<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 367974

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

1	Operator Name and Address		2. OGRID Number
	Franklin Mountain Energy 3, LLC	331595	
	44 Cook Street	3. API Number	
	Denver, CO 80206		30-025-53168
4	Property Code	5. Property Name	6. Well No.
	334693	ALPHA STATE COM	801H

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	1576	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	800	W	Lea	

9. Pool Information

SCHARB;WOLFCAMP	55640

Additional Well Information

11. Work Type	Work Type 12. Well Type 1		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	22101	Wolfcamp		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	Sacks of Cement	Estimated TOC	
Surf	17.5	13.375	54.5	1894	1453	0
Int1	12.25	9.625	40	7899	1733	0
Prod	8.75	7	32	10822	260	6899
Prod	8.75	5.5	20	22100	2815	10822

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	CACTUS

knowledge and be	elief.	true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION
Signature:					
Printed Name:	Electronically filed by Rachael A	Overbey	Approved By:	Paul F Kautz	
Title:	Project Manager		Title:	Geologist	
Email Address:	roverbey@fmellc.com		Approved Date:	7/8/2024	Expiration Date: 7/8/2026
Date:	6/26/2024	Phone: 303-570-4057	Conditions of Appr	oval Attached	

S89°31'38"W - 5309.22' (Meas.)

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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

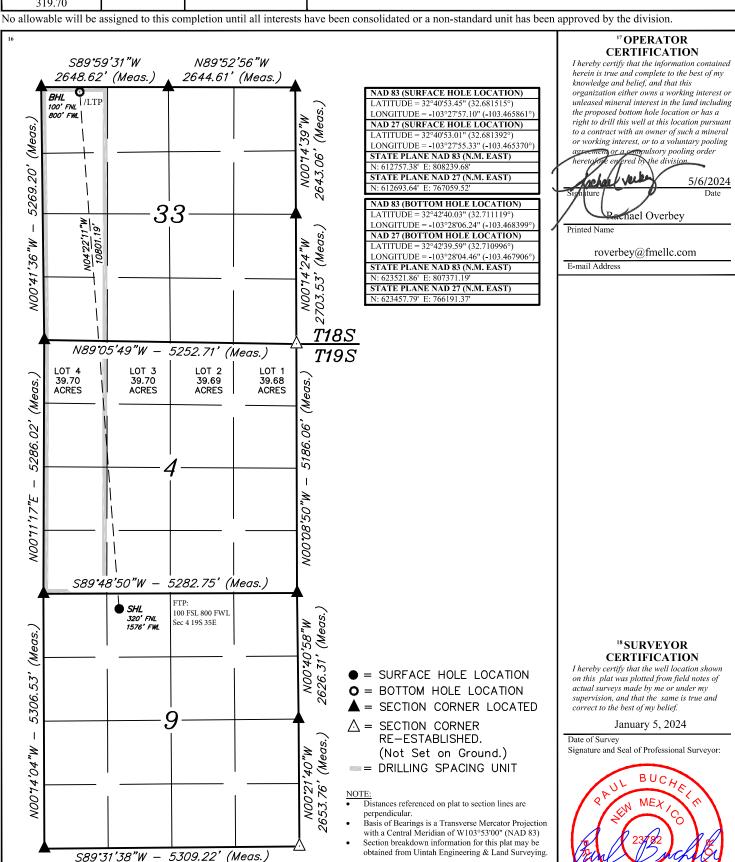
¹ API Number		² Pool Code 55640)		
⁴ Property Code			roperty Name 6 Well Number A STATE COM 801H		
⁷ OGRID No. 331595			perator Name JNTAIN ENERGY 3, LLC	⁹ Elevation 3,858.2'	

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 320 NORTH 1576	East/West line County WEST LEA
--	--------------------------------

"Bottom Hole Location If Different From Surface

UL or lot no. D	Secti 33	3	Township 18S	Range 35E	Lot Idn	Fe	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	int or Infill	14 Conso	lidation Code		¹⁵ Order No.				





Released to Imaging: 7/8/2024 11:12:38 AM

Certificate Number:

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 367974

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
Franklin Mountain Energy 3, LLC [331595]	30-025-53168
44 Cook Street	Well:
Denver, CO 80206	ALPHA STATE COM #801H

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 801H

- 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	630'	3,257'			Shaley Carbonate & Shale
Yates	409'	3,477'			Anhydrite/Shale
Seven Rivers	-56'	3,942'			Interbedded Shale/Carbonate
Queen	-743'	4,630'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2,290'	6,177'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3,890'	7,776'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,503'	9,390'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,731'	9,618'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6,011'	9,898'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,377'	10,263'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,476'	10,362'			Sandstone - oil/gas/water
Wolfcamp	-6,629'	10,515'			Overpressure Shale/Sand- oil/gas
Wolfcamp B	-7,076'	10,962'			Overpressure Shale - oil/gas
HZ Target	-7,483'	11,370'			Overpressure Shale - oil/gas
Base Wolfcamp	-7,635'	11,522'			Overpressure Shale - oil/gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,177'	Oil
1 st Bone Spring Sand	9,390'	Oil
2 nd Bone Spring Carb	9,618'	Oil
2 nd Bone Spring Sand	9,898'	Oil
3 rd Bone Spring Sand	10,362'	Oil
Wolfcamp	10,515'	Oil
Wolfcamp B	10,962'	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.



Casing string	Weight	ht Grade	Grade Burst	Collapse Tension	Tonsion	on Conn	Length	API design factor			
Casing string	weight	Graue	Duist	Collapse	Telision	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	7,899	1.33	1.14	2.20	2.51
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	10,822	1.75	2.12	2.30	2.36
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	11,278 11,370	1.15	2.31	1.97	2.05

Tapered production string will be ran with a X-over installed at the KOP of 10,822'.

