

Well Name: FORGE FED COM	Well Location: T25S / R35E / SEC 35 / TR N / 32.079718 / -103.342241	County or Parish/State: LEA / NM
Well Number: 801H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM045706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551423	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2769672

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 01/12/2024	Time Sundry Submitted: 02:07
Date proposed operation will begin: 01/17/2024	

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: Name Change: FME requests approval to change the well name/number from Forge Fed Com 801H to FORGE FED COM 651H. Target Change: FME requests approval to change the formation target for this well from 12,711' TVD (98117 - WC-025 G-09 S263504N; WOLFCAMP) to 11,604' TVD (97088 - WC-025 G-08 S253534O; BONE SPRING). BHL Change: FME requests approval to change the BHL for this well from 150' FNL 830' FWL Sec 26 25S 35E to 150' FNL 520' FWL Sec 26 25S 35E. SHL remains the same: 55 FSL 1434 FWL Sec 35 T25S R35E Please see attached directional plan, revised 14-point plan, geo prog and C-102.

NOI Attachments

Procedure Description

- Pad2_A07_Forge_Fed_Com_651H_Plan_04_20240112140717.pdf
- Forge_651H_GEOPROG_prelim_20240112140717.pdf
- Forge_Fed_Com_651H_14PP_20240112140717.pdf
- C_102_Forge_Fed_Com_651H_20240112140701.pdf

Received by OCD: 1/22/2024 3:00:40 PM

Page 2 of 55

Well Name: FORGE FED COM	Well Location: T25S / R35E / SEC 35 / TR N / 32.079718 / -103.342241	County or Parish/State: LEA / NM
Well Number: 801H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM045706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551423	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Conditions of Approval

Specialist Review

Forge_Fed_Com_651H_Sundry_ID_2769672_20240122123720.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RACHAEL OVERBEY

Signed on: JAN 12, 2024 02:07 PM

Name: FRANKLIN MOUNTAIN ENERGY LLC

Title: Director – Operations Planning and Regulatory

Street Address: 44 COOK STREET, SUITE 1000

City: DenverState: CO

Phone: (720) 414-7868

Email address: roverbey@fmellc.com

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 01/22/2024

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well	
☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: TR N / 55 FSL / 1434 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.079718 / LONG: -103.342241 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 0 FSL / 359 FWL / TWSP: 25S / RANGE: 35E / SECTION: 26 / LAT: 32.094056 / LONG: -103.345639 (TVD: 12712 feet, MD: 17700 feet)

PPP: SWNW / 0 FSL / 378 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.086812 / LONG: -103.345641 (TVD: 12712 feet, MD: 15100 feet)

PPP: SWSW / 55 FSL / 1434 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.081421 / LONG: -103.345642 (TVD: 12712 feet, MD: 13141 feet)

BHL: TR D / 150 FSL / 380 FWL / TWSP: 25S / RANGE: 35E / SECTION: 26 / LAT: 32.108171 / LONG: -103.345635 (TVD: 12712 feet, MD: 22873 feet)

CONFIDENTIAL



Franklin Mountain Energy LLC

**Lea County, NM(N83-NME3001)
Tatanka North_Pad 2 (Forge Core)
(A07) Forge Fed Com 651H**

651H

Plan: Plan 04

Standard Planning Report

15 December, 2023



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

Project	Lea County, NM(N83-NME3001)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Tatanka North_Pad 2 (Forge Core)		
Site Position:		Northing:	394,147.27 usft
From:	Map	Easting:	848,154.95 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.07971787
		Longitude:	-103.34272514

Well	(A07) Forge Fed Com 651H		
Well Position	+N/-S	0.00 usft	Northing: 394,148.70 usft
	+E/-W	0.00 usft	Easting: 848,304.92 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.53 °	Ground Level:	3,120.00 usft

Wellbore	651H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/13/2023	6.13	59.72	47,172.98501232

Design	Plan 04				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	1,098.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.49	

Plan Survey Tool Program	Date	12/15/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	30.00	1,098.00	Survey #1_SurfaceMWD (651H)	OWSG MWD Rev 5	
				OWSG MWD - Standard	
2	1,098.00	21,787.56	Plan 04 (651H)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-St	



Planning Report

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Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

Plan 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
1,098.00	0.18	47.78	1,097.97	1.47	3.14	0.00	0.00	0.00	0.00	
1,128.00	0.18	47.78	1,127.97	1.53	3.21	0.00	0.00	0.00	0.00	
1,146.00	0.00	0.00	1,145.97	1.55	3.23	1.00	-1.00	0.00	180.00	
1,300.03	0.00	0.00	1,300.00	1.55	3.23	0.00	0.00	0.00	0.00	
1,566.70	4.00	210.00	1,566.45	-6.51	-1.42	1.50	1.50	0.00	210.00	
2,080.19	8.87	270.22	2,077.01	-21.89	-50.03	1.50	0.95	11.73	86.81	
6,972.77	8.87	270.22	6,911.10	-18.93	-804.33	0.00	0.00	0.00	0.00	
7,564.03	0.00	0.00	7,500.00	-18.75	-850.00	1.50	-1.50	0.00	180.00	
11,095.07	0.00	0.00	11,031.04	-18.75	-850.00	0.00	0.00	0.00	0.00	
11,995.07	90.00	354.30	11,604.00	551.37	-906.91	10.00	10.00	0.00	354.30	
12,254.46	90.00	359.49	11,604.00	810.30	-920.96	2.00	0.00	2.00	90.00	
21,787.57	90.00	359.49	11,604.00	10,343.02	-1,006.18	0.00	0.00	0.00	0.00	02-PBHL(FFC-651H)



Planning Report

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Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
143.00	0.13	148.59	143.00	-0.11	0.07	-0.11	0.12	0.12	0.00
230.00	0.26	89.62	230.00	-0.19	0.32	-0.20	0.26	0.15	-67.78
318.00	0.66	37.15	318.00	0.21	0.82	0.21	0.62	0.45	-59.63
399.00	0.84	47.43	398.99	0.99	1.54	0.97	0.28	0.22	12.69
494.00	0.92	89.88	493.98	1.46	2.82	1.43	0.68	0.08	44.68
588.00	0.35	123.72	587.97	1.30	3.81	1.27	0.70	-0.61	36.00
683.00	0.31	182.43	682.97	0.88	4.04	0.85	0.34	-0.04	61.80
775.00	0.35	274.19	774.97	0.66	3.75	0.62	0.52	0.04	99.74
870.00	0.31	157.03	869.97	0.44	3.56	0.41	0.59	-0.04	-123.33
966.00	0.66	329.21	965.97	0.68	3.38	0.65	1.01	0.36	179.35
1,098.00	0.18	47.78	1,097.97	1.47	3.14	1.44	0.49	-0.36	59.52
1,100.00	0.18	47.78	1,099.97	1.47	3.15	1.44	0.00	0.00	0.00
1,128.00	0.18	47.78	1,127.97	1.53	3.21	1.50	0.00	0.00	0.00
1,146.00	0.00	0.00	1,145.97	1.55	3.23	1.52	1.00	-1.00	0.00
1,200.00	0.00	0.00	1,199.97	1.55	3.23	1.52	0.00	0.00	0.00
1,300.03	0.00	0.00	1,300.00	1.55	3.23	1.52	0.00	0.00	0.00
1,400.00	1.50	210.00	1,399.95	0.42	2.58	0.39	1.50	1.50	0.00
1,500.00	3.00	210.00	1,499.87	-2.98	0.62	-2.99	1.50	1.50	0.00
1,566.70	4.00	210.00	1,566.45	-6.51	-1.42	-6.49	1.50	1.50	0.00
1,600.00	4.06	217.06	1,599.67	-8.45	-2.71	-8.43	1.50	0.18	21.21
1,700.00	4.57	235.93	1,699.39	-13.51	-8.14	-13.44	1.50	0.51	18.87
1,750.79	4.98	243.62	1,750.00	-15.62	-11.80	-15.52	1.50	0.82	15.14
Salado									
1,800.00	5.46	249.85	1,799.01	-17.38	-15.91	-17.24	1.50	0.96	12.67
1,900.00	6.57	259.50	1,898.46	-20.06	-26.00	-19.83	1.50	1.11	9.64
2,000.00	7.81	266.23	1,997.67	-21.55	-38.41	-21.21	1.50	1.24	6.73
2,080.19	8.87	270.22	2,077.01	-21.89	-50.03	-21.44	1.50	1.31	4.99
2,100.00	8.87	270.22	2,096.59	-21.87	-53.08	-21.40	0.00	0.00	0.00
2,200.00	8.87	270.22	2,195.39	-21.81	-68.50	-21.20	0.00	0.00	0.00
2,300.00	8.87	270.22	2,294.19	-21.75	-83.92	-21.01	0.00	0.00	0.00
2,400.00	8.87	270.22	2,393.00	-21.69	-99.34	-20.81	0.00	0.00	0.00
2,500.00	8.87	270.22	2,491.80	-21.63	-114.75	-20.61	0.00	0.00	0.00
2,600.00	8.87	270.22	2,590.61	-21.57	-130.17	-20.41	0.00	0.00	0.00
2,700.00	8.87	270.22	2,689.41	-21.51	-145.59	-20.21	0.00	0.00	0.00
2,800.00	8.87	270.22	2,788.22	-21.45	-161.00	-20.02	0.00	0.00	0.00
2,900.00	8.87	270.22	2,887.02	-21.39	-176.42	-19.82	0.00	0.00	0.00
3,000.00	8.87	270.22	2,985.83	-21.33	-191.84	-19.62	0.00	0.00	0.00
3,100.00	8.87	270.22	3,084.63	-21.27	-207.26	-19.42	0.00	0.00	0.00
3,200.00	8.87	270.22	3,183.43	-21.21	-222.67	-19.23	0.00	0.00	0.00
3,300.00	8.87	270.22	3,282.24	-21.15	-238.09	-19.03	0.00	0.00	0.00
3,400.00	8.87	270.22	3,381.04	-21.09	-253.51	-18.83	0.00	0.00	0.00
3,500.00	8.87	270.22	3,479.85	-21.03	-268.93	-18.63	0.00	0.00	0.00
3,600.00	8.87	270.22	3,578.65	-20.97	-284.34	-18.44	0.00	0.00	0.00
3,700.00	8.87	270.22	3,677.46	-20.91	-299.76	-18.24	0.00	0.00	0.00
3,800.00	8.87	270.22	3,776.26	-20.85	-315.18	-18.04	0.00	0.00	0.00
3,900.00	8.87	270.22	3,875.06	-20.79	-330.59	-17.84	0.00	0.00	0.00
4,000.00	8.87	270.22	3,973.87	-20.73	-346.01	-17.64	0.00	0.00	0.00
4,100.00	8.87	270.22	4,072.67	-20.67	-361.43	-17.45	0.00	0.00	0.00
4,200.00	8.87	270.22	4,171.48	-20.60	-376.85	-17.25	0.00	0.00	0.00
4,300.00	8.87	270.22	4,270.28	-20.54	-392.26	-17.05	0.00	0.00	0.00
4,400.00	8.87	270.22	4,369.09	-20.48	-407.68	-16.85	0.00	0.00	0.00
4,500.00	8.87	270.22	4,467.89	-20.42	-423.10	-16.66	0.00	0.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
4,600.00	8.87	270.22	4,566.70	-20.36	-438.51	-16.46	0.00	0.00	0.00	
4,700.00	8.87	270.22	4,665.50	-20.30	-453.93	-16.26	0.00	0.00	0.00	
4,800.00	8.87	270.22	4,764.30	-20.24	-469.35	-16.06	0.00	0.00	0.00	
4,900.00	8.87	270.22	4,863.11	-20.18	-484.77	-15.87	0.00	0.00	0.00	
4,912.04	8.87	270.22	4,875.00	-20.17	-486.62	-15.84	0.00	0.00	0.00	
Base Salt										
5,000.00	8.87	270.22	4,961.91	-20.12	-500.18	-15.67	0.00	0.00	0.00	
5,015.27	8.87	270.22	4,977.00	-20.11	-502.54	-15.64	0.00	0.00	0.00	
Lamar										
5,100.00	8.87	270.22	5,060.72	-20.06	-515.60	-15.47	0.00	0.00	0.00	
5,200.00	8.87	270.22	5,159.52	-20.00	-531.02	-15.27	0.00	0.00	0.00	
5,259.19	8.87	270.22	5,218.00	-19.96	-540.14	-15.16	0.00	0.00	0.00	
Bell Canyon										
5,300.00	8.87	270.22	5,258.33	-19.94	-546.44	-15.08	0.00	0.00	0.00	
5,400.00	8.87	270.22	5,357.13	-19.88	-561.85	-14.88	0.00	0.00	0.00	
5,500.00	8.87	270.22	5,455.94	-19.82	-577.27	-14.68	0.00	0.00	0.00	
5,600.00	8.87	270.22	5,554.74	-19.76	-592.69	-14.48	0.00	0.00	0.00	
5,700.00	8.87	270.22	5,653.54	-19.70	-608.10	-14.28	0.00	0.00	0.00	
5,800.00	8.87	270.22	5,752.35	-19.64	-623.52	-14.09	0.00	0.00	0.00	
5,900.00	8.87	270.22	5,851.15	-19.58	-638.94	-13.89	0.00	0.00	0.00	
6,000.00	8.87	270.22	5,949.96	-19.52	-654.36	-13.69	0.00	0.00	0.00	
6,100.00	8.87	270.22	6,048.76	-19.46	-669.77	-13.49	0.00	0.00	0.00	
6,130.60	8.87	270.22	6,079.00	-19.44	-674.49	-13.43	0.00	0.00	0.00	
Cherry Canyon										
6,200.00	8.87	270.22	6,147.57	-19.40	-685.19	-13.30	0.00	0.00	0.00	
6,300.00	8.87	270.22	6,246.37	-19.34	-700.61	-13.10	0.00	0.00	0.00	
6,400.00	8.87	270.22	6,345.17	-19.28	-716.03	-12.90	0.00	0.00	0.00	
6,500.00	8.87	270.22	6,443.98	-19.21	-731.44	-12.70	0.00	0.00	0.00	
6,600.00	8.87	270.22	6,542.78	-19.15	-746.86	-12.51	0.00	0.00	0.00	
6,700.00	8.87	270.22	6,641.59	-19.09	-762.28	-12.31	0.00	0.00	0.00	
6,800.00	8.87	270.22	6,740.39	-19.03	-777.69	-12.11	0.00	0.00	0.00	
6,900.00	8.87	270.22	6,839.20	-18.97	-793.11	-11.91	0.00	0.00	0.00	
6,972.77	8.87	270.22	6,911.10	-18.93	-804.33	-11.77	0.00	0.00	0.00	
7,000.00	8.46	270.22	6,938.02	-18.91	-808.43	-11.72	1.50	-1.50	0.00	
7,100.00	6.96	270.22	7,037.11	-18.86	-821.85	-11.54	1.50	-1.50	0.00	
7,200.00	5.46	270.22	7,136.52	-18.82	-832.67	-11.41	1.50	-1.50	0.00	
7,300.00	3.96	270.22	7,236.18	-18.79	-840.88	-11.30	1.50	-1.50	0.00	
7,400.00	2.46	270.22	7,336.02	-18.76	-846.48	-11.23	1.50	-1.50	0.00	
7,500.00	0.96	270.22	7,435.97	-18.75	-849.46	-11.19	1.50	-1.50	0.00	
7,564.03	0.00	0.00	7,500.00	-18.75	-850.00	-11.18	1.50	-1.50	0.00	
7,600.00	0.00	0.00	7,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,741.03	0.00	0.00	7,677.00	-18.75	-850.00	-11.18	0.00	0.00	0.00	
Brushy Canyon										
7,800.00	0.00	0.00	7,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
8,700.00	0.00	0.00	8,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
8,800.00	0.00	0.00	8,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
8,900.00	0.00	0.00	8,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,000.00	0.00	0.00	8,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,100.00	0.00	0.00	9,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,106.03	0.00	0.00	9,042.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Bone Spring Lime									
9,200.00	0.00	0.00	9,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,300.00	0.00	0.00	9,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,319.03	0.00	0.00	9,255.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Avalon									
9,400.00	0.00	0.00	9,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,500.00	0.00	0.00	9,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,600.00	0.00	0.00	9,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,700.00	0.00	0.00	9,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,800.00	0.00	0.00	9,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,900.00	0.00	0.00	9,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,000.00	0.00	0.00	9,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,100.00	0.00	0.00	10,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,200.00	0.00	0.00	10,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,300.00	0.00	0.00	10,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,395.03	0.00	0.00	10,331.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
First Bone Spring Sand									
10,400.00	0.00	0.00	10,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,500.00	0.00	0.00	10,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,518.03	0.00	0.00	10,454.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Second Bone Spring Carbonates									
10,600.00	0.00	0.00	10,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,700.00	0.00	0.00	10,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,733.03	0.00	0.00	10,669.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Second Bone Spring Sand									
10,800.00	0.00	0.00	10,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,900.00	0.00	0.00	10,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
11,000.00	0.00	0.00	10,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
11,095.07	0.00	0.00	11,031.04	-18.75	-850.00	-11.18	0.00	0.00	0.00
KOP: 11095.07' MD/ -11.18' VS/11031.04' TVD									
11,100.00	0.49	354.30	11,035.97	-18.73	-850.00	-11.16	10.00	10.00	0.00
11,150.00	5.49	354.30	11,085.88	-16.13	-850.26	-8.56	10.00	10.00	0.00
11,200.00	10.49	354.30	11,135.38	-9.22	-850.95	-1.64	10.00	10.00	0.00
11,250.00	15.49	354.30	11,184.09	1.97	-852.07	9.55	10.00	10.00	0.00
11,300.00	20.49	354.30	11,231.63	17.33	-853.60	24.93	10.00	10.00	0.00
11,350.00	25.49	354.30	11,277.64	36.76	-855.54	44.37	10.00	10.00	0.00
11,400.00	30.49	354.30	11,321.78	60.10	-857.87	67.74	10.00	10.00	0.00
11,419.02	32.39	354.30	11,338.00	69.97	-858.86	77.62	10.00	10.00	0.00
Third Bone Spring Carbonates									
11,450.00	35.49	354.30	11,363.70	87.19	-860.57	94.84	10.00	10.00	0.00
11,500.00	40.49	354.30	11,403.09	117.80	-863.63	125.48	10.00	10.00	0.00
11,550.00	45.49	354.30	11,439.65	151.72	-867.01	159.43	10.00	10.00	0.00
11,578.21	48.31	354.30	11,458.93	172.22	-869.06	179.94	10.00	10.00	0.00
01-T98(FFC-651H)									
11,600.00	50.49	354.30	11,473.10	188.68	-870.70	196.42	10.00	10.00	0.00
11,650.00	55.49	354.30	11,503.19	228.39	-874.67	236.17	10.00	10.00	0.00
11,700.00	60.49	354.30	11,529.68	270.57	-878.88	278.38	10.00	10.00	0.00

