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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 367969

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

1. Operator Name and Address	2. OGRID Number
Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206	331595
	3. API Number 30-025-53165

4. Property Code	5. Property Name	6. Well No.
334693	ALPHA STATE COM	501H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	9	19S	35E	C	320	N	1456	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	33	18S	35E	D	100	N	360	W	Lea

9. Pool Information

SCHARB;BONE SPRING	55610

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3859
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	20968	Bone Spring		8/15/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1889	1450	0
Int1	12.25	9.625	40	4123	870	0
Prod	8.75	7	32	9708	460	3123
Prod	8.75	5.5	20	20968	2810	9708

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	CACTUS

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:			**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Rachael A Overbey		Approved By:	Paul F Kautz	
Title:	Project Manager		Title:	Geologist	
Email Address:	roverbey@fmellc.com		Approved Date:	7/8/2024	Expiration Date: 7/8/2026
Date:	6/26/2024	Phone: 303-570-4057	Conditions of Approval Attached		

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	55610	SCHARB; BONE SPRING

[4] Property Code	[5] Property Name	[6] Well Number
	ALPHA STATE COM	501H

[7] OGRID No.	[8] Operator Name	[9] Elevation
331595	FRANKLIN MOUNTAIN ENERGY 3, LLC	3,859.4'

[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
C	9	19S	35E		320	NORTH	1456	WEST	LEA

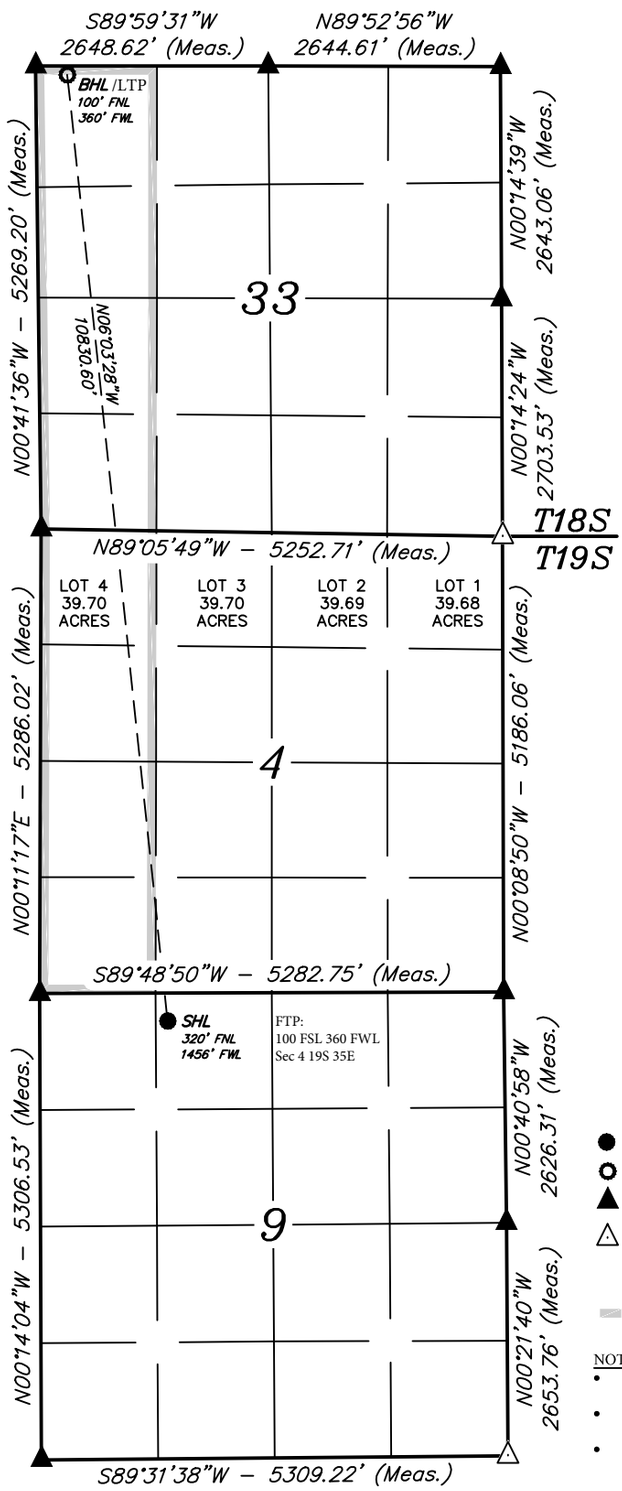
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	33	18S	35E		100	NORTH	360	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
319.70			

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.

[16]



NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°40'53.46" (32.681515°)
LONGITUDE = -103°27'58.51" (-103.466251°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°40'53.01" (32.681392°)
LONGITUDE = -103°27'56.74" (-103.465760°)
STATE PLANE NAD 83 (N.M. EAST)
N: 612756.48' E: 808119.70'
STATE PLANE NAD 27 (N.M. EAST)
N: 612692.74' E: 766939.54'

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'40.05" (32.711124°)
LONGITUDE = -103°28'11.38" (-103.469829°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.60" (32.711001°)
LONGITUDE = -103°28'09.61" (-103.469336°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623519.93' E: 806931.23'
STATE PLANE NAD 27 (N.M. EAST)
N: 623455.84' E: 765751.42'

● = SURFACE HOLE LOCATION
○ = BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)
▬ = DRILLING SPACING UNIT

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)
- Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

2000' 1000' 0' 2000'

SCALE
DRAWN BY: C.S.C. 01-09-24

[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 5/6/2024 Date

Rachael Overbey
Printed Name

roverbey@fmellc.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.

January 5, 2024
Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
PROFESSIONAL SURVEYOR
01-09-24

Certificate Number:

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

Form APD Conditions

Permit 367969

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206	30-025-53165
	Well: ALPHA STATE COM #501H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

FRANKLIN MOUNTAIN ENERGY

Alpha State Com 501H

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)	3,857'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	2,048	1,839'			Carbonates
Salado	1,816	2,071'			Salt, Anhydrite & Clastics
Base Salt	641	3,246'			Shaley Carbonate & Shale
Yates	469	3,418'			Anhyrite/Shale
Seven Rivers	-2	3,889'			Interbedded Shale/Carbonate
Queen	-744	4,631'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2,232	6,119'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3,873	7,760'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,494	9,380'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,724	9,611'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-5,991	9,877'			Sandstone - oil/gas/water
HZ Target	-6,298	10,185'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,375	10,262'			Shale/Carbonates - oil/gas

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

Upper Permian Sands	0- 400’	Fresh Water
Delaware Sands	6,119'	Oil
1st Bone Spring Sand	9,380'	Oil
2nd Bone Spring Carb	9,611'	Oil
2nd Bone Spring Sand	9,877'	Oil
3rd Bone Spring Sand	N/A	Oil
Wolfcamp	N/A	Oil
Wolfcamp B	N/A	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13-3/8" casing at 1,889' and circulating cement back to surface.

