.00 Third Bone Spring Sand 10,050.00 33.31 179.43 10,015.70 205.25 -105.79 -205.05 10.00 10.00 0.00 10,100.00 38.31 179.43 10,056.24 176.01 -105.50 -175.80 10.00 10.00 0.00 10,150.00 43.31 179.43 10,094.07 143.34 -105.18 -143.14 10.00 10.00 0.00 10,200.00 48.31 179.43 10,128.91 107.50 -104.82 -107.30 10.00 10.00 0.00 10,206.19 48.93 179.43 10,133.00 102.86 -104.77 -102.65 10.00 10.00 0.00 10.00 0.00 Wolfcamp 10,249.21 53.23 179.43 10,160.02 69.39 -104.44 -69.19 10.00 10.00 0.00 10,300.00 58.31 179.43 10,160.49 68.76 -104.43 -68.56 10.00 10.00 0.00 10,350.00 63.31 179.43 10,188.58 27.42 -104.02 -27.22 10.00 10.00 0.00 10,350.00 63.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00 10,450.00 73.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00 10,450.00 73.31 179.43 10,262.12 -157.47 -102.65 10.92.1 10.00 10.00 0.00 10,550.00 83.31 179.43 10,262.12 -157.47 -102.17 157.67 10.00 10.00 0.00 10,550.00 83.31 179.43 10,262.12 -157.47 -102.17 157.67 10.00 10.00 0.00 10,616.89 90.00 179.43 10,274.00 -273.54 -101.01 273.74 10.00 10.00 0.00 10,616.89 90.00 179.43 10,274.00 -273.56 -100.17 356.84 0.00 0.00 0.00 10,800.00 90.00 179.43 10,274.00 -356.65 -99.17 456.84 0.00 0.00 0.00 0.00 10,800.00 90.00 179.43 10,274.00 -356.65 -99.17 456.84 0.00 0.00 0.00 0.00	Third Bon	e Spring Carbo	onates										
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10,100.00 38.31 179.43 10,056.24 176.01 -105.50 -175.80 10.00 10.00 0.00 10,150.00 43.31 179.43 10,094.07 143.34 -105.18 -143.14 10.00 10.00 0.00 10,200.00 48.31 179.43 10,128.91 107.50 -104.82 -107.30 10.00 10.00 0.00 10,260.19 48.93 179.43 10,133.00 102.86 -104.77 -102.65 10.00 10.00 0.00 Wolfcamp 10,249.21 53.23 179.43 10,160.02 69.39 -104.44 -69.19 10.00 10.00 0.00 FTP (ESC 702H) 10,250.00 53.31 179.43 10,160.49 68.76 -104.43 -68.56 10.00 10.00 0.00 10,300.00 58.31 179.43 10,188.58 27.42 -104.02 -27.22 10.00 10.00 0.00 10,450.00 68.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00			170.42	10 015 70	205.25	105.70	205.05	10.00	10.00	0.00			
10,200.00	10,100.00	38.31	179.43	10,056.24	176.01	-105.50	-175.80	10.00	10.00	0.00			
10,249.21 53.23 179.43 10,160.02 69.39 -104.44 -69.19 10.00 10.00 0.00 FTP (ESC 702H) 10,250.00 53.31 179.43 10,160.49 68.76 -104.43 -68.56 10.00 10.00 0.00 10,300.00 58.31 179.43 10,188.58 27.42 -104.02 -27.22 10.00 10.00 0.00 10,350.00 63.31 179.43 10,212.95 -16.22 -103.58 16.42 10.00 10.00 0.00 10,400.00 68.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00 10,450.00 73.31 179.43 10,249.86 -109.01 -102.65 109.21 10.00 10.00 0.00 10,500.00 78.31 179.43 10,270.10 -206.81 -101.67 207.01 10.00 10.00 0.00 10,600.00 88.31 179.43 10,274.00 -26.81 -101.67 207.01 10.00 10.00 0.00 10,616.89 90.0	10,200.00 10,206.19	48.31 48.93	179.43	10,128.91	107.50	-104.82	-107.30	10.00	10.00	0.00			