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	ıd					*	Tail		Ĩ
Type	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	7,899	1532	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	7,499	100%
Prod	8.75	7	10,822	260	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	6,899						100%
Prod	8.75	5.5	22,100						2815	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	10,822	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' – 7,899'	Brine	8.8- 10.2	28-34	N/c
7,899'' – 11,722'	Brine	8.8- 10.2	28-34	N/c
11,722' – 22,100' Lateral	Oil Base	9.0-13	58-68	3 - 6

Γhe

highest mud weight needed to balance formation is expected to be 9-13 ppg. In order to maintain hole stability, mud weights up to 13 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 11,370' TVD (deepest point of the well) is 190F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,686' psig (based on 13 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H2S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 - 1. Rescue packs (SCBA) 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escape packs 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
 - 3. Emergency Escape Packs 4 packs shall be stored in the doghouse for emergency evacuation.
 - ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
 - c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
 - d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
 - e. Mud Program
 - The Mud program will be designed to minimize the volume of H2S circulated to surface.
 The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.



f. Metallurgy

i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.

g. Communication

i. Communication will be via cell phones and walkie talkies on location.

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

11. Anticipated starting date and duration of operations:

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

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

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

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

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

14. Additional variance requests

A. Casing.



1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 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 I	Energy 3, LLC	OG	RID:331595		Date:8/_30_/2023		
I. 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 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 Completion Initial Flow First Production								
		1	Date	Commencement				
See Attached Well List								
VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.								

Section 2 – Enhanced Plan 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. \boxtimes Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

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

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).

\square Attach Operator's plan to manage production in response to the increased line pressi		Attach (Operator's plan	to manage nr	aduction i	n resnance to	the increased	line pressu
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XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for	r the information provided in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full descripting	ion of the specific information
for which confidentiality is asserted and the basis for such assertion.	

(i)

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

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

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

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

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

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

Signature: 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.

				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.
 - o 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:



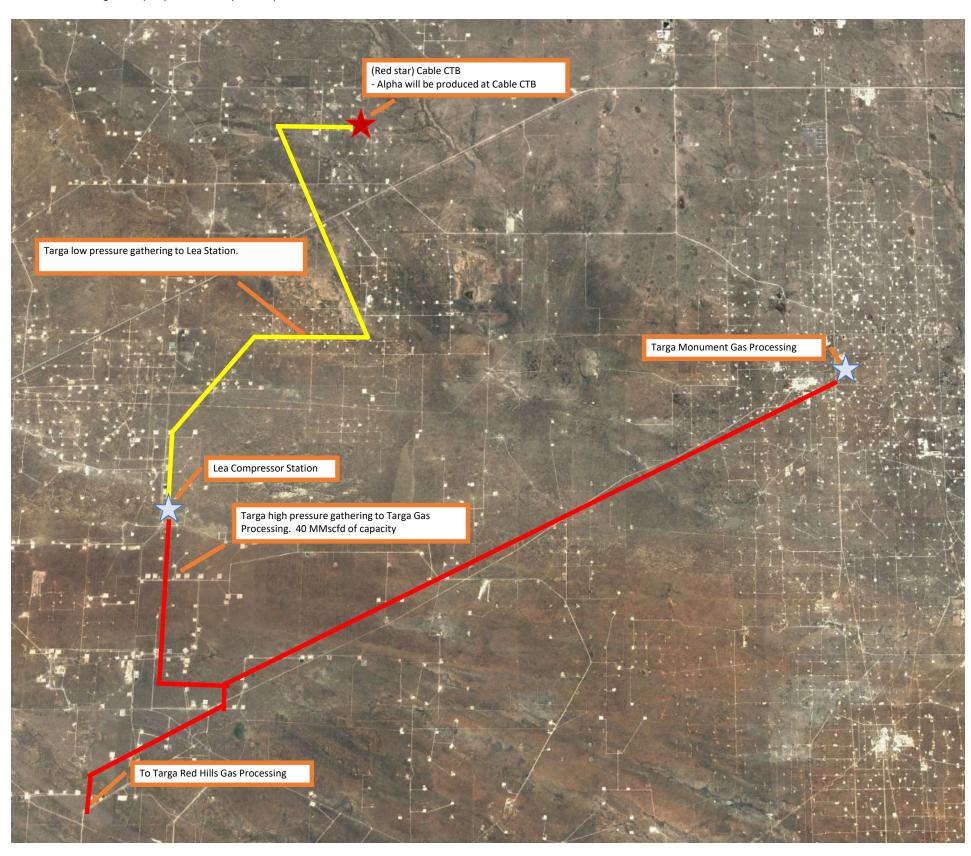
- o All volume that is flared and vented that is not measured will be estimated.
- When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
- Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection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



Received by OCD: 6/26/2024 9:03:53 AM



Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)
Alpha_Cable West
(WA05) Alpha State Com 801H - Slot (WA05)

801H

Plan: APD-Rev01

Standard Planning Report - Geographic

22 March, 2024



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H

Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Minimum Curvature

Project PV_Lea County, NM(N83-NME3001)

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

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

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 (WA05) Alpha State Com 801H - Slot (WA05)

 Well Position
 +N/-S
 0.45 usft
 Northing:
 612,757.38 usft
 Latitude:
 32.68151506

 +E/-W
 59.99 usft
 Easting:
 808,239.68 usft
 Longitude:
 -103.46586148

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

Grid Convergence: 0.47 °

Wellbore 801H

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (nT)
 Field Strength (nT)

 IGRF2020
 3/17/2024
 6.21
 60.24
 47,483.68658716

Design APD-Rev01

Audit Notes:

Version:Phase:PLANTie On Depth:0.00

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

 0.00
 0.45
 59.99
 359.52

Plan Survey Tool Program Date 3/22/2024

Depth From Depth To

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

1 0.00 22,100.85 APD-Rev01 (801H) 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: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

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	0.45	59.99	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.45	59.99	0.00	0.00	0.00	0.00	
2,347.15	5.21	253.48	2,346.67	-4.03	44.88	1.50	1.50	0.00	253.48	
8,003.82	5.21	253.48	7,980.00	-149.98	-447.33	0.00	0.00	0.00	0.00	
8,524.54	0.00	0.00	8,500.00	-156.70	-470.00	1.00	-1.00	0.00	180.00	
10,821.58	0.00	0.00	10,797.04	-156.70	-470.00	0.00	0.00	0.00	0.00	
11,721.58	90.00	344.50	11,370.00	395.42	-623.12	10.00	10.00	0.00	344.50	
12,472.39	90.00	359.52	11,370.00	1,136.81	-727.21	2.00	0.00	2.00	90.00	
22,100.85	90.00	359.52	11,370.00	10,764.93	-808.50	0.00	0.00	0.00	0.00	02-PBHL(APSC-801I



