

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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

District III

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

District IV

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

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

Form C-101
August 1, 2011

Permit 340301

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

1. Operator Name and Address Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206		2. OGRID Number 331595
		3. API Number 30-025-51478
4. Property Code 334044	5. Property Name ANNEX STATE COM	6. Well No. 502H

7. Surface Location

UL - Lot N	Section 36	Township 19S	Range 35E	Lot Idn N	Feet From 250	N/S Line S	Feet From 1700	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot C	Section 25	Township 19S	Range 35E	Lot Idn C	Feet From 130	N/S Line N	Feet From 2140	E/W Line W	County Lea
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9. Pool Information

PEARL;BONE SPRING, SOUTH	49685
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3660
16. Multiple N	17. Proposed Depth 20326	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 6/15/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1900	1457	0
Int1	12.25	9.625	40	4000	841	0
Prod	8.75	7	32	9500	454	3000
Prod	8.75	5.5	20	20326	2702	9500

Casing/Cement Program: Additional Comments

All casing strings will be run new. Tapered production string will be ran with a X-over installed at the KOP of 9,500'. Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface. To increase efficiency of drilling operations and minimize disturbance of the area the batch-drilling approach will be used. Off-line cementing may be utilized for Surface and Intermediate strings to further optimization of drilling process and reduction of disturbance. 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 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 equip

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	10000	5000	Cactus

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Rachael A Overbey

Title: Project Manager

Email Address: roverbey@fmellc.com

Date: 5/14/2023

Phone: 303-570-4057

Approved By: Paul F Kautz

Title: Geologist

Approved Date: 5/19/2023

Expiration Date: 5/19/2025

Conditions of Approval Attached

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 49685	³ Pool Name PEARL; BONE SPRING, SOUTH
⁴ Property Code	⁵ Property Name ANNEX STATE COM		⁶ Well Number 502H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC		⁹ Elevation 3660.7'

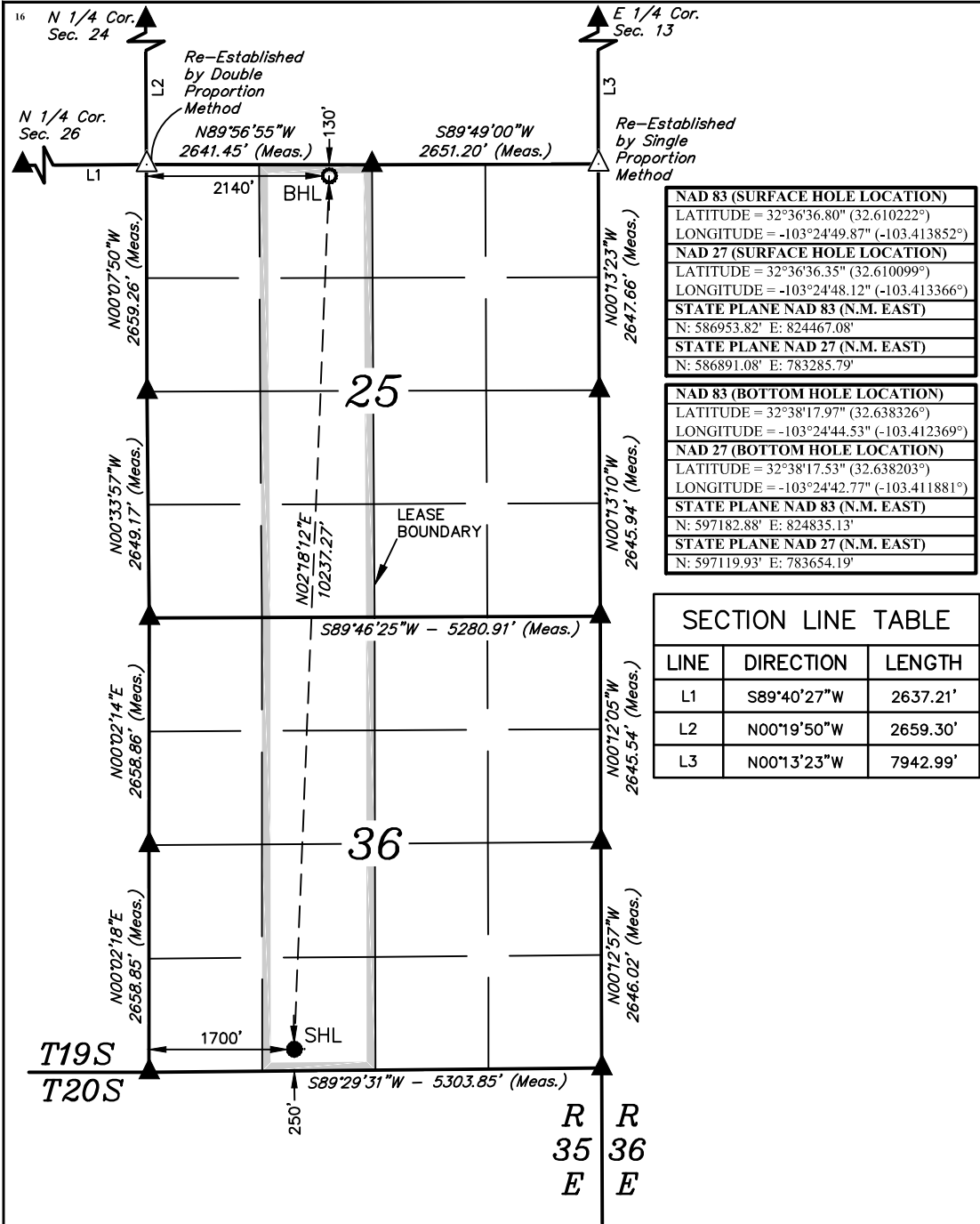
¹⁰ Surface Location

UL or lot no. N	Section 36	Township 19S	Range 35E	Lot Idn	Feet from the 250	North/South line SOUTH	Feet from the 1700	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 25	Township 19S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 2140	East/West line WEST	County LEA
¹² Dedicated Acres 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



¹⁷ OPERATOR CERTIFICATION

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

[Signature] 5/13/2023
Signature Date
Rachael Overbey
Printed Name
roverbey@fmccl.com
E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

April 5, 2023

Date of Survey
Signature and Seal of Professional Surveyor:

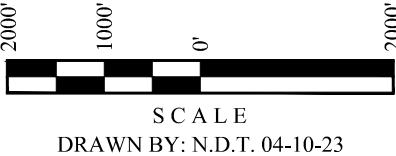
[Red Seal: PAUL BUCHELE, NEW MEXICO, 23782, 04-10-23, PROFESSIONAL SURVEYOR]

Certificate Number:

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED. (Not Set on Ground.)

NOTE:

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



DRAWN BY: N.D.T. 04-10-23

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Form APD Comments

Permit 340301

PERMIT COMMENTS

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206		API Number: 30-025-51478
		Well: ANNEX STATE COM #502H
Created By	Comment	Comment Date
pkautz	HOLD NGMP INCOMPLETE	5/19/2023

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Form APD Conditions

Permit 340301

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206	API Number: 30-025-51478
	Well: ANNEX STATE COM #502H

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



Annex State Com 502H

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)	3,661'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	1,868'	1,823'			Carbonates
Salado	1,604'	2,087'			Salt, Anhydrite & Clastics
Base Salt	452'	3,239'			Shaley Carbonate & Shale
Yates	182'	3,509'			Carbonate & Clastics
Seven Rivers	-264'	3,955'			Interbedded shale/carbonate
Queen	-962'	4,654'			Sandstone & dolomite & anhydrite
Delaware Mtn Group	-2,315'	6,006'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-4,101'	7,792'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,502'	9,193'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,757'	9,448'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6,069'	9,761'			Sandstone - oil/gas/water
HZ Target at Landing	-6,433'	10,124'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,638'	10,330'			Shale/Carbonates - oil/gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,006'	Oil
1 st Bone Spring Sand	9,193'	Oil
2 nd Bone Spring Sand	9,761'	Oil
3 rd Bone Carbonate	10,330'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,900' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC	1900	1.02	1.14	4.19	4.47
0-1,900'						909					
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC	4000	2.08	2.26	3.52	4.01
0-4,000'						1042					
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ	9500	2.10	2.42	2.54	2.61
0-9,500'						1053					
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ	10826	1.15	2.41	2.03	2.11
9,500'-20,326'						667	10124				2.21
						TVD					

Tapered production string will be ran with a X-over installed at the KOP of 9,500'.



Cementing Program:

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

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

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1900	1016	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel, 3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl ₂ , 0.1%	1.34	6.35	1500	100%
Int	12.25	9.625	4000	640	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3600	100%
Prod	8.75	7	0-9500	454	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	9500-20326						2702	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9500	50%

5. Minimum Specifications for Pressure Control:

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

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

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig.

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

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



6. Types and characteristics of the proposed mud system:

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

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' – 4,000'	Brine	8.8-10.2	28-34	N/c
4,000' – 20326' Lateral	Oil Base	9.0-11.0	58-68	3 - 6

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

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

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

7. Auxiliary well control and monitoring equipment:

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

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be 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 10,124' TVD (deepest point of the well) is 155F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,317 psig (based on 12 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel
 - i. Breathing Apparatus
 1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.



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

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

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used



the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for State approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days.

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

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

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

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

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

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 1/2" production casing due to the tight clearance with 8 3/4" hole.

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy 3, LLC **OGRID:** 331595 **Date:** 5/13/2023

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

If Other, please describe: _____

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

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

IV. Central Delivery Point Name: Annex CTB [See 19.15.27.9(D)(1) NMAC]

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

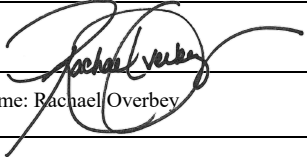
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Rachael Overbey
Title: Director Operations Planning & Regulatory
E-mail Address: roverbey@fmelle.com
Date: 5/13/2023
Phone: 720-414-7868
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

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

Well Name	API 14 Digit	ULSTR	Surface Location FTG	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Annex State Com 301H	TBD	M-36-19S-35E	250 FSL 630 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 501H	TBD	M-36-19S-35E	250 FSL 505 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 701H	TBD	M-36-19S-35E	250 FSL 605 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 801H	TBD	M-36-19S-35E	250 FSL 580 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 302H	TBD	N-36-19S-35E	250 FSL 1825 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 502H	TBD	N-36-19S-35E	250 FSL 1700 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 702H	TBD	N-36-19S-35E	250 FSL 1800 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 802H	TBD	N-36-19S-35E	250 FSL 1775 FWL	800 +/-	700 +/-	2500 +/-
Annex State Com 303H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 703H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 803H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 304H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 504H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 704H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-
Annex State Com 804H	TBD	TBD	TBD	800 +/-	700 +/-	2500 +/-

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

Well Name	API 14 Digit	Spud Date (Batch Drilling)	TD Reached Date	Completion Commencement Date	Initial Flowback Date	First Production Date
Annex State Com 301H	TBD	7/1/2023	9/19/2023	11/18/2023	11/28/2023	11/30/2023
Annex State Com 501H	TBD	7/3/2023	9/21/2023	11/20/2023	11/30/2023	12/2/2023
Annex State Com 701H	TBD	7/5/2023	9/23/2023	11/22/2023	12/2/2023	12/4/2023
Annex State Com 801H	TBD	7/7/2023	9/25/2023	11/24/2023	12/4/2023	12/6/2023
Annex State Com 302H	TBD	7/1/2023	9/19/2023	11/18/2023	11/28/2023	11/30/2023
Annex State Com 502H	TBD	7/3/2023	9/21/2023	11/20/2023	11/30/2023	12/2/2023
Annex State Com 702H	TBD	7/5/2023	9/23/2023	11/22/2023	12/2/2023	12/4/2023
Annex State Com 802H	TBD	7/7/2023	9/25/2023	11/24/2023	12/4/2023	12/6/2023
Annex State Com 303H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 703H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 803H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 304H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 504H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 704H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024
Annex State Com 804H	TBD	7/1/2024	9/19/2024	11/18/2024	11/28/2024	11/30/2024



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 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.

