<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

Form C-101 August 1, 2011

Permit 367971

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD	A ZONE
I. Operator Name and Address	2. OGRID Number
Franklin Marrie Francis C. I. C.	004505

1. Operator Name and Address		2. OGRID Number
Franklin Mountain Energy 3, LLC		331595
44 Cook Street	3. API Number	
Denver, CO 80206		30-025-53166
4. Property Code	5. Property Name	6. Well No.
334693	ALPHA STATE COM	601H

7 Surface Location

UL - Lot		Section	Township Range		Lot Idn Feet From		N/S Line Feet From		E/W Line County	
	С	9	19S	35E	С	320	N	1546	W	Lea

8. Proposed Bottom Hole Location

I	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	800	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	3858
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date
N	21138	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	1894	1453	0
Int1	12.25	9.625	40	4155	877	0
Prod	8.75	7	32	9883	471	3155
Prod	8.75	5.5	20	21138	2809	9883

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	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				OIL CONSERVATIO	ON DIVISION
Signature:					
Printed Name:	Electronically filed by Rachael A	Overbey	Approved By:	Paul F Kautz	
Title:	Project Manager			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		

S89°31'38"W - 5309.22' (Meas.)

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

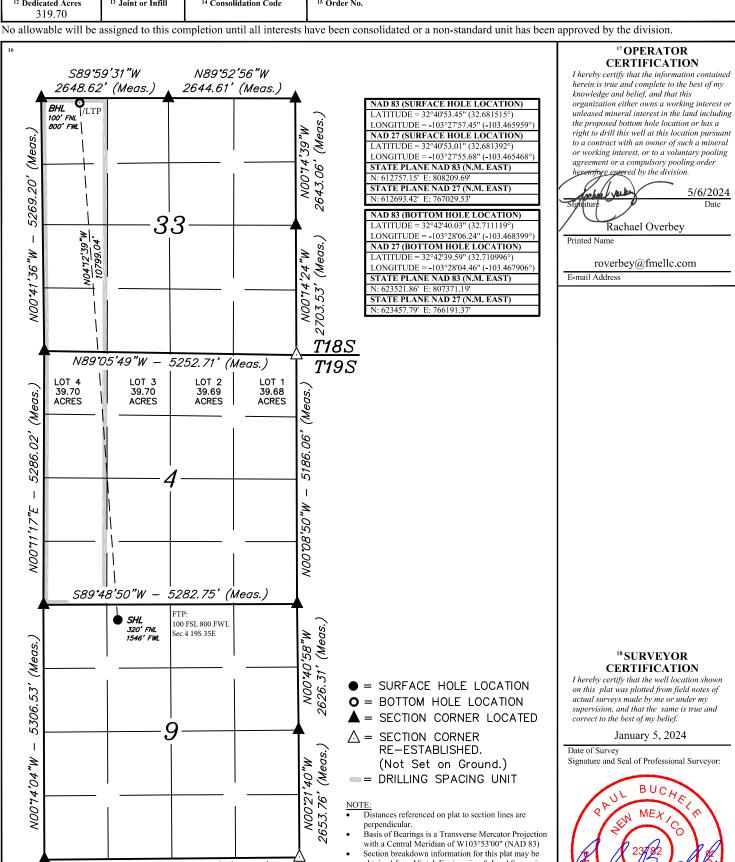
¹ API Number		² Pool Code							
		55610	G						
4 Property Code		5 Pr	6 Well Number						
	ALPHA STATE COM 601H								
7 OGRID No.		8 O _I	⁹ Elevation						
331595		FRANKLIN MOU	3,858.2'						

10 Surface Location

UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the C 9 19S 35E 35E 320 NORTH 1546 WEST	County LEA
---	---------------

"Bottom Hole Location If Different From Surface

UL or lot no. D	Sect 33	3	Township 18S	Range 35E	Lot Idn	F	eet from the 100	North/South line NORTH	Feet from the 800	East/West line WEST	County LEA
12 Dedicated Acre 319.70	es	¹³ Jo	oint or Infill	14 Conso	olidation Code		¹⁵ Order No.				





Released to Imaging: 7/8/2024 11:10:25 AM

Certificate Number:

- obtained from Uintah Engineering & Land Surveying.
- 000

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

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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 367971

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Franklin Mountain Energy 3, LLC [331595]	30-025-53166
44 Cook Street	Well:
Denver, CO 80206	ALPHA STATE COM #601H

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



Alpha State Com 601H

- 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	2,043'	1,844'			Carbonates
Salado	1,794'	2,093'			Salt, Carbonate & Clastics
Base Salt	631'	3,256'			Shaley Carbonate & Shale
Yates	408'	3,478'			Anhydrite/Shale
Seven Rivers	-56'	3,943'			Interbedded Shale/Carbonate
Queen	-742'	4,628'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2,298'	6,184'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3,887'	7,773'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,501'	9,388'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,729'	9,615'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6,009'	9,896'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,373'	10,260'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	- <mark>6,472</mark> '	10,359'			Sandstone - oil/gas/water
HZ Target	-6,533'	10,420'			Sandstone - oil/gas/water
Wolfcamp	-6,625'	10,512'			Overpressure Shale/Sand- oil/gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,184'	Oil
1st Bone Spring Sand	9,388'	Oil
2 nd Bone Spring Carb	9,615'	Oil
2 nd Bone Spring Sand	9,896'	Oil
3 rd Bone Spring Sand	10,359'	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 1,894' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new.

Cooling string	Moiabe	Grade	Burst	Callanca	Tension	Conn	Length	API design factor			
Casing string	Weight	Grade	Durst	Collapse	rension	Com	Length	Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,894	1.02	1.15	4.20	4.47
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,155	2.03	2.18	3.44	3.91
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9,883	1.88	2.33	2.46	2.53
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	11,255 10,420	1.15	2.32	1.97	2.05 2.16



Tapered production string will be ran with a X-over installed at the KOP of 9,883'.