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Masured Coph	Design:	7.11 2	-Nevu i							
Depth Inclination Azimuth Depth (usft)	Planned Survey	,								
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Centroxic Alluvium (surface) 100.00										I
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2,700.00 5.21 253.48 2,698.07 -13.14 14.17 612,743.80 808,193.86 32.68147875 -103.46601073 2,800.00 5.21 253.48 2,797.65 -15.72 5.47 612,741.22 808,185.16 32.68147186 -103.46603908 2,900.00 5.21 253.48 2,897.24 -18.30 -3.23 612,738.64 808,176.46 32.68146496 -103.46609577 3,100.00 5.21 253.48 2,996.83 -20.88 -11.93 612,736.06 808,167.76 32.68145806 -103.46609577 3,100.00 5.21 253.48 3,096.42 -23.46 -20.63 612,733.48 808,159.06 32.68145117 -103.46612412 3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144005 -103.46616983 8ase Salt 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,730.20 808,150.35 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46623245 Yates 3,500.00 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.6814282 -103.46623245 Yates 3,500.00 5.21 253.48 3,594.35 -36.36 -64.14 612,725.58 808,145.55 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68142090 -103.46628585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46628568 3,900.00 5.21 253.48 3,993.53 -41.52 -81.54 612,715.42 808,098.15 32.68140980 -103.46628508 3,900.00 5.21 253.48 3,993.53 -41.52 -81.54 612,715.42 808,098.15 32.68140980 -103.46628568 3,900.00 5.21 253.48 3,993.53 -41.52 -81.54 612,715.42 808,098.15 32.68140980 -103.46628264 3,900.00 5.21 253.48 3,993.53 -41.52 -81.54 612,715.42 808,098.15 32.68140990 -103.46638254 612,715.42 808,098.15 32.68140990 -103.46638254 612,715.42 808,098.15 32.68139600 -103.466385089 3,900.00 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.4663868 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.4663868 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 808,085.17 32.68139262 -103.46636480 808,085.17 32.68139262 -103.46636480 808,085.17 32.681392	2,500.00	5.21	253.48	2,498.89	-7.98	31.58	612,748.96	808,211.26	32.68149254	-103.46595404
2,800.00 5.21 253.48 2,797.65 -15.72 5.47 612,741.22 808,185.16 32.68147186 -103.46603908 2,900.00 5.21 253.48 2,897.24 -18.30 -3.23 612,738.64 808,176.46 32.68146496 -103.46606743 3,000.00 5.21 253.48 2,996.83 -20.88 -11.93 612,736.06 808,167.76 32.68145806 -103.46609577 3,100.00 5.21 253.48 3,096.42 -23.46 -20.63 612,733.48 808,159.06 32.68145117 -103.46612412 3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144405 -103.46618081 3,300.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143428 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,730.62 808,125.80 32.68144282 -103.46623245 Yates	2,600.00	5.21	253.48	2,598.48	-10.56	22.87	612,746.38	808,202.56	32.68148565	-103.46598239
2,900.00 5.21 253.48 2,897.24 -18.30 -3.23 612,738.64 808,176.46 32.68146496 -103.46606743 3,000.00 5.21 253.48 2,996.83 -20.88 -11.93 612,736.06 808,167.76 32.68145806 -103.46609577 3,100.00 5.21 253.48 3,096.42 -23.46 -20.63 612,733.48 808,159.06 32.68145117 -103.46612412 3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144405 -103.46616983 8ase Salt 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,729.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46623750 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68141669 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,993.11 -44.10 -90.24 612,715.42 808,098.15 32.68140900 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139600 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 8even Rivers	2,700.00	5.21	253.48	2,698.07	-13.14	14.17	612,743.80	808,193.86	32.68147875	-103.46601073
3,000.00 5.21 253.48 2,996.83 -20.88 -11.93 612,736.06 808,167.76 32.68145806 -103.46609577 3,100.00 5.21 253.48 3,096.42 -23.46 -20.63 612,733.48 808,159.06 32.68145117 -103.46612412 3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144005 -103.46616983 8ase Salt 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,730.90 808,150.35 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143738 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.466236585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46623245 3,900.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46623254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139262 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480	2,800.00	5.21	253.48	2,797.65	-15.72	5.47	612,741.22	808,185.16	32.68147186	-103.46603908
3,100.00 5.21 253.48 3,096.42 -23.46 -20.63 612,733.48 808,159.06 32.68145117 -103.46612412 3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.681444005 -103.46616983 **Base Salt** 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,728.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 **Yates** 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.40 808,098.15 32.68140990 -103.46629420 3,800.00 5.21 253.48 3,893.11 -44.10 -90.24 612,715.42 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 \$**Seven Rivers**	2,900.00	5.21	253.48	2,897.24	-18.30	-3.23	612,738.64	808,176.46	32.68146496	-103.46606743
3,200.00 5.21 253.48 3,196.00 -26.04 -29.33 612,730.90 808,150.35 32.68144427 -103.46615246 3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144005 -103.46616983 **Base Salt** 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,728.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 **Yates** 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,085.17 32.68139262 -103.46636089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 **Seven Rivers**	3,000.00	5.21	253.48	2,996.83	-20.88	-11.93	612,736.06	808,167.76	32.68145806	-103.46609577
3,261.25 5.21 253.48 3,257.00 -27.62 -34.66 612,729.32 808,145.03 32.68144005 -103.46616983 Base Salt 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,728.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.6814090 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139262 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,100.00	5.21	253.48	3,096.42	-23.46	-20.63	612,733.48	808,159.06	32.68145117	-103.46612412
Base Salt 3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,728.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68142359 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11	3,200.00	5.21	253.48	3,196.00	-26.04	-29.33	612,730.90	808,150.35	32.68144427	-103.46615246
3,300.00 5.21 253.48 3,295.59 -28.62 -38.03 612,728.32 808,141.65 32.68143738 -103.46618081 3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140990 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,261.25	5.21	253.48	3,257.00	-27.62	-34.66	612,729.32	808,145.03	32.68144005	-103.46616983
3,400.00 5.21 253.48 3,395.18 -31.20 -46.74 612,725.74 808,132.95 32.68143048 -103.46620916 3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140990 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	Base Sa	lt								
3,482.16 5.21 253.48 3,477.00 -33.32 -53.89 612,723.62 808,125.80 32.68142482 -103.46623245 Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140990 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,300.00	5.21	253.48	3,295.59	-28.62	-38.03	612,728.32	808,141.65	32.68143738	-103.46618081
Yates 3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480	3,400.00	5.21	253.48	3,395.18	-31.20	-46.74	612,725.74	808,132.95	32.68143048	-103.46620916
3,500.00 5.21 253.48 3,494.76 -33.78 -55.44 612,723.16 808,124.25 32.68142359 -103.46623750 3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,482.16	5.21	253.48	3,477.00	-33.32	-53.89	612,723.62	808,125.80	32.68142482	-103.46623245
3,600.00 5.21 253.48 3,594.35 -36.36 -64.14 612,720.58 808,115.55 32.68141669 -103.46626585 3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	Yates									
3,700.00 5.21 253.48 3,693.94 -38.94 -72.84 612,718.00 808,106.85 32.68140980 -103.46629420 3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers				3,494.76				808,124.25	32.68142359	-103.46623750
3,800.00 5.21 253.48 3,793.53 -41.52 -81.54 612,715.42 808,098.15 32.68140290 -103.46632254 3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,600.00	5.21	253.48	3,594.35	-36.36	-64.14	612,720.58	808,115.55	32.68141669	-103.46626585
3,900.00 5.21 253.48 3,893.11 -44.10 -90.24 612,712.84 808,089.45 32.68139600 -103.46635089 3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,700.00		253.48	3,693.94	-38.94		612,718.00		32.68140980	-103.46629420
3,949.09 5.21 253.48 3,942.00 -45.36 -94.51 612,711.57 808,085.17 32.68139262 -103.46636480 Seven Rivers	3,800.00		253.48	3,793.53		-81.54		808,098.15	32.68140290	-103.46632254
Seven Rivers										
	3,949.09	5.21	253.48	3,942.00	-45.36	-94.51	612,711.57	808,085.17	32.68139262	-103.46636480
4,000.00 5.21 253.48 3,992.70 -46.68 -98.94 612,710.26 808,080.74 32.68138911 -103.46637924										
	4,000.00	5.21	253.48	3,992.70	-46.68	-98.94	612,710.26	808,080.74	32.68138911	-103.46637924