10,250.00 53.31 179.43 10,160.49 68.76 -104.43 -68.56 10.00 10.00 0.00 10,300.00 58.31 179.43 10,188.58 27.42 -104.02 -27.22 10.00 10.00 0.00 10,350.00 63.31 179.43 10,212.95 -16.22 -103.58 16.42 10.00 10.00 0.00 10,400.00 68.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00 10,450.00 73.31 179.43 10,249.86 -109.01 -102.65 109.21 10.00 10.00 0.00 10,500.00 78.31 179.43 10,262.12 -157.47 -102.17 157.67 10.00 10.00 0.00 10,550.00 83.31 179.43 10,270.10 -206.81 -101.67 207.01 10.00 10.00 0.00 10,600.00 88.31 179.43 10,274.00 -273.54 -101.01 273.74 10.00 10.00 0.00 10,616.89 90.00 179.43 10,274.00			179.43	10,160.02	69.39	-104.44	-69.19	10.00	10.00	0.00			
10,350.00 63.31 179.43 10,212.95 -16.22 -103.58 16.42 10.00 10.00 0.00 10,400.00 68.31 179.43 10,233.44 -61.81 -103.12 62.01 10.00 10.00 0.00 10,450.00 73.31 179.43 10,249.86 -109.01 -102.65 109.21 10.00 10.00 0.00 10,500.00 78.31 179.43 10,262.12 -157.47 -102.17 157.67 10.00 10.00 0.00 10,550.00 83.31 179.43 10,270.10 -206.81 -101.67 207.01 10.00 10.00 0.00 10,600.00 88.31 179.43 10,273.75 -256.66 -101.17 256.85 10.00 10.00 0.00 10,616.89 90.00 179.43 10,274.00 -273.54 -101.01 273.74 10.00 10.00 0.00 HZ Target 10,700.00 90.00 179.43 10,274.00 -356.65 -100.17 356.84 0.00 0.00 0.00 10,800.00 90.0			179.43	10,160.49	68.76	-104.43	-68.56	10.00	10.00	0.00			
10,600.00 88.31 179.43 10,273.75 -256.66 -101.17 256.85 10.00 10.00 0.00 10,616.89 90.00 179.43 10,274.00 -273.54 -101.01 273.74 10.00 10.00 0.00 HZ Target 10,700.00 90.00 179.43 10,274.00 -356.65 -100.17 356.84 0.00 0.00 0.00 10,800.00 90.00 179.43 10,274.00 -456.65 -99.17 456.84 0.00 0.00 0.00	10,350.00 10,400.00 10,450.00	63.31 68.31 73.31	179.43 179.43 179.43	10,212.95 10,233.44 10,249.86	-16.22 -61.81 -109.01	-103.58 -103.12 -102.65	16.42 62.01 109.21	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00			
10,700.00 90.00 179.43 10,274.00 -356.65 -100.17 356.84 0.00 0.00 0.00 10,800.00 90.00 179.43 10,274.00 -456.65 -99.17 456.84 0.00 0.00 0.00	10,600.00	88.31	179.43	10,273.75	-256.66	-101.17	256.85	10.00	10.00	0.00			
	10,700.00												
10 000 00 00 00 170 43 10 274 00 556 64 00 47 556 02 0 00 0 00 000	10,900.00	90.00	179.43	10,274.00	-456.64	-99.17 -98.17	556.83	0.00	0.00	0.00			