Cementing Program:

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

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

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

String	Hole	Cas	ing		Lea	d			Tail					
Туре	Size	Size	Setting Depth	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Yield ft3/sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1,894	1012	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	1,494	100%
Int1	12.25	9.625	4,155	676	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	3,755	100%
Prod	8.75	7	9,883	471	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3,155						100%
Prod	8.75	5.5	21,138						2809	HSLD 80, 13.ppg, 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9,883	50%

5. Minimum Specifications for Pressure Control:

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

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

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

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



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

6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,894'	Fresh - Gel	8.6-8.8	28-34	N/c
1,894' – 4,155'	Brine	8.8- 10.2	28-34	N/c
4,155" – 10,783'	Brine	8.8- 10.2	28-34	N/c
10,783' – 21,138' 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 10,420' TVD (deepest point of the well) is 185F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,960' psig (based on 11 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

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



- iii. Mud/gas separator
- b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 - 1. Rescue packs (SCBA) 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
 - 3. Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.
 - ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - The Mud program will be designed to minimize the volume of H2S circulated to surface.
 The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

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



11. Anticipated starting date and duration of operations:

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

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

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

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

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

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 $\frac{1}{2}$ " 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 I	Energy 3, LLC	OG	RID:331595	5	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 to be recompleted from a s					f wells proposed	to be drilled or proposed				
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D				
See Attached Well List										
IV. Central Delivery Poir NMAC] V. Anticipated Schedule or proposed to be recomple Well Name	: Provide the	e following informa	ation for each ne	w or recompleted	well or set of wel t.	ls proposed to be drilled				
		•	Date	Commencement	Date Back I	Date 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 <u>EFFECTIVE APRIL 1, 2022</u>

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \(\times \) 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 gathe	ering system	\square will \square] will no	t have ca	pacity to	gather	100%	of the	anticipated	natural	gas
produ	ection	volume fi	rom the well	prior to th	he date of fir	st product	ion.								

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

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ш		uuu		morator	OU	ıanı v	o manage	DIOGU	CHOIL	11111	COLOUISC	w	uic .	mercaseu		.110	DICOOU	

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMS	SA 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 f	full description of the specific information
for which confidentiality is asserted and the basis for such assertion.	

(i)

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🖂 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. \square Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) power generation for grid; (b) (c) compression on lease; (d) liquids removal on lease; (e) reinjection for underground storage; **(f)** reinjection for temporary storage; reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

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

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

Signature:
Printed Name: Pachael 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.

				Anticipated Oil	Anticipated	Anticipated Produced
Well Name	API 14 Digit	ULSTR	Surface Location FTG	BBL/D	Gas MCF/D	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

				Completion	Initial	
		Spud Date		Commencement	Flowback	
Well Name	API 14 Digit	(Batch Drilling)	TD Reached Date	Date	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



Natural Gas Management Plan Items VI-VIII

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

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

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

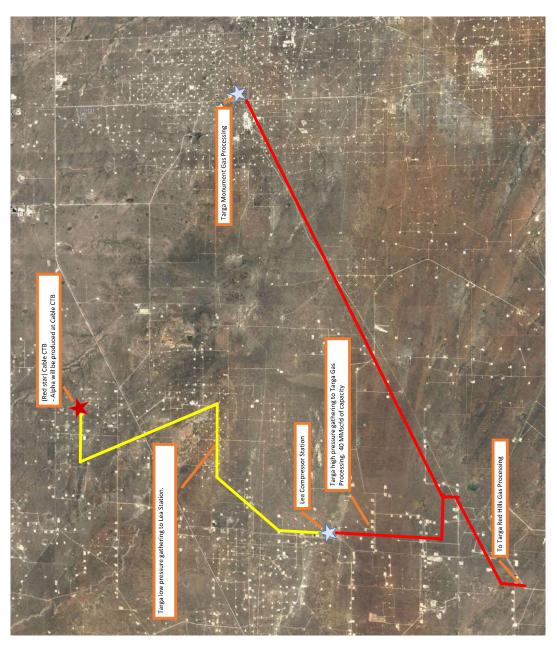
- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- Drilling Operations:
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 -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



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

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

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



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



Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001) Alpha_Cable West (WA04) Alpha State Com 601H - Slot (WA04)

601H

Plan: APD-Rev01

Standard Planning Report - Geographic

22 March, 2024



TZ USA 17.2 Database:

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

601H Wellbore: APD-Rev01 Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

0.00

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Minimum Curvature

Project PV_Lea County, NM(N83-NME3001)

Map System: US State Plane 1983 North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

Site Alpha_Cable West

Site Position: Northing: 612,756.93 usft Latitude: 32.68151517 From: Easting: 808,179.69 usft Longitude: -103.46605645 Мар

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

Well (WA04) Alpha State Com 601H - Slot (WA04)

0.00 usft 32.68151510 **Well Position** +N/-S Northing: 612,757.15 usft Latitude: +E/-W 0.00 usft -103.46595894 Easting: 808,209.69 usft Longitude:

Position Uncertainty 0.00 usft Wellhead Elevation: Ground Level: 3,857.00 usft

0.47° **Grid Convergence:**

601H Wellbore

Version:

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 3/17/2024 6.21 60.24 47,483.67704437

APD-Rev01 Design **Audit Notes:** PLAN

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

(usft) (usft) (usft) (°) 0.00 0.00 0.00 359.52

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

Depth From Depth To

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

Phase:

0.00 21,138.49 APD-Rev01 (601H) MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-S