4. **Casing Program:**

All casing strings will be run new.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,889	1.02	1.15	4.20	4.48
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,123	2.04	2.19	3.46	3.93
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9,708	1.90	2.37	2.50	2.56
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	11,260	1.15	2.32	1.97	2.05
							10,185				2.20

Tapered production string will be ran with a X-over installed at the KOP of 9,708'.

FRANKLIN MOUNTAIN ENERGY

Cementing Program:

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

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

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

String Type	Hole Size	Casing Size	Casing Setting Depth	Lead Sacks	Lead Type of cmt	Lead Yield ft3/sk	Lead Water gal/sk	Lead TOC ft	Tail Sacks	Tail Type of cmt	Tail Yield ft3/sk	Tail Water gal/sk	Tail TOC	Excess
Surf	17.5	13.375	1,889	1009	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel,3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1,489	100%
Int1	12.25	9.625	4,123	669	Lead, 11.3 ppg, HSLD 82 10% Gel, 4% STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3,723	100%
Prod	8.75	7	9,708	460	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3,123						100%
Prod	8.75	5.5	20,968						2810	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9,708	50%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 3,500/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

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

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

FRANKLIN MOUNTAIN ENERGY

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 – 1,889'	Fresh - Gel	8.6-8.8	28-34	N/c
1,889' – 4,123'	Brine	8.8-10.2	28-34	N/c
4,123'' – 10,608'	Brine	8.8-10.2	28-34	N/c
10,608' – 20,968' Lateral	Oil Base	9.0-11	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 9-11 ppg. In order to maintain hole stability, mud weights up to 11 ppg may be utilized.

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

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

7. Auxiliary well control and monitoring equipment:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be kept on the rig floor at all times.

(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.

(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR–CCL-CNL Will be run in cased hole during completions phase of operations.

Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 10,185' TVD (deepest point of the well) is 170F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,826' psig (based on 11 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

A. All personnel shall receive proper awareness H2S training.
B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
C. Required Emergency Equipment
    a. Well Control Equipment
        i. Flare line 150’ from wellhead to be ignited by auto ignition sparking system.
        ii. Choke manifold with a remotely operated hydraulic choke.
        iii. Mud/gas separator
    b. Protective equipment for essential personnel

FRANKLIN MOUNTAIN ENERGY

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. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
f. Metallurgy
    i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
g. Communication
    i. Communication will be via cell phones and walkie talkies on location.

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

11. Anticipated starting date and duration of operations:

FRANKLIN MOUNTAIN ENERGY

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for State approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

(A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
(B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
(C) Garbage will be hauled to the Pecos City Landfill.
(D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.
After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 days.

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

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

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

A solid steel body pack-off will be utilized after running and cementing the intermediate casing string. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi.

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

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 ½" production casing due to the tight clearance with 8 3/4" hole.

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: ___Franklin Mountain Energy 3, LLC_____ **OGRID:** ____331595_____ **Date:** __8/_30_/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
See Attached Well List						

IV. Central Delivery Point Name: _____Alpha/Cable CTB _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
See Attached Well List						

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

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

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

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

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

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

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

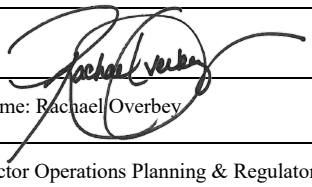
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 1/2/2024
Phone: 720-414-7868

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API 14 Digit	ULSTR	Surface Location FTG	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Alpha State Com 301H	TBD	C-09-19S-35E	310 FNL 1470 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 302H	TBD	C-09-19S-35E	50 FNL 2265 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 303H	30-025-52406	P-04-19S-35E	452 FSL 1395 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 304H	30-025-51990	P-04-19S-35E	452 FSL 1245 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 501H	TBD	C-09-19S-35E	310 FNL 1410 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 502H	TBD	C-09-19S-35E	50 FNL 2205 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 503H	30-025-52407	P-04-19S-35E	452 FSL 1365 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 504H	30-025-52408	P-04-19S-35E	452 FSL 1305 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 601H	TBD	C-09-19S-35E	310 FNL 1500 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 602H	TBD	C-09-19S-35E	50 FNL 2295 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 603H	30-025-52409	P-04-19S-35E	552 FSL 1365 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 604H	30-025-52410	P-04-19S-35E	552 FSL 1305 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 701H	TBD	C-09-19S-35E	310 FNL 1440 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 702H	TBD	C-09-19S-35E	50 FNL 2235 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 703H	30-025-52411	P-04-19S-35E	452 FSL 1335 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 704H	30-025-52412	P-04-19S-35E	452 FSL 1275 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 801H	TBD	C-09-19S-35E	310 FNL 1530 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 802H	TBD	C-09-19S-35E	50 FNL 2325 FWL	800 +/-	700 +/-	2500 +/-
Alpha State Com 803H	30-025-52413	P-04-19S-35E	552 FSL 1335 FEL	800 +/-	700 +/-	2500 +/-
Alpha State Com 804H	30-025-52414	P-04-19S-35E	552 FSL 1275 FEL	800 +/-	700 +/-	2500 +/-

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be

Well Name	API 14 Digit	Spud Date (Batch Drilling)	TD Reached Date	Completion Commencement Date	Initial Flowback Date	First Production Date
Alpha State Com 301H	TBD	6/21/2024	9/4/2024	9/29/2024	10/9/2024	10/11/2024
Alpha State Com 302H	TBD	6/1/2024	8/15/2024	9/9/2024	9/19/2024	9/21/2024
Alpha State Com 303H	30-025-52406	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 304H (Producing)	30-025-51990	N/A	N/A	N/A	N/A	N/A
Alpha State Com 501H	TBD	6/21/2024	9/4/2024	9/29/2024	10/9/2024	10/11/2024
Alpha State Com 502H	TBD	6/1/2024	8/15/2024	8/30/2024	9/9/2024	9/11/2024
Alpha State Com 503H	30-025-52407	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 504H	30-025-52408	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 601H	TBD	6/21/2024	9/4/2024	9/29/2024	10/9/2024	10/11/2024
Alpha State Com 602H	TBD	6/1/2024	8/15/2024	9/9/2024	9/19/2024	9/21/2024
Alpha State Com 603H	30-025-52409	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 604H	30-025-52410	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 701H	TBD	6/21/2024	9/4/2024	9/29/2024	10/9/2024	10/11/2024
Alpha State Com 702H	TBD	6/1/2024	8/15/2024	9/9/2024	9/19/2024	9/21/2024
Alpha State Com 703H	30-025-52411	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 704H	TBD	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 801H	TBD	6/21/2024	9/4/2024	9/29/2024	10/9/2024	10/11/2024
Alpha State Com 802H	TBD	6/1/2024	8/15/2024	9/9/2024	9/19/2024	9/21/2024
Alpha State Com 803H	30-025-52413	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025
Alpha State Com 804H	30-025-52414	8/15/2024	12/28/2024	1/22/2025	2/1/2025	2/3/2025