Planning Report



Database: Company: Project: Site: EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)

Well: Eagle State Com 702H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H 3855' GL + 30' KB @ 3885.00usft

3855' GL + 30' KB @ 3885.00usft

Grid

Design:	Plan #2								
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)
11,000.00	90.00	179.43	10,274.00	-656.64	-97.17	656.82	0.00	0.00	0.00
11,100.00	90.00	179.43	10,274.00	-756.63	-96.17	756.82	0.00	0.00	0.00
11,200.00	90.00	179.43	10,274.00	-856.63	-95.17	856.81	0.00	0.00	0.00
11,300.00	90.00	179.43	10,274.00	-956.62	-94.17	956.80	0.00	0.00	0.00
11,400.00	90.00	179.43	10,274.00	-1,056.62	-93.17	1,056.79	0.00	0.00	0.00
11,500.00	90.00	179.43	10,274.00	-1,156.61	-92.17	1,156.79	0.00	0.00	0.00
11,600.00	90.00	179.43	10,274.00	-1,256.61	-91.17	1,256.78	0.00	0.00	0.00
11,700.00	90.00	179.43	10,274.00	-1,356.60	-90.17	1,356.77	0.00	0.00	0.00
11,800.00	90.00	179.43	10,274.00	-1,456.60	-89.17	1,456.77	0.00	0.00	0.00
11,900.00	90.00	179.43	10,274.00	-1,556.59	-88.17	1,556.76	0.00	0.00	0.00
12,000.00	90.00	179.43	10,274.00	-1,656.59	-87.17	1,656.75	0.00	0.00	0.00
12,100.00	90.00	179.43	10,274.00	-1,756.58	-86.17	1,756.74	0.00	0.00	0.00
12,200.00	90.00	179.43	10,274.00	-1,856.58	-85.17	1,856.74	0.00	0.00	0.00
12,300.00	90.00	179.43	10,274.00	-1,956.57	-84.17	1,956.73	0.00	0.00	0.00
12,400.00	90.00	179.43	10,274.00	-2,056.57	-83.17	2,056.72	0.00	0.00	0.00
12,500.00	90.00	179.43	10,274.00	-2,156.56	-82.17	2,156.72	0.00	0.00	0.00
12,600.00	90.00	179.43	10,274.00	-2,256.56	-81.17	2,256.71	0.00	0.00	0.00
12,700.00	90.00	179.43	10,274.00	-2,356.55	-80.17	2,356.70	0.00	0.00	0.00
12,800.00	90.00	179.43	10,274.00	-2,456.55	-79.17	2,456.69	0.00	0.00	0.00
12,900.00	90.00	179.43	10,274.00	-2,556.54	-78.17	2,556.69	0.00	0.00	0.00
13,000.00	90.00	179.43	10,274.00	-2,656.54	-77.17	2,656.68	0.00	0.00	0.00
13,100.00	90.00	179.43	10,274.00	-2,756.53	-76.17	2,756.67	0.00	0.00	0.00
13,200.00	90.00	179.43	10,274.00	-2,856.53	-75.17	2,856.67	0.00	0.00	0.00
13,300.00	90.00	179.43	10,274.00	-2,956.52	-74.17	2,956.66	0.00	0.00	0.00
13,400.00	90.00	179.43	10,274.00	-3,056.52	-73.17	3,056.65	0.00	0.00	0.00
13,500.00	90.00	179.43	10,274.00	-3,156.51	-72.17	3,156.64	0.00	0.00	0.00
13,600.00	90.00	179.43	10,274.00	-3,256.51	-71.17	3,256.64	0.00	0.00	0.00
13,700.00	90.00	179.43	10,274.00	-3,356.50	-70.17	3,356.63	0.00	0.00	0.00
13,800.00	90.00	179.43	10,274.00	-3,456.50	-69.17	3,456.62	0.00	0.00	0.00
13,900.00	90.00	179.43	10,274.00	-3,556.49	-68.17	3,556.62	0.00	0.00	0.00
14,000.00	90.00	179.43	10,274.00	-3,656.49	-67.17	3,656.61	0.00	0.00	0.00
14,100.00	90.00	179.43	10,274.00	-3,756.48	-66.17	3,756.60	0.00	0.00	0.00
14,200.00	90.00	179.43	10,274.00	-3,856.48	-65.17	3,856.60	0.00	0.00	0.00
14,300.00	90.00	179.43	10,274.00	-3,956.47	-64.17	3,956.59	0.00	0.00	0.00
14,400.00	90.00	179.43	10,274.00	-4,056.47	-63.17	4,056.58	0.00	0.00	0.00
14,500.00	90.00	179.43	10,274.00	-4,156.46	-62.16	4,156.57	0.00	0.00	0.00
14,600.00	90.00	179.43	10,274.00	-4,256.46	-61.16	4,256.57	0.00	0.00	0.00
14,700.00	90.00	179.43	10,274.00	-4,356.45	-60.16	4,356.56	0.00	0.00	0.00
14,800.00	90.00	179.43	10,274.00	-4,456.45	-59.16	4,456.55	0.00	0.00	0.00
14,900.00	90.00	179.43	10,274.00	-4,556.44	-58.16	4,556.55	0.00	0.00	0.00
15,000.00	90.00	179.43	10,274.00	-4,656.44	-57.16	4,656.54	0.00	0.00	0.00
15,100.00	90.00	179.43	10,274.00	-4,756.43	-56.16	4,756.53	0.00	0.00	0.00
15,200.00	90.00	179.43	10,274.00	-4,856.43	-55.16	4,856.52	0.00	0.00	0.00
15,300.00	90.00	179.43	10,274.00	-4,956.42	-54.16	4,956.52	0.00	0.00	0.00
15,400.00	90.00	179.43	10,274.00	-5,056.42	-53.16	5,056.51	0.00	0.00	0.00
15,500.00	90.00	179.43	10,274.00	-5,156.41	-52.16	5,156.50	0.00	0.00	0.00
15,600.00	90.00	179.43	10,274.00	-5,256.41	-51.16	5,256.50	0.00	0.00	0.00
15,700.00	90.00	179.43	10,274.00	-5,356.40	-50.16	5,356.49	0.00	0.00	0.00
15,800.00	90.00	179.43	10,274.00	-5,456.40	-49.16	5,456.48	0.00	0.00	0.00
15,900.00	90.00	179.43	10,274.00	-5,556.39	-48.16	5,556.47	0.00	0.00	0.00
16,000.00	90.00	179.43	10,274.00	-5,656.39	-47.16	5,656.47	0.00	0.00	0.00
16,100.00	90.00	179.43	10,274.00	-5,756.38	-46.16	5,756.46	0.00	0.00	0.00
16,200.00	90.00	179.43	10,274.00	-5,856.38	-45.16	5,856.45	0.00	0.00	0.00
16,300.00	90.00	179.43	10,274.00	-5,956.37	-44.16	5,956.45	0.00	0.00	0.00