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

lan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,426.24	6.39	256.45	2,425.36	-5.56	-23.10	1.50	1.50	0.00	256.45	
7,896.87	6.39	256.45	7,861.96	-148.25	-615.35	0.00	0.00	0.00	0.00	
8,536.24	0.00	0.00	8,500.00	-156.60	-650.00	1.00	-1.00	0.00	180.00	
9,883.28	0.00	0.00	9,847.04	-156.60	-650.00	0.00	0.00	0.00	0.00	
10,783.28	90.00	352.20	10,420.00	411.06	-727.76	10.00	10.00	0.00	352.20	
11,149.09	90.00	359.52	10,420.00	775.67	-754.16	2.00	0.00	2.00	90.00	
21,138.49	90.00	359.52	10,420.00	10,764.71	-838.50	0.00	0.00	0.00	0.00	02-PBHL(APSC-601F



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Design:		APD-								
Planned Si	urvey									
Measu Dept (usft	h II	nclination (°)	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	612,757.15	808,209.69	32.68151510	-103.46595894
3	30.00	0.00	0.00	30.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
		Alluvium (su	•							
	00.00	0.00	0.00	100.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	200.00	0.00	0.00	612,757.15	808,209.69	32.68151510 32.68151510	-103.46595894
	00.00	0.00 0.00	0.00 0.00	300.00 400.00	0.00 0.00	0.00 0.00	612,757.15 612,757.15	808,209.69 808,209.69	32.68151510	-103.46595894 -103.46595894
	00.00	0.00	0.00	500.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	600.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	700.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
80	00.00	0.00	0.00	800.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
90	00.00	0.00	0.00	900.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,000.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,100.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,200.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,300.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,400.00	0.00	0.00	612,757.15	808,209.69 808,209.69	32.68151510	-103.46595894
	00.00	0.00 0.00	0.00 0.00	1,500.00 1,600.00	0.00 0.00	0.00 0.00	612,757.15 612,757.15	808,209.69	32.68151510 32.68151510	-103.46595894 -103.46595894
	00.00	0.00	0.00	1,700.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	00.00	0.00	0.00	1,800.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	14.00	0.00	0.00	1,844.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
	stler									
1,90	00.00	0.00	0.00	1,900.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
2,00	00.00	0.00	0.00	2,000.00	0.00	0.00	612,757.15	808,209.69	32.68151510	-103.46595894
2,09	93.01	1.40	256.45	2,093.00	-0.27	-1.10	612,756.89	808,208.59	32.68151440	-103.46596253
	ado									
	00.00	1.50	256.45	2,099.99	-0.31	-1.27	612,756.85	808,208.42	32.68151429	-103.46596309
	00.00	3.00	256.45	2,199.91	-1.23	-5.09	612,755.93	808,204.60	32.68151185	-103.46597552
	00.00	4.50	256.45	2,299.69	-2.76	-11.45	612,754.40	808,198.24	32.68150778	-103.46599622
	00.00	6.00	256.45	2,399.27	-4.90 5.56	-20.34 -23.10	612,752.25	808,189.35	32.68150209	-103.46602519
	26.24 00.00	6.39 6.39	256.45 256.45	2,425.36 2,498.66	-5.56 -7.49	-23.10 -31.08	612,751.59 612,749.67	808,186.59 808,178.61	32.68150033 32.68149522	-103.46603415 -103.46606015
	00.00	6.39	256.45	2,598.04	-10.10	-41.91	612,747.06	808,167.78	32.68148829	-103.46609541
	00.00	6.39	256.45	2,697.41	-12.70	-52.73	612,744.45	808,156.95	32.68148137	-103.46613066
	00.00	6.39	256.45	2,796.79	-15.31	-63.56	612,741.84	808,146.13	32.68147444	-103.46616591
	00.00	6.39	256.45	2,896.17	-17.92	-74.39	612,739.23	808,135.30	32.68146752	-103.46620116
3,00	00.00	6.39	256.45	2,995.55	-20.53	-85.21	612,736.62	808,124.48	32.68146059	-103.46623642
3,10	00.00	6.39	256.45	3,094.93	-23.14	-96.04	612,734.02	808,113.65	32.68145367	-103.46627167
	00.00	6.39	256.45	3,194.30	-25.75	-106.86	612,731.41	808,102.82	32.68144674	-103.46630692
3,26	52.08	6.39	256.45	3,256.00	-27.37	-113.59	612,729.79	808,096.10	32.68144244	-103.46632881
	se Salt									
	00.00	6.39	256.45	3,293.68	-28.35	-117.69	612,728.80	808,092.00	32.68143982	-103.46634217
	00.00	6.39	256.45	3,393.06	-30.96	-128.52	612,726.19	808,081.17 808,071.92	32.68143289	-103.46637743 -103.46640756
	35.47	6.39	256.45	3,478.00	-33.19	-137.77	612,723.96	000,07 1.92	32.68142697	-103.40040736
Yat	es 00.00	6.39	256.45	3,492.44	-33.57	-139.34	612,723.58	808,070.34	32.68142596	-103.46641268
	00.00	6.39	256.45	3,591.82	-36.18	-159.54	612,720.97	808,059.52	32.68141904	-103.46644793
	00.00	6.39	256.45	3,691.19	-38.79	-161.00	612,718.37	808,048.69	32.68141211	-103.46648318
	00.00	6.39	256.45	3,790.57	-41.40	-171.82	612,715.76	808,037.87	32.68140519	-103.46651843
	00.00	6.39	256.45	3,889.95	-44.00	-182.65	612,713.15	808,027.04	32.68139826	-103.46655369
3,95	53.38	6.39	256.45	3,943.00	-45.40	-188.43	612,711.76	808,021.26	32.68139457	-103.46657251
Sev	en Rive	ers								