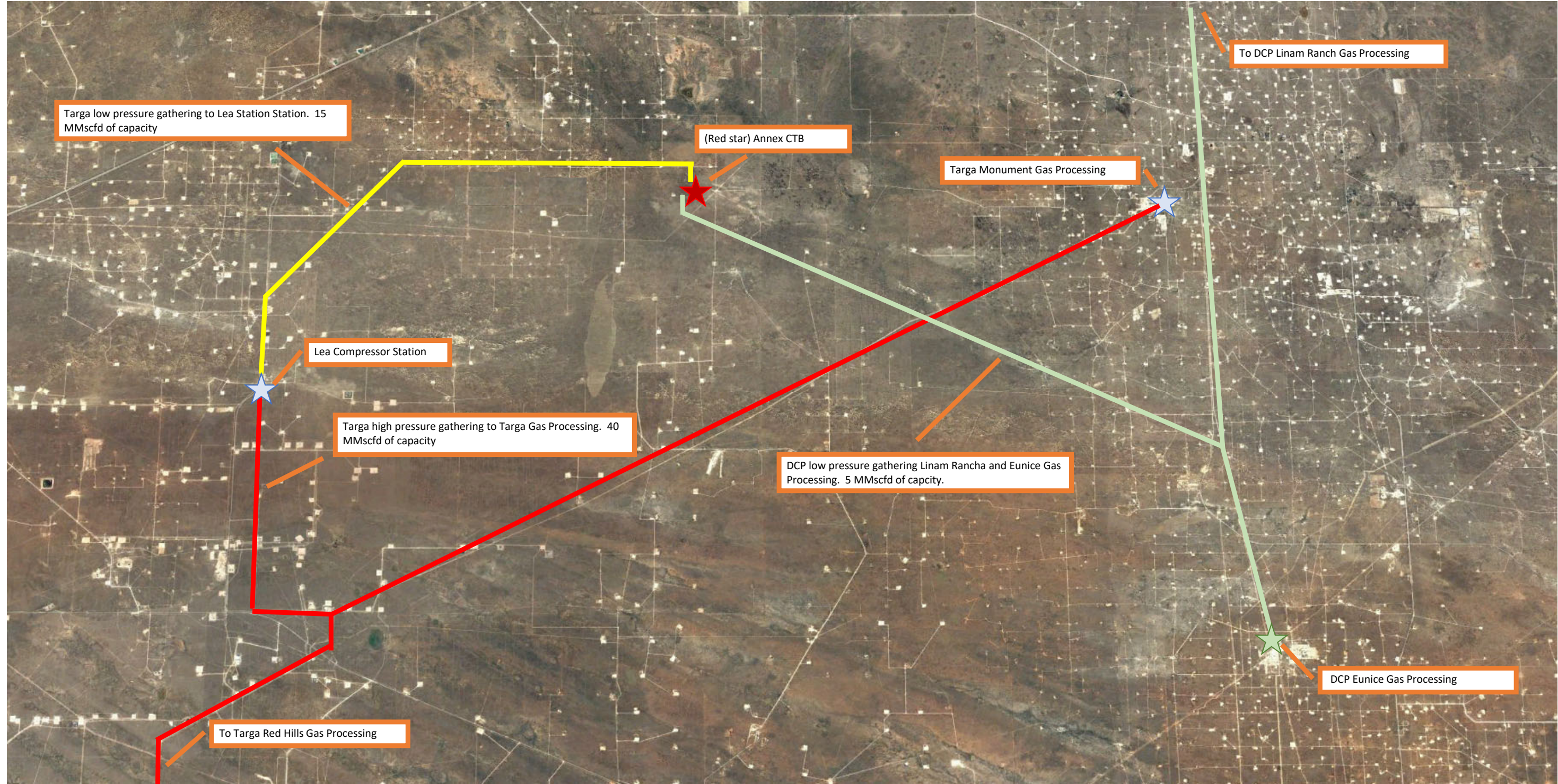
- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- *Drilling Operations:*
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 - 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:*



- 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.





Franklin Mountain Energy

Lea Co., NM (NAD-83)
Annex State Com Pads
Annex State Com 502H

OH

Plan: Plan #1

Standard Planning Report

10 May, 2023





Project: Lea Co., NM (NAD-83)
 Site: Annex State Com Pads
 Well: Annex State Com 502H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.610222
 Long: -103.413852
 GL: 3661.00
 KB: KB=30' @ 3691.00usft



WELL DETAILS: Annex State Com 502H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	586953.82	824467.08	32.610222	-103.413852

WELLBORE TARGET DETAILS (LAT/LONG)

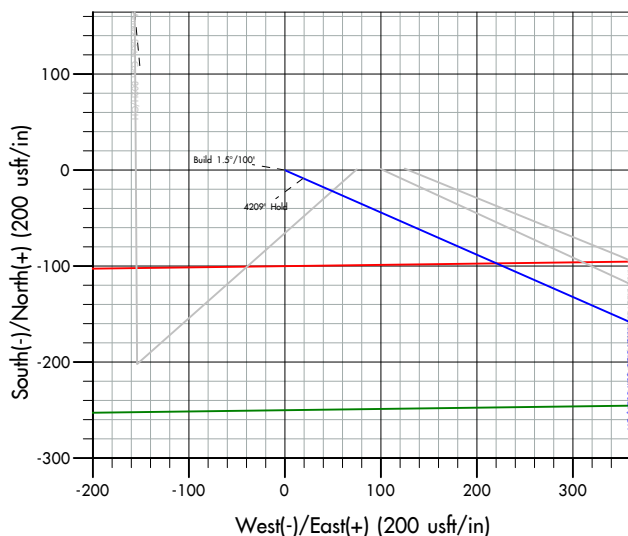
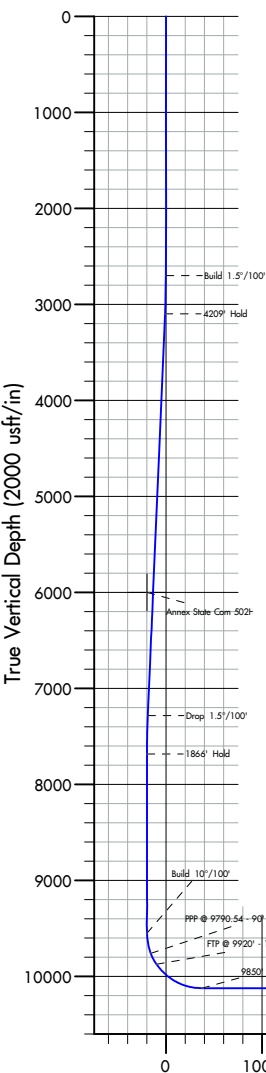
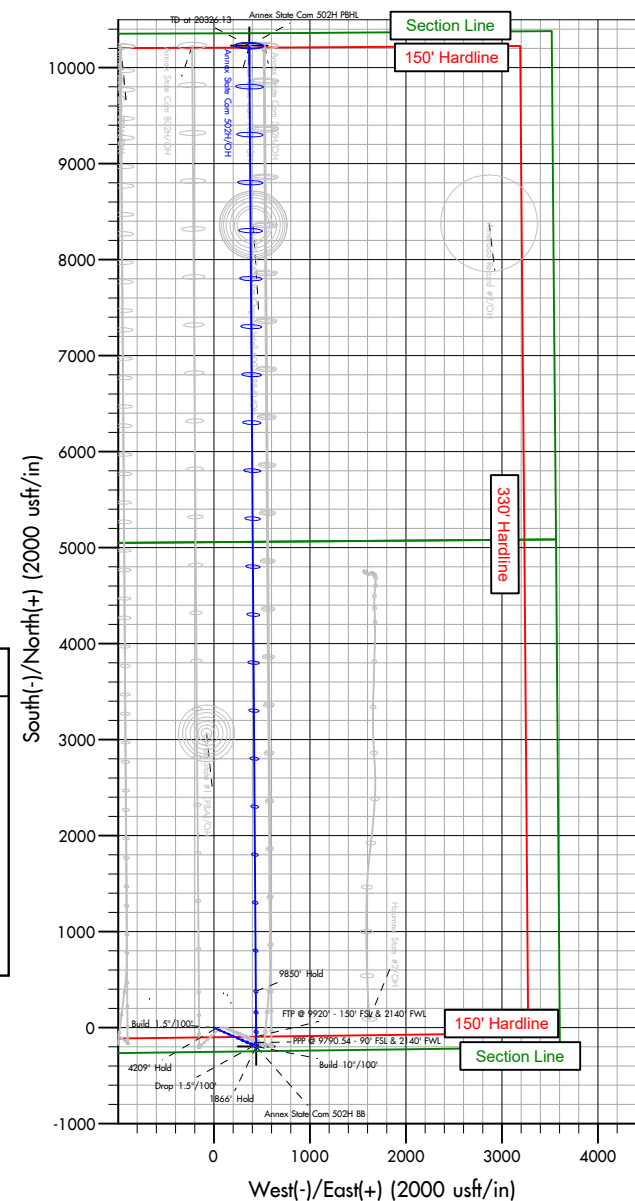
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Annex State Com 502H BB	6000.00	-194.20	441.13	586759.62	824908.21	Point
Annex State Com 502H PBHL	10124.00	10229.06	368.05	597182.88	824835.13	Point

SECTION DETAILS

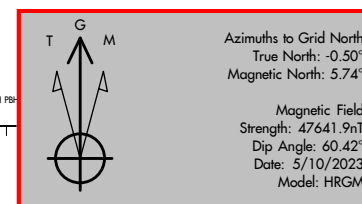
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
3100.11	6.00	113.76	3099.38	-8.44	19.16	1.50	113.76	-8.57	4209' Hold
7309.43	6.00	113.76	7285.62	-185.76	421.97	0.00	0.00	-188.71	Drop 1.5°/100'
7709.53	0.00	0.00	7685.00	-194.20	441.13	1.50	180.00	-197.27	1866' Hold
9575.58	0.00	0.00	9551.04	-194.20	441.13	0.00	0.00	-197.27	Build 10°/100'
10475.58	90.00	359.60	10124.00	378.74	437.11	10.00	359.60	375.68	9850' Hold
20326.13	90.00	359.60	10124.00	10229.06	368.05	0.00	0.00	10226.24	TD at 20326.13

FORMATION TOPS

TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1823.00	1823.00	Rustler
2087.00	2087.00	Salado
3239.00	3240.50	Base Salt
3509.00	3511.99	Yates
3955.00	3960.45	Seven Rivers
4654.00	4663.30	Queen
6006.00	6022.75	Delaware Mtn Group
7792.00	7816.53	Bone Spring Lime
9193.00	9217.53	First Bone Spring Sand
9448.00	9472.53	Second Bone Spring Carbonate
9761.00	9790.54	Second Bone Spring Sand
10124.00	10475.58	HZ Target at Landing



Vertical Section at 359.60° (2000 usft/in)



Azimuths to Grid North
 True North: -0.50°
 Magnetic North: 5.74°

Magnetic Field
 Strength: 47641.9nT
 Dip Angle: 60.42°
 Date: 5/10/2023
 Model: HRGM

Plan: Plan #1 (Annex State Com 502H/OH)

Created By: Dusty Mayer Date: 16:25, May 10 2023



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 502H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea Co., NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Annex State Com Pads		
Site Position:		Northing:	586,939.80 usft
From:	Map	Easting:	823,397.28 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.610209
		Longitude:	-103.417326

Well	Annex State Com 502H		
Well Position	+N/-S	0.00 usft	Northing: 586,953.82 usft
	+E/-W	0.00 usft	Easting: 824,467.08 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.50 °	Ground Level:	3,661.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	5/10/2023	6.24	60.42	47,641.91401153

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.60

Plan Survey Tool Program	Date	5/10/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,326.05 Plan #1 (OH)	MWD+HDGM	
			OWSG MWD + HRGM	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.11	6.00	113.76	3,099.38	-8.44	19.16	1.50	1.50	0.00	113.76	
7,309.43	6.00	113.76	7,285.62	-185.76	421.97	0.00	0.00	0.00	0.00	
7,709.53	0.00	0.00	7,685.00	-194.20	441.13	1.50	-1.50	0.00	180.00	
9,575.58	0.00	0.00	9,551.04	-194.20	441.13	0.00	0.00	0.00	0.00	
10,475.58	90.00	359.60	10,124.00	378.74	437.11	10.00	10.00	0.00	359.60	
20,326.14	90.00	359.60	10,124.00	10,229.06	368.05	0.00	0.00	0.00	0.00	Annex State Com 5