Planning Report



Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
11,750.00	65.49	354.30	11,552.38	314.88	-883.30	322.73	10.00	10.00	0.00	
11,800.00	70.49	354.30	11,571.11	361.00	-887.90	368.88	10.00	10.00	0.00	
11,850.00	75.49	354.30	11,585.73	408.56	-892.65	416.49	10.00	10.00	0.00	
11,900.00	80.49	354.30	11,596.13	457.21	-897.51	465.18	10.00	10.00	0.00	
11,950.00	85.49	354.30	11,602.23	506.57	-902.43	514.58	10.00	10.00	0.00	
11,995.07	90.00	354.30	11,604.00	551.37	-906.91	559.43	10.00	10.00	0.00	
EOC: 11995.07' MD/ 559.42' VS/11604.00' TVD - HZ Target at Landing										
12,000.00	90.00	354.40	11,604.00	556.28	-907.39	564.33	2.00	0.00	2.00	
12,100.00	90.00	356.40	11,604.00	655.95	-915.41	664.07	2.00	0.00	2.00	
12,200.00	90.00	358.40	11,604.00	755.84	-919.95	764.00	2.00	0.00	2.00	
12,254.46	90.00	359.49	11,604.00	810.30	-920.96	818.46	2.00	0.00	2.00	
12,300.00	90.00	359.49	11,604.00	855.83	-921.36	864.00	0.00	0.00	0.00	
12,400.00	90.00	359.49	11,604.00	955.83	-922.26	964.00	0.00	0.00	0.00	
12,500.00	90.00	359.49	11,604.00	1,055.82	-923.15	1,064.00	0.00	0.00	0.00	
12,600.00	90.00	359.49	11,604.00	1,155.82	-924.05	1,164.00	0.00	0.00	0.00	
12,700.00	90.00	359.49	11,604.00	1,255.82	-924.94	1,264.00	0.00	0.00	0.00	
12,800.00	90.00	359.49	11,604.00	1,355.81	-925.83	1,364.00	0.00	0.00	0.00	
12,900.00	90.00	359.49	11,604.00	1,455.81	-926.73	1,464.00	0.00	0.00	0.00	
13,000.00	90.00	359.49	11,604.00	1,555.80	-927.62	1,564.00	0.00	0.00	0.00	
13,100.00	90.00	359.49	11,604.00	1,655.80	-928.51	1,664.00	0.00	0.00	0.00	
13,200.00	90.00	359.49	11,604.00	1,755.80	-929.41	1,764.00	0.00	0.00	0.00	
13,300.00	90.00	359.49	11,604.00	1,855.79	-930.30	1,864.00	0.00	0.00	0.00	
13,400.00	90.00	359.49	11,604.00	1,955.79	-931.20	1,964.00	0.00	0.00	0.00	
13,500.00	90.00	359.49	11,604.00	2,055.78	-932.09	2,064.00	0.00	0.00	0.00	
13,600.00	90.00	359.49	11,604.00	2,155.78	-932.98	2,164.00	0.00	0.00	0.00	
13,700.00	90.00	359.49	11,604.00	2,255.78	-933.88	2,264.00	0.00	0.00	0.00	
13,800.00	90.00	359.49	11,604.00	2,355.77	-934.77	2,364.00	0.00	0.00	0.00	
13,900.00	90.00	359.49	11,604.00	2,455.77	-935.67	2,464.00	0.00	0.00	0.00	
14,000.00	90.00	359.49	11,604.00	2,555.76	-936.56	2,564.00	0.00	0.00	0.00	
14,100.00	90.00	359.49	11,604.00	2,655.76	-937.45	2,664.00	0.00	0.00	0.00	
14,200.00	90.00	359.49	11,604.00	2,755.76	-938.35	2,764.00	0.00	0.00	0.00	
14,300.00	90.00	359.49	11,604.00	2,855.75	-939.24	2,864.00	0.00	0.00	0.00	
14,400.00	90.00	359.49	11,604.00	2,955.75	-940.14	2,964.00	0.00	0.00	0.00	
14,500.00	90.00	359.49	11,604.00	3,055.74	-941.03	3,064.00	0.00	0.00	0.00	
14,600.00	90.00	359.49	11,604.00	3,155.74	-941.92	3,164.00	0.00	0.00	0.00	
14,700.00	90.00	359.49	11,604.00	3,255.74	-942.82	3,264.00	0.00	0.00	0.00	
14,800.00	90.00	359.49	11,604.00	3,355.73	-943.71	3,364.00	0.00	0.00	0.00	
14,900.00	90.00	359.49	11,604.00	3,455.73	-944.61	3,464.00	0.00	0.00	0.00	
15,000.00	90.00	359.49	11,604.00	3,555.72	-945.50	3,564.00	0.00	0.00	0.00	
15,100.00	90.00	359.49	11,604.00	3,655.72	-946.39	3,664.00	0.00	0.00	0.00	
15,200.00	90.00	359.49	11,604.00	3,755.72	-947.29	3,764.00	0.00	0.00	0.00	
15,300.00	90.00	359.49	11,604.00	3,855.71	-948.18	3,864.00	0.00	0.00	0.00	
15,400.00	90.00	359.49	11,604.00	3,955.71	-949.08	3,964.00	0.00	0.00	0.00	
15,500.00	90.00	359.49	11,604.00	4,055.70	-949.97	4,064.00	0.00	0.00	0.00	
15,600.00	90.00	359.49	11,604.00	4,155.70	-950.86	4,164.00	0.00	0.00	0.00	
15,700.00	90.00	359.49	11,604.00	4,255.70	-951.76	4,264.00	0.00	0.00	0.00	
15,800.00	90.00	359.49	11,604.00	4,355.69	-952.65	4,364.00	0.00	0.00	0.00	
15,900.00	90.00	359.49	11,604.00	4,455.69	-953.55	4,464.00	0.00	0.00	0.00	
16,000.00	90.00	359.49	11,604.00	4,555.68	-954.44	4,564.00	0.00	0.00	0.00	
16,100.00	90.00	359.49	11,604.00	4,655.68	-955.33	4,664.00	0.00	0.00	0.00	
16,200.00	90.00	359.49	11,604.00	4,755.68	-956.23	4,764.00	0.00	0.00	0.00	
16,300.00	90.00	359.49	11,604.00	4,855.67	-957.12	4,864.00	0.00	0.00	0.00	
16,400.00	90.00	359.49	11,604.00	4,955.67	-958.02	4,964.00	0.00	0.00	0.00	
16,500.00	90.00	359.49	11,604.00	5,055.66	-958.91	5,064.00	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
16,600.00	90.00	359.49	11,604.00	5,155.66	-959.80	5,164.00	0.00	0.00	0.00	
16,700.00	90.00	359.49	11,604.00	5,255.66	-960.70	5,264.00	0.00	0.00	0.00	
16,800.00	90.00	359.49	11,604.00	5,355.65	-961.59	5,364.00	0.00	0.00	0.00	
16,900.00	90.00	359.49	11,604.00	5,455.65	-962.48	5,464.00	0.00	0.00	0.00	
17,000.00	90.00	359.49	11,604.00	5,555.64	-963.38	5,564.00	0.00	0.00	0.00	
17,100.00	90.00	359.49	11,604.00	5,655.64	-964.27	5,664.00	0.00	0.00	0.00	
17,200.00	90.00	359.49	11,604.00	5,755.64	-965.17	5,764.00	0.00	0.00	0.00	
17,300.00	90.00	359.49	11,604.00	5,855.63	-966.06	5,864.00	0.00	0.00	0.00	
17,400.00	90.00	359.49	11,604.00	5,955.63	-966.95	5,964.00	0.00	0.00	0.00	
17,500.00	90.00	359.49	11,604.00	6,055.62	-967.85	6,064.00	0.00	0.00	0.00	
17,600.00	90.00	359.49	11,604.00	6,155.62	-968.74	6,164.00	0.00	0.00	0.00	
17,700.00	90.00	359.49	11,604.00	6,255.62	-969.64	6,264.00	0.00	0.00	0.00	
17,800.00	90.00	359.49	11,604.00	6,355.61	-970.53	6,364.00	0.00	0.00	0.00	
17,900.00	90.00	359.49	11,604.00	6,455.61	-971.42	6,464.00	0.00	0.00	0.00	
18,000.00	90.00	359.49	11,604.00	6,555.60	-972.32	6,564.00	0.00	0.00	0.00	
18,100.00	90.00	359.49	11,604.00	6,655.60	-973.21	6,664.00	0.00	0.00	0.00	
18,200.00	90.00	359.49	11,604.00	6,755.60	-974.11	6,764.00	0.00	0.00	0.00	
18,300.00	90.00	359.49	11,604.00	6,855.59	-975.00	6,864.00	0.00	0.00	0.00	
18,400.00	90.00	359.49	11,604.00	6,955.59	-975.89	6,964.00	0.00	0.00	0.00	
18,500.00	90.00	359.49	11,604.00	7,055.58	-976.79	7,064.00	0.00	0.00	0.00	
18,600.00	90.00	359.49	11,604.00	7,155.58	-977.68	7,164.00	0.00	0.00	0.00	
18,700.00	90.00	359.49	11,604.00	7,255.58	-978.58	7,264.00	0.00	0.00	0.00	
18,800.00	90.00	359.49	11,604.00	7,355.57	-979.47	7,364.00	0.00	0.00	0.00	
18,900.00	90.00	359.49	11,604.00	7,455.57	-980.36	7,464.00	0.00	0.00	0.00	
19,000.00	90.00	359.49	11,604.00	7,555.56	-981.26	7,564.00	0.00	0.00	0.00	
19,100.00	90.00	359.49	11,604.00	7,655.56	-982.15	7,664.00	0.00	0.00	0.00	
19,200.00	90.00	359.49	11,604.00	7,755.56	-983.05	7,764.00	0.00	0.00	0.00	
19,300.00	90.00	359.49	11,604.00	7,855.55	-983.94	7,864.00	0.00	0.00	0.00	
19,400.00	90.00	359.49	11,604.00	7,955.55	-984.83	7,964.00	0.00	0.00	0.00	
19,500.00	90.00	359.49	11,604.00	8,055.54	-985.73	8,064.00	0.00	0.00	0.00	
19,600.00	90.00	359.49	11,604.00	8,155.54	-986.62	8,164.00	0.00	0.00	0.00	
19,700.00	90.00	359.49	11,604.00	8,255.54	-987.52	8,264.00	0.00	0.00	0.00	
19,800.00	90.00	359.49	11,604.00	8,355.53	-988.41	8,364.00	0.00	0.00	0.00	
19,900.00	90.00	359.49	11,604.00	8,455.53	-989.30	8,464.00	0.00	0.00	0.00	
20,000.00	90.00	359.49	11,604.00	8,555.52	-990.20	8,564.00	0.00	0.00	0.00	
20,100.00	90.00	359.49	11,604.00	8,655.52	-991.09	8,664.00	0.00	0.00	0.00	
20,200.00	90.00	359.49	11,604.00	8,755.52	-991.98	8,764.00	0.00	0.00	0.00	
20,300.00	90.00	359.49	11,604.00	8,855.51	-992.88	8,864.00	0.00	0.00	0.00	
20,400.00	90.00	359.49	11,604.00	8,955.51	-993.77	8,964.00	0.00	0.00	0.00	
20,500.00	90.00	359.49	11,604.00	9,055.50	-994.67	9,064.00	0.00	0.00	0.00	
20,600.00	90.00	359.49	11,604.00	9,155.50	-995.56	9,164.00	0.00	0.00	0.00	
20,700.00	90.00	359.49	11,604.00	9,255.50	-996.45	9,264.00	0.00	0.00	0.00	
20,800.00	90.00	359.49	11,604.00	9,355.49	-997.35	9,364.00	0.00	0.00	0.00	
20,900.00	90.00	359.49	11,604.00	9,455.49	-998.24	9,464.00	0.00	0.00	0.00	
21,000.00	90.00	359.49	11,604.00	9,555.48	-999.14	9,564.00	0.00	0.00	0.00	
21,100.00	90.00	359.49	11,604.00	9,655.48	-1,000.03	9,664.00	0.00	0.00	0.00	
21,200.00	90.00	359.49	11,604.00	9,755.48	-1,000.92	9,764.00	0.00	0.00	0.00	
21,300.00	90.00	359.49	11,604.00	9,855.47	-1,001.82	9,864.00	0.00	0.00	0.00	
21,400.00	90.00	359.49	11,604.00	9,955.47	-1,002.71	9,964.00	0.00	0.00	0.00	
21,500.00	90.00	359.49	11,604.00	10,055.46	-1,003.61	10,064.00	0.00	0.00	0.00	
21,600.00	90.00	359.49	11,604.00	10,155.46	-1,004.50	10,164.00	0.00	0.00	0.00	
21,700.00	90.00	359.49	11,604.00	10,255.46	-1,005.39	10,264.00	0.00	0.00	0.00	
21,787.57	90.00	359.49	11,604.00	10,343.02	-1,006.18	10,351.57	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
TD: 21787.57' MD/ 10351.57' VS/11604.00' TVD - 02-PBHL(FFC-651H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
02-PBHL(FFC-651H)	0.00	0.00	11,604.00	10,343.02	-1,006.18	404,491.72	847,298.74	32.10817172	-103.34518315
- hit/miss target									
- plan hits target center									
- Point									
01-T98(FFC-651H)	0.00	0.01	11,604.00	36.42	-914.04	394,185.12	847,390.88	32.07984116	-103.34519061
- plan misses target center by 203.74usft at 11578.21usft MD (11458.93 TVD, 172.22 N, -869.06 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
839.03	839.00	Rustler				
1,750.79	1,750.00	Salado				
4,912.04	4,875.00	Base Salt				
5,015.27	4,977.00	Lamar				
5,259.19	5,218.00	Bell Canyon				
6,130.60	6,079.00	Cherry Canyon				
7,741.03	7,677.00	Brushy Canyon				
9,106.03	9,042.00	Bone Spring Lime				
9,319.03	9,255.00	Avalon				
10,395.03	10,331.00	First Bone Spring Sand				
10,518.03	10,454.00	Second Bone Spring Carbonates				
10,733.03	10,669.00	Second Bone Spring Sand				
11,419.02	11,338.00	Third Bone Spring Carbonates				
11,995.07	11,604.00	HZ Target at Landing				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,095.07	11,031.04	-18.75	-850.00	KOP: 11095.07' MD/ -11.18' VS/11031.04' TVD	
11,995.07	11,604.00	551.37	-906.91	EOC: 11995.07' MD/ 559.42' VS/11604.00' TVD	
21,787.57	11,604.00	10,343.02	-1,006.18	TD: 21787.57' MD/ 10351.57' VS/11604.00' TVD	

Geologic Prognosis



Well Name	Forge 651H
Operator	Franklin Mountain Energy 3, LLC
Project Area	Forge Unit
Well Type	10,000' Third Bone Spring Lateral
API	
Rig	

State	NM	County	Lea						
SHL	Township	25S/35E	Section	35	1,434'	FWL	55'	FSL	
BHL	Township	25S/35E	Section	26	520'	FWL	130'	FNL	
Surface Latitude	NAD 83	32.079718							
Surface Longitude	NAD 83	103.342241							
Bottom Hole Latitude	NAD 83	NEED SURVEYED BHL LAT							
Bottom Hole Longitude	NAD 83	NEED SURVEYED BHL LONG							
Ground Level	3,120'	Rig KB	30'	KB	3,150'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,120'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2,311'	839'			Carbonates
Salado	1,400'	1,750'			Salt, Carbonate & Clastics
Base Salt	-1724	4,875'			Shaley Carbonate & Shale
Lamar	-1827	4,977'			Carbonate & Clastics
Bell Canyon	-2068	5,218'			Sandstone - oil/gas/water
Cherry Canyon	-2928	6,079'			Sandstone - oil/gas/water
Brushy Canyon	-4526	7,677'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5892	9,042'			Shale/Carbonates - oil/gas
Avalon Carb	-6105	9,255'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-7181	10,331'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7304	10,454'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7519	10,669'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8187	11,338'			Shale/Carbonates - oil/gas
HZ Target	-8454	11,604'			Shale/Sandstone/Carbonates - oil/gas
Third Bone Spring Sand	-8760	11,910'			Sandstone - oil/gas/water
					Overpressure Shale/Sand- oil/gas

Target interval is expected to have an average apparent dip of ~0.0 degrees down along the lateral based on Third Bone Spring Carbonate structure

Target window tolerance is set at +/- 15'

Target Line: 11,604' KBTVD @ 0' VS w/ 90.0° inc.
Offset Log: Tatanka Fed Com 802H (30025498820000)
Updated 12/14/2023

FME Geologist	Ben Metz	bmetz@fmeilc.com
Office	303.513.8590	Cell 303.513.8590

Electric Logs					From	To
Open-Hole						
	n/a					
MWD/LWD						
	MWD GR				Int. 1 Csg. Point	TD
Mud Log:						
t drill out of surface casing						
Sampling:	10' samples in vertical and through curve, 30' samples in lateral					
Samples:	1 set dry samples at footage frequency noted above					
Mud Gas:	Continuous					
Daily Contact:	Email distribution of mud log/daily report at 7:30am and 4:30 pm CST					
Daily Mud Log Email Distribution List						
Final Mud Log Distribution						
	Ben Kessel (bkessel@fmellc.com)				email	
	Jenna Tavares (jtavares@fmellc.com)				email	
	Ben Metz (bmetz@fmellc.com)				email	
Cuttings/Samples Shipment Information						



Forge Fed Com 651H

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)	3,120'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2,311'	839'			Carbonates
Salado	1,400'	1,750'			Salt, Carbonate & Clastics
Base Salt	-1724	4,875'			Shaley Carbonate & Shale
Lamar	-1827	4,977'			Carbonate & Clastics
Bell Canyon	-2068	5,218'			Sandstone - oil/gas/water
Cherry Canyon	-2928	6,079'			Sandstone - oil/gas/water
Brushy Canyon	-4526	7,677'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5892	9,042'			Shale/Carbonates - oil/gas
Avalon Carb	-6105	9,255'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-7181	10,331'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7304	10,454'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7519	10,669'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8187	11,338'			Shale/Carbonates - oil/gas
HZ Target	-8454	11,604'			Shale/Sandstone/Carbonates - oil/gas
Third Bone Spring Sand	-8760	11,910'			Sandstone - oil/gas/water

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

Upper Permian Sands	0-400'	Fresh Water
Delaware Sands	5,218'	Oil
Avalon	9,255'	Oil
Bone Spring	10,331'	Oil
Wolfcamp	'	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 13.375 casing at 1,117' and circulating cement back to surface.