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Design:	APD-	Rev01							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,000.00	6.39	256.45	3,989.33	-46.61	-193.47	612,710.54	808,016.21	32.68139134	-103.46658894
4,100.00	6.39	256.45	4,088.71	-49.22	-204.30	612,707.93	808,005.39	32.68138441	-103.46662419
4,200.00	6.39	256.45	4,188.08	-51.83	-215.13	612,705.32	807,994.56	32.68137749	-103.46665944
4,300.00	6.39	256.45	4,287.46	-54.44	-225.95	612,702.72	807,983.74	32.68137056	-103.46669470
4,400.00	6.39	256.45	4,386.84	-57.05	-236.78	612,700.11	807,972.91	32.68136364	-103.46672995
4,500.00	6.39	256.45	4,486.22	-59.65	-247.60	612,697.50	807,962.08	32.68135671	-103.46676520
4,600.00	6.39	256.45	4,585.60	-62.26	-258.43	612,694.89	807,951.26	32.68134978	-103.46680045
4,642.67	6.39	256.45	4,628.00	-63.37	-263.05	612,693.78	807,946.64	32.68134683	-103.46681549
Queen									
4,700.00	6.39	256.45	4,684.97	-64.87	-269.26	612,692.28	807,940.43	32.68134286	-103.46683571
4,800.00	6.39	256.45	4,784.35	-67.48	-280.08	612,689.68	807,929.60	32.68133593	-103.46687096
4,900.00	6.39	256.45	4,883.73	-70.09	-290.91	612,687.07	807,918.78	32.68132901	-103.46690621
5,000.00	6.39	256.45	4,983.11	-72.70	-301.74	612,684.46	807,907.95	32.68132208	-103.46694146
5,100.00	6.39	256.45	5,082.49	-75.30	-312.56	612,681.85	807,897.13	32.68131516	-103.46697671
5,200.00	6.39	256.45	5,181.86	-77.91	-323.39	612,679.24	807,886.30	32.68130823	-103.46701197
5,300.00	6.39	256.45	5,281.24	-80.52	-334.21	612,676.63	807,875.47	32.68130131	-103.46704722
5,400.00	6.39	256.45	5,380.62	-83.13	-345.04	612,674.03	807,864.65	32.68129438	-103.46708247
5,500.00	6.39	256.45	5,480.00	-85.74	-355.87	612,671.42	807,853.82	32.68128745	-103.46711772
5,600.00	6.39	256.45	5,579.38	-88.34	-366.69	612,668.81	807,843.00	32.68128053	-103.46715298
5,700.00	6.39	256.45	5,678.75	-90.95	-377.52	612,666.20	807,832.17	32.68127360	-103.46718823
5,800.00	6.39	256.45	5,778.13	-93.56	-388.34	612,663.59	807,821.34	32.68126668	-103.46722348
5,900.00	6.39	256.45	5,877.51	-96.17	-399.17	612,660.98	807,810.52	32.68125975	-103.46725873
6,000.00	6.39	256.45	5,976.89	-98.78	-410.00	612,658.38	807,799.69	32.68125283	-103.46729398
6,100.00	6.39	256.45	6,076.27	-101.39	-420.82	612,655.77	807,788.87	32.68124590	-103.46732924
6,200.00	6.39	256.45	6,175.64	-103.99	-431.65	612,653.16	807,778.04	32.68123897	-103.46736449
6,208.41	6.39	256.45	6,184.00	-104.21	-432.56	612,652.94	807,777.13	32.68123839	-103.46736745
Delaware	Mtn Group								
6,300.00	6.39	256.45	6,275.02	-106.60	-442.48	612,650.55	807,767.21	32.68123205	-103.46739974
6,400.00	6.39	256.45	6,374.40	-109.21	-453.30	612,647.94	807,756.39	32.68122512	-103.46743499
6,500.00	6.39	256.45	6,473.78	-111.82	-464.13	612,645.33	807,745.56	32.68121820	-103.46747025
6,600.00	6.39	256.45	6,573.16	-114.43	-474.95	612,642.73	807,734.73	32.68121127	-103.46750550
6,700.00	6.39	256.45	6,672.53	-117.04	-485.78	612,640.12	807,723.91	32.68120435	-103.46754075
6,800.00	6.39	256.45	6,771.91	-119.64	-496.61	612,637.51	807,713.08	32.68119742	-103.46757600
6,900.00	6.39	256.45	6,871.29	-122.25	-507.43	612,634.90	807,702.26	32.68119049	-103.46761125
7,000.00	6.39	256.45	6,970.67	-124.86	-518.26	612,632.29	807,691.43	32.68118357	-103.46764651
7,100.00	6.39	256.45	7,070.05	-127.47	-529.08	612,629.69	807,680.60	32.68117664	-103.46768176
7,200.00	6.39	256.45	7,169.42	-130.08	-539.91	612,627.08	807,669.78	32.68116972	-103.46771701
7,300.00	6.39	256.45	7,268.80	-132.69	-550.74	612,624.47	807,658.95	32.68116279	-103.46775226
7,400.00	6.39	256.45	7,368.18	-135.29	-561.56	612,621.86	807,648.13	32.68115587	-103.46778751
7,500.00	6.39	256.45	7,467.56	-137.90	-572.39	612,619.25	807,637.30	32.68114894	-103.46782277
7,600.00	6.39	256.45	7,566.94	-140.51	-583.22	612,616.64	807,626.47	32.68114201	-103.46785802
7,700.00	6.39	256.45	7,666.31	-143.12	-594.04	612,614.04	807,615.65	32.68113509	-103.46789327
7,800.00	6.39	256.45	7,765.69	-145.73	-604.87	612,611.43	807,604.82	32.68112816	-103.46792852
7,807.35	6.39	256.45	7,773.00	-145.92	-605.66	612,611.24	807,604.02	32.68112765	-103.46793112
_	ring Lime	050.45	7.004.00	1 10 05	045.05	040.000.00	007.504.00	00.00440445	400 4070007
7,896.87	6.39	256.45	7,861.96	-148.25	-615.35	612,608.90	807,594.33	32.68112145	-103.46796267
7,900.00	6.36	256.45	7,865.07	-148.33	-615.69	612,608.82	807,594.00	32.68112124	-103.46796377
8,000.00	5.36	256.45	7,964.55	-150.73	-625.62	612,606.43	807,584.07	32.68111488	-103.46799611
8,100.00	4.36	256.45	8,064.19	-152.71	-633.86	612,604.44	807,575.83	32.68110961	-103.46802294
8,200.00	3.36	256.45	8,163.96	-154.29	-640.41	612,602.86	807,569.28	32.68110542	-103.46804426
8,300.00	2.36	256.45	8,263.83	-155.46	-645.27	612,601.69	807,564.42	32.68110232	-103.46806007
8,400.00	1.36	256.45	8,363.78	-156.22	-648.43	612,600.93	807,561.26	32.68110030	-103.46807036
8,500.00	0.36	256.45	8,463.76	-156.57	-649.89	612,600.58	807,559.80	32.68109936	-103.46807512