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Natural Gas Management Plan

Items VI-VIII

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

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a a 3-phase separator to remove gas. Gas from the 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- *Drilling Operations:*
  - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
  - Flares will be properly sized and placed at least 100’ from the nearest surface hole on the pad.
- *Completions/Recompletions Operations:*
  - Flowback operations will not commence until connected to a properly sized gas gathering system.
  - During initial flowback wells are routed to the separation equipment as soon as technically feasible to minimize gas waste.
  - During separation flowback wells are routed to the separation equipment to minimize gas waste.
  - Gas sales is maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
  - Flares are properly sized with a continuous pilot.
- *Production Operations:*
  - Gas sales will be maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
  - After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- *Performance Standards:*
  - The facility will be designed to handle peak production rates and pressures.
  - All tanks will have automatic gauging equipment.
  - Flares will be designed to ensure proper combustion and will have continuous pilots. Flares will be located 100’ from nearest surface hole on the pad and storage tanks.
  - Weekly AVOs will be performed, and any leaking thief hatches will be cleaned and properly re-sealed.
- *Measurement and Calibration:*

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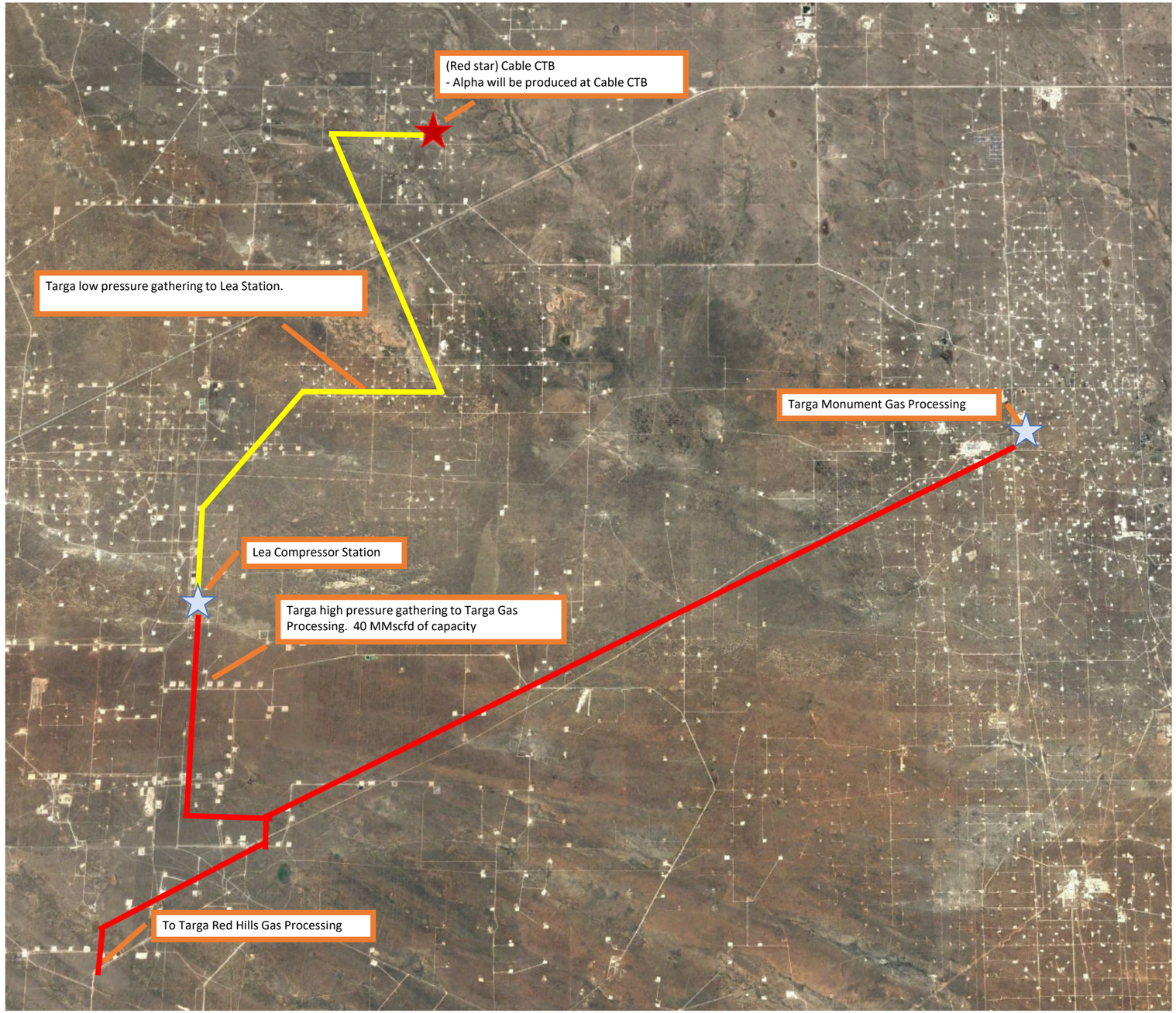
- All volume that is flared and vented that is not measured will be estimated.
- When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
- Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices to minimize vent.