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 502H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,823.00	0.00	0.00	1,823.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,900.00	0.00	0.00	1,900.00	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
2,087.00	0.00	0.00	2,087.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1.5°/100'									
2,800.00	1.50	113.76	2,799.99	-0.53	1.20	-0.54	1.50	1.50	0.00
2,900.00	3.00	113.76	2,899.91	-2.11	4.79	-2.14	1.50	1.50	0.00
3,000.00	4.50	113.76	2,999.69	-4.74	10.78	-4.82	1.50	1.50	0.00
3,100.11	6.00	113.76	3,099.38	-8.44	19.16	-8.57	1.50	1.50	0.00
4209' Hold									
3,200.00	6.00	113.76	3,198.72	-12.64	28.72	-12.84	0.00	0.00	0.00
3,240.50	6.00	113.76	3,239.00	-14.35	32.60	-14.58	0.00	0.00	0.00
Base Salt									
3,300.00	6.00	113.76	3,298.17	-16.86	38.29	-17.12	0.00	0.00	0.00
3,400.00	6.00	113.76	3,397.63	-21.07	47.86	-21.40	0.00	0.00	0.00
3,500.00	6.00	113.76	3,497.08	-25.28	57.43	-25.68	0.00	0.00	0.00
3,511.99	6.00	113.76	3,509.00	-25.79	58.58	-26.20	0.00	0.00	0.00
Yates									
3,600.00	6.00	113.76	3,596.53	-29.49	67.00	-29.96	0.00	0.00	0.00
3,700.00	6.00	113.76	3,695.98	-33.71	76.57	-34.24	0.00	0.00	0.00
3,800.00	6.00	113.76	3,795.43	-37.92	86.14	-38.52	0.00	0.00	0.00
3,900.00	6.00	113.76	3,894.88	-42.13	95.71	-42.80	0.00	0.00	0.00
3,960.45	6.00	113.76	3,955.00	-44.68	101.49	-45.39	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 502H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Seven Rivers									
4,000.00	6.00	113.76	3,994.34	-46.35	105.28	-47.08	0.00	0.00	0.00
4,100.00	6.00	113.76	4,093.79	-50.56	114.85	-51.36	0.00	0.00	0.00
4,200.00	6.00	113.76	4,193.24	-54.77	124.41	-55.64	0.00	0.00	0.00
4,300.00	6.00	113.76	4,292.69	-58.98	133.98	-59.92	0.00	0.00	0.00
4,400.00	6.00	113.76	4,392.14	-63.20	143.55	-64.20	0.00	0.00	0.00
4,500.00	6.00	113.76	4,491.60	-67.41	153.12	-68.48	0.00	0.00	0.00
4,600.00	6.00	113.76	4,591.05	-71.62	162.69	-72.76	0.00	0.00	0.00
4,663.30	6.00	113.76	4,654.00	-74.29	168.75	-75.47	0.00	0.00	0.00
Queen									
4,700.00	6.00	113.76	4,690.50	-75.84	172.26	-77.04	0.00	0.00	0.00
4,800.00	6.00	113.76	4,789.95	-80.05	181.83	-81.32	0.00	0.00	0.00
4,900.00	6.00	113.76	4,889.40	-84.26	191.40	-85.60	0.00	0.00	0.00
5,000.00	6.00	113.76	4,988.86	-88.47	200.97	-89.87	0.00	0.00	0.00
5,100.00	6.00	113.76	5,088.31	-92.69	210.54	-94.15	0.00	0.00	0.00
5,200.00	6.00	113.76	5,187.76	-96.90	220.11	-98.43	0.00	0.00	0.00
5,300.00	6.00	113.76	5,287.21	-101.11	229.68	-102.71	0.00	0.00	0.00
5,400.00	6.00	113.76	5,386.66	-105.32	239.25	-106.99	0.00	0.00	0.00
5,500.00	6.00	113.76	5,486.11	-109.54	248.82	-111.27	0.00	0.00	0.00
5,600.00	6.00	113.76	5,585.57	-113.75	258.39	-115.55	0.00	0.00	0.00
5,700.00	6.00	113.76	5,685.02	-117.96	267.96	-119.83	0.00	0.00	0.00
5,800.00	6.00	113.76	5,784.47	-122.18	277.53	-124.11	0.00	0.00	0.00
5,900.00	6.00	113.76	5,883.92	-126.39	287.09	-128.39	0.00	0.00	0.00
6,000.00	6.00	113.76	5,983.37	-130.60	296.66	-132.67	0.00	0.00	0.00
6,022.75	6.00	113.76	6,006.00	-131.56	298.84	-133.64	0.00	0.00	0.00
Delaware Mtn Group									
6,100.00	6.00	113.76	6,082.83	-134.81	306.23	-136.95	0.00	0.00	0.00
6,200.00	6.00	113.76	6,182.28	-139.03	315.80	-141.23	0.00	0.00	0.00
6,300.00	6.00	113.76	6,281.73	-143.24	325.37	-145.51	0.00	0.00	0.00
6,400.00	6.00	113.76	6,381.18	-147.45	334.94	-149.79	0.00	0.00	0.00
6,500.00	6.00	113.76	6,480.63	-151.67	344.51	-154.07	0.00	0.00	0.00
6,600.00	6.00	113.76	6,580.09	-155.88	354.08	-158.35	0.00	0.00	0.00
6,700.00	6.00	113.76	6,679.54	-160.09	363.65	-162.63	0.00	0.00	0.00
6,800.00	6.00	113.76	6,778.99	-164.30	373.22	-166.91	0.00	0.00	0.00
6,900.00	6.00	113.76	6,878.44	-168.52	382.79	-171.18	0.00	0.00	0.00
7,000.00	6.00	113.76	6,977.89	-172.73	392.36	-175.46	0.00	0.00	0.00
7,100.00	6.00	113.76	7,077.35	-176.94	401.93	-179.74	0.00	0.00	0.00
7,200.00	6.00	113.76	7,176.80	-181.15	411.50	-184.02	0.00	0.00	0.00
7,309.43	6.00	113.76	7,285.63	-185.76	421.97	-188.71	0.00	0.00	0.00
Drop 1.5°/100'									
7,400.00	4.64	113.76	7,375.80	-189.15	429.66	-192.14	1.50	-1.50	0.00
7,500.00	3.14	113.76	7,475.57	-191.88	435.87	-194.92	1.50	-1.50	0.00
7,600.00	1.64	113.76	7,575.48	-193.57	439.69	-196.63	1.50	-1.50	0.00
7,709.53	0.00	0.00	7,685.00	-194.20	441.13	-197.27	1.50	-1.50	-103.86
1866' Hold									
7,800.00	0.00	0.00	7,775.47	-194.20	441.13	-197.27	0.00	0.00	0.00
7,816.53	0.00	0.00	7,792.00	-194.20	441.13	-197.27	0.00	0.00	0.00
Bone Spring Lime									
7,900.00	0.00	0.00	7,875.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,000.00	0.00	0.00	7,975.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,100.00	0.00	0.00	8,075.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,200.00	0.00	0.00	8,175.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,300.00	0.00	0.00	8,275.47	-194.20	441.13	-197.27	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 502H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,400.00	0.00	0.00	8,375.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,500.00	0.00	0.00	8,475.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,600.00	0.00	0.00	8,575.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,700.00	0.00	0.00	8,675.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,800.00	0.00	0.00	8,775.47	-194.20	441.13	-197.27	0.00	0.00	0.00
8,900.00	0.00	0.00	8,875.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,000.00	0.00	0.00	8,975.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,100.00	0.00	0.00	9,075.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,200.00	0.00	0.00	9,175.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,217.53	0.00	0.00	9,193.00	-194.20	441.13	-197.27	0.00	0.00	0.00
First Bone Spring Sand									
9,300.00	0.00	0.00	9,275.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,400.00	0.00	0.00	9,375.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,472.53	0.00	0.00	9,448.00	-194.20	441.13	-197.27	0.00	0.00	0.00
Second Bone Spring Carbonate									
9,500.00	0.00	0.00	9,475.47	-194.20	441.13	-197.27	0.00	0.00	0.00
9,575.58	0.00	0.00	9,551.05	-194.20	441.13	-197.27	0.00	0.00	0.00
Build 10°/100'									
9,600.00	2.44	359.60	9,575.46	-193.68	441.13	-196.75	10.00	10.00	0.00
9,650.00	7.44	359.60	9,625.26	-189.37	441.10	-192.45	10.00	10.00	0.00
9,700.00	12.44	359.60	9,674.49	-180.74	441.04	-183.82	10.00	10.00	0.00
9,750.00	17.44	359.60	9,722.78	-167.86	440.95	-170.93	10.00	10.00	0.00
9,790.54	21.50	359.60	9,761.00	-154.35	440.85	-157.42	10.00	10.00	0.00
PPP @ 9790.54 - 90' FSL & 2140' FWL - Second Bone Spring Sand									
9,800.00	22.44	359.60	9,769.77	-150.81	440.83	-153.88	10.00	10.00	0.00
9,850.00	27.44	359.60	9,815.09	-129.73	440.68	-132.80	10.00	10.00	0.00
9,900.00	32.44	359.60	9,858.41	-104.78	440.50	-107.85	10.00	10.00	0.00
9,920.00	34.44	359.60	9,875.09	-93.76	440.43	-96.83	10.00	10.00	0.00
FTP @ 9920' - 150' FSL & 2140' FWL									
9,950.00	37.44	359.60	9,899.38	-76.15	440.30	-79.23	10.00	10.00	0.00
10,000.00	42.44	359.60	9,937.70	-44.06	440.08	-47.14	10.00	10.00	0.00
10,050.00	47.44	359.60	9,973.08	-8.76	439.83	-11.83	10.00	10.00	0.00
10,100.00	52.44	359.60	10,005.25	29.50	439.56	26.43	10.00	10.00	0.00
10,150.00	57.44	359.60	10,033.96	70.42	439.27	67.35	10.00	10.00	0.00
10,200.00	62.44	359.60	10,059.00	113.68	438.97	110.61	10.00	10.00	0.00
10,250.00	67.44	359.60	10,080.17	158.96	438.65	155.89	10.00	10.00	0.00
10,300.00	72.44	359.60	10,097.31	205.91	438.32	202.84	10.00	10.00	0.00
10,350.00	77.44	359.60	10,110.29	254.17	437.99	251.11	10.00	10.00	0.00
10,400.00	82.44	359.60	10,119.02	303.39	437.64	300.33	10.00	10.00	0.00
10,450.00	87.44	359.60	10,123.43	353.18	437.29	350.12	10.00	10.00	0.00
10,475.58	90.00	359.60	10,124.00	378.74	437.11	375.68	10.00	10.00	0.00
9850' Hold - HZ Target at Landing									
10,500.00	90.00	359.60	10,124.00	403.17	436.94	400.11	0.00	0.00	0.00
10,600.00	90.00	359.60	10,124.00	503.16	436.24	500.11	0.00	0.00	0.00
10,700.00	90.00	359.60	10,124.00	603.16	435.54	600.11	0.00	0.00	0.00
10,800.00	90.00	359.60	10,124.00	703.16	434.84	700.11	0.00	0.00	0.00
10,900.00	90.00	359.60	10,124.00	803.16	434.14	800.11	0.00	0.00	0.00
11,000.00	90.00	359.60	10,124.00	903.15	433.44	900.11	0.00	0.00	0.00
11,100.00	90.00	359.60	10,124.00	1,003.15	432.74	1,000.11	0.00	0.00	0.00
11,200.00	90.00	359.60	10,124.00	1,103.15	432.03	1,100.11	0.00	0.00	0.00
11,300.00	90.00	359.60	10,124.00	1,203.15	431.33	1,200.11	0.00	0.00	0.00
11,400.00	90.00	359.60	10,124.00	1,303.14	430.63	1,300.11	0.00	0.00	0.00
11,500.00	90.00	359.60	10,124.00	1,403.14	429.93	1,400.11	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