Database: TZ USA 17.2

Company: Franklin Mountain Energy LLC

Project: PV_Lea County, NM(N83-NME3001)

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Design.	5	116101							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,536.24	0.00	0.00	8,500.00	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
8,600.00	0.00	0.00	8,563.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
8,700.00	0.00	0.00	8,663.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
8,800.00	0.00	0.00	8,763.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
8,900.00	0.00	0.00	8,863.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,000.00	0.00	0.00	8,963.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,100.00	0.00	0.00	9,063.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,200.00	0.00	0.00	9,163.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,300.00	0.00	0.00	9,263.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,400.00	0.00	0.00	9,363.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,424.24	0.00	0.00	9,388.00	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
	ne Spring San	nd	•			•	•		
9,500.00	0.00	0.00	9,463.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,600.00	0.00	0.00	9,563.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,651.24	0.00	0.00	9,615.00	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
	Bone Spring (.,.			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
9,700.00	0.00	0.00	9,663.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,800.00	0.00	0.00	9,763.76	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
9,883.28	0.00	0.00	9,847.04	-156.60	-650.00	612,600.55	807,559.69	32.68109929	-103.46807548
	83.28' MD/ -15	1.15' VS/9847				•	,		
9,900.00	1.67	352.20	9,863.76	-156.36	-650.03	612,600.80	807,559.65	32.68109995	-103.46807558
9,932.30	4.90	352.20	9,896.00	-154.52	-650.28	612,602.63	807,559.40	32.68110500	-103.46807635
	Bone Spring S		.,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
9,950.00	6.67	352.20	9,913.61	-152.76	-650.53	612,604.40	807,559.16	32.68110987	-103.46807709
10,000.00	11.67	352.20	9,962.96	-144.86	-651.61	612,612.29	807,558.08	32.68113159	-103.46808040
10,050.00	16.67	352.20	10,011.42	-132.74	-653.27	612,624.42	807,556.42	32.68116495	-103.46808547
10,100.00	21.67	352.20	10,058.63	-116.47	-655.50	612,640.68	807,554.19	32.68120970	-103.46809228
10,150.00	26.67	352.20	10,104.23	-96.19	-658.27	612,660.96	807,551.41	32.68126549	-103.46810077
10,200.00	31.67	352.20	10,147.88	-72.06	-661.58	612,685.10	807,548.11	32.68133191	-103.46811088
10,250.00	36.67	352.20	10,189.23	-44.24	-665.39	612,712.91	807,544.30	32.68140844	-103.46812253
10,300.00	41.67	352.20	10,227.98	-12.96	-669.68	612,744.19	807,540.01	32.68149451	-103.46813562
10,344.44	46.12	352.20	10,260.00	17.56	-673.86	612,774.71	807,535.83	32.68157849	-103.46814840
Third Bo	ne Spring Ca	rbonate							
10,350.00	46.67	352.20	10,263.83	21.55	-674.40	612,778.70	807,535.28	32.68158946	-103.46815007
10,400.00	51.67	352.20	10,296.51	59.02	-679.54	612,816.17	807,530.15	32.68169256	-103.46816576
10,450.00	56.67	352.20	10,325.77	99.17	-685.04	612,856.33	807,524.65	32.68180303	-103.46818257
10,500.00	61.67	352.20	10,351.39	141.70	-690.86	612,898.85	807,518.83	32.68192004	-103.46820037
10,516.49	63.32	352.20	10,359.00	156.19	-692.85	612,913.34	807,516.84	32.68195991	-103.46820644
Third Bo	ne Spring Sa	nd							
10,550.00	66.67	352.20	10,373.16	186.27	-696.97	612,943.43	807,512.72	32.68204269	-103.46821903
10,600.00	71.67	352.20	10,390.93	232.56	-703.31	612,989.71	807,506.38	32.68217004	-103.46823841
10,650.00	76.67	352.20	10,404.57	280.20	-709.83	613,037.35	807,499.85	32.68230113	-103.46825836
10,700.00	81.67	352.20	10,413.96	328.84	-716.50	613,085.99	807,493.19	32.68243496	-103.46827872
10,750.00	86.67	352.20	10,419.03	378.11	-723.25	613,135.26	807,486.44	32.68257052	-103.46829935
10,783.28	90.00	352.20	10,420.00	411.06	-727.76	613,168.21	807,481.93	32.68266118	-103.46831315
EOC: 10	783.28' MD/ 4 ⁻	17.14' VS/104	20.00' TVD - HZ	Z Target					
10,789.85	90.00	352.33	10,420.00	417.57	-728.64	613,174.72	807,481.04	32.68267910	-103.46831585
100FLL:	10789.85' MD	/ 423.66' VS/1	10420.00' TVD						
10,792.92	90.00	352.39	10,420.00	420.61	-729.05	613,177.76	807,480.64	32.68268746	-103.46831709
	PSC-601H)								
10,800.00	90.00	352.53	10,420.00	427.63	-729.98	613,184.79	807,479.71	32.68270678	-103.46831993
10,900.00	90.00	354.53	10,420.00	526.99	-741.24	613,284.14	807,468.45	32.68298011	-103.46835389