Alpha NGMP Map
Sep 2023
- Capacities reflected are FME's understanding of 3rd party midstream system capacities



FRANKLIN MOUNTAIN ENERGY™

Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)
Alpha_Cable West
(WA01) Alpha State Com 501H - Slot (WA01)

501H

Plan: APD-Rev01

Standard Planning Report - Geographic

22 March, 2024

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Project PV_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 Alpha_Cable West

Site Position:		**Northing:**	612,756.93 usft	**Latitude:**	32.68151517
From:	Map	**Easting:**	808,179.69 usft	**Longitude:**	-103.46605645
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well (WA01) Alpha State Com 501H - Slot (WA01)

Well Position	**+N/-S**	0.00 usft	**Northing:**	612,756.48 usft	**Latitude:**	32.68151528
	+E/-W	0.00 usft	**Easting:**	808,119.70 usft	**Longitude:**	-103.46625141
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,857.00 usft
Grid Convergence:		0.47 °				

Wellbore 501H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/17/2024	6.21	60.24	47,483.64844164

Design APD-Rev01

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.52

Plan Survey Tool Program **Date** 3/21/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,968.67	APD-Rev01 (501H)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-S	

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

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Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,786.62	11.80	260.66	2,781.08	-13.09	-79.64	1.50	1.50	0.00	260.66	
6,809.48	11.80	260.66	6,718.92	-146.56	-891.36	0.00	0.00	0.00	0.00	
7,596.10	0.00	0.00	7,500.00	-159.65	-971.00	1.50	-1.50	0.00	180.00	
9,708.14	0.00	0.00	9,612.04	-159.65	-971.00	0.00	0.00	0.00	0.00	
10,608.14	90.00	350.50	10,185.00	405.45	-1,065.57	10.00	10.00	0.00	350.50	
11,058.94	90.00	359.52	10,185.00	854.07	-1,104.75	2.00	0.00	2.00	90.00	
20,968.67	90.00	359.52	10,185.00	10,763.45	-1,188.47	0.00	0.00	0.00	0.00	02-PBHL(APSC-501H

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
30.00	0.00	0.00	30.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
200.00	0.00	0.00	200.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
300.00	0.00	0.00	300.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
400.00	0.00	0.00	400.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
500.00	0.00	0.00	500.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
600.00	0.00	0.00	600.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
700.00	0.00	0.00	700.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
800.00	0.00	0.00	800.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
900.00	0.00	0.00	900.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,000.00	0.00	0.00	1,000.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,100.00	0.00	0.00	1,100.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,200.00	0.00	0.00	1,200.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,300.00	0.00	0.00	1,300.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,400.00	0.00	0.00	1,400.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,500.00	0.00	0.00	1,500.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,600.00	0.00	0.00	1,600.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,700.00	0.00	0.00	1,700.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,800.00	0.00	0.00	1,800.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
1,839.00	0.00	0.00	1,839.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
Rustler									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
2,000.00	0.00	0.00	2,000.00	0.00	0.00	612,756.48	808,119.70	32.68151528	-103.46625141
2,071.00	1.07	260.66	2,071.00	-0.11	-0.65	612,756.38	808,119.05	32.68151500	-103.46625353
Salado									
2,100.00	1.50	260.66	2,099.99	-0.21	-1.29	612,756.27	808,118.41	32.68151473	-103.46625562
2,200.00	3.00	260.66	2,199.91	-0.85	-5.17	612,755.63	808,114.53	32.68151306	-103.46626822
2,300.00	4.50	260.66	2,299.69	-1.91	-11.62	612,754.57	808,108.08	32.68151029	-103.46628922
2,400.00	6.00	260.66	2,399.27	-3.39	-20.65	612,753.09	808,099.05	32.68150641	-103.46631861
2,500.00	7.50	260.66	2,498.57	-5.30	-32.25	612,751.18	808,087.45	32.68150143	-103.46635635
2,600.00	9.00	260.66	2,597.54	-7.63	-46.40	612,748.85	808,073.29	32.68149535	-103.46640242
2,700.00	10.50	260.66	2,696.09	-10.38	-63.11	612,746.11	808,056.58	32.68148818	-103.46645680
2,786.62	11.80	260.66	2,781.08	-13.09	-79.64	612,743.39	808,040.06	32.68148108	-103.46651059
2,800.00	11.80	260.66	2,794.17	-13.54	-82.34	612,742.95	808,037.36	32.68147992	-103.46651937
2,900.00	11.80	260.66	2,892.06	-16.86	-102.52	612,739.63	808,017.18	32.68147126	-103.46658503
3,000.00	11.80	260.66	2,989.94	-20.17	-122.70	612,736.31	807,997.00	32.68146259	-103.46665069
3,100.00	11.80	260.66	3,087.83	-23.49	-142.87	612,732.99	807,976.82	32.68145393	-103.46671636
3,200.00	11.80	260.66	3,185.72	-26.81	-163.05	612,729.68	807,956.65	32.68144526	-103.46678202
3,261.58	11.80	260.66	3,246.00	-28.85	-175.48	612,727.63	807,944.22	32.68143993	-103.46682245
Base Salt									
3,300.00	11.80	260.66	3,283.60	-30.13	-183.23	612,726.36	807,936.47	32.68143660	-103.46684768
3,400.00	11.80	260.66	3,381.49	-33.44	-203.41	612,723.04	807,916.29	32.68142793	-103.46691334
3,437.30	11.80	260.66	3,418.00	-34.68	-210.93	612,721.80	807,908.77	32.68142470	-103.46693783
Yates									
3,500.00	11.80	260.66	3,479.38	-36.76	-223.58	612,719.72	807,896.11	32.68141927	-103.46697900
3,600.00	11.80	260.66	3,577.26	-40.08	-243.76	612,716.40	807,875.94	32.68141060	-103.46704466
3,700.00	11.80	260.66	3,675.15	-43.40	-263.94	612,713.09	807,855.76	32.68140194	-103.46711033
3,800.00	11.80	260.66	3,773.04	-46.71	-284.12	612,709.77	807,835.58	32.68139327	-103.46717599
3,900.00	11.80	260.66	3,870.93	-50.03	-304.30	612,706.45	807,815.40	32.68138461	-103.46724165
3,918.46	11.80	260.66	3,889.00	-50.64	-308.02	612,705.84	807,811.68	32.68138301	-103.46725377
Seven Rivers									