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

nned Survey	,								
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
4,100.00	5.21	253.48	4,092.29	-49.26	-107.65	612,707.68	808,072.04	32.68138221	-103.46640
4,200.00	5.21	253.48	4,191.88	-51.84	-116.35	612,705.10	808,063.34	32.68137532	-103.46643
4,300.00	5.21	253.48	4,291.46	-54.42	-125.05	612,702.52	808,054.64	32.68136842	-103.46646
4,400.00	5.21	253.48	4,391.05	-57.00	-133.75	612,699.94	808,045.94	32.68136153	-103.46649
4,500.00	5.21	253.48	4,490.64	-59.58	-142.45	612,697.36	808,037.24	32.68135463	-103.46652
4,600.00	5.21	253.48	4,590.22	-62.16	-151.15	612,694.78	808,028.54	32.68134773	-103.46654
4,639.94	5.21	253.48	4,630.00	-63.19	-154.63	612,693.75	808,025.06	32.68134498	-103.46656
Queen									
4,700.00	5.21	253.48	4,689.81	-64.74	-159.85	612,692.20	808,019.83	32.68134084	-103.46657
4,800.00	5.21	253.48	4,789.40	-67.32	-168.55	612,689.62	808,011.13	32.68133394	-103.46660
4,900.00	5.21	253.48	4,888.99	-69.90	-177.26	612,687.04	808,002.43	32.68132705	-103.46663
5,000.00	5.21	253.48	4,988.57	-72.48	-185.96	612,684.46	807,993.73	32.68132015	-103.46666
5,100.00	5.21	253.48	5,088.16	-75.06	-194.66	612,681.88	807,985.03	32.68131326	-103.46669
5,200.00	5.21	253.48	5,187.75	-77.64	-203.36	612,679.30	807,976.33	32.68130636	-103.46671
5,300.00	5.21	253.48	5,287.34	-80.22	-212.06	612,676.72	807,967.63	32.68129946	-103.46674
5,400.00	5.21	253.48	5,386.92	-82.80	-220.76	612,674.14	807,958.93	32.68129257	-103.46677
5,500.00	5.21	253.48	5,486.51	-85.38	-229.46	612,671.56	807,950.22	32.68128567	-103.46680
5,600.00	5.21	253.48	5,586.10	-87.96	-238.17	612,668.98	807,941.52	32.68127878	-103.46683
5,700.00	5.21	253.48	5,685.69	-90.54	-246.87	612,666.40	807,932.82	32.68127188	-103.46686
5,800.00	5.21	253.48	5,785.27	-93.12	-255.57	612,663.82	807,924.12	32.68126499	-103.46688
5,900.00	5.21	253.48	5,884.86	-95.70	-264.27	612,661.24	807,915.42	32.68125809	-103.46691
6,000.00	5.21	253.48	5,984.45	-98.28	-272.97	612,658.66	807,906.72	32.68125119	-103.46694
6,100.00	5.21	253.48	6,084.03	-100.86	-281.67	612,656.08	807,898.02	32.68124430	-103.46697
6,193.35	5.21	253.48	6,177.00	-103.27	-289.79	612,653.67	807,889.89	32.68123786	-103.46700
	e Mtn Group								
6,200.00	5.21	253.48	6,183.62	-103.44	-290.37	612,653.50	807,889.31	32.68123740	-103.46700
6,300.00	5.21	253.48	6,283.21	-106.02	-299.07	612,650.92	807,880.61	32.68123051	-103.46703
6,400.00	5.21	253.48	6,382.80	-108.60	-307.78	612,648.34	807,871.91	32.68122361	-103.46705
6,500.00	5.21	253.48	6,482.38	-111.18	-316.48	612,645.76	807,863.21	32.68121671	-103.46708
6,600.00	5.21	253.48	6,581.97	-113.76	-325.18	612,643.18	807,854.51	32.68120982	-103.46711
6,700.00	5.21	253.48	6,681.56	-116.34	-333.88	612,640.60	807,845.81	32.68120292	-103.46714
6,800.00	5.21	253.48	6,781.15	-118.92	-342.58	612,638.02	807,837.11	32.68119603	-103.46717
6,900.00	5.21	253.48	6,880.73	-121.50	-351.28	612,635.44	807,828.41	32.68118913	-103.46720
7,000.00	5.21	253.48	6,980.32	-124.08	-359.98	612,632.86	807,819.70	32.68118224	-103.46722
7,100.00	5.21	253.48	7,079.91	-126.66	-368.69	612,630.28	807,811.00	32.68117534	-103.46725
7,200.00	5.21	253.48	7,179.49	-129.24	-377.39	612,627.69	807,802.30	32.68116844	-103.46728
7,300.00	5.21	253.48	7,279.08	-131.82	-386.09	612,625.11	807,793.60	32.68116155	-103.46731
7,400.00	5.21	253.48	7,378.67	-134.40	-394.79	612,622.53	807,784.90	32.68115465	-103.46734
7,500.00	5.21	253.48	7,478.26	-136.98	-403.49	612,619.95	807,776.20	32.68114776	-103.46737
7,600.00		253.48	7,577.84	-139.56	-412.19	612,617.37	807,767.50	32.68114086	-103.46739
7,700.00	5.21	253.48	7,677.43	-142.14	-420.89	612,614.79	807,758.79	32.68113396	-103.46742
7,798.98	5.21	253.48	7,776.00	-144.69	-429.51	612,612.24	807,750.18	32.68112714	-103.4674
-	ring Lime	252.40	7 777 00	144.70	420 FO	640 640 04	907 750 00	20 60440707	102 4674
7,800.00	5.21 5.21	253.48	7,777.02 7,876.61	-144.72 147.30	-429.59 438.30	612,612.21	807,750.09	32.68112707	-103.46745 -103.46748
7,900.00	5.21 5.21	253.48	,	-147.30	-438.30	612,609.63	807,741.39 807,732.36	32.68112017 32.68111301	
8,003.82		253.48	7,980.00	-149.98 152.23	-447.33 454.03	612,606.96	,		-103.46751
8,100.00	4.25	253.48	8,075.85	-152.23 154.00	-454.93 461.10	612,604.70	807,724.76	32.68110699	-103.46753
8,200.00	3.25	253.48	8,175.63	-154.09	-461.19	612,602.85	807,718.50	32.68110203	-103.46755
8,300.00	2.25	253.48	8,275.52	-155.45	-465.78	612,601.48	807,713.91	32.68109839	-103.46757
8,400.00	1.25	253.48	8,375.47	-156.32	-468.70	612,600.62	807,710.99	32.68109608	-103.46758
8,500.00	0.25	253.48	8,475.46	-156.69	-469.95	612,600.25	807,709.74	32.68109509	-103.46758
8,524.54	0.00	0.00	8,500.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.46758
8,600.00	0.00	0.00	8,575.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.46758
8,700.00	0.00	0.00	8,675.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.46758