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,117	1.24	1.95	5.30	5.65
Intermediate 7 5/8"	29.7	P-110	9470	5340	940	BTC 960	10,995	1.31	1.04	2.20	2.25
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	21,787 11,604	1.32	1.42	1.21	1.01 1.65

Stress calculations on 5.5 casing performed assuming 21,787' depth. Actual max vertical depth is 11,604'.

Cementing Program:

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



String Type	Hole Size	Casing		Sacks	Type of cmt	Lead			Sacks	Type of cmt	Tail			Excess
		Size	Setting Depth			Yield ft ³ /sk	Water gal/sk	TOC ft			Yield ft ³ /sk	Water gal/sk	TOC	
Surf	17.5	13.375	1,117	650	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal 0.125pps Poly-E-Flake	1.747	9.06	0	335	Tail, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.349	6.51	817	100%
Int1	9.88	7.625	10,995	584	Lead, Lite Fill, 9.5 ppg, Class C 3 lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25 Integraseal	5.1	6.9	0	71	Tail, IntegraCem 14.8 ppg, Class H .15% ASA 301; P50H; 0.5% FL-66; 0.25% R-21	1.33	6.3	9,578	30%
Prod	6.75	5.5	21,787						825	Tail, 13.5 ppg, Class HSLD 82H; 0.4% CFL-2; 4% STE; 0.07% CSA-1000; .29#/sk Salt; .29#/sk Gypseal	1.43	6.87	9,995	20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top.

All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield.

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. The intermediate casing will be for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield prior to drill-out.

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	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,117'	Fresh - Gel	8.6-8.8	28-34	N/c
1,117' –11,095'	Brine	8.8-10.2	28-34	N/c
11,095' –21,787' Lateral	Brine or OBM	10.0-12.0	58-68	3 – 6

The highest mud weight needed to balance formation is expected to be 10-12 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 11,604' TVD (deepest point of the well) is 185°F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,241 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 100' 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
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface.
 - ii. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

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

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the “batch drilling” method may be used. The 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 be 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, as per Onshore Order No. 2

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

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

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

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5,000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

14. Additional variance requests

- A. Casing.
 - a. Variance is requested to waive the centralizer requirements for the 7-5/8" casing due to the tight clearance with 9-7/8" hole and 7-5/8" casing.
 - b. Variance is requested to waive the centralizer requirements for the 5-1/2" casing due to the tight clearance with 6-3/4" hole and 5-1/2" casing.

District I
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	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code	⁵ Property Name FORGE FED COM	⁶ Well Number 651H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3119.4'

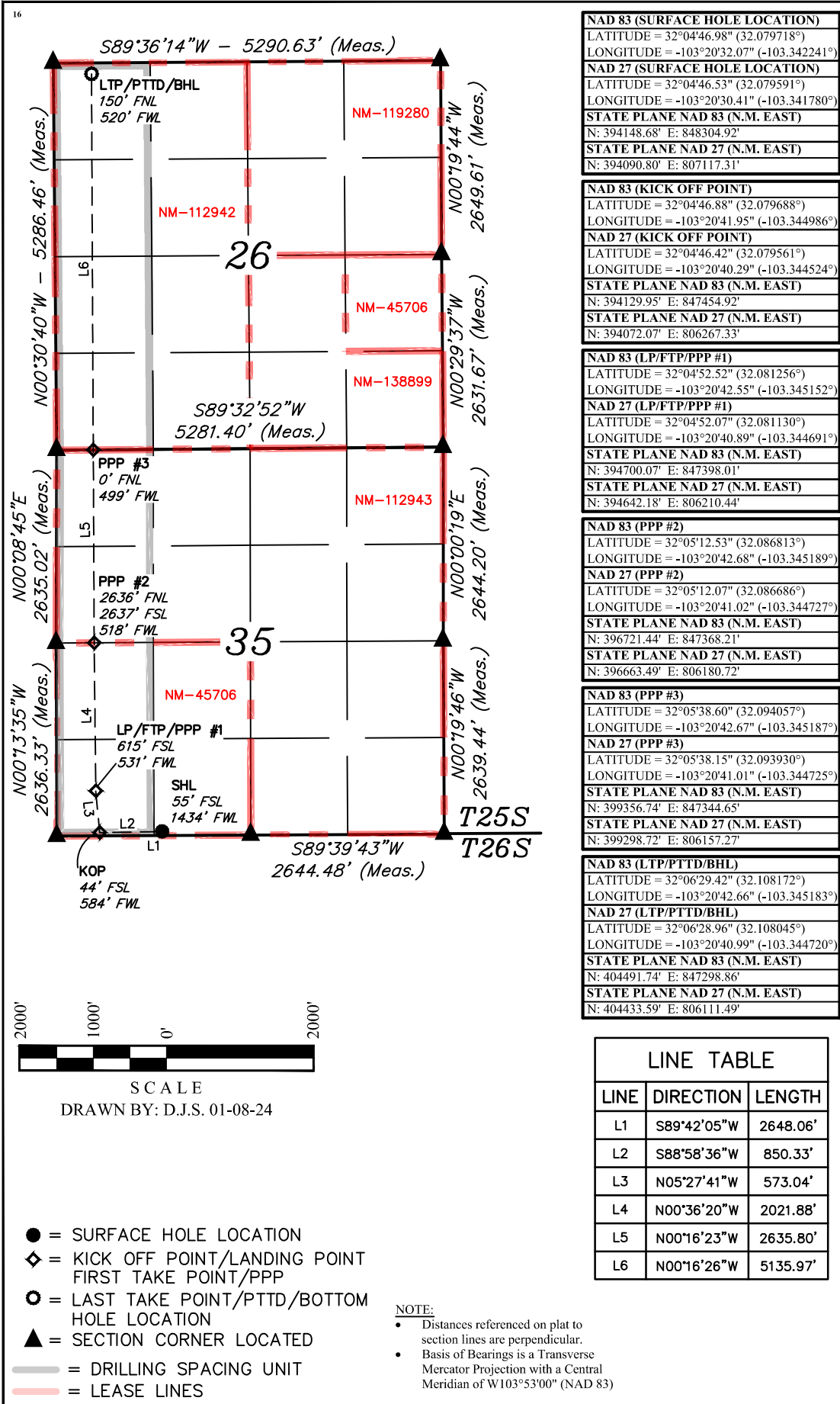
¹⁰ Surface Location

UL or lot no. N	Section 35	Township 25S	Range 35E	Lot Idn	Feet from the 55	North/South line SOUTH	Feet from the 1434	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 26	Township 25S	Range 35E	Lot Idn	Feet from the 150	North/South line NORTH	Feet from the 520	East/West line WEST	County LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation 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.



NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°04'46.98" (32.079718°) LONGITUDE = -103°20'32.07" (-103.342241°)
NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°04'46.53" (32.079591°) LONGITUDE = -103°20'30.41" (-103.341780°)
STATE PLANE NAD 83 (N.M. EAST) N: 394148.68' E: 848304.92'
STATE PLANE NAD 27 (N.M. EAST) N: 394090.80' E: 807117.31'
NAD 83 (KICK OFF POINT) LATITUDE = 32°04'46.88" (32.079688°) LONGITUDE = -103°20'41.95" (-103.344986°)
NAD 27 (KICK OFF POINT) LATITUDE = 32°04'46.42" (32.079561°) LONGITUDE = -103°20'40.29" (-103.344524°)
STATE PLANE NAD 83 (N.M. EAST) N: 394129.95' E: 847454.92'
STATE PLANE NAD 27 (N.M. EAST) N: 394072.07' E: 806267.33'
NAD 83 (LP/FTP/PPP #1) LATITUDE = 32°04'52.52" (32.081256°) LONGITUDE = -103°20'42.55" (-103.345152°)
NAD 27 (LP/FTP/PPP #1) LATITUDE = 32°04'52.07" (32.081130°) LONGITUDE = -103°20'40.89" (-103.344691°)
STATE PLANE NAD 83 (N.M. EAST) N: 394700.07' E: 847398.01'
STATE PLANE NAD 27 (N.M. EAST) N: 394642.18' E: 806210.44'
NAD 83 (PPP #2) LATITUDE = 32°05'12.53" (32.086813°) LONGITUDE = -103°20'42.68" (-103.345189°)
NAD 27 (PPP #2) LATITUDE = 32°05'12.07" (32.086686°) LONGITUDE = -103°20'41.02" (-103.344727°)
STATE PLANE NAD 83 (N.M. EAST) N: 396721.44' E: 847368.21'
STATE PLANE NAD 27 (N.M. EAST) N: 396663.49' E: 806180.72'
NAD 83 (PPP #3) LATITUDE = 32°05'38.60" (32.094057°) LONGITUDE = -103°20'42.67" (-103.345187°)
NAD 27 (PPP #3) LATITUDE = 32°05'38.15" (32.093930°) LONGITUDE = -103°20'41.01" (-103.344725°)
STATE PLANE NAD 83 (N.M. EAST) N: 399356.74' E: 847344.65'
STATE PLANE NAD 27 (N.M. EAST) N: 399298.72' E: 806157.27'
NAD 83 (LTP/PTTD/BHL) LATITUDE = 32°06'29.42" (32.108172°) LONGITUDE = -103°20'42.66" (-103.345183°)
NAD 27 (LTP/PTTD/BHL) LATITUDE = 32°06'28.96" (32.108045°) LONGITUDE = -103°20'40.99" (-103.344720°)
STATE PLANE NAD 83 (N.M. EAST) N: 404491.74' E: 847298.86'
STATE PLANE NAD 27 (N.M. EAST) N: 404433.59' E: 806111.49'

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°42'05"W	2648.06'
L2	S88°58'36"W	850.33'
L3	N05°27'41"W	573.04'
L4	N00°36'20"W	2021.88'
L5	N00°16'23"W	2635.80'
L6	N00°16'26"W	5135.97'

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

 1/8/2024

Signature Date

Rachael Overbey

Printed Name

roverbey@fmelc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 19, 2021

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

Well Name: FORGE FED COM	Well Location: T25S / R35E / SEC 35 / TR N / 32.079718 / -103.342241	County or Parish/State: LEA / NM
Well Number: 801H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM045706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551423	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Notice of Intent

Sundry ID: 2769672

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/12/2024

Time Sundry Submitted: 02:07

Date proposed operation will begin: 01/17/2024

Procedure Description: Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well: Name Change: FME requests approval to change the well name/number from Forge Fed Com 801H to FORGE FED COM 651H. Target Change: FME requests approval to change the formation target for this well from 12,711' TVD (98117 - WC-025 G-09 S263504N; WOLFCAMP) to 11,604' TVD (97088 - WC-025 G-08 S253534O; BONE SPRING). BHL Change: FME requests approval to change the BHL for this well from 150' FNL 830' FWL Sec 26 25S 35E to 150' FNL 520' FWL Sec 26 25S 35E. SHL remains the same: 55 FSL 1434 FWL Sec 35 T25S R35E Please see attached directional plan, revised 14-point plan, geo prog and C-102.