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Design:	APD-	Rev01							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,000.00	90.00	356.53	10,420.00	626.68	-749.03	613,383.84	807,460.66	32.68325428	-103.46837655
11,100.00	90.00	358.53	10,420.00	726.58	-753.33	613,483.74	807,456.36	32.68352894	-103.46838788
11,149.09	90.00	359.52	10,420.00	775.67	-754.16	613,532.82	807,455.53	32.68366386	-103.46838929
11,200.00	90.00	359.52	10,420.00	826.58	-754.59	613,583.73	807,455.10	32.68380378	-103.46838934
11,300.00	90.00	359.52	10,420.00	926.57	-755.44	613,683.73	807,454.25	32.68407863	-103.46838944
11,400.00	90.00	359.52	10,420.00	1,026.57	-756.28	613,783.72	807,453.41	32.68435348	-103.46838953
11,500.00	90.00	359.52	10,420.00	1,126.56	-757.13	613,883.72	807,452.56	32.68462833	-103.46838963
11,600.00	90.00	359.52	10,420.00	1,226.56	-757.97	613,983.71	807,451.72	32.68490318	-103.46838972
11,700.00	90.00	359.52	10,420.00	1,326.56	-758.81	614,083.71	807,450.87	32.68517803	-103.46838981
11,800.00	90.00	359.52	10,420.00	1,426.55	-759.66	614,183.71	807,450.03	32.68545287	-103.46838991
11,900.00	90.00	359.52	10,420.00	1,526.55	-760.50	614,283.70	807,449.19	32.68572772	-103.46839000
12,000.00	90.00	359.52	10,420.00	1,626.55	-761.35	614,383.70	807,448.34	32.68600257	-103.46839010
12,100.00	90.00	359.52	10,420.00	1,726.54	-762.19	614,483.70	807,447.50	32.68627742	-103.46839019
12,200.00	90.00	359.52	10,420.00	1,826.54	-763.04	614,583.69	807,446.65	32.68655227	-103.46839029
12,300.00	90.00	359.52	10,420.00	1,926.54	-763.88	614,683.69	807,445.81	32.68682712	-103.46839038
12,400.00	90.00	359.52	10,420.00	2,026.53	-764.72	614,783.69	807,444.96	32.68710196	-103.46839047
12,500.00	90.00	359.52	10,420.00	2,126.53	-765.57	614,883.68	807,444.12	32.68737681	-103.46839057
12,600.00	90.00	359.52	10,420.00	2,226.53	-766.41	614,983.68	807,443.28	32.68765166	-103.46839066
12,700.00	90.00	359.52	10,420.00	2,326.52	-767.26	615,083.68	807,442.43	32.68792651	-103.46839076
12,800.00	90.00	359.52	10,420.00	2,426.52	-768.10	615,183.67	807,441.59	32.68820136	-103.46839085
12,900.00	90.00	359.52	10,420.00	2,526.51	-768.95	615,283.67	807,440.74	32.68847620	-103.46839094
13,000.00	90.00	359.52	10,420.00	2,626.51	-769.79	615,383.67	807,439.90	32.68875105	-103.46839104
13,100.00	90.00	359.52	10,420.00	2,726.51	-770.63	615,483.66	807,439.05	32.68902590	-103.46839113
13,200.00	90.00	359.52	10,420.00	2,826.50	-771.48	615,583.66	807,438.21	32.68930075	-103.46839123
13,300.00	90.00	359.52	10,420.00	2,926.50	-772.32	615,683.65	807,437.37	32.68957560	-103.46839132
13,400.00	90.00	359.52 359.52	10,420.00	3,026.50	-773.17 -774.01	615,783.65	807,436.52	32.68985044	-103.46839141
13,500.00	90.00 90.00	359.52	10,420.00	3,126.49	-774.01	615,883.65	807,435.68	32.69012529	-103.46839151
13,600.00 13,700.00	90.00	359.52	10,420.00 10,420.00	3,226.49 3,326.49	-774.85 -775.70	615,983.64 616,083.64	807,434.83 807,433.99	32.69040014 32.69067499	-103.46839160 -103.46839170
13,800.00	90.00	359.52	10,420.00	3,426.48	-776.54	616,183.64	807,433.14	32.69094984	-103.46839179
13,900.00	90.00	359.52	10,420.00	3,526.48	-777.39	616,283.63	807,432.30	32.69122468	-103.46839188
14,000.00	90.00	359.52	10,420.00	3,626.48	-778.23	616,383.63	807,431.46	32.69149953	-103.46839198
14,100.00	90.00	359.52	10,420.00	3,726.47	-779.08	616,483.63	807,430.61	32.69177438	-103.46839207
14,200.00	90.00	359.52	10,420.00	3,826.47	-779.92	616,583.62	807,429.77	32.69204923	-103.46839216
14,300.00	90.00	359.52	10,420.00	3,926.47	-780.76	616,683.62	807,428.92	32.69232408	-103.46839226
14,400.00	90.00	359.52	10,420.00	4,026.46	-781.61	616,783.62	807,428.08	32.69259892	-103.46839235
14,500.00	90.00	359.52	10,420.00	4,126.46	-782.45	616,883.61	807,427.23	32.69287377	-103.46839245
14,600.00	90.00	359.52	10,420.00	4,226.45	-783.30	616,983.61	807,426.39	32.69314862	-103.46839254
14,700.00	90.00	359.52	10,420.00	4,326.45	-784.14	617,083.60	807,425.55	32.69342347	-103.46839263
14,800.00	90.00	359.52	10,420.00	4,426.45	-784.99	617,183.60	807,424.70	32.69369832	-103.46839273
14,900.00	90.00	359.52	10,420.00	4,526.44	-785.83	617,283.60	807,423.86	32.69397316	-103.46839282
15,000.00	90.00	359.52	10,420.00	4,626.44	-786.67	617,383.59	807,423.01	32.69424801	-103.46839291
15,100.00	90.00	359.52	10,420.00	4,726.44	-787.52	617,483.59	807,422.17	32.69452286	-103.46839301
15,200.00	90.00	359.52	10,420.00	4,826.43	-788.36	617,583.59	807,421.32	32.69479771	-103.46839310
15,300.00	90.00	359.52	10,420.00	4,926.43	-789.21	617,683.58	807,420.48	32.69507255	-103.46839320
15,400.00	90.00	359.52	10,420.00	5,026.43	-790.05	617,783.58	807,419.64	32.69534740	-103.46839329
15,500.00	90.00	359.52	10,420.00	5,126.42	-790.90	617,883.58	807,418.79	32.69562225	-103.46839338
15,600.00	90.00	359.52	10,420.00	5,226.42	-791.74	617,983.57	807,417.95	32.69589710	-103.46839348
15,700.00	90.00	359.52	10,420.00	5,326.42	-792.58	618,083.57	807,417.10	32.69617195	-103.46839357
15,800.00	90.00	359.52	10,420.00	5,426.41	-793.43	618,183.57	807,416.26	32.69644679	-103.46839366
15,900.00	90.00	359.52	10,420.00	5,526.41	-794.27	618,283.56	807,415.41	32.69672164	-103.46839376
16,000.00	90.00	359.52	10,420.00	5,626.40	-795.12	618,383.56	807,414.57	32.69699649	-103.46839385
16,100.00	90.00	359.52	10,420.00	5,726.40	-795.96	618,483.55	807,413.73	32.69727134	-103.46839394
16,200.00	90.00	359.52	10,420.00	5,826.40	-796.81	618,583.55	807,412.88	32.69754618	-103.46839404