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

esign:	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
8,800.00	0.00	0.00	8,775.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
8,900.00	0.00	0.00	8,875.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,000.00	0.00	0.00	8,975.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,100.00	0.00	0.00	9,075.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,200.00	0.00	0.00	9,175.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,300.00	0.00	0.00	9,275.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,400.00	0.00	0.00	9,375.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,414.54	0.00	0.00	9,390.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	e Spring San								
9,500.00	0.00	0.00	9,475.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,600.00	0.00	0.00	9,575.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,642.54	0.00	0.00	9,618.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	Bone Spring (0.0== 15	455	472.22	040.000.00	007.700	00.00	100 1000
9,700.00	0.00	0.00	9,675.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,800.00	0.00	0.00	9,775.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,900.00	0.00	0.00	9,875.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
9,922.54	0.00	0.00	9,898.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	Bone Spring S		0.075.40	450.70	470.00	040.000.00	227 722 22	00 00 400 505	400 4075000
10,000.00	0.00	0.00	9,975.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,100.00	0.00	0.00	10,075.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,200.00	0.00	0.00	10,175.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,287.54	0.00	0.00	10,263.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	ne Spring Ca								
10,300.00	0.00	0.00	10,275.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,386.54	0.00	0.00	10,362.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	ne Spring Sa		10.075.10	450.70	470.00	040.000.00	227 722 22	00 00 400 505	400 4075000
10,400.00	0.00	0.00	10,375.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,500.00	0.00	0.00	10,475.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,539.54	0.00	0.00	10,515.00	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
Wolfcam		0.00	10 575 10	450.70	470.00	040.000.00	227 722 22	00 00 400 505	100 107500
10,600.00	0.00	0.00	10,575.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,700.00	0.00	0.00	10,675.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,800.00	0.00	0.00	10,775.46	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
10,821.58	0.00	0.00	10,797.04	-156.70	-470.00	612,600.23	807,709.69	32.68109505	-103.4675880
	321.58' MD/ -1			450.00	470.40	040 000 04	007 700 50	00.00400000	400 407500
10,850.00	2.84	344.50	10,825.45	-156.02	-470.19	612,600.91	807,709.50	32.68109692	-103.4675886
10,900.00	7.84	344.50	10,875.22	-151.54 142.80	-471.43	612,605.40	807,708.26	32.68110927	-103.4675925
10,950.00 10,988.91	12.84 16.73	344.50 344.50	10,924.39 10,962.00	-142.89 -133.32	-473.83 -476.48	612,614.04 612,623.61	807,705.86 807,703.20	32.68113309 32.68115944	-103.467600° -103.4676084
		J -14 .JU	10,302.00	-100.02	- - 10.40	012,023.01	001,103.20	02.00110344	-100.4070002
Wolfcam 11,000.00	р В 17.84	344.50	10,972.59	-130.15	-477.36	612,626.79	807,702.32	32.68116819	-103.4676112
11,000.00	22.84	344.50	11,019.46	-130.15	-477.36 -482.01	612,643.53	807,697.68	32.68121432	-103.4676258
11,100.00	27.84	344.50	11,019.46	-113.40 -92.79	-487.72	612,664.15	807,691.96	32.68127111	-103.4676439
11,150.00	32.84	344.50	11,107.77	-92.79 -68.45	-494.47	612,688.48	807,685.22	32.68133813	-103.4676652
11,200.00	37.84	344.50	11,148.54	-40.59	-502.20	612,716.34	807,677.49	32.68141488	-103.4676895
11,250.00	42.84	344.50	11,186.64	-9.41	-510.85	612,747.52	807,668.84	32.68150077	-103.4677168
11,300.00	47.84	344.50	11,221.77	24.85	-520.35	612,781.78	807,659.34	32.68159515	-103.4677468
11,350.00	52.84	344.50	11,253.67	61.93	-530.63	612,818.87	807,649.06	32.68169729	-103.4677792
11,400.00	57.84	344.50	11,282.10	101.55	-541.62	612,858.48	807,638.07	32.68180643	-103.467813
11,450.00	62.84	344.50	11,306.83	143.41	-553.23	612,900.34	807,626.46	32.68192173	-103.467850
11,500.00	67.84	344.50	11,327.68	187.18	-565.37	612,944.12	807,614.32	32.68204231	-103.467888
11,550.00	72.84	344.50	11,344.50	232.54	-577.95	612,989.47	807,601.74	32.68216725	-103.467928
11,600.00	77.84	344.50	11,357.15	279.14	-590.87	613,036.07	807,588.82	32.68229561	-103.4679692
11,650.00	82.84	344.50	11,365.53	326.62	-604.04	613,083.56	807,575.65	32.68242641	-103.4680108