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Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	90.00	359.60	10,124.00	1,503.14	429.23	1,500.11	0.00	0.00	0.00
11,700.00	90.00	359.60	10,124.00	1,603.14	428.53	1,600.11	0.00	0.00	0.00
11,800.00	90.00	359.60	10,124.00	1,703.13	427.83	1,700.11	0.00	0.00	0.00
11,900.00	90.00	359.60	10,124.00	1,803.13	427.13	1,800.11	0.00	0.00	0.00
12,000.00	90.00	359.60	10,124.00	1,903.13	426.43	1,900.11	0.00	0.00	0.00
12,100.00	90.00	359.60	10,124.00	2,003.13	425.72	2,000.11	0.00	0.00	0.00
12,200.00	90.00	359.60	10,124.00	2,103.13	425.02	2,100.11	0.00	0.00	0.00
12,300.00	90.00	359.60	10,124.00	2,203.12	424.32	2,200.11	0.00	0.00	0.00
12,400.00	90.00	359.60	10,124.00	2,303.12	423.62	2,300.11	0.00	0.00	0.00
12,500.00	90.00	359.60	10,124.00	2,403.12	422.92	2,400.11	0.00	0.00	0.00
12,600.00	90.00	359.60	10,124.00	2,503.12	422.22	2,500.11	0.00	0.00	0.00
12,700.00	90.00	359.60	10,124.00	2,603.11	421.52	2,600.11	0.00	0.00	0.00
12,800.00	90.00	359.60	10,124.00	2,703.11	420.82	2,700.11	0.00	0.00	0.00
12,900.00	90.00	359.60	10,124.00	2,803.11	420.12	2,800.11	0.00	0.00	0.00
13,000.00	90.00	359.60	10,124.00	2,903.11	419.41	2,900.11	0.00	0.00	0.00
13,100.00	90.00	359.60	10,124.00	3,003.10	418.71	3,000.11	0.00	0.00	0.00
13,200.00	90.00	359.60	10,124.00	3,103.10	418.01	3,100.11	0.00	0.00	0.00
13,300.00	90.00	359.60	10,124.00	3,203.10	417.31	3,200.11	0.00	0.00	0.00
13,400.00	90.00	359.60	10,124.00	3,303.10	416.61	3,300.11	0.00	0.00	0.00
13,500.00	90.00	359.60	10,124.00	3,403.09	415.91	3,400.11	0.00	0.00	0.00
13,600.00	90.00	359.60	10,124.00	3,503.09	415.21	3,500.11	0.00	0.00	0.00
13,700.00	90.00	359.60	10,124.00	3,603.09	414.51	3,600.11	0.00	0.00	0.00
13,800.00	90.00	359.60	10,124.00	3,703.09	413.81	3,700.11	0.00	0.00	0.00
13,900.00	90.00	359.60	10,124.00	3,803.08	413.10	3,800.11	0.00	0.00	0.00
14,000.00	90.00	359.60	10,124.00	3,903.08	412.40	3,900.11	0.00	0.00	0.00
14,100.00	90.00	359.60	10,124.00	4,003.08	411.70	4,000.11	0.00	0.00	0.00
14,200.00	90.00	359.60	10,124.00	4,103.08	411.00	4,100.11	0.00	0.00	0.00
14,300.00	90.00	359.60	10,124.00	4,203.07	410.30	4,200.11	0.00	0.00	0.00
14,400.00	90.00	359.60	10,124.00	4,303.07	409.60	4,300.11	0.00	0.00	0.00
14,500.00	90.00	359.60	10,124.00	4,403.07	408.90	4,400.11	0.00	0.00	0.00
14,600.00	90.00	359.60	10,124.00	4,503.07	408.20	4,500.11	0.00	0.00	0.00
14,700.00	90.00	359.60	10,124.00	4,603.06	407.50	4,600.11	0.00	0.00	0.00
14,800.00	90.00	359.60	10,124.00	4,703.06	406.79	4,700.11	0.00	0.00	0.00
14,900.00	90.00	359.60	10,124.00	4,803.06	406.09	4,800.11	0.00	0.00	0.00
15,000.00	90.00	359.60	10,124.00	4,903.06	405.39	4,900.11	0.00	0.00	0.00
15,100.00	90.00	359.60	10,124.00	5,003.05	404.69	5,000.11	0.00	0.00	0.00
15,200.00	90.00	359.60	10,124.00	5,103.05	403.99	5,100.11	0.00	0.00	0.00
15,300.00	90.00	359.60	10,124.00	5,203.05	403.29	5,200.11	0.00	0.00	0.00
15,400.00	90.00	359.60	10,124.00	5,303.05	402.59	5,300.11	0.00	0.00	0.00
15,500.00	90.00	359.60	10,124.00	5,403.04	401.89	5,400.11	0.00	0.00	0.00
15,600.00	90.00	359.60	10,124.00	5,503.04	401.19	5,500.11	0.00	0.00	0.00
15,700.00	90.00	359.60	10,124.00	5,603.04	400.48	5,600.11	0.00	0.00	0.00
15,800.00	90.00	359.60	10,124.00	5,703.04	399.78	5,700.11	0.00	0.00	0.00
15,900.00	90.00	359.60	10,124.00	5,803.03	399.08	5,800.11	0.00	0.00	0.00
16,000.00	90.00	359.60	10,124.00	5,903.03	398.38	5,900.11	0.00	0.00	0.00
16,100.00	90.00	359.60	10,124.00	6,003.03	397.68	6,000.11	0.00	0.00	0.00
16,200.00	90.00	359.60	10,124.00	6,103.03	396.98	6,100.11	0.00	0.00	0.00
16,300.00	90.00	359.60	10,124.00	6,203.02	396.28	6,200.11	0.00	0.00	0.00
16,400.00	90.00	359.60	10,124.00	6,303.02	395.58	6,300.11	0.00	0.00	0.00
16,500.00	90.00	359.60	10,124.00	6,403.02	394.88	6,400.11	0.00	0.00	0.00
16,600.00	90.00	359.60	10,124.00	6,503.02	394.17	6,500.11	0.00	0.00	0.00
16,700.00	90.00	359.60	10,124.00	6,603.01	393.47	6,600.11	0.00	0.00	0.00
16,800.00	90.00	359.60	10,124.00	6,703.01	392.77	6,700.11	0.00	0.00	0.00
16,900.00	90.00	359.60	10,124.00	6,803.01	392.07	6,800.11	0.00	0.00	0.00



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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,000.00	90.00	359.60	10,124.00	6,903.01	391.37	6,900.11	0.00	0.00	0.00
17,100.00	90.00	359.60	10,124.00	7,003.00	390.67	7,000.11	0.00	0.00	0.00
17,200.00	90.00	359.60	10,124.00	7,103.00	389.97	7,100.11	0.00	0.00	0.00
17,300.00	90.00	359.60	10,124.00	7,203.00	389.27	7,200.11	0.00	0.00	0.00
17,400.00	90.00	359.60	10,124.00	7,303.00	388.57	7,300.11	0.00	0.00	0.00
17,500.00	90.00	359.60	10,124.00	7,402.99	387.86	7,400.11	0.00	0.00	0.00
17,600.00	90.00	359.60	10,124.00	7,502.99	387.16	7,500.11	0.00	0.00	0.00
17,700.00	90.00	359.60	10,124.00	7,602.99	386.46	7,600.11	0.00	0.00	0.00
17,800.00	90.00	359.60	10,124.00	7,702.99	385.76	7,700.11	0.00	0.00	0.00
17,900.00	90.00	359.60	10,124.00	7,802.99	385.06	7,800.11	0.00	0.00	0.00
18,000.00	90.00	359.60	10,124.00	7,902.98	384.36	7,900.11	0.00	0.00	0.00
18,100.00	90.00	359.60	10,124.00	8,002.98	383.66	8,000.11	0.00	0.00	0.00
18,200.00	90.00	359.60	10,124.00	8,102.98	382.96	8,100.11	0.00	0.00	0.00
18,300.00	90.00	359.60	10,124.00	8,202.98	382.26	8,200.11	0.00	0.00	0.00
18,400.00	90.00	359.60	10,124.00	8,302.97	381.55	8,300.11	0.00	0.00	0.00
18,500.00	90.00	359.60	10,124.00	8,402.97	380.85	8,400.11	0.00	0.00	0.00
18,600.00	90.00	359.60	10,124.00	8,502.97	380.15	8,500.11	0.00	0.00	0.00
18,700.00	90.00	359.60	10,124.00	8,602.97	379.45	8,600.11	0.00	0.00	0.00
18,800.00	90.00	359.60	10,124.00	8,702.96	378.75	8,700.11	0.00	0.00	0.00
18,900.00	90.00	359.60	10,124.00	8,802.96	378.05	8,800.11	0.00	0.00	0.00
19,000.00	90.00	359.60	10,124.00	8,902.96	377.35	8,900.11	0.00	0.00	0.00
19,100.00	90.00	359.60	10,124.00	9,002.96	376.65	9,000.11	0.00	0.00	0.00
19,200.00	90.00	359.60	10,124.00	9,102.95	375.95	9,100.11	0.00	0.00	0.00
19,300.00	90.00	359.60	10,124.00	9,202.95	375.24	9,200.11	0.00	0.00	0.00
19,400.00	90.00	359.60	10,124.00	9,302.95	374.54	9,300.11	0.00	0.00	0.00
19,500.00	90.00	359.60	10,124.00	9,402.95	373.84	9,400.11	0.00	0.00	0.00
19,600.00	90.00	359.60	10,124.00	9,502.94	373.14	9,500.11	0.00	0.00	0.00
19,700.00	90.00	359.60	10,124.00	9,602.94	372.44	9,600.11	0.00	0.00	0.00
19,800.00	90.00	359.60	10,124.00	9,702.94	371.74	9,700.11	0.00	0.00	0.00
19,900.00	90.00	359.60	10,124.00	9,802.94	371.04	9,800.11	0.00	0.00	0.00
20,000.00	90.00	359.60	10,124.00	9,902.93	370.34	9,900.11	0.00	0.00	0.00
20,100.00	90.00	359.60	10,124.00	10,002.93	369.64	10,000.11	0.00	0.00	0.00
20,200.00	90.00	359.60	10,124.00	10,102.93	368.93	10,100.11	0.00	0.00	0.00
20,300.00	90.00	359.60	10,124.00	10,202.93	368.23	10,200.11	0.00	0.00	0.00
20,326.13	90.00	359.60	10,124.00	10,229.06	368.05	10,226.24	0.00	0.00	0.00
TD at 20326.13									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Annex State Com 502 - hit/miss target - Shape - Point	0.00	0.00	6,000.00	-194.20	441.13	586,759.62	824,908.21	32.609678	-103.412425
- plan misses target center by 155.24usft at 6033.04usft MD (6016.23 TVD, -131.99 N, 299.83 E)									
Annex State Com 502 - plan hits target center - Point	0.00	0.00	10,124.00	10,229.06	368.05	597,182.88	824,835.13	32.638326	-103.412369



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 502H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3691.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3691.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
30.00	30.00	Cenozoic Alluvium (surface)			
1,823.00	1,823.00	Rustler			
2,087.00	2,087.00	Salado			
3,240.50	3,239.00	Base Salt			
3,511.99	3,509.00	Yates			
3,960.45	3,955.00	Seven Rivers			
4,663.30	4,654.00	Queen			
6,022.75	6,006.00	Delaware Mtn Group			
7,816.53	7,792.00	Bone Spring Lime			
9,217.53	9,193.00	First Bone Spring Sand			
9,472.53	9,448.00	Second Bone Spring Carbonate			
9,790.54	9,761.00	Second Bone Spring Sand			
10,475.58	10,124.00	HZ Target at Landing			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700.00	2,700.00	0.00	0.00	Build 1.5°/100'
3,100.11	3,099.38	-8.44	19.16	4209' Hold
7,309.43	7,285.63	-185.76	421.97	Drop 1.5°/100'
7,709.53	7,685.00	-194.20	441.13	1866' Hold
9,575.58	9,551.05	-194.20	441.13	Build 10°/100'
9,790.54	9,761.00	-154.35	440.85	PPP @ 9790.54 - 90' FSL & 2140' FWL
9,920.00	9,875.09	-93.76	440.43	FTP @ 9920' - 150' FSL & 2140' FWL
10,475.58	10,124.00	378.75	437.11	9850' Hold
20,326.13	10,124.00	10,229.06	368.05	TD at 20326.13



Franklin Mountain Energy

Lea Co., NM (NAD-83)
Annex State Com Pads
Annex State Com 502H

OH
Plan #1

Anticollision Report

10 May, 2023





Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 1,000.00usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	5/10/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,326.05	Plan #1 (OH)	MWD+HDGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Annex State Com Offsets						
30-025-27626 Pre-Ongard Well #001 (P&A) - OH - OH	18,461.98	10,112.55	28.91	-361.57	0.074	Collision Risk Procedures Out of range
Amerada Record #2 - OH - OH						
Coyote State #1 (P&A) - OH - OH	13,167.19	10,110.46	495.59	228.52	1.856	Collision Risk Procedures Out of range
Haumea State #2 - OH - OH						Out of range
King Eider 12 Fed Com 501H - OH - OH						
Annex State Com Pads						
Annex State Com 301H - OH - Plan #1						Out of range
Annex State Com 302H - OH - Plan #1	2,000.00	2,000.00	124.98	113.86	11.240	CC, ES
Annex State Com 302H - OH - Plan #1	8,704.45	8,714.10	159.65	118.42	3.872	SF
Annex State Com 501H - OH - Plan #1						Out of range
Annex State Com 701H - OH - Plan #1						Out of range
Annex State Com 702H - OH - Plan #1	9,599.26	9,601.93	80.01	38.44	1.925	Collision Risk Procedures
Annex State Com 702H - OH - Plan #1	9,650.00	9,652.47	80.12	38.03	1.904	Collision Risk Procedures
Annex State Com 702H - OH - Plan #1	9,700.00	9,701.70	81.05	38.17	1.890	Collision Risk Procedures
Annex State Com 801H - OH - Plan #1						Out of range
Annex State Com 802H - OH - Plan #1	2,867.31	2,869.01	48.04	34.56	3.563	CC
Annex State Com 802H - OH - Plan #1	2,900.00	2,901.41	48.13	34.52	3.537	ES, SF

Offset Design: Annex State Com Offsets - 30-025-27626 Pre-Ongard Well #001 (P&A) - OH - OH												
Survey Program: 250-INC-ONLY												
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,500.00	10,124.00	10,113.88	10,112.30	110.00	266.92	92.58	8,365.20	410.03	962.46	674.58	287.88	3.343
17,600.00	10,124.00	10,113.73	10,112.16	111.42	266.91	92.29	8,365.20	410.03	862.51	574.53	287.98	2.995
17,700.00	10,124.00	10,113.59	10,112.01	112.84	266.91	92.01	8,365.20	410.03	762.57	474.48	288.10	2.647
17,800.00	10,124.00	10,113.45	10,111.87	114.26	266.91	91.73	8,365.20	410.03	662.66	374.43	288.23	2.299
17,900.00	10,124.00	10,113.31	10,111.73	115.68	266.90	91.45	8,365.20	410.03	562.77	274.37	288.40	1.951 Collision Risk Procedures Req.
18,000.00	10,124.00	10,113.17	10,111.59	117.10	266.90	91.18	8,365.20	410.03	462.93	174.28	288.65	1.604 Collision Risk Procedures Req.
18,100.00	10,124.00	10,113.03	10,111.46	118.52	266.90	90.91	8,365.20	410.03	363.18	74.05	289.13	1.256 Collision Risk Procedures Req.
18,200.00	10,124.00	10,112.90	10,111.32	119.94	266.90	90.64	8,365.20	410.03	263.62	-26.70	290.32	0.908 Collision Risk Procedures Req.
18,300.00	10,124.00	10,112.76	10,111.19	121.36	266.89	90.38	8,365.20	410.03	164.59	-129.79	294.37	0.559 Collision Risk Procedures Req.