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,000.00	11.80	260.66	3,968.81	-53.35	-324.47	612,703.13	807,795.23	32.68137594	-103.46730731
4,100.00	11.80	260.66	4,066.70	-56.67	-344.65	612,699.82	807,775.05	32.68136727	-103.46737297
4,200.00	11.80	260.66	4,164.59	-59.98	-364.83	612,696.50	807,754.87	32.68135861	-103.46743863
4,300.00	11.80	260.66	4,262.47	-63.30	-385.01	612,693.18	807,734.69	32.68134994	-103.46750429
4,400.00	11.80	260.66	4,360.36	-66.62	-405.18	612,689.86	807,714.52	32.68134128	-103.46756996
4,500.00	11.80	260.66	4,458.25	-69.94	-425.36	612,686.55	807,694.34	32.68133261	-103.46763562
4,600.00	11.80	260.66	4,556.13	-73.25	-445.54	612,683.23	807,674.16	32.68132395	-103.46770128
4,676.48	11.80	260.66	4,631.00	-75.79	-460.97	612,680.69	807,658.73	32.68131732	-103.46775150
Queen									
4,700.00	11.80	260.66	4,654.02	-76.57	-465.72	612,679.91	807,653.98	32.68131528	-103.46776694
4,800.00	11.80	260.66	4,751.91	-79.89	-485.89	612,676.59	807,633.80	32.68130662	-103.46783260
4,900.00	11.80	260.66	4,849.80	-83.21	-506.07	612,673.28	807,613.63	32.68129795	-103.46789826
5,000.00	11.80	260.66	4,947.68	-86.52	-526.25	612,669.96	807,593.45	32.68128929	-103.46796393
5,100.00	11.80	260.66	5,045.57	-89.84	-546.43	612,666.64	807,573.27	32.68128062	-103.46802959
5,200.00	11.80	260.66	5,143.46	-93.16	-566.60	612,663.32	807,553.09	32.68127195	-103.46809525
5,300.00	11.80	260.66	5,241.34	-96.48	-586.78	612,660.01	807,532.92	32.68126329	-103.46816091
5,400.00	11.80	260.66	5,339.23	-99.80	-606.96	612,656.69	807,512.74	32.68125462	-103.46822657
5,500.00	11.80	260.66	5,437.12	-103.11	-627.14	612,653.37	807,492.56	32.68124596	-103.46829223
5,600.00	11.80	260.66	5,535.00	-106.43	-647.31	612,650.05	807,472.38	32.68123729	-103.46835789
5,700.00	11.80	260.66	5,632.89	-109.75	-667.49	612,646.74	807,452.21	32.68122862	-103.46842356
5,800.00	11.80	260.66	5,730.78	-113.07	-687.67	612,643.42	807,432.03	32.68121996	-103.46848922
5,900.00	11.80	260.66	5,828.67	-116.38	-707.85	612,640.10	807,411.85	32.68121129	-103.46855488
6,000.00	11.80	260.66	5,926.55	-119.70	-728.02	612,636.78	807,391.67	32.68120263	-103.46862054
6,100.00	11.80	260.66	6,024.44	-123.02	-748.20	612,633.47	807,371.50	32.68119396	-103.46868620
6,196.60	11.80	260.66	6,119.00	-126.22	-767.69	612,630.26	807,352.00	32.68118559	-103.46874963
Delaware Mtn Group									
6,200.00	11.80	260.66	6,122.33	-126.34	-768.38	612,630.15	807,351.32	32.68118529	-103.46875186
6,300.00	11.80	260.66	6,220.21	-129.65	-788.56	612,626.83	807,331.14	32.68117663	-103.46881752
6,400.00	11.80	260.66	6,318.10	-132.97	-808.73	612,623.51	807,310.96	32.68116796	-103.46888319
6,500.00	11.80	260.66	6,415.99	-136.29	-828.91	612,620.20	807,290.79	32.68115930	-103.46894885
6,600.00	11.80	260.66	6,513.87	-139.61	-849.09	612,616.88	807,270.61	32.68115063	-103.46901451
6,700.00	11.80	260.66	6,611.76	-142.92	-869.27	612,613.56	807,250.43	32.68114196	-103.46908017
6,809.48	11.80	260.66	6,718.92	-146.56	-891.36	612,609.93	807,228.34	32.68113248	-103.46915205
6,900.00	10.44	260.66	6,807.75	-149.39	-908.59	612,607.10	807,211.11	32.68112508	-103.46920811
7,000.00	8.94	260.66	6,906.32	-152.12	-925.20	612,604.36	807,194.50	32.68111794	-103.46926217
7,100.00	7.44	260.66	7,005.29	-154.43	-939.25	612,602.05	807,180.44	32.68111190	-103.46930792
7,200.00	5.94	260.66	7,104.61	-156.32	-950.75	612,600.16	807,168.95	32.68110697	-103.46934534
7,300.00	4.44	260.66	7,204.20	-157.79	-959.68	612,598.69	807,160.02	32.68110313	-103.46937439
7,400.00	2.94	260.66	7,303.99	-158.83	-966.03	612,597.65	807,153.66	32.68110040	-103.46939506
7,500.00	1.44	260.66	7,403.91	-159.45	-969.81	612,597.03	807,149.89	32.68109878	-103.46940734
7,596.10	0.00	0.00	7,500.00	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
7,600.00	0.00	0.00	7,503.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
7,700.00	0.00	0.00	7,603.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
7,800.00	0.00	0.00	7,703.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
7,856.10	0.00	0.00	7,760.00	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
Bone Spring Lime									
7,900.00	0.00	0.00	7,803.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,000.00	0.00	0.00	7,903.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,100.00	0.00	0.00	8,003.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,200.00	0.00	0.00	8,103.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,300.00	0.00	0.00	8,203.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,400.00	0.00	0.00	8,303.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,500.00	0.00	0.00	8,403.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,600.00	0.00	0.00	8,503.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,700.00	0.00	0.00	8,603.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,800.00	0.00	0.00	8,703.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
8,900.00	0.00	0.00	8,803.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,000.00	0.00	0.00	8,903.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,100.00	0.00	0.00	9,003.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,200.00	0.00	0.00	9,103.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,300.00	0.00	0.00	9,203.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,400.00	0.00	0.00	9,303.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,476.10	0.00	0.00	9,380.00	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
First Bone Spring Sand									
9,500.00	0.00	0.00	9,403.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,600.00	0.00	0.00	9,503.90	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
9,707.10	0.00	0.00	9,611.00	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
Second Bone Spring Carbonate									
9,708.14	0.00	0.00	9,612.04	-159.65	-971.00	612,596.83	807,148.70	32.68109827	-103.46941122
KOP: 9708.14' MD/ -151.51' VS/9612.04' TVD									
9,750.00	4.19	350.50	9,653.86	-158.14	-971.25	612,598.34	807,148.45	32.68110242	-103.46941200
9,800.00	9.19	350.50	9,703.51	-152.40	-972.21	612,604.08	807,147.49	32.68111821	-103.46941497
9,850.00	14.19	350.50	9,752.45	-142.42	-973.88	612,614.07	807,145.81	32.68114570	-103.46942014
9,900.00	19.19	350.50	9,800.33	-128.26	-976.25	612,628.22	807,143.45	32.68118465	-103.46942746
9,950.00	24.19	350.50	9,846.78	-110.05	-979.30	612,646.44	807,140.40	32.68123479	-103.46943689
9,983.59	27.54	350.50	9,877.00	-95.60	-981.72	612,660.89	807,137.98	32.68127456	-103.46944436
Second Bone Spring Sand									
10,000.00	29.19	350.50	9,891.44	-87.91	-983.01	612,668.58	807,136.69	32.68129572	-103.46944834
10,050.00	34.19	350.50	9,933.97	-62.01	-987.34	612,694.47	807,132.36	32.68136698	-103.46946174
10,100.00	39.19	350.50	9,974.06	-32.56	-992.27	612,723.92	807,127.43	32.68144804	-103.46947698
10,150.00	44.19	350.50	10,011.39	0.23	-997.75	612,756.71	807,121.94	32.68153827	-103.46949394
10,200.00	49.19	350.50	10,045.67	36.10	-1,003.76	612,792.58	807,115.94	32.68163699	-103.46951250
10,250.00	54.19	350.50	10,076.66	74.78	-1,010.23	612,831.26	807,109.47	32.68174345	-103.46953251
10,300.00	59.19	350.50	10,104.12	115.98	-1,017.12	612,872.46	807,102.57	32.68185683	-103.46955383
10,350.00	64.19	350.50	10,127.82	159.38	-1,024.39	612,915.86	807,095.31	32.68197627	-103.46957628
10,400.00	69.19	350.50	10,147.61	204.65	-1,031.96	612,961.13	807,087.74	32.68210087	-103.46959970
10,450.00	74.19	350.50	10,163.31	251.45	-1,039.79	613,007.93	807,079.90	32.68222968	-103.46962392
10,500.00	79.19	350.50	10,174.82	299.42	-1,047.82	613,055.91	807,071.88	32.68236171	-103.46964874
10,550.00	84.19	350.50	10,182.05	348.20	-1,055.99	613,104.69	807,063.71	32.68249596	-103.46967398
10,600.00	89.19	350.50	10,184.94	397.42	-1,064.22	613,153.90	807,055.48	32.68263141	-103.46969944
10,608.14	90.00	350.50	10,185.00	405.45	-1,065.57	613,161.93	807,054.13	32.68265350	-103.46970359
EOC: 10608.14' MD/ 414.36' VS/10185.00' TVD - HZ Target									
10,617.23	90.00	350.68	10,185.00	414.42	-1,067.05	613,170.90	807,052.65	32.68267818	-103.46970819
100FLL: 10617.23' MD/ 423.34' VS/10185.00' TVD									
10,622.90	90.00	350.80	10,185.00	420.01	-1,067.96	613,176.50	807,051.73	32.68269358	-103.46971100
01-T98(APSC-501H)									
10,700.00	90.00	352.34	10,185.00	496.28	-1,079.27	613,252.76	807,040.43	32.68290344	-103.46974574
10,800.00	90.00	354.34	10,185.00	595.60	-1,090.87	613,352.08	807,028.82	32.68317667	-103.46978081
10,900.00	90.00	356.34	10,185.00	695.26	-1,099.00	613,451.74	807,020.70	32.68345076	-103.46980459
11,000.00	90.00	358.34	10,185.00	795.15	-1,103.65	613,551.63	807,016.05	32.68372540	-103.46981705
11,058.94	90.00	359.52	10,185.00	854.07	-1,104.75	613,610.56	807,014.95	32.68388738	-103.46981908
11,100.00	90.00	359.52	10,185.00	895.13	-1,105.10	613,651.62	807,014.60	32.68400023	-103.46981912
11,200.00	90.00	359.52	10,185.00	995.13	-1,105.94	613,751.61	807,013.75	32.68427508	-103.46981922
11,300.00	90.00	359.52	10,185.00	1,095.13	-1,106.79	613,851.61	807,012.91	32.68454993	-103.46981932
11,400.00	90.00	359.52	10,185.00	1,195.12	-1,107.63	613,951.61	807,012.06	32.68482478	-103.46981942
11,500.00	90.00	359.52	10,185.00	1,295.12	-1,108.48	614,051.60	807,011.22	32.68509963	-103.46981952