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Design.	, ., D	116101							
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
11,700.00	87.84	344.50	11,369.59	374.63	-617.35	613,131.56	807,562.34	32.68255865	-103.46805280
11,721.58	90.00	344.50	11,370.00	395.42	-623.12	613,152.35	807,556.57	32.68261592	-103.46807099
			70.00' TVD - H2						
11,744.19	90.00	344.95	11,370.00	417.23	-629.07	613,174.17	807,550.62	32.68267600	-103.46808977
	11744.19' MD								
11,767.92	90.00	345.43	11,370.00	440.18	-635.14	613,197.11	807,544.55	32.68273920	-103.46810887
•	PSC-801H)	0.40.07	44.070.00	474.07	040.04	040 000 00	007 500 05	00.0000.400	100 10010071
11,800.00	90.00	346.07	11,370.00	471.27	-643.04 -665.41	613,228.20	807,536.65 807,514.27	32.68282482	-103.46813371
11,900.00 12,000.00	90.00 90.00	348.07 350.07	11,370.00 11,370.00	568.72 666.90	-684.38	613,325.66 613,423.84	807,495.31	32.68309318 32.68336344	-103.46820386 -103.46826288
12,100.00	90.00	352.07	11,370.00	765.69	-699.90	613,522.62	807,479.79	32.68363528	-103.46831072
12,200.00	90.00	354.07	11,370.00	864.95	-711.97	613,621.88	807,467.72	32.68390837	-103.46834731
12,300.00	90.00	356.07	11,370.00	964.58	-720.57	613,721.51	807,459.12	32.68418237	-103.46837260
12,400.00	90.00	358.07	11,370.00	1,064.44	-725.68	613,821.37	807,454.01	32.68445695	-103.46838658
12,472.39	90.00	359.52	11,370.00	1,136.81	-727.21	613,893.75	807,452.48	32.68465589	-103.46838962
12,500.00	90.00	359.52	11,370.00	1,164.42	-727.44	613,921.35	807,452.25	32.68473178	-103.46838965
12,600.00	90.00	359.52	11,370.00	1,264.42	-728.28	614,021.35	807,451.41	32.68500662	-103.46838974
12,700.00	90.00	359.52	11,370.00	1,364.41	-729.13	614,121.35	807,450.56	32.68528147	-103.46838983
12,800.00	90.00	359.52	11,370.00	1,464.41	-729.97	614,221.34	807,449.72	32.68555632	-103.46838993
12,900.00	90.00	359.52	11,370.00	1,564.41	-730.82	614,321.34	807,448.87	32.68583117	-103.46839002
13,000.00	90.00	359.52	11,370.00	1,664.40	-731.66	614,421.34	807,448.03	32.68610602	-103.46839012
13,100.00	90.00	359.52	11,370.00	1,764.40	-732.50	614,521.33	807,447.18	32.68638087	-103.46839021
13,200.00	90.00	359.52	11,370.00	1,864.40	-733.35	614,621.33	807,446.34	32.68665571	-103.46839031
13,300.00	90.00	359.52	11,370.00	1,964.39	-734.19	614,721.33	807,445.50	32.68693056	-103.46839040
13,400.00	90.00	359.52	11,370.00	2,064.39	-735.04	614,821.32	807,444.65	32.68720541	-103.46839050
13,500.00	90.00	359.52	11,370.00	2,164.39	-735.88	614,921.32	807,443.81	32.68748026	-103.46839059
13,600.00 13,700.00	90.00 90.00	359.52 359.52	11,370.00 11,370.00	2,264.38 2,364.38	-736.73 -737.57	615,021.32 615,121.31	807,442.96 807,442.12	32.68775511 32.68802995	-103.46839068 -103.46839078
13,800.00	90.00	359.52	11,370.00	2,464.37	-738.41	615,221.31	807,441.27	32.68830480	-103.46839087
13,900.00	90.00	359.52	11,370.00	2,564.37	-739.26	615,321.30	807,440.43	32.68857965	-103.46839097
14,000.00	90.00	359.52	11,370.00	2,664.37	-740.10	615,421.30	807,439.58	32.68885450	-103.46839106
14,100.00	90.00	359.52	11,370.00	2,764.36	-740.95	615,521.30	807,438.74	32.68912935	-103.46839115
14,200.00	90.00	359.52	11,370.00	2,864.36	-741.79	615,621.29	807,437.90	32.68940419	-103.46839125
14,300.00	90.00	359.52	11,370.00	2,964.36	-742.64	615,721.29	807,437.05	32.68967904	-103.46839134
14,400.00	90.00	359.52	11,370.00	3,064.35	-743.48	615,821.29	807,436.21	32.68995389	-103.46839144
14,500.00	90.00	359.52	11,370.00	3,164.35	-744.32	615,921.28	807,435.36	32.69022874	-103.46839153
14,600.00	90.00	359.52	11,370.00	3,264.35	-745.17	616,021.28	807,434.52	32.69050359	-103.46839163
14,700.00	90.00	359.52	11,370.00	3,364.34	-746.01	616,121.28	807,433.67	32.69077843	-103.46839172
14,800.00	90.00	359.52	11,370.00	3,464.34	-746.86	616,221.27	807,432.83	32.69105328	-103.46839181
14,900.00	90.00	359.52	11,370.00	3,564.34	-747.70	616,321.27	807,431.99	32.69132813	-103.46839191
15,000.00	90.00	359.52	11,370.00	3,664.33	-748.55	616,421.27	807,431.14	32.69160298	-103.46839200
15,100.00	90.00	359.52	11,370.00	3,764.33	-749.39	616,521.26	807,430.30	32.69187783	-103.46839210
15,200.00	90.00	359.52	11,370.00	3,864.32	-750.23	616,621.26	807,429.45	32.69215267	-103.46839219
15,300.00	90.00	359.52	11,370.00	3,964.32	-751.08	616,721.25	807,428.61	32.69242752	-103.46839228
15,400.00	90.00	359.52	11,370.00	4,064.32	-751.92	616,821.25	807,427.76	32.69270237	-103.46839238
15,500.00	90.00	359.52 359.52	11,370.00	4,164.31	-752.77 753.61	616,921.25 617,021.24	807,426.92	32.69297722	-103.46839247
15,600.00 15,700.00	90.00	359.52 359.52	11,370.00 11,370.00	4,264.31 4,364.31	-753.61 -754.46	617,021.24 617,121.24	807,426.08 807,425.23	32.69325207	-103.46839256 -103.46839266
15,700.00	90.00 90.00	359.52 359.52	11,370.00	4,364.31	-754.46 -755.30	617,121.24	807,425.23 807,424.39	32.69352691 32.69380176	-103.46839275
15,900.00	90.00	359.52	11,370.00	4,464.30	-755.30 -756.15	617,321.23	807,423.54	32.69407661	-103.46839285
16,000.00	90.00	359.52	11,370.00	4,664.30	-756.99	617,421.23	807,422.70	32.69435146	-103.46839294
16,100.00	90.00	359.52	11,370.00	4,764.29	-757.83	617,521.23	807,421.85	32.69462631	-103.46839303
16,200.00	90.00	359.52	11,370.00	4,864.29	-758.68	617,621.22	807,421.01	32.69490115	-103.46839313
16,300.00	90.00	359.52	11,370.00	4,964.29	-759.52	617,721.22	807,420.17	32.69517600	-103.46839322
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Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid Minimum Curvature