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Offsets - 30-025-27626 Pre-Ongard Well #001 (P&A) - OH - OH

Survey Program: Reference	250-INC-ONLY							Rule Assigned:				Offset Well Error: 0.00 usft		
	Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,400.00	10,124.00	10,112.63	10,111.06	122.79	266.89	90.12	8,365.20	410.03	68.43	-250.28	318.72	0.215	Collision Risk Procedures Req.	
18,461.98	10,124.00	10,112.55	10,110.98	123.67	266.89	89.96	8,365.20	410.03	28.91	-361.57	390.48	0.074	Collision Risk Procedures Req., CC	
18,500.00	10,124.00	10,112.50	10,110.93	124.21	266.89	89.86	8,365.20	410.03	47.72	-299.89	347.62	0.137	Collision Risk Procedures Req.	
18,600.00	10,124.00	10,112.38	10,110.80	125.64	266.88	89.61	8,365.20	410.03	140.97	-163.20	304.17	0.463	Collision Risk Procedures Req.	
18,700.00	10,124.00	10,112.25	10,110.68	127.06	266.88	89.36	8,365.20	410.03	239.72	-57.04	296.76	0.808	Collision Risk Procedures Req.	
18,800.00	10,124.00	10,112.12	10,110.55	128.49	266.88	89.11	8,365.20	410.03	339.21	44.95	294.26	1.153	Collision Risk Procedures Req.	
18,900.00	10,124.00	10,112.00	10,110.43	129.91	266.88	88.87	8,365.20	410.03	438.93	145.78	293.14	1.497	Collision Risk Procedures Req.	
19,000.00	10,124.00	10,111.88	10,110.31	131.34	266.87	88.63	8,365.20	410.03	538.75	246.18	292.57	1.841	Collision Risk Procedures Req.	
19,100.00	10,124.00	10,111.76	10,110.19	132.77	266.87	88.39	8,365.20	410.03	638.63	346.37	292.26	2.185		
19,200.00	10,124.00	10,111.64	10,110.07	134.19	266.87	88.16	8,365.20	410.03	738.54	446.45	292.09	2.528		
19,300.00	10,124.00	10,111.53	10,109.95	135.62	266.86	87.92	8,365.20	410.03	838.47	546.46	292.01	2.871		
19,400.00	10,124.00	10,111.41	10,109.84	137.05	266.86	87.70	8,365.20	410.03	938.42	646.43	291.99	3.214		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Offsets - Coyote State #1 (P&A) - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 282-INC-ONLY												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,300.00	10,124.00	10,110.46	10,109.00	39.42	217.10	-90.00	3,066.82	-77.33	998.81	754.36	244.45	4.086	
12,400.00	10,124.00	10,110.46	10,109.00	40.61	217.10	-90.00	3,066.82	-77.33	913.34	667.03	246.31	3.708	
12,500.00	10,124.00	10,110.46	10,109.00	41.83	217.10	-90.00	3,066.82	-77.33	831.11	582.59	248.52	3.344	
12,600.00	10,124.00	10,110.46	10,109.00	43.05	217.10	-90.00	3,066.82	-77.33	753.20	502.07	251.13	2.999	
12,700.00	10,124.00	10,110.46	10,109.00	44.29	217.10	-90.00	3,066.82	-77.33	681.08	426.92	254.16	2.680	
12,800.00	10,124.00	10,110.46	10,109.00	45.55	217.10	-90.00	3,066.82	-77.33	616.79	359.25	257.55	2.395	
12,900.00	10,124.00	10,110.46	10,109.00	46.81	217.10	-90.00	3,066.82	-77.33	563.03	301.96	261.07	2.157	
13,000.00	10,124.00	10,110.46	10,109.00	48.08	217.10	-90.00	3,066.82	-77.33	523.03	258.77	264.26	1.979	Collision Risk Procedures Req.
13,100.00	10,124.00	10,110.46	10,109.00	49.37	217.10	-90.00	3,066.82	-77.33	500.12	233.66	266.46	1.877	Collision Risk Procedures Req.
13,167.19	10,124.00	10,110.46	10,109.00	50.24	217.10	-90.00	3,066.82	-77.33	495.59	228.52	267.07	1.856	Collision Risk Procedures Req., CC
13,200.00	10,124.00	10,110.46	10,109.00	50.66	217.10	-90.00	3,066.82	-77.33	496.67	229.60	267.07	1.860	Collision Risk Procedures Req.
13,300.00	10,124.00	10,110.46	10,109.00	51.96	217.10	-90.00	3,066.82	-77.33	513.08	247.12	265.96	1.929	Collision Risk Procedures Req.
13,400.00	10,124.00	10,110.46	10,109.00	53.27	217.10	-90.00	3,066.82	-77.33	547.55	284.01	263.53	2.078	
13,500.00	10,124.00	10,110.46	10,109.00	54.59	217.10	-90.00	3,066.82	-77.33	596.97	336.49	260.48	2.292	
13,600.00	10,124.00	10,110.46	10,109.00	55.91	217.10	-90.00	3,066.82	-77.33	657.98	400.64	257.33	2.557	
13,700.00	10,124.00	10,110.46	10,109.00	57.24	217.10	-90.00	3,066.82	-77.33	727.66	473.25	254.42	2.860	
13,800.00	10,124.00	10,110.46	10,109.00	58.58	217.10	-90.00	3,066.82	-77.33	803.78	551.92	251.85	3.191	
13,900.00	10,124.00	10,110.46	10,109.00	59.92	217.10	-90.00	3,066.82	-77.33	884.66	634.99	249.67	3.543	
14,000.00	10,124.00	10,110.46	10,109.00	61.26	217.10	-90.00	3,066.82	-77.33	969.11	721.29	247.83	3.910	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 302H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	89.25	1.64	124.97	124.98				
100.00	100.00	100.00	100.00	0.79	0.79	89.25	1.64	124.97	124.98	123.40	1.58	78.894	
200.00	200.00	200.00	200.00	1.45	1.45	89.25	1.64	124.97	124.98	122.08	2.90	43.108	
300.00	300.00	300.00	300.00	1.89	1.89	89.25	1.64	124.97	124.98	121.19	3.79	32.987	
400.00	400.00	400.00	400.00	2.26	2.26	89.25	1.64	124.97	124.98	120.47	4.51	27.700	
500.00	500.00	500.00	500.00	2.57	2.57	89.25	1.64	124.97	124.98	119.84	5.14	24.318	
600.00	600.00	600.00	600.00	2.85	2.85	89.25	1.64	124.97	124.98	119.28	5.70	21.915	
700.00	700.00	700.00	700.00	3.11	3.11	89.25	1.64	124.97	124.98	118.76	6.22	20.094	
800.00	800.00	800.00	800.00	3.35	3.35	89.25	1.64	124.97	124.98	118.28	6.70	18.652	
900.00	900.00	900.00	900.00	3.58	3.58	89.25	1.64	124.97	124.98	117.83	7.15	17.472	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.25	1.64	124.97	124.98	117.40	7.58	16.483	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.25	1.64	124.97	124.98	116.99	7.99	15.639	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.25	1.64	124.97	124.98	116.60	8.38	14.907	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.25	1.64	124.97	124.98	116.22	8.76	14.264	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.25	1.64	124.97	124.98	115.85	9.13	13.693	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.25	1.64	124.97	124.98	115.50	9.48	13.181	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.25	1.64	124.97	124.98	115.16	9.83	12.720	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.25	1.64	124.97	124.98	114.82	10.16	12.301	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.25	1.64	124.97	124.98	114.49	10.49	11.917	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.25	1.64	124.97	124.98	114.17	10.81	11.565	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.25	1.64	124.97	124.98	113.86	11.12	11.240 CC, ES	
2,100.00	2,100.00	2,097.05	2,097.04	5.71	5.73	89.47	1.18	126.11	126.15	114.72	11.43	11.033	
2,200.00	2,200.00	2,193.98	2,193.90	5.86	5.89	90.10	-0.22	129.53	129.67	117.94	11.73	11.051	
2,300.00	2,300.00	2,290.66	2,290.38	6.01	6.07	91.07	-2.53	135.21	135.57	123.53	12.04	11.259	
2,400.00	2,400.00	2,386.97	2,386.31	6.16	6.27	92.30	-5.75	143.11	143.88	131.52	12.36	11.641	
2,500.00	2,500.00	2,482.78	2,481.50	6.30	6.48	93.68	-9.85	153.19	154.62	141.93	12.69	12.183	
2,600.00	2,600.00	2,579.87	2,577.69	6.44	6.65	95.12	-14.82	165.40	167.55	154.57	12.98	12.904	
2,700.00	2,700.00	2,678.90	2,675.75	6.58	6.88	96.41	-20.02	178.16	180.91	167.56	13.35	13.551	
2,800.00	2,799.99	2,778.10	2,773.98	6.73	7.13	-16.29	-25.23	190.94	193.11	179.35	13.75	14.042	
2,900.00	2,899.91	2,877.59	2,872.51	6.87	7.40	-15.57	-30.45	203.77	202.84	188.68	14.16	14.325	
3,000.00	2,999.69	2,977.31	2,971.26	7.03	7.69	-15.10	-35.68	216.62	210.09	195.49	14.60	14.390	
3,100.11	3,099.38	3,077.30	3,070.28	7.20	7.99	-14.85	-40.93	229.51	214.82	199.75	15.07	14.254	
3,200.00	3,198.72	3,177.13	3,169.14	7.37	8.30	-14.71	-46.17	242.37	218.28	202.73	15.55	14.040	
3,300.00	3,298.17	3,277.07	3,268.10	7.56	8.62	-14.58	-51.41	255.25	221.74	205.69	16.05	13.814	
3,400.00	3,397.63	3,377.01	3,367.07	7.76	8.95	-14.45	-56.66	268.13	225.21	208.63	16.58	13.581	
3,500.00	3,497.08	3,476.95	3,466.04	7.98	9.29	-14.33	-61.90	281.01	228.68	211.54	17.14	13.345	
3,600.00	3,596.53	3,576.89	3,565.00	8.21	9.64	-14.21	-67.15	293.89	232.15	214.44	17.71	13.107	
3,700.00	3,695.98	3,676.83	3,663.97	8.45	9.99	-14.10	-72.39	306.77	235.62	217.31	18.31	12.870	
3,800.00	3,795.43	3,776.77	3,762.94	8.71	10.35	-13.98	-77.64	319.65	239.09	220.17	18.92	12.636	
3,900.00	3,894.88	3,876.70	3,861.90	8.98	10.72	-13.87	-82.88	332.53	242.56	223.01	19.55	12.407	
4,000.00	3,994.34	3,976.64	3,960.87	9.25	11.09	-13.77	-88.13	345.41	246.03	225.84	20.19	12.183	
4,100.00	4,093.79	4,076.58	4,059.84	9.54	11.46	-13.66	-93.37	358.29	249.50	228.65	20.85	11.965	
4,200.00	4,193.24	4,176.52	4,158.80	9.84	11.84	-13.56	-98.62	371.17	252.98	231.46	21.52	11.754	
4,300.00	4,292.69	4,276.46	4,257.77	10.14	12.23	-13.47	-103.86	384.05	256.45	234.25	22.20	11.549	
4,400.00	4,392.14	4,376.40	4,356.73	10.45	12.61	-13.37	-109.11	396.93	259.93	237.03	22.90	11.352	
4,500.00	4,491.60	4,476.34	4,455.70	10.76	13.00	-13.28	-114.35	409.81	263.41	239.81	23.60	11.162	
4,600.00	4,591.05	4,576.28	4,554.67	11.09	13.39	-13.19	-119.60	422.69	266.88	242.57	24.31	10.979	
4,700.00	4,690.50	4,676.21	4,653.63	11.41	13.79	-13.10	-124.84	435.57	270.36	245.33	25.03	10.803	