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,600.00	90.00	359.52	10,185.00	1,395.12	-1,109.32	614,151.60	807,010.38	32.68537447	-103.46981962
11,700.00	90.00	359.52	10,185.00	1,495.11	-1,110.17	614,251.60	807,009.53	32.68564932	-103.46981972
11,800.00	90.00	359.52	10,185.00	1,595.11	-1,111.01	614,351.59	807,008.69	32.68592417	-103.46981982
11,900.00	90.00	359.52	10,185.00	1,695.11	-1,111.86	614,451.59	807,007.84	32.68619902	-103.46981992
12,000.00	90.00	359.52	10,185.00	1,795.10	-1,112.70	614,551.59	807,007.00	32.68647387	-103.46982003
12,100.00	90.00	359.52	10,185.00	1,895.10	-1,113.55	614,651.58	807,006.15	32.68674872	-103.46982013
12,200.00	90.00	359.52	10,185.00	1,995.10	-1,114.39	614,751.58	807,005.31	32.68702356	-103.46982023
12,300.00	90.00	359.52	10,185.00	2,095.09	-1,115.24	614,851.58	807,004.46	32.68729841	-103.46982033
12,400.00	90.00	359.52	10,185.00	2,195.09	-1,116.08	614,951.57	807,003.62	32.68757326	-103.46982043
12,500.00	90.00	359.52	10,185.00	2,295.08	-1,116.93	615,051.57	807,002.77	32.68784811	-103.46982053
12,600.00	90.00	359.52	10,185.00	2,395.08	-1,117.77	615,151.56	807,001.93	32.68812296	-103.46982063
12,700.00	90.00	359.52	10,185.00	2,495.08	-1,118.62	615,251.56	807,001.08	32.68839780	-103.46982073
12,800.00	90.00	359.52	10,185.00	2,595.07	-1,119.46	615,351.56	807,000.24	32.68867265	-103.46982083
12,900.00	90.00	359.52	10,185.00	2,695.07	-1,120.31	615,451.55	806,999.39	32.68894750	-103.46982093
13,000.00	90.00	359.52	10,185.00	2,795.07	-1,121.15	615,551.55	806,998.55	32.68922235	-103.46982103
13,100.00	90.00	359.52	10,185.00	2,895.06	-1,121.99	615,651.55	806,997.70	32.68949720	-103.46982113
13,200.00	90.00	359.52	10,185.00	2,995.06	-1,122.84	615,751.54	806,996.86	32.68977205	-103.46982123
13,300.00	90.00	359.52	10,185.00	3,095.06	-1,123.68	615,851.54	806,996.01	32.69004689	-103.46982133
13,400.00	90.00	359.52	10,185.00	3,195.05	-1,124.53	615,951.54	806,995.17	32.69032174	-103.46982143
13,500.00	90.00	359.52	10,185.00	3,295.05	-1,125.37	616,051.53	806,994.32	32.69059659	-103.46982153
13,600.00	90.00	359.52	10,185.00	3,395.05	-1,126.22	616,151.53	806,993.48	32.69087144	-103.46982163
13,700.00	90.00	359.52	10,185.00	3,495.04	-1,127.06	616,251.53	806,992.63	32.69114629	-103.46982173
13,800.00	90.00	359.52	10,185.00	3,595.04	-1,127.91	616,351.52	806,991.79	32.69142113	-103.46982183
13,900.00	90.00	359.52	10,185.00	3,695.03	-1,128.75	616,451.52	806,990.94	32.69169598	-103.46982193
14,000.00	90.00	359.52	10,185.00	3,795.03	-1,129.60	616,551.51	806,990.10	32.69197083	-103.46982203
14,100.00	90.00	359.52	10,185.00	3,895.03	-1,130.44	616,651.51	806,989.26	32.69224568	-103.46982213
14,200.00	90.00	359.52	10,185.00	3,995.02	-1,131.29	616,751.51	806,988.41	32.69252053	-103.46982223
14,300.00	90.00	359.52	10,185.00	4,095.02	-1,132.13	616,851.50	806,987.57	32.69279537	-103.46982233
14,400.00	90.00	359.52	10,185.00	4,195.02	-1,132.98	616,951.50	806,986.72	32.69307022	-103.46982243
14,500.00	90.00	359.52	10,185.00	4,295.01	-1,133.82	617,051.50	806,985.88	32.69334507	-103.46982253
14,600.00	90.00	359.52	10,185.00	4,395.01	-1,134.67	617,151.49	806,985.03	32.69361992	-103.46982263
14,700.00	90.00	359.52	10,185.00	4,495.01	-1,135.51	617,251.49	806,984.19	32.69389477	-103.46982273
14,800.00	90.00	359.52	10,185.00	4,595.00	-1,136.36	617,351.49	806,983.34	32.69416961	-103.46982283
14,900.00	90.00	359.52	10,185.00	4,695.00	-1,137.20	617,451.48	806,982.50	32.69444446	-103.46982293
15,000.00	90.00	359.52	10,185.00	4,795.00	-1,138.05	617,551.48	806,981.65	32.69471931	-103.46982303
15,100.00	90.00	359.52	10,185.00	4,894.99	-1,138.89	617,651.48	806,980.81	32.69499416	-103.46982313
15,200.00	90.00	359.52	10,185.00	4,994.99	-1,139.74	617,751.47	806,979.96	32.69526901	-103.46982323
15,300.00	90.00	359.52	10,185.00	5,094.98	-1,140.58	617,851.47	806,979.12	32.69554385	-103.46982333
15,400.00	90.00	359.52	10,185.00	5,194.98	-1,141.43	617,951.46	806,978.27	32.69581870	-103.46982342
15,500.00	90.00	359.52	10,185.00	5,294.98	-1,142.27	618,051.46	806,977.43	32.69609355	-103.46982352
15,600.00	90.00	359.52	10,185.00	5,394.97	-1,143.12	618,151.46	806,976.58	32.69636840	-103.46982362
15,700.00	90.00	359.52	10,185.00	5,494.97	-1,143.96	618,251.45	806,975.74	32.69664324	-103.46982372
15,800.00	90.00	359.52	10,185.00	5,594.97	-1,144.80	618,351.45	806,974.89	32.69691809	-103.46982382
15,900.00	90.00	359.52	10,185.00	5,694.96	-1,145.65	618,451.45	806,974.05	32.69719294	-103.46982392
16,000.00	90.00	359.52	10,185.00	5,794.96	-1,146.49	618,551.44	806,973.20	32.69746779	-103.46982402
16,100.00	90.00	359.52	10,185.00	5,894.96	-1,147.34	618,651.44	806,972.36	32.69774264	-103.46982412
16,200.00	90.00	359.52	10,185.00	5,994.95	-1,148.18	618,751.44	806,971.51	32.69801748	-103.46982422
16,300.00	90.00	359.52	10,185.00	6,094.95	-1,149.03	618,851.43	806,970.67	32.69829233	-103.46982432
16,400.00	90.00	359.52	10,185.00	6,194.95	-1,149.87	618,951.43	806,969.82	32.69856718	-103.46982442
16,500.00	90.00	359.52	10,185.00	6,294.94	-1,150.72	619,051.43	806,968.98	32.69884203	-103.46982452
16,600.00	90.00	359.52	10,185.00	6,394.94	-1,151.56	619,151.42	806,968.13	32.69911687	-103.46982462
16,700.00	90.00	359.52	10,185.00	6,494.93	-1,152.41	619,251.42	806,967.29	32.69939172	-103.46982472
16,800.00	90.00	359.52	10,185.00	6,594.93	-1,153.25	619,351.41	806,966.45	32.69966657	-103.46982482
16,900.00	90.00	359.52	10,185.00	6,694.93	-1,154.10	619,451.41	806,965.60	32.69994142	-103.46982492