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,300.00	90.00	359.52	10,420.00	5,926.39	-797.65	618,683.55	807,412.04	32.69782103	-103.46839
16,400.00	90.00	359.52	10,420.00	6,026.39	-798.49	618,783.54	807,411.19	32.69809588	-103.46839
16,500.00	90.00	359.52	10,420.00	6,126.39	-799.34	618,883.54	807,410.35	32.69837073	-103.46839
16,600.00	90.00	359.52	10,420.00	6,226.38	-800.18	618,983.54	807,409.51	32.69864558	-103.46839
16,700.00	90.00	359.52	10,420.00	6,326.38	-801.03	619,083.53	807,408.66	32.69892042	-103.46839
16,800.00	90.00	359.52	10,420.00	6,426.38	-801.87	619,183.53	807,407.82	32.69919527	-103.46839
16,900.00	90.00	359.52	10,420.00	6,526.37	-802.72	619,283.53	807,406.97	32.69947012	-103.46839
17,000.00	90.00	359.52	10,420.00	6,626.37	-803.56	619,383.52	807,406.13	32.69974497	-103.46839
17,100.00	90.00	359.52	10,420.00	6,726.37	-804.40	619,483.52	807,405.28	32.70001981	-103.46839
17,200.00	90.00	359.52	10,420.00	6,826.36	-805.25	619,583.52	807,404.44	32.70029466	-103.46839
17,300.00	90.00	359.52	10,420.00	6,926.36	-806.09	619,683.51	807,403.60	32.70056951	-103.46839
17,400.00	90.00	359.52	10,420.00	7,026.35	-806.94	619,783.51	807,402.75	32.70084436	-103.4683
17,500.00	90.00	359.52	10,420.00	7,126.35	-807.78	619,883.50	807,401.91	32.70111920	-103.4683
17,600.00	90.00	359.52	10,420.00	7,226.35	-808.63	619,983.50	807,401.06	32.70139405	-103.4683
17,700.00	90.00	359.52	10,420.00	7,326.34	-809.47	620,083.50	807,400.22	32.70166890	-103.4683
17,800.00	90.00	359.52	10,420.00	7,426.34	-810.31	620,183.49	807,399.37	32.70194375	-103.4683
17,900.00	90.00	359.52	10,420.00	7,526.34	-811.16	620,283.49	807,398.53	32.70221859	-103.4683
18,000.00	90.00	359.52	10,420.00	7,626.33	-812.00	620,383.49	807,397.69	32.70249344	-103.4683
18,100.00	90.00	359.52	10,420.00	7,726.33	-812.85	620,483.48	807,396.84	32.70276829	-103.4683
18,200.00	90.00	359.52	10,420.00	7,826.33	-813.69	620,583.48	807,396.00	32.70304314	-103.4683
18,300.00	90.00	359.52	10,420.00	7,926.32	-814.54	620,683.48	807,395.15	32.70331798	-103.4683
18,400.00	90.00	359.52	10,420.00	8,026.32	-815.38	620,783.47	807,394.31	32.70359283	-103.4683
18,500.00	90.00	359.52	10,420.00	8,126.32	-816.22	620,883.47	807,393.46	32.70386768	-103.4683
18,600.00	90.00	359.52	10,420.00	8,226.31	-817.07	620,983.47	807,392.62	32.70414253	-103.4683
18,700.00	90.00	359.52	10,420.00	8,326.31	-817.91	621,083.46	807,391.78	32.70441737	-103.4683
18,800.00	90.00	359.52	10,420.00	8,426.30	-818.76	621,183.46	807,390.93	32.70469222	-103.4683
18,900.00	90.00	359.52	10,420.00	8,526.30	-819.60	621,283.45	807,390.09	32.70496707	-103.4683
19,000.00	90.00	359.52	10,420.00	8,626.30	-820.45	621,383.45	807,389.24	32.70524192	-103.4683
19,100.00	90.00	359.52	10,420.00	8,726.29	-821.29	621,483.45	807,388.40	32.70551676	-103.4683
19,200.00	90.00	359.52	10,420.00	8,826.29	-822.13	621,583.44	807,387.55	32.70579161	-103.4683
19,300.00	90.00	359.52	10,420.00	8,926.29	-822.98	621,683.44	807,386.71	32.70606646	-103.4683
19,400.00	90.00	359.52	10,420.00	9,026.28	-823.82	621,783.44	807,385.87	32.70634131	-103.4683
19,500.00	90.00	359.52	10,420.00	9,126.28	-824.67	621,883.43	807,385.02	32.70661615	-103.4683
19,600.00	90.00	359.52	10,420.00	9,226.28	-825.51	621,983.43	807,384.18	32.70689100	-103.4683
19,700.00	90.00	359.52	10,420.00	9,326.27	-826.36	622,083.43	807,383.33	32.70716585	-103.4683
19,800.00	90.00	359.52	10,420.00	9,426.27	-827.20	622,183.42	807,382.49	32.70744069	-103.4683
19,900.00	90.00	359.52	10,420.00	9,526.27	-828.04	622,283,42	807,381.64	32.70771554	-103.4683
20,000.00	90.00	359.52	10,420.00	9,626.26	-828.89	622,383.42	807,380.80	32.70799039	-103.4683
20,100.00	90.00	359.52	10,420.00	9,726.26	-829.73	622,483.41	807,379.96	32.70826524	-103.4683
20,200.00	90.00	359.52	10,420.00	9,826.25	-830.58	622,583.41	807,379.11	32.70854008	-103.4683
20,300.00	90.00	359.52	10,420.00	9,926.25	-831.42	622,683.41	807,378.27	32.70881493	-103.4683
20,400.00	90.00	359.52	10,420.00	10,026.25	-832.27	622,783.40	807,377.42	32.70908978	-103.4683
20,500.00	90.00	359.52	10,420.00	10,126.24	-833.11	622,883.40	807,376.58	32.70936462	-103.4683
20,600.00	90.00	359.52	10,420.00	10,226.24	-833.95	622,983.39	807,375.73	32.70963947	-103.4683
20,700.00	90.00	359.52	10,420.00	10,326.24	-834.80	623,083.39	807,374.89	32.70991432	-103.4683
20,800.00	90.00	359.52	10,420.00	10,426.23	-835.64	623,183.39	807,374.05	32.71018917	-103.4683
20,900.00	90.00	359.52	10,420.00	10,526.23	-836.49	623,283.38	807,373.20	32.71046401	-103.4683
21,000.00	90.00	359.52	10,420.00	10,626.23	-837.33	623,383.38	807,372.36	32.71073886	-103.4683
21,100.00	90.00	359.52	10,420.00	10,726.22	-838.18	623,483.38	807,371.51	32.71101371	-103.4683
21,138.49	90.00	359.52	10,420.00	10,764.71	-838.50	623,521.86	807,371.19	32.71111949	-103.46839
			120.00' TVD - 0			323,021.00	55.,57 1.10	J 1111010	. 55. 1566