4,800.00	4,789.95	4,776.15	4,752.60	11.75	14.18	-13.01	-130.09	448.45	273.84	248.09	25.75	10.634	
4,900.00	4,889.40	4,876.09	4,851.57	12.08	14.58	-12.93	-135.33	461.33	277.32	250.83	26.48	10.471	
5,000.00	4,988.86	4,976.03	4,950.53	12.42	14.98	-12.85	-140.58	474.22	280.80	253.57	27.22	10.315	
5,100.00	5,088.31	5,075.97	5,049.50	12.77	15.38	-12.77	-145.82	487.10	284.28	256.31	27.97	10.165	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 302H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,187.76	5,175.91	5,148.46	13.12	15.79	-12.69	-151.07	499.98	287.76	259.04	28.72	10.021	
5,300.00	5,287.21	5,275.85	5,247.43	13.47	16.19	-12.62	-156.31	512.86	291.24	261.77	29.47	9.882	
5,400.00	5,386.66	5,375.78	5,346.40	13.82	16.60	-12.54	-161.56	525.74	294.72	264.49	30.23	9.750	
5,500.00	5,486.11	5,475.72	5,445.36	14.18	17.01	-12.47	-166.80	538.62	298.20	267.21	30.99	9.622	
5,600.00	5,585.57	5,575.66	5,544.33	14.54	17.42	-12.40	-172.05	551.50	301.68	269.92	31.76	9.499	
5,700.00	5,685.02	5,675.60	5,643.30	14.90	17.82	-12.33	-177.29	564.38	305.16	272.64	32.52	9.382	
5,800.00	5,784.47	5,782.82	5,749.62	15.26	18.29	-12.30	-182.50	577.18	307.65	274.29	33.36	9.223	
5,900.00	5,883.92	5,891.41	5,857.65	15.63	18.72	-12.37	-186.65	587.35	307.37	273.23	34.14	9.004	
6,000.00	5,983.37	5,999.90	5,965.84	16.00	19.12	-12.55	-189.63	594.67	304.30	269.45	34.85	8.731	
6,100.00	6,082.83	6,108.10	6,073.93	16.37	19.48	-12.85	-191.44	599.14	298.46	262.96	35.50	8.407	
6,200.00	6,182.28	6,215.84	6,181.66	16.74	19.74	-13.28	-192.11	600.76	289.86	253.84	36.02	8.047	
6,300.00	6,281.73	6,315.91	6,281.73	17.11	19.78	-13.77	-192.11	600.77	279.70	243.32	36.38	7.688	
6,400.00	6,381.18	6,415.37	6,381.18	17.49	19.81	-14.30	-192.11	600.77	269.55	232.81	36.74	7.337	
6,500.00	6,480.63	6,514.82	6,480.63	17.86	19.85	-14.87	-192.11	600.77	259.43	222.34	37.10	6.994	
6,600.00	6,580.09	6,614.27	6,580.09	18.24	19.89	-15.49	-192.11	600.77	249.34	211.89	37.44	6.659	
6,700.00	6,679.54	6,713.72	6,679.54	18.62	19.93	-16.15	-192.11	600.77	239.27	201.49	37.79	6.332	
6,800.00	6,778.99	6,813.17	6,778.99	19.00	19.97	-16.88	-192.11	600.77	229.24	191.13	38.12	6.014	
6,900.00	6,878.44	6,912.63	6,878.44	19.38	20.01	-17.67	-192.11	600.77	219.25	180.82	38.44	5.704	
7,000.00	6,977.89	7,012.08	6,977.89	19.76	20.05	-18.54	-192.11	600.77	209.31	170.57	38.74	5.403	
7,100.00	7,077.35	7,111.53	7,077.35	20.14	20.09	-19.50	-192.11	600.77	199.42	160.39	39.03	5.109	
7,200.00	7,176.80	7,210.98	7,176.80	20.53	20.13	-20.55	-192.11	600.77	189.59	150.29	39.30	4.825	
7,309.43	7,285.62	7,319.81	7,285.62	20.95	20.18	-21.84	-192.11	600.77	178.91	139.35	39.56	4.522	
7,400.00	7,375.80	7,409.99	7,375.80	21.29	20.21	-22.84	-192.11	600.77	171.14	131.38	39.76	4.304	
7,500.00	7,475.57	7,509.76	7,475.57	21.65	20.26	-23.71	-192.11	600.77	164.90	124.91	39.99	4.123	
7,600.00	7,575.48	7,609.67	7,575.48	21.97	20.30	-24.29	-192.11	600.77	161.08	120.85	40.23	4.004	
7,709.53	7,685.00	7,719.18	7,685.00	22.16	20.34	89.25	-192.11	600.77	159.65	119.24	40.41	3.951	
7,800.00	7,775.47	7,809.65	7,775.47	22.19	20.38	89.25	-192.11	600.77	159.65	119.17	40.48	3.944	
7,900.00	7,875.47	7,909.65	7,875.47	22.22	20.43	89.25	-192.11	600.77	159.65	119.09	40.56	3.936	
8,000.00	7,975.47	8,009.65	7,975.47	22.26	20.47	89.25	-192.11	600.77	159.65	119.01	40.65	3.928	
8,100.00	8,075.47	8,109.65	8,075.47	22.30	20.51	89.25	-192.11	600.77	159.65	118.93	40.73	3.920	
8,200.00	8,175.47	8,209.65	8,175.47	22.33	20.55	89.25	-192.11	600.77	159.65	118.84	40.81	3.912	
8,300.00	8,275.47	8,309.65	8,275.47	22.37	20.60	89.25	-192.11	600.77	159.65	118.76	40.89	3.904	
8,400.00	8,375.47	8,409.65	8,375.47	22.41	20.64	89.25	-192.11	600.77	159.65	118.67	40.98	3.896	
8,500.00	8,475.47	8,509.65	8,475.47	22.44	20.69	89.25	-192.11	600.77	159.65	118.59	41.06	3.888	
8,600.00	8,575.47	8,609.65	8,575.47	22.48	20.73	89.25	-192.11	600.77	159.65	118.51	41.15	3.880	
8,700.00	8,675.47	8,709.65	8,675.47	22.52	20.77	89.25	-192.11	600.77	159.65	118.42	41.23	3.872	
8,704.45	8,679.92	8,714.10	8,679.91	22.52	20.77	89.25	-192.10	600.77	159.65	118.42	41.23	3.872 SF	
8,800.00	8,775.47	8,808.54	8,773.89	22.56	20.71	86.30	-183.87	600.71	159.92	119.12	40.80	3.920	
8,900.00	8,875.47	8,901.94	8,864.26	22.59	20.61	78.12	-160.66	600.55	163.30	123.93	39.36	4.149	
9,000.00	8,975.47	8,985.95	8,941.36	22.63	20.52	67.27	-127.50	600.32	175.93	138.82	37.11	4.741	
9,100.00	9,075.47	9,058.91	9,003.78	22.67	20.45	56.70	-89.82	600.06	203.20	168.32	34.89	5.824	
9,200.00	9,175.47	9,120.95	9,052.73	22.71	20.41	48.08	-51.75	599.79	246.03	212.50	33.52	7.339	
9,300.00	9,275.47	9,173.19	9,090.56	22.75	20.40	41.60	-15.75	599.54	301.88	268.83	33.04	9.135	
9,400.00	9,375.47	9,217.11	9,119.71	22.79	20.40	36.82	17.08	599.31	367.52	334.42	33.10	11.102	
9,500.00	9,475.47	9,250.00	9,139.85	22.83	20.41	33.66	43.07	599.13	440.34	406.87	33.47	13.157	
9,575.58	9,551.04	9,278.31	9,155.97	22.85	20.43	31.21	66.34	598.97	498.88	465.16	33.72	14.796	
9,600.00	9,575.46	9,285.75	9,160.01	22.84	20.43	29.46	72.59	598.92	518.07	484.24	33.82	15.316	
9,650.00	9,625.26	9,300.00	9,167.53	22.80	20.44	25.82	84.70	598.84	556.34	522.22	34.11	16.309	
9,700.00	9,674.49	9,317.91	9,176.54	22.74	20.46	22.76	100.17	598.73	593.07	558.67	34.40	17.241	
9,750.00	9,722.78	9,334.84	9,184.62	22.68	20.48	20.36	115.05	598.63	628.11	593.38	34.72	18.089	
9,800.00	9,769.77	9,350.00	9,191.47	22.61	20.50	18.47	128.57	598.53	661.32	626.24	35.08	18.852	
9,850.00	9,815.09	9,370.06	9,199.99	22.55	20.54	16.83	146.74	598.40	692.58	657.15	35.42	19.552	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 302H - OH - Plan #1													Offset Site Error:
													0.00 usft
Survey Program:	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Offset Well Error:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference	Offset	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.00	9,858.41	9,400.00	9,211.50	22.49	20.59	15.35	174.36	598.21	722.00	686.27	35.73	20.208	
9,950.00	9,899.38	9,400.00	9,211.50	22.44	20.59	14.53	174.36	598.21	748.91	712.70	36.21	20.683	
10,000.00	9,937.70	9,425.42	9,220.13	22.40	20.65	13.55	198.27	598.04	773.68	737.11	36.57	21.156	
10,050.00	9,973.08	9,450.00	9,227.47	22.38	20.71	12.77	221.73	597.88	796.27	759.32	36.95	21.549	
10,100.00	10,005.25	9,450.00	9,227.47	22.38	20.71	12.29	221.73	597.88	816.68	779.25	37.43	21.819	
10,150.00	10,033.96	9,482.81	9,235.67	22.39	20.80	11.70	253.50	597.66	834.19	796.38	37.80	22.066	
10,200.00	10,059.00	9,500.00	9,239.24	22.43	20.85	11.30	270.31	597.54	849.52	811.28	38.24	22.218	
10,250.00	10,080.17	9,521.81	9,243.04	22.50	20.93	10.97	291.78	597.39	862.34	823.68	38.66	22.305	
10,300.00	10,097.31	9,550.00	9,246.73	22.59	21.03	10.70	319.73	597.20	872.74	833.66	39.08	22.332	
10,350.00	10,110.29	9,550.00	9,246.73	22.71	21.03	10.55	319.73	597.20	880.56	841.02	39.54	22.268	
10,400.00	10,119.02	9,580.92	9,249.20	22.86	21.16	10.42	350.55	596.98	885.55	845.58	39.97	22.154	
10,450.00	10,123.43	9,600.00	9,249.89	23.03	21.23	10.36	369.61	596.85	888.14	847.73	40.41	21.976	
10,475.58	10,124.00	9,611.23	9,250.00	23.14	21.28	10.35	380.83	596.77	888.47	847.86	40.61	21.879	
10,476.68	10,124.00	9,611.35	9,250.00	23.14	21.28	10.35	380.96	596.77	888.46	847.85	40.62	21.875	
10,500.00	10,124.00	9,634.67	9,250.00	23.24	21.40	10.35	404.28	596.61	888.47	847.68	40.78	21.787	
10,600.00	10,124.00	9,734.67	9,250.00	23.71	21.92	10.35	504.28	595.91	888.47	846.95	41.52	21.398	
10,700.00	10,124.00	9,834.67	9,250.00	24.25	22.51	10.35	604.28	595.21	888.47	846.16	42.31	20.999	
10,800.00	10,124.00	9,934.67	9,250.00	24.86	23.17	10.35	704.27	594.51	888.47	845.32	43.15	20.591	
10,900.00	10,124.00	10,034.67	9,250.00	25.53	23.89	10.35	804.27	593.81	888.47	844.44	44.03	20.178	
11,000.00	10,124.00	10,134.67	9,250.00	26.26	24.68	10.35	904.27	593.12	888.47	843.51	44.95	19.764	
11,100.00	10,124.00	10,234.67	9,250.00	27.04	25.51	10.35	1,004.27	592.42	888.47	842.55	45.92	19.349	
11,200.00	10,124.00	10,334.67	9,250.00	27.87	26.40	10.35	1,104.26	591.72	888.47	841.55	46.92	18.937	
11,300.00	10,124.00	10,434.67	9,250.00	28.75	27.34	10.35	1,204.26	591.02	888.47	840.52	47.95	18.528	
11,400.00	10,124.00	10,534.67	9,250.00	29.68	28.31	10.35	1,304.26	590.32	888.47	839.45	49.02	18.125	
11,500.00	10,124.00	10,634.67	9,250.00	30.64	29.32	10.36	1,404.26	589.63	888.47	838.35	50.12	17.728	
11,600.00	10,124.00	10,734.67	9,250.00	31.64	30.37	10.36	1,504.25	588.93	888.47	837.23	51.24	17.339	
11,700.00	10,124.00	10,834.67	9,250.00	32.67	31.45	10.36	1,604.25	588.23	888.47	836.08	52.39	16.958	
11,800.00	10,124.00	10,934.67	9,250.00	33.73	32.55	10.36	1,704.25	587.53	888.47	834.90	53.57	16.585	
11,900.00	10,124.00	11,034.67	9,250.00	34.82	33.69	10.36	1,804.25	586.83	888.47	833.70	54.77	16.222	