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,000.00	90.00	359.52	10,185.00	6,794.92	-1,154.94	619,551.41	806,964.76	32.70021626	-103.46982502
17,100.00	90.00	359.52	10,185.00	6,894.92	-1,155.79	619,651.40	806,963.91	32.70049111	-103.46982512
17,200.00	90.00	359.52	10,185.00	6,994.92	-1,156.63	619,751.40	806,963.07	32.70076596	-103.46982522
17,300.00	90.00	359.52	10,185.00	7,094.91	-1,157.48	619,851.40	806,962.22	32.70104081	-103.46982532
17,400.00	90.00	359.52	10,185.00	7,194.91	-1,158.32	619,951.39	806,961.38	32.70131566	-103.46982541
17,500.00	90.00	359.52	10,185.00	7,294.91	-1,159.17	620,051.39	806,960.53	32.70159050	-103.46982551
17,600.00	90.00	359.52	10,185.00	7,394.90	-1,160.01	620,151.39	806,959.69	32.70186535	-103.46982561
17,700.00	90.00	359.52	10,185.00	7,494.90	-1,160.86	620,251.38	806,958.84	32.70214020	-103.46982571
17,800.00	90.00	359.52	10,185.00	7,594.90	-1,161.70	620,351.38	806,958.00	32.70241505	-103.46982581
17,900.00	90.00	359.52	10,185.00	7,694.89	-1,162.55	620,451.38	806,957.15	32.70268989	-103.46982591
18,000.00	90.00	359.52	10,185.00	7,794.89	-1,163.39	620,551.37	806,956.31	32.70296474	-103.46982601
18,100.00	90.00	359.52	10,185.00	7,894.88	-1,164.24	620,651.37	806,955.46	32.70323959	-103.46982611
18,200.00	90.00	359.52	10,185.00	7,994.88	-1,165.08	620,751.36	806,954.62	32.70351444	-103.46982621
18,300.00	90.00	359.52	10,185.00	8,094.88	-1,165.92	620,851.36	806,953.77	32.70378928	-103.46982631
18,400.00	90.00	359.52	10,185.00	8,194.87	-1,166.77	620,951.36	806,952.93	32.70406413	-103.46982641
18,500.00	90.00	359.52	10,185.00	8,294.87	-1,167.61	621,051.35	806,952.08	32.70433898	-103.46982651
18,600.00	90.00	359.52	10,185.00	8,394.87	-1,168.46	621,151.35	806,951.24	32.70461383	-103.46982660
18,700.00	90.00	359.52	10,185.00	8,494.86	-1,169.30	621,251.35	806,950.39	32.70488867	-103.46982670
18,800.00	90.00	359.52	10,185.00	8,594.86	-1,170.15	621,351.34	806,949.55	32.70516352	-103.46982680
18,900.00	90.00	359.52	10,185.00	8,694.86	-1,170.99	621,451.34	806,948.70	32.70543837	-103.46982690
19,000.00	90.00	359.52	10,185.00	8,794.85	-1,171.84	621,551.34	806,947.86	32.70571322	-103.46982700
19,100.00	90.00	359.52	10,185.00	8,894.85	-1,172.68	621,651.33	806,947.01	32.70598806	-103.46982710
19,200.00	90.00	359.52	10,185.00	8,994.85	-1,173.53	621,751.33	806,946.17	32.70626291	-103.46982720
19,300.00	90.00	359.52	10,185.00	9,094.84	-1,174.37	621,851.33	806,945.33	32.70653776	-103.46982730
19,400.00	90.00	359.52	10,185.00	9,194.84	-1,175.22	621,951.32	806,944.48	32.70681261	-103.46982740
19,500.00	90.00	359.52	10,185.00	9,294.83	-1,176.06	622,051.32	806,943.64	32.70708745	-103.46982750
19,600.00	90.00	359.52	10,185.00	9,394.83	-1,176.91	622,151.32	806,942.79	32.70736230	-103.46982759
19,700.00	90.00	359.52	10,185.00	9,494.83	-1,177.75	622,251.31	806,941.95	32.70763715	-103.46982769
19,800.00	90.00	359.52	10,185.00	9,594.82	-1,178.60	622,351.31	806,941.10	32.70791199	-103.46982779
19,900.00	90.00	359.52	10,185.00	9,694.82	-1,179.44	622,451.30	806,940.26	32.70818684	-103.46982789
20,000.00	90.00	359.52	10,185.00	9,794.82	-1,180.29	622,551.30	806,939.41	32.70846169	-103.46982799
20,100.00	90.00	359.52	10,185.00	9,894.81	-1,181.13	622,651.30	806,938.57	32.70873654	-103.46982809
20,200.00	90.00	359.52	10,185.00	9,994.81	-1,181.98	622,751.29	806,937.72	32.70901138	-103.46982819
20,300.00	90.00	359.52	10,185.00	10,094.81	-1,182.82	622,851.29	806,936.88	32.70928623	-103.46982829
20,400.00	90.00	359.52	10,185.00	10,194.80	-1,183.67	622,951.29	806,936.03	32.70956108	-103.46982838
20,500.00	90.00	359.52	10,185.00	10,294.80	-1,184.51	623,051.28	806,935.19	32.70983593	-103.46982848
20,600.00	90.00	359.52	10,185.00	10,394.80	-1,185.36	623,151.28	806,934.34	32.71011077	-103.46982858
20,700.00	90.00	359.52	10,185.00	10,494.79	-1,186.20	623,251.28	806,933.50	32.71038562	-103.46982868
20,800.00	90.00	359.52	10,185.00	10,594.79	-1,187.05	623,351.27	806,932.65	32.71066047	-103.46982878
20,900.00	90.00	359.52	10,185.00	10,694.78	-1,187.89	623,451.27	806,931.81	32.71093531	-103.46982888
20,968.67	90.00	359.52	10,185.00	10,763.45	-1,188.47	623,519.93	806,931.23	32.71112405	-103.46982895
TD: 20968.67' MD/ 10773.03' VS/10185.00' TVD - 02-PBHL(APSC-501H)									