NOI Attachments

Procedure Description

Pad2_A07_Forge_Fed_Com_651H_Plan_04_20240112140717.pdf

Forge_651H_GEOPROG_prelim_20240112140717.pdf

Forge_Fed_Com_651H_14PP_20240112140717.pdf

C_102_Forge_Fed_Com_651H_20240112140701.pdf

Well Name: FORGE-ED.COM	Well Location: T25S / R35E / SEC 35 / TR N / 32.079718 / -103.342241	County or Parish/State: LEA / NM
Well Number: 801H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM045706	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002551423	Well Status: Drilling Well	Operator: FRANKLIN MOUNTAIN ENERGY LLC

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RACHAEL OVERBEY
Signed on: JAN 12, 2024 02:07 PM
Name: FRANKLIN MOUNTAIN ENERGY LLC
Title: Director – Operations Planning and Regulatory
Street Address: 44 COOK STREET, SUITE 1000
City: Denver State: CO
Phone: (720) 414-7868
Email address: roverbey@frellc.com

Field

Representative Name:
Street Address:
City: State: Zip:
Phone:
Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: LEASE NO.: LOCATION: COUNTY:	Franklin Mountain Energy LLC NMNM045706 Section 35, T.25 S., R.35 E., NMPM Lea County, New Mexico ▼
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WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE: ATS/API ID: APD ID: Sundry ID:	Forge Fed Com 651H 55'/S & 1434'/W 150'/N & 520'/W 3002551423 10400087889 2769672
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COA

H2S	No ▼		
Potash	None ▼		
Cave/Karst Potential	Low ▼		
Cave/Karst Potential	☐ Critical		
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	Conventional and Multibowl ▼		
Other	☐ 4 String	Capitan Reef None ▼	☐ WIPP
Other	Pilot Hole None ▼	☐ Open Annulus	
Cementing	Contingency Squeeze None ▼	Echo-Meter None ▼	Primary Cement Squeeze None ▼
Special Requirements	☐ Water Disposal/Injection	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8 inch** surface casing shall be set at approximately **1100 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2 inch** in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8 inch** intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Option 2:

Operator has proposed a DV tool(s), the depth may be adjusted as long as the cement is changed proportionally. The DV tool(s) may be cancelled if cement circulates to surface on the first stage.

DV tool(s) shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall contact the BLM if DV tool(s) depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool(s): Cement to circulate. If cement does not circulate off the DV tool(s), contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool(s):
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate

casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator

can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 1/22/2024

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMNM045706
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. FORGE FED COM/801H
2. Name of Operator FRANKLIN MOUNTAIN ENERGY LLC		9. API Well No. 3002551423
3a. Address 44 COOK STREET SUITE 1000, DENVER, CO	3b. Phone No. (include area code) (720) 414-7868	10. Field and Pool or Exploratory Area WOLFCAMP/WC-025 G-09 S263504N; WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 35/T25S/R35E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Franklin Mountain Energy, LLC (FME), Operator, respectfully requests approval to make the following changes to the proposed drilling plan for the above referenced well:

Name Change: FME requests approval to change the well name/number from Forge Fed Com 801H to FORGE FED COM 651H.

Target Change: FME requests approval to change the formation target for this well from 12,711' TVD (98117 - WC-025 G-09 S263504N; WOLFCAMP) to 11,604' TVD (97088 - WC-025 G-08 S253534O; BONE SPRING).

BHL Change: FME requests approval to change the BHL for this well from 150 FNL 830 FWL Sec 26 25S 35E to 150' FNL 520' FWL Sec 26 25S 35E.

SHL remains the same: 55 FSL 1434 FWL Sec 35 T25S R35E

Please see attached directional plan, revised 14-point plan, geo prog and C-102.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) RACHAEL OVERBEY / Ph: (720) 414-7868	Title py Director Operations Planning and Regulatory
Signature (Electronic Submission)	Date 01/12/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: TR N / 55 FSL / 1434 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.079718 / LONG: -103.342241 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 0 FSL / 359 FWL / TWSP: 25S / RANGE: 35E / SECTION: 26 / LAT: 32.094056 / LONG: -103.345639 (TVD: 12712 feet, MD: 17700 feet)

PPP: SWNW / 0 FSL / 378 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.086812 / LONG: -103.345641 (TVD: 12712 feet, MD: 15100 feet)

PPP: SWSW / 55 FSL / 1434 FWL / TWSP: 25S / RANGE: 35E / SECTION: 35 / LAT: 32.081421 / LONG: -103.345642 (TVD: 12712 feet, MD: 13141 feet)

BHL: TR D / 150 FSL / 380 FWL / TWSP: 25S / RANGE: 35E / SECTION: 26 / LAT: 32.108171 / LONG: -103.345635 (TVD: 12712 feet, MD: 22873 feet)

CONFIDENTIAL



Franklin Mountain Energy LLC

Lea County, NM(N83-NME3001)
Tatanka North_Pad 2 (Forge Core)
(A07) Forge Fed Com 651H

651H

Plan: Plan 04

Standard Planning Report

15 December, 2023



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

Project	Lea County, NM(N83-NME3001)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Tatanka North_Pad 2 (Forge Core)				
Site Position:		Northing:	394,147.27 usft	Latitude:	32.07971787
From:	Map	Easting:	848,154.95 usft	Longitude:	-103.34272514
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	(A07) Forge Fed Com 651H					
Well Position	+N/-S	0.00 usft	Northing:	394,148.70 usft	Latitude:	32.07971802
	+E/-W	0.00 usft	Easting:	848,304.92 usft	Longitude:	-103.34224096
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,120.00 usft
Grid Convergence:		0.53 °				

Wellbore	651H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/13/2023	6.13	59.72	47,172.98501232

Design	Plan 04				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	1,098.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.49	

Plan Survey Tool Program	Date	12/15/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	30.00	1,098.00	Survey #1_SurfaceMWD (651H)	OWSG MWD Rev 5	
				OWSG MWD - Standard	
2	1,098.00	21,787.56	Plan 04 (651H)	MWD+IFR1+MS	
				OWSG MWD + IFR1 + Multi-Si	



Planning Report

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Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

Plan 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
1,098.00	0.18	47.78	1,097.97	1.47	3.14	0.00	0.00	0.00	0.00	
1,128.00	0.18	47.78	1,127.97	1.53	3.21	0.00	0.00	0.00	0.00	
1,146.00	0.00	0.00	1,145.97	1.55	3.23	1.00	-1.00	0.00	180.00	
1,300.03	0.00	0.00	1,300.00	1.55	3.23	0.00	0.00	0.00	0.00	
1,566.70	4.00	210.00	1,566.45	-6.51	-1.42	1.50	1.50	0.00	210.00	
2,080.19	8.87	270.22	2,077.01	-21.89	-50.03	1.50	0.95	11.73	86.81	
6,972.77	8.87	270.22	6,911.10	-18.93	-804.33	0.00	0.00	0.00	0.00	
7,564.03	0.00	0.00	7,500.00	-18.75	-850.00	1.50	-1.50	0.00	180.00	
11,095.07	0.00	0.00	11,031.04	-18.75	-850.00	0.00	0.00	0.00	0.00	
11,995.07	90.00	354.30	11,604.00	551.37	-906.91	10.00	10.00	0.00	354.30	
12,254.46	90.00	359.49	11,604.00	810.30	-920.96	2.00	0.00	2.00	90.00	
21,787.57	90.00	359.49	11,604.00	10,343.02	-1,006.18	0.00	0.00	0.00	0.00	02-PBHL(FFC-651H)



Planning Report

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Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
143.00	0.13	148.59	143.00	-0.11	0.07	-0.11	0.12	0.12	0.00
230.00	0.26	89.62	230.00	-0.19	0.32	-0.20	0.26	0.15	-67.78
318.00	0.66	37.15	318.00	0.21	0.82	0.21	0.62	0.45	-59.63
399.00	0.84	47.43	398.99	0.99	1.54	0.97	0.28	0.22	12.69
494.00	0.92	89.88	493.98	1.46	2.82	1.43	0.68	0.08	44.68
588.00	0.35	123.72	587.97	1.30	3.81	1.27	0.70	-0.61	36.00
683.00	0.31	182.43	682.97	0.88	4.04	0.85	0.34	-0.04	61.80
775.00	0.35	274.19	774.97	0.66	3.75	0.62	0.52	0.04	99.74
870.00	0.31	157.03	869.97	0.44	3.56	0.41	0.59	-0.04	-123.33
966.00	0.66	329.21	965.97	0.68	3.38	0.65	1.01	0.36	179.35
1,098.00	0.18	47.78	1,097.97	1.47	3.14	1.44	0.49	-0.36	59.52
1,100.00	0.18	47.78	1,099.97	1.47	3.15	1.44	0.00	0.00	0.00
1,128.00	0.18	47.78	1,127.97	1.53	3.21	1.50	0.00	0.00	0.00
1,146.00	0.00	0.00	1,145.97	1.55	3.23	1.52	1.00	-1.00	0.00
1,200.00	0.00	0.00	1,199.97	1.55	3.23	1.52	0.00	0.00	0.00
1,300.03	0.00	0.00	1,300.00	1.55	3.23	1.52	0.00	0.00	0.00
1,400.00	1.50	210.00	1,399.95	0.42	2.58	0.39	1.50	1.50	0.00
1,500.00	3.00	210.00	1,499.87	-2.98	0.62	-2.99	1.50	1.50	0.00
1,566.70	4.00	210.00	1,566.45	-6.51	-1.42	-6.49	1.50	1.50	0.00
1,600.00	4.06	217.06	1,599.67	-8.45	-2.71	-8.43	1.50	0.18	21.21
1,700.00	4.57	235.93	1,699.39	-13.51	-8.14	-13.44	1.50	0.51	18.87
1,750.79	4.98	243.62	1,750.00	-15.62	-11.80	-15.52	1.50	0.82	15.14
Salado									
1,800.00	5.46	249.85	1,799.01	-17.38	-15.91	-17.24	1.50	0.96	12.67
1,900.00	6.57	259.50	1,898.46	-20.06	-26.00	-19.83	1.50	1.11	9.64
2,000.00	7.81	266.23	1,997.67	-21.55	-38.41	-21.21	1.50	1.24	6.73
2,080.19	8.87	270.22	2,077.01	-21.89	-50.03	-21.44	1.50	1.31	4.99
2,100.00	8.87	270.22	2,096.59	-21.87	-53.08	-21.40	0.00	0.00	0.00
2,200.00	8.87	270.22	2,195.39	-21.81	-68.50	-21.20	0.00	0.00	0.00
2,300.00	8.87	270.22	2,294.19	-21.75	-83.92	-21.01	0.00	0.00	0.00
2,400.00	8.87	270.22	2,393.00	-21.69	-99.34	-20.81	0.00	0.00	0.00
2,500.00	8.87	270.22	2,491.80	-21.63	-114.75	-20.61	0.00	0.00	0.00
2,600.00	8.87	270.22	2,590.61	-21.57	-130.17	-20.41	0.00	0.00	0.00
2,700.00	8.87	270.22	2,689.41	-21.51	-145.59	-20.21	0.00	0.00	0.00
2,800.00	8.87	270.22	2,788.22	-21.45	-161.00	-20.02	0.00	0.00	0.00
2,900.00	8.87	270.22	2,887.02	-21.39	-176.42	-19.82	0.00	0.00	0.00
3,000.00	8.87	270.22	2,985.83	-21.33	-191.84	-19.62	0.00	0.00	0.00
3,100.00	8.87	270.22	3,084.63	-21.27	-207.26	-19.42	0.00	0.00	0.00
3,200.00	8.87	270.22	3,183.43	-21.21	-222.67	-19.23	0.00	0.00	0.00
3,300.00	8.87	270.22	3,282.24	-21.15	-238.09	-19.03	0.00	0.00	0.00
3,400.00	8.87	270.22	3,381.04	-21.09	-253.51	-18.83	0.00	0.00	0.00
3,500.00	8.87	270.22	3,479.85	-21.03	-268.93	-18.63	0.00	0.00	0.00
3,600.00	8.87	270.22	3,578.65	-20.97	-284.34	-18.44	0.00	0.00	0.00
3,700.00	8.87	270.22	3,677.46	-20.91	-299.76	-18.24	0.00	0.00	0.00
3,800.00	8.87	270.22	3,776.26	-20.85	-315.18	-18.04	0.00	0.00	0.00
3,900.00	8.87	270.22	3,875.06	-20.79	-330.59	-17.84	0.00	0.00	0.00
4,000.00	8.87	270.22	3,973.87	-20.73	-346.01	-17.64	0.00	0.00	0.00
4,100.00	8.87	270.22	4,072.67	-20.67	-361.43	-17.45	0.00	0.00	0.00
4,200.00	8.87	270.22	4,171.48	-20.60	-376.85	-17.25	0.00	0.00	0.00
4,300.00	8.87	270.22	4,270.28	-20.54	-392.26	-17.05	0.00	0.00	0.00
4,400.00	8.87	270.22	4,369.09	-20.48	-407.68	-16.85	0.00	0.00	0.00
4,500.00	8.87	270.22	4,467.89	-20.42	-423.10	-16.66	0.00	0.00	0.00