12,000.00	10,124.00	11,134.67	9,250.00	35.94	34.84	10.36	1,904.24	586.14	888.47	832.48	55.99	15.868	
12,100.00	10,124.00	11,234.67	9,250.00	37.08	36.02	10.36	2,004.24	585.44	888.47	831.24	57.23	15.524	
12,200.00	10,124.00	11,334.67	9,250.00	38.24	37.21	10.36	2,104.24	584.74	888.47	829.98	58.49	15.189	
12,300.00	10,124.00	11,434.67	9,250.00	39.42	38.42	10.36	2,204.24	584.04	888.48	828.70	59.77	14.864	
12,400.00	10,124.00	11,534.67	9,250.00	40.61	39.65	10.36	2,304.24	583.34	888.48	827.41	61.07	14.549	
12,500.00	10,124.00	11,634.67	9,250.00	41.83	40.89	10.36	2,404.23	582.65	888.48	826.10	62.38	14.243	
12,600.00	10,124.00	11,734.67	9,250.00	43.05	42.15	10.36	2,504.23	581.95	888.48	824.77	63.71	13.947	
12,700.00	10,124.00	11,834.67	9,250.00	44.29	43.42	10.36	2,604.23	581.25	888.48	823.43	65.04	13.659	
12,800.00	10,124.00	11,934.67	9,250.00	45.55	44.70	10.36	2,704.23	580.55	888.48	822.08	66.40	13.381	
12,900.00	10,124.00	12,034.67	9,250.00	46.81	45.98	10.36	2,804.22	579.85	888.48	820.72	67.76	13.112	
13,000.00	10,124.00	12,134.67	9,250.00	48.08	47.28	10.36	2,904.22	579.16	888.48	819.34	69.14	12.851	
13,100.00	10,124.00	12,234.67	9,250.00	49.37	48.59	10.36	3,004.22	578.46	888.48	817.95	70.53	12.598	
13,200.00	10,124.00	12,334.67	9,250.00	50.66	49.90	10.36	3,104.22	577.76	888.48	816.56	71.92	12.353	
13,300.00	10,124.00	12,434.67	9,250.00	51.96	51.22	10.36	3,204.21	577.06	888.48	815.15	73.33	12.116	
13,400.00	10,124.00	12,534.67	9,250.00	53.27	52.55	10.36	3,304.21	576.36	888.48	813.74	74.74	11.887	
13,500.00	10,124.00	12,634.67	9,250.00	54.59	53.89	10.36	3,404.21	575.67	888.48	812.31	76.17	11.665	
13,600.00	10,124.00	12,734.67	9,250.00	55.91	55.23	10.36	3,504.21	574.97	888.48	810.88	77.60	11.449	
13,700.00	10,124.00	12,834.67	9,250.00	57.24	56.57	10.36	3,604.20	574.27	888.48	809.44	79.04	11.241	
13,800.00	10,124.00	12,934.67	9,250.00	58.58	57.92	10.36	3,704.20	573.57	888.48	807.99	80.49	11.039	
13,900.00	10,124.00	13,034.67	9,250.00	59.92	59.28	10.36	3,804.20	572.87	888.48	806.54	81.94	10.843	
14,000.00	10,124.00	13,134.67	9,250.00	61.26	60.64	10.36	3,904.20	572.18	888.48	805.08	83.40	10.653	
14,100.00	10,124.00	13,234.67	9,250.00	62.61	62.00	10.36	4,004.19	571.48	888.48	803.61	84.87	10.469	
14,200.00	10,124.00	13,334.67	9,250.00	63.96	63.37	10.36	4,104.19	570.78	888.49	802.14	86.34	10.290	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 302H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
14,300.00	10,124.00	13,434.67	9,250.00	65.32	64.74	10.36	4,204.19	570.08	888.49	800.66	87.82	10.117	
14,400.00	10,124.00	13,534.67	9,250.00	66.68	66.11	10.36	4,304.19	569.38	888.49	799.18	89.31	9.949	
14,500.00	10,124.00	13,634.67	9,250.00	68.05	67.49	10.36	4,404.18	568.69	888.49	797.69	90.79	9.786	
14,600.00	10,124.00	13,734.67	9,250.00	69.42	68.87	10.36	4,504.18	567.99	888.49	796.20	92.29	9.627	
14,700.00	10,124.00	13,834.67	9,250.00	70.79	70.25	10.36	4,604.18	567.29	888.49	794.70	93.79	9.474	
14,800.00	10,124.00	13,934.67	9,250.00	72.16	71.63	10.36	4,704.18	566.59	888.49	793.20	95.29	9.324	
14,900.00	10,124.00	14,034.67	9,250.00	73.54	73.02	10.36	4,804.17	565.89	888.49	791.70	96.79	9.179	
15,000.00	10,124.00	14,134.67	9,250.00	74.92	74.41	10.36	4,904.17	565.19	888.49	790.19	98.30	9.038	
15,100.00	10,124.00	14,234.67	9,250.00	76.31	75.80	10.36	5,004.17	564.50	888.49	788.67	99.82	8.901	
15,200.00	10,124.00	14,334.67	9,250.00	77.69	77.20	10.36	5,104.17	563.80	888.49	787.15	101.34	8.768	
15,300.00	10,124.00	14,434.67	9,250.00	79.08	78.59	10.36	5,204.16	563.10	888.49	785.63	102.86	8.638	
15,400.00	10,124.00	14,534.67	9,250.00	80.47	79.99	10.36	5,304.16	562.40	888.49	784.11	104.38	8.512	
15,500.00	10,124.00	14,634.67	9,250.00	81.86	81.39	10.36	5,404.16	561.70	888.49	782.58	105.91	8.389	
15,600.00	10,124.00	14,734.67	9,250.00	83.25	82.79	10.36	5,504.16	561.01	888.49	781.05	107.44	8.270	
15,700.00	10,124.00	14,834.67	9,250.00	84.65	84.20	10.36	5,604.15	560.31	888.49	779.52	108.97	8.153	
15,800.00	10,124.00	14,934.67	9,250.00	86.05	85.60	10.36	5,704.15	559.61	888.49	777.98	110.51	8.040	
15,900.00	10,124.00	15,034.67	9,250.00	87.45	87.01	10.36	5,804.15	558.91	888.49	776.45	112.05	7.930	
16,000.00	10,124.00	15,134.67	9,250.00	88.85	88.41	10.36	5,904.15	558.21	888.50	774.91	113.59	7.822	
16,100.00	10,124.00	15,234.67	9,250.00	90.25	89.82	10.36	6,004.15	557.52	888.50	773.36	115.13	7.717	
16,200.00	10,124.00	15,334.67	9,250.00	91.65	91.23	10.36	6,104.14	556.82	888.50	771.82	116.68	7.615	
16,300.00	10,124.00	15,434.67	9,250.00	93.06	92.64	10.36	6,204.14	556.12	888.50	770.27	118.23	7.515	
16,400.00	10,124.00	15,534.67	9,250.00	94.46	94.05	10.36	6,304.14	555.42	888.50	768.72	119.78	7.418	
16,500.00	10,124.00	15,634.67	9,250.00	95.87	95.47	10.36	6,404.14	554.72	888.50	767.17	121.33	7.323	
16,600.00	10,124.00	15,734.67	9,250.00	97.28	96.88	10.36	6,504.13	554.03	888.50	765.61	122.89	7.230	
16,700.00	10,124.00	15,834.67	9,250.00	98.69	98.30	10.37	6,604.13	553.33	888.50	764.06	124.44	7.140	
16,800.00	10,124.00	15,934.67	9,250.00	100.10	99.71	10.37	6,704.13	552.63	888.50	762.50	126.00	7.051	
16,900.00	10,124.00	16,034.67	9,250.00	101.51	101.13	10.37	6,804.13	551.93	888.50	760.94	127.56	6.965	
17,000.00	10,124.00	16,134.67	9,250.00	102.92	102.55	10.37	6,904.12	551.23	888.50	759.38	129.12	6.881	
17,100.00	10,124.00	16,234.67	9,250.00	104.34	103.97	10.37	7,004.12	550.54	888.50	757.81	130.69	6.799	
17,200.00	10,124.00	16,334.67	9,250.00	105.75	105.39	10.37	7,104.12	549.84	888.50	756.25	132.25	6.718	
17,300.00	10,124.00	16,434.67	9,250.00	107.17	106.81	10.37	7,204.12	549.14	888.50	754.68	133.82	6.639	
17,400.00	10,124.00	16,534.67	9,250.00	108.58	108.23	10.37	7,304.11	548.44	888.50	753.11	135.39	6.563	
17,500.00	10,124.00	16,634.67	9,250.00	110.00	109.65	10.37	7,404.11	547.74	888.50	751.54	136.96	6.487	
17,600.00	10,124.00	16,734.67	9,250.00	111.42	111.07	10.37	7,504.11	547.05	888.50	749.97	138.53	6.414	
17,700.00	10,124.00	16,834.67	9,250.00	112.84	112.49	10.37	7,604.11	546.35	888.50	748.40	140.10	6.342	
17,800.00	10,124.00	16,934.67	9,250.00	114.26	113.92	10.37	7,704.10	545.65	888.51	746.83	141.68	6.271	
17,900.00	10,124.00	17,034.67	9,250.00	115.68	115.34	10.37	7,804.10	544.95	888.51	745.25	143.25	6.202	
18,000.00	10,124.00	17,134.67	9,250.00	117.10	116.77	10.37	7,904.10	544.25	888.51	743.68	144.83	6.135	
18,100.00	10,124.00	17,234.67	9,250.00	118.52	118.19	10.37	8,004.10	543.56	888.51	742.10	146.41	6.069	
18,200.00	10,124.00	17,334.67	9,250.00	119.94	119.62	10.37	8,104.09	542.86	888.51	740.52	147.99	6.004	
18,300.00	10,124.00	17,434.67	9,250.00	121.36	121.04	10.37	8,204.09	542.16	888.51	738.94	149.56	5.941	
18,400.00	10,124.00	17,534.67	9,250.00	122.79	122.47	10.37	8,304.09	541.46	888.51	737.36	151.15	5.878	
18,500.00	10,124.00	17,634.67	9,250.00	124.21	123.90	10.37	8,404.09	540.76	888.51	735.78	152.73	5.818	
18,600.00	10,124.00	17,734.67	9,250.00	125.64	125.33	10.37	8,504.08	540.07	888.51	734.20	154.31	5.758	
18,700.00	10,124.00	17,834.67	9,250.00	127.06	126.75	10.37	8,604.08	539.37	888.51	732.62	155.89	5.699	
18,800.00	10,124.00	17,934.67	9,250.00	128.49	128.18	10.37	8,704.08	538.67	888.51	731.03	157.48	5.642	
18,900.00	10,124.00	18,034.67	9,250.00	129.91	129.61	10.37	8,804.08	537.97	888.51	729.45	159.07	5.586	
19,000.00	10,124.00	18,134.67	9,250.00	131.34	131.04	10.37	8,904.07	537.27	888.51	727.86	160.65	5.531	
19,100.00	10,124.00	18,234.67	9,250.00	132.77	132.47	10.37	9,004.07	536.57	888.51	726.27	162.24	5.477	
19,200.00	10,124.00	18,334.67	9,250.00	134.19	133.90	10.37	9,104.07	535.88	888.51	724.68	163.83	5.423	
19,300.00	10,124.00	18,434.67	9,250.00	135.62	135.33	10.37	9,204.07	535.18	888.51	723.10	165.42	5.371	
19,400.00	10,124.00	18,534.67	9,250.00	137.05	136.76	10.37	9,304.06	534.48	888.51	721.51	167.01	5.320	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 302H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,500.00	10,124.00	18,634.67	9,250.00	138.48	138.19	10.37	9,404.06	533.78	888.51	719.92	168.60	5.270	
19,600.00	10,124.00	18,734.67	9,250.00	139.91	139.63	10.37	9,504.06	533.08	888.52	718.33	170.19	5.221	
19,700.00	10,124.00	18,834.67	9,250.00	141.34	141.06	10.37	9,604.06	532.39	888.52	716.73	171.78	5.172	
19,800.00	10,124.00	18,934.67	9,250.00	142.77	142.49	10.37	9,704.05	531.69	888.52	715.14	173.38	5.125	
19,900.00	10,124.00	19,034.67	9,250.00	144.20	143.92	10.37	9,804.05	530.99	888.52	713.55	174.97	5.078	
20,000.00	10,124.00	19,134.67	9,250.00	145.63	145.36	10.37	9,904.05	530.29	888.52	711.95	176.56	5.032	
20,100.00	10,124.00	19,234.67	9,250.00	147.06	146.79	10.37	10,004.05	529.59	888.52	710.36	178.16	4.987	