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
16,400.00	90.00	359.52	11,370.00	5,064.28	-760.37	617,821.22	807,419.32	32.69545085	-103.46839332
16,500.00	90.00	359.52	11,370.00	5,164.28	-761.21	617,921.21	807,418.48	32.69572570	-103.46839341
16,600.00	90.00	359.52	11,370.00	5,264.27	-762.06	618,021.21	807,417.63	32.69600054	-103.46839350
16,700.00	90.00	359.52	11,370.00	5,364.27	-762.90	618,121.21	807,416.79	32.69627539	-103.46839360
16,800.00	90.00	359.52	11,370.00	5,464.27	-763.74	618,221.20	807,415.94	32.69655024	-103.46839369
16,900.00	90.00	359.52	11,370.00	5,564.26	-764.59	618,321.20	807,415.10	32.69682509	-103.46839378
17,000.00	90.00	359.52	11,370.00	5,664.26	-765.43	618,421.19	807,414.26	32.69709994	-103.46839388
17,100.00	90.00	359.52	11,370.00	5,764.26	-766.28	618,521.19	807,413.41	32.69737478	-103.46839397
17,200.00	90.00	359.52	11,370.00	5,864.25	-767.12	618,621.19	807,412.57	32.69764963	-103.46839406
17,300.00	90.00	359.52	11,370.00	5,964.25	-767.97	618,721.18	807,411.72	32.69792448	-103.46839416
17,400.00	90.00	359.52	11,370.00	6,064.25	-768.81	618,821.18	807,410.88	32.69819933	-103.46839425
17,500.00	90.00	359.52	11,370.00	6,164.24	-769.65	618,921.18	807,410.03	32.69847417	-103.46839435
17,600.00	90.00	359.52	11,370.00	6,264.24	-770.50	619,021.17	807,409.19	32.69874902	-103.46839444
17,700.00	90.00	359.52	11,370.00	6,364.24	-771.34	619,121.17	807,408.35	32.69902387	-103.46839453
17,800.00	90.00	359.52	11,370.00	6,464.23	-772.19	619,221.17	807,407.50	32.69929872	-103.46839463
17,900.00	90.00	359.52	11,370.00	6,564.23	-773.03	619,321.16	807,406.66	32.69957356	-103.46839472
18,000.00	90.00	359.52	11,370.00	6,664.23	-773.88	619,421.16	807,405.81	32.69984841	-103.46839481
18,100.00	90.00	359.52	11,370.00	6,764.22	-774.72	619,521.16	807,404.97	32.70012326	-103.46839491
18,200.00	90.00	359.52	11,370.00	6,864.22	-775.56	619,621.15	807,404.12	32.70039811	-103.46839500
18,300.00	90.00	359.52	11,370.00	6,964.21	-776.41	619,721.15	807,403.28	32.70067295	-103.46839509
18,400.00	90.00	359.52	11,370.00	7,064.21	-777.25	619,821.14	807,402.43	32.70094780	-103.46839519
18,500.00	90.00	359.52 359.52	11,370.00	7,164.21	-778.10	619,921.14	807,401.59	32.70122265	-103.46839528
18,600.00 18,700.00	90.00 90.00	359.52	11,370.00 11,370.00	7,264.20 7,364.20	-778.94 -779.79	620,021.14 620,121.13	807,400.75 807,399.90	32.70149750 32.70177234	-103.46839537 -103.46839547
18,800.00	90.00	359.52	11,370.00	7,304.20	-780.63	620,221.13	807,399.06	32.70177234	-103.46839556
18,900.00	90.00	359.52	11,370.00	7,564.19	-781.47	620,321.13	807,398.21	32.70232204	-103.46839565
19,000.00	90.00	359.52	11,370.00	7,664.19	-782.32	620,421.12	807,397.37	32.70259689	-103.46839575
19,100.00	90.00	359.52	11,370.00	7,764.19	-783.16	620,521.12	807,396.52	32.70287173	-103.46839584
19,200.00	90.00	359.52	11,370.00	7,864.18	-784.01	620,621.12	807,395.68	32.70314658	-103.46839593
19,300.00	90.00	359.52	11,370.00	7,964.18	-784.85	620,721.11	807,394.84	32.70342143	-103.46839603
19,400.00	90.00	359.52	11,370.00	8,064.18	-785.70	620,821.11	807,393.99	32.70369628	-103.46839612
19,500.00	90.00	359.52	11,370.00	8,164.17	-786.54	620,921.11	807,393.15	32.70397112	-103.46839621
19,600.00	90.00	359.52	11,370.00	8,264.17	-787.38	621,021.10	807,392.30	32.70424597	-103.46839630
19,700.00	90.00	359.52	11,370.00	8,364.16	-788.23	621,121.10	807,391.46	32.70452082	-103.46839640
19,800.00	90.00	359.52	11,370.00	8,464.16	-789.07	621,221.09	807,390.61	32.70479567	-103.46839649
19,900.00	90.00	359.52	11,370.00	8,564.16	-789.92	621,321.09	807,389.77	32.70507051	-103.46839658
20,000.00	90.00	359.52	11,370.00	8,664.15	-790.76	621,421.09	807,388.93	32.70534536	-103.46839668
20,100.00	90.00	359.52	11,370.00	8,764.15	-791.61	621,521.08	807,388.08	32.70562021	-103.46839677
20,200.00	90.00	359.52	11,370.00	8,864.15	-792.45	621,621.08	807,387.24	32.70589506	-103.46839686
20,300.00	90.00	359.52	11,370.00	8,964.14	-793.30	621,721.08	807,386.39	32.70616990	-103.46839696
20,400.00	90.00	359.52	11,370.00	9,064.14	-794.14	621,821.07	807,385.55	32.70644475	-103.46839705
20,500.00	90.00	359.52	11,370.00	9,164.14	-794.98	621,921.07	807,384.70	32.70671960	-103.46839714
20,600.00	90.00	359.52	11,370.00	9,264.13	-795.83	622,021.07	807,383.86	32.70699445	-103.46839723
20,700.00	90.00	359.52	11,370.00	9,364.13	-796.67	622,121.06	807,383.02	32.70726929	-103.46839733
20,800.00	90.00	359.52	11,370.00	9,464.13	-797.52	622,221.06	807,382.17	32.70754414	-103.46839742
20,900.00	90.00	359.52	11,370.00	9,564.12	-798.36	622,321.06	807,381.33	32.70781899	-103.46839751
21,000.00	90.00	359.52	11,370.00	9,664.12	-799.21	622,421.05	807,380.48	32.70809383	-103.46839761
21,100.00	90.00	359.52	11,370.00	9,764.11	-800.05	622,521.05	807,379.64	32.70836868	-103.46839770
21,200.00	90.00	359.52	11,370.00	9,864.11	-800.89	622,621.04	807,378.79	32.70864353	-103.46839779
21,300.00	90.00	359.52	11,370.00	9,964.11	-801.74	622,721.04	807,377.95	32.70891838	-103.46839788
21,400.00	90.00	359.52	11,370.00	10,064.10	-802.58	622,821.04	807,377.11	32.70919322	-103.46839798
21,500.00	90.00	359.52	11,370.00	10,164.10	-803.43	622,921.03	807,376.26	32.70946807	-103.46839807
21,600.00	90.00	359.52	11,370.00	10,264.10	-804.27	623,021.03	807,375.42	32.70974292	-103.46839816
21,700.00	90.00	359.52	11,370.00	10,364.09	-805.12	623,121.03	807,374.57	32.71001776	-103.46839826
21,800.00	90.00	359.52	11,370.00	10,464.09	-805.96	623,221.02	807,373.73	32.71029261	-103.46839835