Planning Report



Database: Company: Project: Site:

Design:

EDM 5000.1 Single User Db Franklin Mountain Energy

Sec 3-T19S-R35E (Eagle/Norte State)

Well: Wellbore:

Eagle State Com 702H ОН Plan #2

Lea County, NM (NAD83)

TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**

Local Co-ordinate Reference:

Well Eagle State Com 702H 3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Planned	Survey
	Planned

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)
16,400.00	90.00	179.43	10,274.00	-6,056.37	-43.16	6,056.44	0.00	0.00	0.00
16,500.00	90.00	179.43	10,274.00	-6,156.36	-42.16	6,156.43	0.00	0.00	0.00
16,600.00	90.00	179.43	10,274.00	-6,256.36	-41.16	6,256.42	0.00	0.00	0.00
16,700.00	90.00	179.43	10,274.00	-6,356.35	-40.16	6,356.42	0.00	0.00	0.00
16,800.00	90.00	179.43	10,274.00	-6,456.35	-39.16	6,456.41	0.00	0.00	0.00
16,900.00	90.00	179.43	10,274.00	-6,556.34	-38.16	6,556.40	0.00	0.00	0.00
17,000.00	90.00	179.43	10,274.00	-6,656.34	-37.16	6,656.40	0.00	0.00	0.00
17,100.00	90.00	179.43	10,274.00	-6,756.33	-36.16	6,756.39	0.00	0.00	0.00
17,200.00	90.00	179.43	10,274.00	-6,856.33	-35.16	6,856.38	0.00	0.00	0.00
17,300.00	90.00	179.43	10,274.00	-6,956.32	-34.16	6,956.37	0.00	0.00	0.00
17,400.00	90.00	179.43	10,274.00	-7,056.32	-33.16	7,056.37	0.00	0.00	0.00
17,500.00	90.00	179.43	10,274.00	-7,156.31	-32.16	7,156.36	0.00	0.00	0.00
17,600.00	90.00	179.43	10,274.00	-7,256.31	-31.16	7,256.35	0.00	0.00	0.00
17,700.00	90.00	179.43	10,274.00	-7,356.30	-30.16	7,356.35	0.00	0.00	0.00
17,800.00	90.00	179.43	10,274.00	-7,456.30	-29.16	7,456.34	0.00	0.00	0.00
17,900.00	90.00	179.43	10,274.00	-7,556.29	-28.16	7,556.33	0.00	0.00	0.00
18,000.00	90.00	179.43	10,274.00	-7,656.29	-27.16	7,656.33	0.00	0.00	0.00
18,100.00	90.00	179.43	10,274.00	-7,756.28	-26.16	7,756.32	0.00	0.00	0.00
18,200.00	90.00	179.43	10,274.00	-7,856.28	-25.16	7,856.31	0.00	0.00	0.00
18,300.00	90.00	179.43	10,274.00	-7,956.27	-24.16	7,956.30	0.00	0.00	0.00
18,400.00	90.00	179.43	10,274.00	-8,056.27	-23.16	8,056.30	0.00	0.00	0.00
18,500.00	90.00	179.43	10,274.00	-8,156.26	-22.16	8,156.29	0.00	0.00	0.00
18,600.00	90.00	179.43	10,274.00	-8,256.26	-21.16	8,256.28	0.00	0.00	0.00
18,700.00	90.00	179.43	10,274.00	-8,356.25	-20.15	8,356.28	0.00	0.00	0.00
18,800.00	90.00	179.43	10,274.00	-8,456.25	-19.15	8,456.27	0.00	0.00	0.00
18,900.00 18,982.42 New PBHL	90.00 90.00 . (ESC 702H)	179.43 179.43	10,274.00 10,274.00	-8,556.24 -8,638.66	-18.15 -17.33	8,556.26 8,638.68	0.00 0.00	0.00 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
KOP (ESC 702H) - plan hits target c - Point	0.00 enter	359.52	9,701.04	299.39	-106.74	618,199.58	813,722.91	32.6963478	-103.4478943
FTP (ESC 702H) - plan hits target c - Point	0.00 enter	0.00	10,160.02	69.39	-104.43	617,969.59	813,725.21	32.6957156	-103.4478931
New PBHL (ESC 702) - plan hits target c - Point		359.52	10,274.00	-8,638.66	-17.33	609,261.53	813,812.32	32.6717806	-103.4478462