Planning Report

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Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
4,600.00	8.87	270.22	4,566.70	-20.36	-438.51	-16.46	0.00	0.00	0.00	
4,700.00	8.87	270.22	4,665.50	-20.30	-453.93	-16.26	0.00	0.00	0.00	
4,800.00	8.87	270.22	4,764.30	-20.24	-469.35	-16.06	0.00	0.00	0.00	
4,900.00	8.87	270.22	4,863.11	-20.18	-484.77	-15.87	0.00	0.00	0.00	
4,912.04	8.87	270.22	4,875.00	-20.17	-486.62	-15.84	0.00	0.00	0.00	
Base Salt										
5,000.00	8.87	270.22	4,961.91	-20.12	-500.18	-15.67	0.00	0.00	0.00	
5,015.27	8.87	270.22	4,977.00	-20.11	-502.54	-15.64	0.00	0.00	0.00	
Lamar										
5,100.00	8.87	270.22	5,060.72	-20.06	-515.60	-15.47	0.00	0.00	0.00	
5,200.00	8.87	270.22	5,159.52	-20.00	-531.02	-15.27	0.00	0.00	0.00	
5,259.19	8.87	270.22	5,218.00	-19.96	-540.14	-15.16	0.00	0.00	0.00	
Bell Canyon										
5,300.00	8.87	270.22	5,258.33	-19.94	-546.44	-15.08	0.00	0.00	0.00	
5,400.00	8.87	270.22	5,357.13	-19.88	-561.85	-14.88	0.00	0.00	0.00	
5,500.00	8.87	270.22	5,455.94	-19.82	-577.27	-14.68	0.00	0.00	0.00	
5,600.00	8.87	270.22	5,554.74	-19.76	-592.69	-14.48	0.00	0.00	0.00	
5,700.00	8.87	270.22	5,653.54	-19.70	-608.10	-14.28	0.00	0.00	0.00	
5,800.00	8.87	270.22	5,752.35	-19.64	-623.52	-14.09	0.00	0.00	0.00	
5,900.00	8.87	270.22	5,851.15	-19.58	-638.94	-13.89	0.00	0.00	0.00	
6,000.00	8.87	270.22	5,949.96	-19.52	-654.36	-13.69	0.00	0.00	0.00	
6,100.00	8.87	270.22	6,048.76	-19.46	-669.77	-13.49	0.00	0.00	0.00	
6,130.60	8.87	270.22	6,079.00	-19.44	-674.49	-13.43	0.00	0.00	0.00	
Cherry Canyon										
6,200.00	8.87	270.22	6,147.57	-19.40	-685.19	-13.30	0.00	0.00	0.00	
6,300.00	8.87	270.22	6,246.37	-19.34	-700.61	-13.10	0.00	0.00	0.00	
6,400.00	8.87	270.22	6,345.17	-19.28	-716.03	-12.90	0.00	0.00	0.00	
6,500.00	8.87	270.22	6,443.98	-19.21	-731.44	-12.70	0.00	0.00	0.00	
6,600.00	8.87	270.22	6,542.78	-19.15	-746.86	-12.51	0.00	0.00	0.00	
6,700.00	8.87	270.22	6,641.59	-19.09	-762.28	-12.31	0.00	0.00	0.00	
6,800.00	8.87	270.22	6,740.39	-19.03	-777.69	-12.11	0.00	0.00	0.00	
6,900.00	8.87	270.22	6,839.20	-18.97	-793.11	-11.91	0.00	0.00	0.00	
6,972.77	8.87	270.22	6,911.10	-18.93	-804.33	-11.77	0.00	0.00	0.00	
7,000.00	8.46	270.22	6,938.02	-18.91	-808.43	-11.72	1.50	-1.50	0.00	
7,100.00	6.96	270.22	7,037.11	-18.86	-821.85	-11.54	1.50	-1.50	0.00	
7,200.00	5.46	270.22	7,136.52	-18.82	-832.67	-11.41	1.50	-1.50	0.00	
7,300.00	3.96	270.22	7,236.18	-18.79	-840.88	-11.30	1.50	-1.50	0.00	
7,400.00	2.46	270.22	7,336.02	-18.76	-846.48	-11.23	1.50	-1.50	0.00	
7,500.00	0.96	270.22	7,435.97	-18.75	-849.46	-11.19	1.50	-1.50	0.00	
7,564.03	0.00	0.00	7,500.00	-18.75	-850.00	-11.18	1.50	-1.50	0.00	
7,600.00	0.00	0.00	7,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,741.03	0.00	0.00	7,677.00	-18.75	-850.00	-11.18	0.00	0.00	0.00	
Brushy Canyon										
7,800.00	0.00	0.00	7,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
8,700.00	0.00	0.00	8,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
8,800.00	0.00	0.00	8,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
8,900.00	0.00	0.00	8,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,000.00	0.00	0.00	8,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,100.00	0.00	0.00	9,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,106.03	0.00	0.00	9,042.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Bone Spring Lime									
9,200.00	0.00	0.00	9,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,300.00	0.00	0.00	9,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,319.03	0.00	0.00	9,255.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Avalon									
9,400.00	0.00	0.00	9,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,500.00	0.00	0.00	9,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,600.00	0.00	0.00	9,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,700.00	0.00	0.00	9,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,800.00	0.00	0.00	9,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
9,900.00	0.00	0.00	9,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,000.00	0.00	0.00	9,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,100.00	0.00	0.00	10,035.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,200.00	0.00	0.00	10,135.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,300.00	0.00	0.00	10,235.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,395.03	0.00	0.00	10,331.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
First Bone Spring Sand									
10,400.00	0.00	0.00	10,335.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,500.00	0.00	0.00	10,435.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,518.03	0.00	0.00	10,454.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Second Bone Spring Carbonates									
10,600.00	0.00	0.00	10,535.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,700.00	0.00	0.00	10,635.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,733.03	0.00	0.00	10,669.00	-18.75	-850.00	-11.18	0.00	0.00	0.00
Second Bone Spring Sand									
10,800.00	0.00	0.00	10,735.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
10,900.00	0.00	0.00	10,835.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
11,000.00	0.00	0.00	10,935.97	-18.75	-850.00	-11.18	0.00	0.00	0.00
11,095.07	0.00	0.00	11,031.04	-18.75	-850.00	-11.18	0.00	0.00	0.00
KOP: 11095.07' MD/ -11.18' VS/11031.04' TVD									
11,100.00	0.49	354.30	11,035.97	-18.73	-850.00	-11.16	10.00	10.00	0.00
11,150.00	5.49	354.30	11,085.88	-16.13	-850.26	-8.56	10.00	10.00	0.00
11,200.00	10.49	354.30	11,135.38	-9.22	-850.95	-1.64	10.00	10.00	0.00
11,250.00	15.49	354.30	11,184.09	1.97	-852.07	9.55	10.00	10.00	0.00
11,300.00	20.49	354.30	11,231.63	17.33	-853.60	24.93	10.00	10.00	0.00
11,350.00	25.49	354.30	11,277.64	36.76	-855.54	44.37	10.00	10.00	0.00
11,400.00	30.49	354.30	11,321.78	60.10	-857.87	67.74	10.00	10.00	0.00
11,419.02	32.39	354.30	11,338.00	69.97	-858.86	77.62	10.00	10.00	0.00
Third Bone Spring Carbonates									
11,450.00	35.49	354.30	11,363.70	87.19	-860.57	94.84	10.00	10.00	0.00
11,500.00	40.49	354.30	11,403.09	117.80	-863.63	125.48	10.00	10.00	0.00
11,550.00	45.49	354.30	11,439.65	151.72	-867.01	159.43	10.00	10.00	0.00
11,578.21	48.31	354.30	11,458.93	172.22	-869.06	179.94	10.00	10.00	0.00
01-T98(FFC-651H)									
11,600.00	50.49	354.30	11,473.10	188.68	-870.70	196.42	10.00	10.00	0.00
11,650.00	55.49	354.30	11,503.19	228.39	-874.67	236.17	10.00	10.00	0.00
11,700.00	60.49	354.30	11,529.68	270.57	-878.88	278.38	10.00	10.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
11,750.00	65.49	354.30	11,552.38	314.88	-883.30	322.73	10.00	10.00	0.00	
11,800.00	70.49	354.30	11,571.11	361.00	-887.90	368.88	10.00	10.00	0.00	
11,850.00	75.49	354.30	11,585.73	408.56	-892.65	416.49	10.00	10.00	0.00	
11,900.00	80.49	354.30	11,596.13	457.21	-897.51	465.18	10.00	10.00	0.00	
11,950.00	85.49	354.30	11,602.23	506.57	-902.43	514.58	10.00	10.00	0.00	
11,995.07	90.00	354.30	11,604.00	551.37	-906.91	559.43	10.00	10.00	0.00	
EOC: 11995.07' MD/ 559.42' VS/11604.00' TVD - HZ Target at Landing										
12,000.00	90.00	354.40	11,604.00	556.28	-907.39	564.33	2.00	0.00	2.00	
12,100.00	90.00	356.40	11,604.00	655.95	-915.41	664.07	2.00	0.00	2.00	
12,200.00	90.00	358.40	11,604.00	755.84	-919.95	764.00	2.00	0.00	2.00	
12,254.46	90.00	359.49	11,604.00	810.30	-920.96	818.46	2.00	0.00	2.00	