Database: TZ USA 17.2

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

Site: Alpha_Cable West

Well: (WA05) Alpha State Com 801H

Wellbore: 801H
Design: APD-Rev01

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Alpha_Cable West 3857+30 @ 3887.00usft 3857+30 @ 3887.00usft

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,900.00	90.00	359.52	11,370.00	10,564.09	-806.80	623,321.02	807,372.88	32.71056746	-103.46839844
22,000.00	90.00	359.52	11,370.00	10,664.08	-807.65	623,421.02	807,372.04	32.71084231	-103.46839853
22,100.85	90.00	359.52	11,370.00	10,764.93	-808.50	623,521.86	807,371.19	32.71111949	-103.46839863
TD: 2210	0.85' MD/ 107	71.38' VS/113	70.00' TVD - 0	2-PBHL(APSC	:-801H)				

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
01-T98(APSC-801H) 0.00 0.00 11,370.00 417.83 -721.60 613,174.77 807,458.09 32.68267973 -103.46839045 - plan misses target center by 89.30usft at 11767.92usft MD (11370.00 TVD, 440.18 N, -635.14 E) - Point									
02-PBHL(APSC-801H) - plan hits target cen - Point	0.00 ter	0.00	11,370.00	10,764.93	-808.50	623,521.86	807,371.19	32.71111949	-103.46839863

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				
	3,261.25	3,257.00	Base Salt				
	3,482.16	3,477.00	Yates				
	3,949.09	3,942.00	Seven Rivers				
	4,639.94	4,630.00	Queen				
	6,193.35	6,177.00	Delaware Mtn Group				
	7,798.98	7,776.00	Bone Spring Lime				
	9,414.54	9,390.00	First Bone Spring Sand				
	9,642.54	9,618.00	Second Bone Spring Carbonate				
	9,922.54	9,898.00	Second Bone Spring Sand				
	10,287.54	10,263.00	Third Bone Spring Carbonate				
	10,386.54	10,362.00	Third Bone Spring Sand				
	10,539.54	10,515.00	Wolfcamp				
	10,988.91	10,962.00	Wolfcamp B				
	11,721.58	11,370.00	HZ Target				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coor	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
10,821.58	3 10,797.04	-156.70	-470.00	KOP: 10821.58' MD/ -152.70' VS/10797.04' TVD
11,721.58	3 11,370.00	395.42	-623.12	EOC: 11721.58' MD/ 400.68' VS/11370.00' TVD
11,744.19	11,370.00	417.23	-629.07	100FLL: 11744.19' MD/ 422.54' VS/11370.00' TVD
22,100.85	11,370.00	10,764.93	-808.50	TD: 22100.85' MD/ 10771.38' VS/11370.00' TVD