Planning Report



Database: Company: Project: Site: EDM 5000.1 Single User Db Franklin Mountain Energy Lea County, NM (NAD83)

Sec 3-T19S-R35E (Eagle/Norte State)

Well: Eagle State Com 702H

Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Eagle State Com 702H

3855' GL + 30' KB @ 3885.00usft 3855' GL + 30' KB @ 3885.00usft

Grid

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	30.00	30.00	Cenozoic Alluvium (surface)			
	1,809.00	1,809.00	Rustler			
	2,044.00	2,044.00	Salado			
	2,965.91	2,963.00	Base Salt			
	3,368.19	3,363.00	Yates			
	3,818.75	3,811.00	Seven Rivers			
	4,583.09	4,571.00	Queen			
	6,028.85	6,013.00	Cherry Canyon			
	7,485.85	7,470.00	Bone Spring Lime			
	9,054.85	9,039.00	First Bone Spring Sand			
	9,320.85	9,305.00	Second Bone Spring Carbonates			
	9,484.85	9,469.00	Second Bone Spring Sand			
	9,917.95	9,898.00	Third Bone Spring Carbonates			
	10,003.67	9,976.00	Third Bone Spring Sand			
	10,206.19	10,133.00	Wolfcamp			
	10,616.89	10,274.00	HZ Target			

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description <u>Effective May 25, 2021</u>

I. Operator:Franklin	Mountain I	Energy 3, LLC	OG	RID:331595		Date:2/_28_/2023		
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.								
If Other, please describe:								
III. Well(s): Provide the to be recompleted from a s					f wells proposed t	to be drilled or proposed		
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D		
See Attached Well List								
IV. Central Delivery 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.								
Well Name	API	Spud Date	TD Reached Date	Completion Commencement				
See Attached Well List								
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.								

Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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
			Start Date	of System Segment Tie in

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

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

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

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

(i)

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

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

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

Section 4 - Notices

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

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

Signature: Achael webs
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 2/28/2023
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	TBD	Lot 4, 3-19S-35E	325 FNL 645 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 302H	TBD	Lot 4, 3-19S-35E	400 FNL 745 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 303H	TBD	Lot 3, 3-19S-35E	325 FNL 1920 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 501H	TBD	Lot 4, 3-19S-35E	325 FNL 670 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 502H	TBD	Lot 3, 3-19S-35E	400 FNL 1945 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 601H	TBD	Lot 4, 3-19S-35E	400 FNL 720 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 602H	TBD	Lot 3, 3-19S-35E	400 FNL 1895 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 701H	TBD	Lot 4, 3-19S-35E	325 FNL 695 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 702H	TBD	Lot 3, 3-19S-35E	400 FNL 1920 FWL	800 +/-	700 +/-	2500 +/-
Eagle State Com 703H	TBD	Lot 3, 3-19S-35E	325 FNL 1945 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 601H	TBD	Lot 4, 3-19S-35E	400 FNL 670 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 602H	TBD	Lot 3, 3-19S-35E	400 FNL 1995 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 701H	TBD	Lot 4, 3-19S-35E	400 FNL 645 FWL	800 +/-	700 +/-	2500 +/-
Norte State Com 702H	TBD	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.

				Completion	Initial	
		Spud Date		Commencement	Flowback	
Well Name	API 14 Digit	(Batch Drilling)	TD Reached Date	Date	Date	First Production Date
Eagle State Com 301H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Eagle State Com 302H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Eagle State Com 303H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Eagle State Com 501H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Eagle State Com 502H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Eagle State Com 601H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Eagle State Com 602H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Eagle State Com 701H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Eagle State Com 702H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Eagle State Com 703H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Norte State Com 601H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Norte State Com 602H	TBD	6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023
Norte State Com 701H	TBD	5/1/2023	8/21/2023	9/5/2023	9/15/2023	9/17/2023
Norte State Com 702H		6/1/2023	9/21/2023	10/6/2023	10/16/2023	10/18/2023



Natural Gas Management Plan Items VI-VIII

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

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a 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.

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