12,300.00	90.00	359.49	11,604.00	855.83	-921.36	864.00	0.00	0.00	0.00	
12,400.00	90.00	359.49	11,604.00	955.83	-922.26	964.00	0.00	0.00	0.00	
12,500.00	90.00	359.49	11,604.00	1,055.82	-923.15	1,064.00	0.00	0.00	0.00	
12,600.00	90.00	359.49	11,604.00	1,155.82	-924.05	1,164.00	0.00	0.00	0.00	
12,700.00	90.00	359.49	11,604.00	1,255.82	-924.94	1,264.00	0.00	0.00	0.00	
12,800.00	90.00	359.49	11,604.00	1,355.81	-925.83	1,364.00	0.00	0.00	0.00	
12,900.00	90.00	359.49	11,604.00	1,455.81	-926.73	1,464.00	0.00	0.00	0.00	
13,000.00	90.00	359.49	11,604.00	1,555.80	-927.62	1,564.00	0.00	0.00	0.00	
13,100.00	90.00	359.49	11,604.00	1,655.80	-928.51	1,664.00	0.00	0.00	0.00	
13,200.00	90.00	359.49	11,604.00	1,755.80	-929.41	1,764.00	0.00	0.00	0.00	
13,300.00	90.00	359.49	11,604.00	1,855.79	-930.30	1,864.00	0.00	0.00	0.00	
13,400.00	90.00	359.49	11,604.00	1,955.79	-931.20	1,964.00	0.00	0.00	0.00	
13,500.00	90.00	359.49	11,604.00	2,055.78	-932.09	2,064.00	0.00	0.00	0.00	
13,600.00	90.00	359.49	11,604.00	2,155.78	-932.98	2,164.00	0.00	0.00	0.00	
13,700.00	90.00	359.49	11,604.00	2,255.78	-933.88	2,264.00	0.00	0.00	0.00	
13,800.00	90.00	359.49	11,604.00	2,355.77	-934.77	2,364.00	0.00	0.00	0.00	
13,900.00	90.00	359.49	11,604.00	2,455.77	-935.67	2,464.00	0.00	0.00	0.00	
14,000.00	90.00	359.49	11,604.00	2,555.76	-936.56	2,564.00	0.00	0.00	0.00	
14,100.00	90.00	359.49	11,604.00	2,655.76	-937.45	2,664.00	0.00	0.00	0.00	
14,200.00	90.00	359.49	11,604.00	2,755.76	-938.35	2,764.00	0.00	0.00	0.00	
14,300.00	90.00	359.49	11,604.00	2,855.75	-939.24	2,864.00	0.00	0.00	0.00	
14,400.00	90.00	359.49	11,604.00	2,955.75	-940.14	2,964.00	0.00	0.00	0.00	
14,500.00	90.00	359.49	11,604.00	3,055.74	-941.03	3,064.00	0.00	0.00	0.00	
14,600.00	90.00	359.49	11,604.00	3,155.74	-941.92	3,164.00	0.00	0.00	0.00	
14,700.00	90.00	359.49	11,604.00	3,255.74	-942.82	3,264.00	0.00	0.00	0.00	
14,800.00	90.00	359.49	11,604.00	3,355.73	-943.71	3,364.00	0.00	0.00	0.00	
14,900.00	90.00	359.49	11,604.00	3,455.73	-944.61	3,464.00	0.00	0.00	0.00	
15,000.00	90.00	359.49	11,604.00	3,555.72	-945.50	3,564.00	0.00	0.00	0.00	
15,100.00	90.00	359.49	11,604.00	3,655.72	-946.39	3,664.00	0.00	0.00	0.00	
15,200.00	90.00	359.49	11,604.00	3,755.72	-947.29	3,764.00	0.00	0.00	0.00	
15,300.00	90.00	359.49	11,604.00	3,855.71	-948.18	3,864.00	0.00	0.00	0.00	
15,400.00	90.00	359.49	11,604.00	3,955.71	-949.08	3,964.00	0.00	0.00	0.00	
15,500.00	90.00	359.49	11,604.00	4,055.70	-949.97	4,064.00	0.00	0.00	0.00	
15,600.00	90.00	359.49	11,604.00	4,155.70	-950.86	4,164.00	0.00	0.00	0.00	
15,700.00	90.00	359.49	11,604.00	4,255.70	-951.76	4,264.00	0.00	0.00	0.00	
15,800.00	90.00	359.49	11,604.00	4,355.69	-952.65	4,364.00	0.00	0.00	0.00	
15,900.00	90.00	359.49	11,604.00	4,455.69	-953.55	4,464.00	0.00	0.00	0.00	
16,000.00	90.00	359.49	11,604.00	4,555.68	-954.44	4,564.00	0.00	0.00	0.00	
16,100.00	90.00	359.49	11,604.00	4,655.68	-955.33	4,664.00	0.00	0.00	0.00	
16,200.00	90.00	359.49	11,604.00	4,755.68	-956.23	4,764.00	0.00	0.00	0.00	
16,300.00	90.00	359.49	11,604.00	4,855.67	-957.12	4,864.00	0.00	0.00	0.00	
16,400.00	90.00	359.49	11,604.00	4,955.67	-958.02	4,964.00	0.00	0.00	0.00	
16,500.00	90.00	359.49	11,604.00	5,055.66	-958.91	5,064.00	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)	
16,600.00	90.00	359.49	11,604.00	5,155.66	-959.80	5,164.00	0.00	0.00	0.00	
16,700.00	90.00	359.49	11,604.00	5,255.66	-960.70	5,264.00	0.00	0.00	0.00	
16,800.00	90.00	359.49	11,604.00	5,355.65	-961.59	5,364.00	0.00	0.00	0.00	
16,900.00	90.00	359.49	11,604.00	5,455.65	-962.48	5,464.00	0.00	0.00	0.00	
17,000.00	90.00	359.49	11,604.00	5,555.64	-963.38	5,564.00	0.00	0.00	0.00	
17,100.00	90.00	359.49	11,604.00	5,655.64	-964.27	5,664.00	0.00	0.00	0.00	
17,200.00	90.00	359.49	11,604.00	5,755.64	-965.17	5,764.00	0.00	0.00	0.00	
17,300.00	90.00	359.49	11,604.00	5,855.63	-966.06	5,864.00	0.00	0.00	0.00	
17,400.00	90.00	359.49	11,604.00	5,955.63	-966.95	5,964.00	0.00	0.00	0.00	
17,500.00	90.00	359.49	11,604.00	6,055.62	-967.85	6,064.00	0.00	0.00	0.00	
17,600.00	90.00	359.49	11,604.00	6,155.62	-968.74	6,164.00	0.00	0.00	0.00	
17,700.00	90.00	359.49	11,604.00	6,255.62	-969.64	6,264.00	0.00	0.00	0.00	
17,800.00	90.00	359.49	11,604.00	6,355.61	-970.53	6,364.00	0.00	0.00	0.00	
17,900.00	90.00	359.49	11,604.00	6,455.61	-971.42	6,464.00	0.00	0.00	0.00	
18,000.00	90.00	359.49	11,604.00	6,555.60	-972.32	6,564.00	0.00	0.00	0.00	
18,100.00	90.00	359.49	11,604.00	6,655.60	-973.21	6,664.00	0.00	0.00	0.00	
18,200.00	90.00	359.49	11,604.00	6,755.60	-974.11	6,764.00	0.00	0.00	0.00	
18,300.00	90.00	359.49	11,604.00	6,855.59	-975.00	6,864.00	0.00	0.00	0.00	
18,400.00	90.00	359.49	11,604.00	6,955.59	-975.89	6,964.00	0.00	0.00	0.00	
18,500.00	90.00	359.49	11,604.00	7,055.58	-976.79	7,064.00	0.00	0.00	0.00	
18,600.00	90.00	359.49	11,604.00	7,155.58	-977.68	7,164.00	0.00	0.00	0.00	
18,700.00	90.00	359.49	11,604.00	7,255.58	-978.58	7,264.00	0.00	0.00	0.00	
18,800.00	90.00	359.49	11,604.00	7,355.57	-979.47	7,364.00	0.00	0.00	0.00	
18,900.00	90.00	359.49	11,604.00	7,455.57	-980.36	7,464.00	0.00	0.00	0.00	
19,000.00	90.00	359.49	11,604.00	7,555.56	-981.26	7,564.00	0.00	0.00	0.00	
19,100.00	90.00	359.49	11,604.00	7,655.56	-982.15	7,664.00	0.00	0.00	0.00	
19,200.00	90.00	359.49	11,604.00	7,755.56	-983.05	7,764.00	0.00	0.00	0.00	
19,300.00	90.00	359.49	11,604.00	7,855.55	-983.94	7,864.00	0.00	0.00	0.00	
19,400.00	90.00	359.49	11,604.00	7,955.55	-984.83	7,964.00	0.00	0.00	0.00	
19,500.00	90.00	359.49	11,604.00	8,055.54	-985.73	8,064.00	0.00	0.00	0.00	
19,600.00	90.00	359.49	11,604.00	8,155.54	-986.62	8,164.00	0.00	0.00	0.00	
19,700.00	90.00	359.49	11,604.00	8,255.54	-987.52	8,264.00	0.00	0.00	0.00	
19,800.00	90.00	359.49	11,604.00	8,355.53	-988.41	8,364.00	0.00	0.00	0.00	
19,900.00	90.00	359.49	11,604.00	8,455.53	-989.30	8,464.00	0.00	0.00	0.00	
20,000.00	90.00	359.49	11,604.00	8,555.52	-990.20	8,564.00	0.00	0.00	0.00	
20,100.00	90.00	359.49	11,604.00	8,655.52	-991.09	8,664.00	0.00	0.00	0.00	
20,200.00	90.00	359.49	11,604.00	8,755.52	-991.98	8,764.00	0.00	0.00	0.00	
20,300.00	90.00	359.49	11,604.00	8,855.51	-992.88	8,864.00	0.00	0.00	0.00	
20,400.00	90.00	359.49	11,604.00	8,955.51	-993.77	8,964.00	0.00	0.00	0.00	
20,500.00	90.00	359.49	11,604.00	9,055.50	-994.67	9,064.00	0.00	0.00	0.00	
20,600.00	90.00	359.49	11,604.00	9,155.50	-995.56	9,164.00	0.00	0.00	0.00	
20,700.00	90.00	359.49	11,604.00	9,255.50	-996.45	9,264.00	0.00	0.00	0.00	
20,800.00	90.00	359.49	11,604.00	9,355.49	-997.35	9,364.00	0.00	0.00	0.00	
20,900.00	90.00	359.49	11,604.00	9,455.49	-998.24	9,464.00	0.00	0.00	0.00	
21,000.00	90.00	359.49	11,604.00	9,555.48	-999.14	9,564.00	0.00	0.00	0.00	
21,100.00	90.00	359.49	11,604.00	9,655.48	-1,000.03	9,664.00	0.00	0.00	0.00	
21,200.00	90.00	359.49	11,604.00	9,755.48	-1,000.92	9,764.00	0.00	0.00	0.00	
21,300.00	90.00	359.49	11,604.00	9,855.47	-1,001.82	9,864.00	0.00	0.00	0.00	
21,400.00	90.00	359.49	11,604.00	9,955.47	-1,002.71	9,964.00	0.00	0.00	0.00	
21,500.00	90.00	359.49	11,604.00	10,055.46	-1,003.61	10,064.00	0.00	0.00	0.00	
21,600.00	90.00	359.49	11,604.00	10,155.46	-1,004.50	10,164.00	0.00	0.00	0.00	
21,700.00	90.00	359.49	11,604.00	10,255.46	-1,005.39	10,264.00	0.00	0.00	0.00	
21,787.57	90.00	359.49	11,604.00	10,343.02	-1,006.18	10,351.57	0.00	0.00	0.00	