FRANKLIN MOUNTAIN ENERGY™

Planning Report - Geographic

Database:	TZ USA 17.2	**Local Co-ordinate Reference:**	Well (WA01) Alpha State Com 501H - Slot (WA01)
Company:	Franklin Mountain Energy LLC	**TVD Reference:**	3857+30 @ 3887.00usft
Project:	PV_Lea County, NM(N83-NME3001)	**MD Reference:**	3857+30 @ 3887.00usft
Site:	Alpha_Cable West	**North Reference:**	Grid
Well:	(WA01) Alpha State Com 501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	501H		
Design:	APD-Rev01		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
02-PBHL(APSC-501H) - plan hits target center - Point	0.00	0.00	10,185.00	10,763.45	-1,188.47	623,519.93	806,931.23	32.71112405	-103.46982895
01-T98(APSC-501H) - plan misses target center by 34.02usft at 10622.90usft MD (10185.00 TVD, 420.01 N, -1067.96 E) - Point	0.00	0.00	10,185.00	414.99	-1,101.61	613,171.47	807,018.09	32.68268053	-103.46982047

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
30.00	30.00	Cenozoic Alluvium (surface)			
1,839.00	1,839.00	Rustler			
2,071.00	2,071.00	Salado			
3,261.58	3,246.00	Base Salt			
3,437.30	3,418.00	Yates			
3,918.46	3,889.00	Seven Rivers			
4,676.48	4,631.00	Queen			
6,196.60	6,119.00	Delaware Mtn Group			
7,856.10	7,760.00	Bone Spring Lime			
9,476.10	9,380.00	First Bone Spring Sand			
9,707.10	9,611.00	Second Bone Spring Carbonate			
9,983.59	9,877.00	Second Bone Spring Sand			
10,608.14	10,185.00	HZ Target			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
9,708.14	9,612.04	-159.65	-971.00	KOP: 9708.14' MD/ -151.51' VS/9612.04' TVD
10,608.14	10,185.00	405.45	-1,065.57	EOC: 10608.14' MD/ 414.36' VS/10185.00' TVD
10,617.23	10,185.00	414.42	-1,067.05	100FLL: 10617.23' MD/ 423.34' VS/10185.00' TVD
20,968.67	10,185.00	10,763.45	-1,188.47	TD: 20968.67' MD/ 10773.03' VS/10185.00' TVD