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA04) Alpha State Com 601H

Wellbore: 601H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well (WA04) Alpha State Com 601H - Slot

(WA04)

3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

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-601H) - plan hits target cent - Point	0.00 er	0.00	10,420.00	10,764.71	-838.50	623,521.86	807,371.19	32.71111949	-103.46839863
01-T98(APSC-601H) - plan misses target c - Point	0.00 enter by 22.7	0.00 5usft at 107	10,420.00 792.91usft Ml	417.61 D (10420.00 T	-751.60 VD, 420.61 N	613,174.77 -729.05 E)	807,458.09	32.68267973	-103.46839045

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name Lithology		Dip (°)	Dip Direction (°)
	30.00	30.00	Cenozoic Alluvium (surface)			
	1,844.00	1,844.00	Rustler			
	2,093.01	2,093.00	Salado			
	3,262.08	3,256.00	Base Salt			
	3,485.47	3,478.00	Yates			
	3,953.38	3,943.00	Seven Rivers			
	4,642.67	4,628.00	Queen			
	6,208.41	6,184.00	Delaware Mtn Group			
	7,807.35	7,773.00	Bone Spring Lime			
	9,424.24	9,388.00	First Bone Spring Sand			
	9,651.24	9,615.00	Second Bone Spring Carbonate			
	9,932.30	9,896.00	Second Bone Spring Sand			
	10,344.44	10,260.00	Third Bone Spring Carbonate			
	10,516.49	10,359.00	Third Bone Spring Sand			
	10,783.28	10,420.00	HZ Target			

Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S	+E/-W	0
(usit)	(usit)	(usft)	(usft)	Comment
9,883.28	9,847.04	-156.60	-650.00	KOP: 9883.28' MD/ -151.15' VS/9847.04' TVD
10,783.28	10,420.00	411.06	-727.76	EOC: 10783.28' MD/ 417.14' VS/10420.00' TVD
10,789.85	10,420.00	417.57	-728.64	100FLL: 10789.85' MD/ 423.66' VS/10420.00' TVD
21,138.49	10,420.00	10,764.71	-838.50	TD: 21138.49' MD/ 10771.36' VS/10420.00' TVD