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well (A07) Forge Fed Com 651H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3120+30 @ 3150.00usft
Project:	Lea County, NM(N83-NME3001)	MD Reference:	3120+30 @ 3150.00usft
Site:	Tatanka North_Pad 2 (Forge Core)	North Reference:	Grid
Well:	(A07) Forge Fed Com 651H	Survey Calculation Method:	Minimum Curvature
Wellbore:	651H		
Design:	Plan 04		

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)
TD: 21787.57' MD/ 10351.57' VS/11604.00' TVD - 02-PBHL(FFC-651H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
02-PBHL(FFC-651H)	0.00	0.00	11,604.00	10,343.02	-1,006.18	404,491.72	847,298.74	32.10817172	-103.34518315
- hit/miss target									
- plan hits target center									
- Point									
01-T98(FFC-651H)	0.00	0.01	11,604.00	36.42	-914.04	394,185.12	847,390.88	32.07984116	-103.34519061
- plan misses target center by 203.74usft at 11578.21usft MD (11458.93 TVD, 172.22 N, -869.06 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
839.03	839.00	Rustler				
1,750.79	1,750.00	Salado				
4,912.04	4,875.00	Base Salt				
5,015.27	4,977.00	Lamar				
5,259.19	5,218.00	Bell Canyon				
6,130.60	6,079.00	Cherry Canyon				
7,741.03	7,677.00	Brushy Canyon				
9,106.03	9,042.00	Bone Spring Lime				
9,319.03	9,255.00	Avalon				
10,395.03	10,331.00	First Bone Spring Sand				
10,518.03	10,454.00	Second Bone Spring Carbonates				
10,733.03	10,669.00	Second Bone Spring Sand				
11,419.02	11,338.00	Third Bone Spring Carbonates				
11,995.07	11,604.00	HZ Target at Landing				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
11,095.07	11,031.04	-18.75	-850.00	KOP: 11095.07' MD/ -11.18' VS/11031.04' TVD	
11,995.07	11,604.00	551.37	-906.91	EOC: 11995.07' MD/ 559.42' VS/11604.00' TVD	
21,787.57	11,604.00	10,343.02	-1,006.18	TD: 21787.57' MD/ 10351.57' VS/11604.00' TVD	

Geologic Prognosis



Well Name	Forge 651H
Operator	Franklin Mountain Energy 3, LLC
Project Area	Forge Unit
Well Type	10,000' Third Bone Spring Lateral
API	
Rig	

State	NM	County	Lea						
SHL	Township	25S/35E	Section	35	1,434'	FWL	55'	FSL	
BHL	Township	25S/35E	Section	26	520'	FWL	130'	FNL	
Surface Latitude	NAD 83	32.079718							
Surface Longitude	NAD 83	103.342241							
Bottom Hole Latitude	NAD 83	NEED SURVEYED BHL LAT							
Bottom Hole Longitude	NAD 83	NEED SURVEYED BHL LONG							
Ground Level	3,120'	Rig KB	30'	KB	3,150'				

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,120'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2,311'	839'			Carbonates
Salado	1,400'	1,750'			Salt, Carbonate & Clastics
Base Salt	-1724	4,875'			Shaley Carbonate & Shale
Lamar	-1827	4,977'			Carbonate & Clastics
Bell Canyon	-2068	5,218'			Sandstone - oil/gas/water
Cherry Canyon	-2928	6,079'			Sandstone - oil/gas/water
Brushy Canyon	-4526	7,677'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5892	9,042'			Shale/Carbonates - oil/gas
Avalon Carb	-6105	9,255'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-7181	10,331'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7304	10,454'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7519	10,669'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8187	11,338'			Shale/Carbonates - oil/gas
HZ Target	-8454	11,604'			Shale/Sandstone/Carbonates - oil/gas
Third Bone Spring Sand	-8760	11,910'			Sandstone - oil/gas/water
					Overpressure Shale/Sand- oil/gas

Target interval is expected to have an average apparent dip of ~0.0 degrees down along the lateral based on Third Bone Spring Carbonate structure

Target window tolerance is set at +/- 15'

Target Line: 11,604' KBTVD @ 0' VS w/ 90.0° inc.
Offset Log: Tatanka Fed Com 802H (30025498820000)
Updated 12/14/2023

FME Geologist	Ben Metz	bmetz@fmeilc.com
Office	303.513.8590	Cell 303.513.8590

Electric Logs					From	To
Open-Hole						
	n/a					
MWD/LWD						
	MWD GR				Int. 1 Csg. Point	TD
Mud Log:						
at drill out of surface casing						
Sampling:	10' samples in vertical and through curve, 30' samples in lateral					
Samples:	1 set dry samples at footage frequency noted above					
Mud Gas:	Continuous					
Daily Contact:	Email distribution of mud log/daily report at 7:30am and 4:30 pm CST					
Daily Mud Log Email Distribution List						
Final Mud Log Distribution						
	Ben Kessel (bkessel@fmellc.com)				email	
	Jenna Tavares (jtavares@fmellc.com)				email	
	Ben Metz (bmetz@fmellc.com)				email	
Cuttings/Samples Shipment Information						



Forge Fed Com 651H

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)	3,120'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2,311'	839'			Carbonates
Salado	1,400'	1,750'			Salt, Carbonate & Clastics
Base Salt	-1724	4,875'			Shaley Carbonate & Shale
Lamar	-1827	4,977'			Carbonate & Clastics
Bell Canyon	-2068	5,218'			Sandstone - oil/gas/water
Cherry Canyon	-2928	6,079'			Sandstone - oil/gas/water
Brushy Canyon	-4526	7,677'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5892	9,042'			Shale/Carbonates - oil/gas
Avalon Carb	-6105	9,255'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-7181	10,331'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-7304	10,454'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7519	10,669'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-8187	11,338'			Shale/Carbonates - oil/gas
HZ Target	-8454	11,604'			Shale/Sandstone/Carbonates - oil/gas
Third Bone Spring Sand	-8760	11,910'			Sandstone - oil/gas/water

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

Upper Permian Sands	0-400'	Fresh Water
Delaware Sands	5,218'	Oil
Avalon	9,255'	Oil
Bone Spring	10,331'	Oil
Wolfcamp	'	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 13.375 casing at 1,117' and circulating cement back to surface.

4. Casing Program:

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

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,117	1.24	1.95	5.30	5.65
Intermediate 7 5/8"	29.7	P-110	9470	5340	940	BTC 960	10,995	1.31	1.04	2.20	2.25
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606	21,787 11,604	1.32	1.42	1.21	1.01 1.65

Stress calculations on 5.5 casing performed assuming 21,787' depth. Actual max vertical depth is 11,604'.

Cementing Program:

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



String Type	Hole Size	Casing		Sacks	Type of cmt	Lead			Sacks	Type of cmt	Tail			Excess
		Size	Setting Depth			Yield ft ³ /sk	Water gal/sk	TOC ft			Yield ft ³ /sk	Water gal/sk	TOC	
Surf	17.5	13.375	1,117	650	Extenda Cem, 13.5 ppg Class C, 3lb/sk Kol-Seal 0.125pps Poly-E-Flake	1.747	9.06	0	335	Tail, 14.8 ppg, Class C, 1% CaCl ₂ , 0.125pps Celo-Flake	1.349	6.51	817	100%
Int1	9.88	7.625	10,995	584	Lead, Lite Fill, 9.5 ppg, Class C 3 lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25 Integraseal	5.1	6.9	0	71	Tail, IntegraCem 14.8 ppg, Class H .15% ASA 301; P50H; 0.5% FL-66; 0.25% R-21	1.33	6.3	9,578	30%
Prod	6.75	5.5	21,787						825	Tail, 13.5 ppg, Class HSLD 82H; 0.4% CFL-2; 4% STE; 0.07% CSA-1000; .29#/sk Salt; .29#/sk Gypseal	1.43	6.87	9,995	20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top.

All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield.

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. The intermediate casing will be for 30 minutes to 0.22 psi/ft or 1500 psi, whichever is greater, but not to exceed 70% of Internal yield prior to drill-out.

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	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,117'	Fresh - Gel	8.6-8.8	28-34	N/c
1,117' –11,095'	Brine	8.8-10.2	28-34	N/c
11,095' –21,787' Lateral	Brine or OBM	10.0-12.0	58-68	3 – 6

The highest mud weight needed to balance formation is expected to be 10-12 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 11,604' TVD (deepest point of the well) is 185°F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,241 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 100' 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
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface.
 - ii. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

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

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the “batch drilling” method may be used. The 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 be 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, as per Onshore Order No. 2

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

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

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

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5,000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1,500 psi, whichever is greater.

14. Additional variance requests

- A. Casing.
 - a. Variance is requested to waive the centralizer requirements for the 7-5/8" casing due to the tight clearance with 9-7/8" hole and 7-5/8" casing.
 - b. Variance is requested to waive the centralizer requirements for the 5-1/2" casing due to the tight clearance with 6-3/4" hole and 5-1/2" casing.

District I
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	² Pool Code 97088	³ Pool Name WC-025 G-08 S2535340; BONE SPRING
⁴ Property Code	⁵ Property Name FORGE FED COM	⁶ Well Number 651H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3119.4'

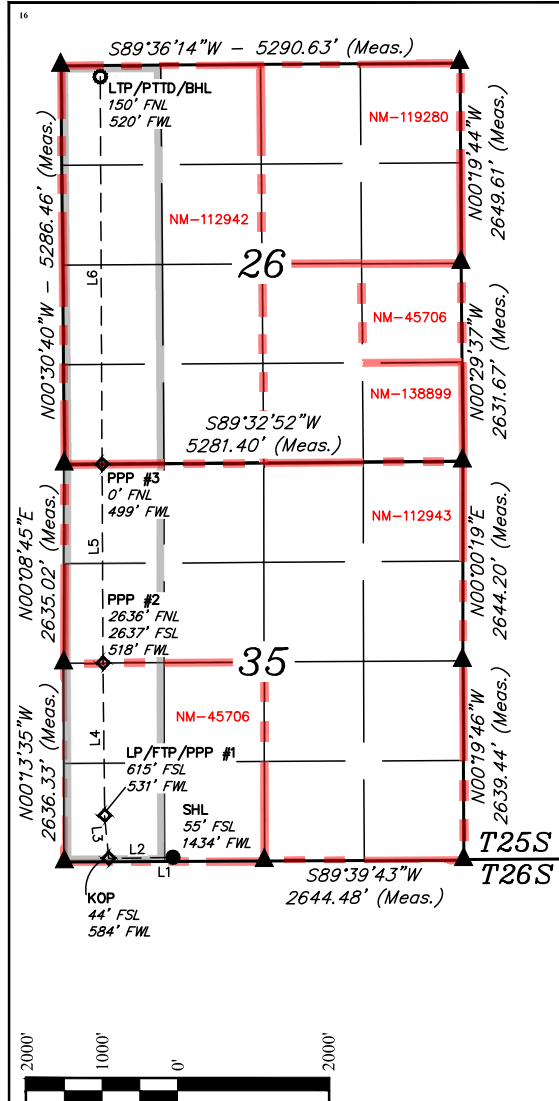
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	25S	35E		55	SOUTH	1434	WEST	LEA

¹¹ 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
D	26	25S	35E		150	NORTH	520	WEST	LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation 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.



- = SURFACE HOLE LOCATION
- ◆ = KICK OFF POINT/LANDING POINT FIRST TAKE POINT/PPP
- = LAST TAKE POINT/PTTD/BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- = DRILLING SPACING UNIT
- = LEASE LINES

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°04'46.98" (32.079718°) LONGITUDE = -103°20'32.07" (-103.342241°)
NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°04'46.53" (32.079591°) LONGITUDE = -103°20'30.41" (-103.341780°)
STATE PLANE NAD 83 (N.M. EAST) N: 394148.68' E: 848304.92'
STATE PLANE NAD 27 (N.M. EAST) N: 394090.80' E: 807117.31'
NAD 83 (KICK OFF POINT) LATITUDE = 32°04'46.88" (32.079688°) LONGITUDE = -103°20'41.95" (-103.344986°)
NAD 27 (KICK OFF POINT) LATITUDE = 32°04'46.42" (32.079561°) LONGITUDE = -103°20'40.29" (-103.344524°)
STATE PLANE NAD 83 (N.M. EAST) N: 394129.95' E: 847454.92'
STATE PLANE NAD 27 (N.M. EAST) N: 394072.07' E: 806267.33'
NAD 83 (LP/FTP/PPP #1) LATITUDE = 32°04'52.52" (32.081256°) LONGITUDE = -103°20'42.55" (-103.345152°)
NAD 27 (LP/FTP/PPP #1) LATITUDE = 32°04'52.07" (32.081130°) LONGITUDE = -103°20'40.89" (-103.344691°)
STATE PLANE NAD 83 (N.M. EAST) N: 394700.07' E: 847398.01'
STATE PLANE NAD 27 (N.M. EAST) N: 394642.18' E: 806210.44'
NAD 83 (PPP #2) LATITUDE = 32°05'12.53" (32.086813°) LONGITUDE = -103°20'42.68" (-103.345189°)
NAD 27 (PPP #2) LATITUDE = 32°05'12.07" (32.086686°) LONGITUDE = -103°20'41.02" (-103.344727°)
STATE PLANE NAD 83 (N.M. EAST) N: 396721.44' E: 847368.21'
STATE PLANE NAD 27 (N.M. EAST) N: 396663.49' E: 806180.72'
NAD 83 (PPP #3) LATITUDE = 32°05'38.60" (32.094057°) LONGITUDE = -103°20'42.67" (-103.345187°)
NAD 27 (PPP #3) LATITUDE = 32°05'38.15" (32.093930°) LONGITUDE = -103°20'41.01" (-103.344725°)
STATE PLANE NAD 83 (N.M. EAST) N: 399356.74' E: 847344.65'
STATE PLANE NAD 27 (N.M. EAST) N: 399298.72' E: 806157.27'
NAD 83 (LTP/PTTD/BHL) LATITUDE = 32°06'29.42" (32.108172°) LONGITUDE = -103°20'42.66" (-103.345183°)
NAD 27 (LTP/PTTD/BHL) LATITUDE = 32°06'28.96" (32.108045°) LONGITUDE = -103°20'40.99" (-103.344720°)
STATE PLANE NAD 83 (N.M. EAST) N: 404491.74' E: 847398.86'
STATE PLANE NAD 27 (N.M. EAST) N: 404433.59' E: 806111.49'

LINE TABLE

LINE	DIRECTION	LENGTH
L1	S89°42'05"W	2648.06'
L2	S88°58'36"W	850.33'
L3	N05°27'41"W	573.04'
L4	N00°36'20"W	2021.88'
L5	N00°16'23"W	2635.80'
L6	N00°16'26"W	5135.97'

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Rachael Overbey* Date: 1/8/2024

Printed Name: Rachael Overbey

roverbey@fmllc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 19, 2021

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:

35-25-35-N Sundry ID 2769672 Forge Fed Com 651H

Forge Fed Com 651H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight		
"A"	54.50		j 55	btc	14.23	2.25	0.47	1,100	6	0.80	4.33	59,950		
"B"				btc				0				0		
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,431				Tail Cmt	does not	circ to sfc.	Totals:		1,100			59,950		
Comparison of Proposed to Minimum Required Cement Volumes														
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist					
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg					
17 1/2	0.6946	985	1587	764	108	8.80	3407	5M	1.56					
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.														
Site plot (pipe racks 3 or 4) as per O.D. 1.10/D 3.1 not found														

7 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70		p 110	btc	2.88	0.92	1.31	10,995	2	2.02	1.57	326,552
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,419								Totals:	10,995			326,552
The cement volume(s) are intended to achieve a top of								0	ft from surface or a		1100	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.2148	655	3073	2731	13	10.20	4681	5M				0.69
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								#VALUE!	#VALUE!	655	3073	13
Class 'H' tail cmt yld > 1.20								MASP is within 10% of 5000psig, need exrta equip?				

5 1/2		casing inside the		7 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00		p 110	uss eagle sfh	2.27	2.01	2.01	21,787	2	3.10	3.11	501,101
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,553								Totals:	21,787			501,101
The cement volume(s) are intended to achieve a top of						10795	ft from surface or a		200			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
6 3/4	0.0835	825	1180	920	28	12.00						0.46
Class 'C' tail cmt yld > 1.35												

#N/A											
0	5 1/2			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0			0
Cmt vol calc below includes this csg, TOC intended				#N/A	ft from surface or a			#N/A			overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											

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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

CONDITIONS

Action 306399

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street, Suite 1000 Denver, CO 80206	OGRID: 373910
	Action Number: 306399
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	2/16/2024