20,200.00	10,124.00	19,334.67	9,250.00	148.49	148.22	10.37	10,104.05	528.90	888.52	708.76	179.75	4.943	
20,300.00	10,124.00	19,434.67	9,250.00	149.92	149.66	10.37	10,204.04	528.20	888.52	707.17	181.35	4.899	
20,302.61	10,124.00	19,437.28	9,250.00	149.96	149.69	10.37	10,206.65	528.18	888.52	707.13	181.39	4.898	
20,326.14	10,124.00	19,460.23	9,250.00	150.29	150.02	10.37	10,229.60	528.02	888.52	706.75	181.77	4.888	
20,326.61	10,124.00	19,460.23	9,250.00	150.30	150.02	10.37	10,229.60	528.02	888.52	706.74	181.78	4.888	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 702H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	89.25	1.31	99.98	99.99				
100.00	100.00	100.00	100.00	0.79	0.79	89.25	1.31	99.98	99.99	98.40	1.58	63.118	
200.00	200.00	200.00	200.00	1.45	1.45	89.25	1.31	99.98	99.99	97.09	2.90	34.488	
300.00	300.00	300.00	300.00	1.89	1.89	89.25	1.31	99.98	99.99	96.20	3.79	26.390	
400.00	400.00	400.00	400.00	2.26	2.26	89.25	1.31	99.98	99.99	95.48	4.51	22.161	
500.00	500.00	500.00	500.00	2.57	2.57	89.25	1.31	99.98	99.99	94.85	5.14	19.455	
600.00	600.00	600.00	600.00	2.85	2.85	89.25	1.31	99.98	99.99	94.29	5.70	17.533	
700.00	700.00	700.00	700.00	3.11	3.11	89.25	1.31	99.98	99.99	93.77	6.22	16.076	
800.00	800.00	800.00	800.00	3.35	3.35	89.25	1.31	99.98	99.99	93.29	6.70	14.922	
900.00	900.00	900.00	900.00	3.58	3.58	89.25	1.31	99.98	99.99	92.84	7.15	13.978	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.25	1.31	99.98	99.99	92.41	7.58	13.187	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.25	1.31	99.98	99.99	92.00	7.99	12.512	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.25	1.31	99.98	99.99	91.60	8.38	11.926	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.25	1.31	99.98	99.99	91.23	8.76	11.411	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.25	1.31	99.98	99.99	90.86	9.13	10.955	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.25	1.31	99.98	99.99	90.51	9.48	10.546	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.25	1.31	99.98	99.99	90.16	9.83	10.176	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.25	1.31	99.98	99.99	89.83	10.16	9.841	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.25	1.31	99.98	99.99	89.50	10.49	9.534	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.25	1.31	99.98	99.99	89.18	10.81	9.252	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.25	1.31	99.98	99.99	88.87	11.12	8.992	
2,100.00	2,100.00	2,100.00	2,100.00	5.71	5.71	89.25	1.31	99.98	99.99	88.56	11.43	8.751	
2,200.00	2,200.00	2,200.00	2,200.00	5.86	5.86	89.25	1.31	99.98	99.99	88.26	11.73	8.527	
2,300.00	2,300.00	2,297.67	2,297.66	6.01	6.02	89.55	0.79	101.11	101.14	89.12	12.03	8.410	
2,400.00	2,400.00	2,395.21	2,395.13	6.16	6.18	90.43	-0.78	104.51	104.62	92.31	12.31	8.497	
2,500.00	2,500.00	2,492.50	2,492.22	6.30	6.35	91.76	-3.38	110.14	110.47	97.86	12.61	8.764	
2,600.00	2,600.00	2,589.42	2,588.74	6.44	6.54	93.40	-7.00	117.99	118.73	105.82	12.91	9.196	
2,700.00	2,700.00	2,686.44	2,685.13	6.58	6.68	95.19	-11.64	128.02	129.40	116.23	13.17	9.826	
2,800.00	2,799.99	2,785.84	2,783.79	6.73	6.88	-17.02	-16.71	139.02	139.71	126.20	13.51	10.342	
2,900.00	2,899.91	2,885.49	2,882.70	6.87	7.10	-15.96	-21.81	150.04	147.59	133.72	13.87	10.642	
3,000.00	2,999.69	2,985.33	2,981.79	7.03	7.34	-15.28	-26.91	161.09	152.99	138.73	14.26	10.728	
3,100.11	3,099.38	3,085.39	3,081.11	7.20	7.60	-14.89	-32.02	172.16	155.88	141.19	14.69	10.613	
3,200.00	3,198.72	3,185.26	3,180.24	7.37	7.87	-14.66	-37.12	183.21	157.51	142.39	15.12	10.417	
3,300.00	3,298.17	3,285.25	3,279.48	7.56	8.16	-14.42	-42.23	194.28	159.14	143.55	15.58	10.211	
3,400.00	3,397.63	3,385.23	3,378.72	7.76	8.45	-14.19	-47.34	205.34	160.77	144.70	16.08	10.000	
3,500.00	3,497.08	3,485.22	3,477.96	7.98	8.76	-13.97	-52.45	216.40	162.41	145.81	16.59	9.787	
3,600.00	3,596.53	3,585.20	3,577.20	8.21	9.07	-13.75	-57.56	227.47	164.05	146.91	17.14	9.574	
3,700.00	3,695.98	3,685.19	3,676.43	8.45	9.40	-13.53	-62.66	238.53	165.69	147.99	17.70	9.362	
3,800.00	3,795.43	3,785.17	3,775.67	8.71	9.73	-13.32	-67.77	249.59	167.33	149.05	18.28	9.154	
3,900.00	3,894.88	3,885.16	3,874.91	8.98	10.06	-13.11	-72.88	260.66	168.98	150.10	18.88	8.950	
4,000.00	3,994.34	3,985.14	3,974.15	9.25	10.41	-12.91	-77.99	271.72	170.62	151.13	19.50	8.751	
4,100.00	4,093.79	4,085.13	4,073.39	9.54	10.76	-12.71	-83.10	282.78	172.27	152.14	20.13	8.558	
4,200.00	4,193.24	4,185.11	4,172.63	9.84	11.11	-12.51	-88.21	293.85	173.93	153.15	20.78	8.372	
4,300.00	4,292.69	4,285.09	4,271.87	10.14	11.47	-12.32	-93.31	304.91	175.58	154.15	21.43	8.192	
4,400.00	4,392.14	4,385.08	4,371.11	10.45	11.83	-12.13	-98.42	315.97	177.23	155.13	22.10	8.018	
4,500.00	4,491.60	4,485.06	4,470.35	10.76	12.20	-11.94	-103.53	327.04	178.89	156.11	22.78	7.852	
4,600.00	4,591.05	4,585.05	4,569.59	11.09	12.57	-11.76	-108.64	338.10	180.55	157.08	23.47	7.692	
4,700.00	4,690.50	4,685.03	4,668.83	11.41	12.94	-11.58	-113.75	349.16	182.21	158.04	24.17	7.538	
4,800.00	4,789.95	4,785.02	4,768.07	11.75	13.31	-11.41	-118.86	360.23	183.88	159.00	24.88	7.391	
4,900.00	4,889.40	4,885.00	4,867.31	12.08	13.69	-11.23	-123.96	371.29	185.54	159.95	25.59	7.249	
5,000.00	4,988.86	4,984.99	4,966.54	12.42	14.07	-11.07	-129.07	382.35	187.21	160.89	26.32	7.114	
5,100.00	5,088.31	5,084.97	5,065.78	12.77	14.46	-10.90	-134.18	393.42	188.87	161.83	27.04	6.984	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 702H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,187.76	5,184.96	5,165.02	13.12	14.84	-10.74	-139.29	404.48	190.54	162.77	27.78	6.860	
5,300.00	5,287.21	5,284.94	5,264.26	13.47	15.23	-10.58	-144.40	415.55	192.22	163.70	28.52	6.740	
5,400.00	5,386.66	5,384.93	5,363.50	13.82	15.61	-10.42	-149.51	426.61	193.89	164.63	29.26	6.626	
5,500.00	5,486.11	5,484.91	5,462.74	14.18	16.00	-10.26	-154.61	437.67	195.56	165.55	30.01	6.516	
5,600.00	5,585.57	5,584.89	5,561.98	14.54	16.40	-10.11	-159.72	448.74	197.24	166.47	30.76	6.411	
5,700.00	5,685.02	5,684.88	5,661.22	14.90	16.79	-9.96	-164.83	459.80	198.91	167.39	31.52	6.310	
5,800.00	5,784.47	5,784.86	5,760.46	15.26	17.18	-9.81	-169.94	470.86	200.59	168.31	32.28	6.213	
5,900.00	5,883.92	5,884.85	5,859.70	15.63	17.58	-9.67	-175.05	481.93	202.27	169.22	33.05	6.120	
6,000.00	5,983.37	5,984.83	5,958.94	16.00	17.98	-9.53	-180.16	492.99	203.95	170.13	33.82	6.031	
6,100.00	6,082.83	6,089.24	6,062.67	16.37	18.39	-9.43	-185.11	503.71	204.78	170.17	34.61	5.917	
6,200.00	6,182.28	6,194.76	6,167.80	16.74	18.79	-9.47	-188.93	511.99	202.95	167.59	35.36	5.740	
6,300.00	6,281.73	6,300.10	6,272.95	17.11	19.16	-9.67	-191.52	517.61	198.40	162.35	36.05	5.504	
6,400.00	6,381.18	6,405.09	6,377.89	17.49	19.47	-10.04	-192.90	520.59	191.16	154.51	36.65	5.215	
6,500.00	6,480.63	6,507.84	6,480.63	17.86	19.57	-10.60	-193.15	521.13	181.43	144.38	37.04	4.898	
6,600.00	6,580.09	6,607.30	6,580.09	18.24	19.61	-11.24	-193.15	521.13	171.16	133.75	37.41	4.576	
6,700.00	6,679.54	6,706.75	6,679.54	18.62	19.65	-11.97	-193.15	521.13	160.91	123.15	37.76	4.262	
6,800.00	6,778.99	6,806.20	6,778.99	19.00	19.69	-12.79	-193.15	521.13	150.70	112.60	38.10	3.955	
6,900.00	6,878.44	6,905.65	6,878.44	19.38	19.73	-13.74	-193.15	521.13	140.52	102.09	38.42	3.657	
7,000.00	6,977.89	7,005.10	6,977.89	19.76	19.77	-14.83	-193.15	521.13	130.38	91.66	38.73	3.367	
7,100.00	7,077.35	7,104.56	7,077.35	20.14	19.81	-16.10	-193.15	521.13	120.30	81.30	39.00	3.085	
7,200.00	7,176.80	7,204.01	7,176.80	20.53	19.85	-17.61	-193.15	521.13	110.29	71.06	39.23	2.812	
7,309.43	7,285.62	7,312.83	7,285.62	20.95	19.90	-19.60	-193.15	521.13	99.44	60.03	39.41	2.523	
7,400.00	7,375.80	7,403.02	7,375.80	21.29	19.94	-21.32	-193.15	521.13	91.56	52.05	39.51	2.317	
7,500.00	7,475.57	7,502.78	7,475.57	21.65	19.98	-22.94	-193.15	521.13	85.27	45.65	39.62	2.152	
7,600.00	7,575.48	7,602.69	7,575.48	21.97	20.02	-24.06	-193.15	521.13	81.44	41.67	39.76	2.048	
7,709.53	7,685.00	7,712.21	7,685.00	22.16	20.06	89.25	-193.15	521.13	80.01	40.10	39.90	2.005	
7,800.00	7,775.47	7,802.68	7,775.47	22.19	20.10	89.25	-193.15	521.13	80.01	40.04	39.97	2.002	
7,900.00	7,875.47	7,902.68	7,875.47	22.22	20.15	89.25	-193.15	521.13	80.01	39.95	40.05	1.998 Collision Risk Procedures Req.	
8,000.00	7,975.47	8,002.68	7,975.47	22.26	20.19	89.25	-193.15	521.13	80.01	39.87	40.14	1.993 Collision Risk Procedures Req.	
8,100.00	8,075.47	8,102.68	8,075.47	22.30	20.23	89.25	-193.15	521.13	80.01	39.79	40.22	1.989 Collision Risk Procedures Req.	
8,200.00	8,175.47	8,202.68	8,175.47	22.33	20.27	89.25	-193.15	521.13	80.01	39.70	40.30	1.985 Collision Risk Procedures Req.	
8,300.00	8,275.47	8,302.68	8,275.47	22.37	20.32	89.25	-193.15	521.13	80.01	39.62	40.39	1.981 Collision Risk Procedures Req.	
8,400.00	8,375.47	8,402.68	8,375.47	22.41	20.36	89.25	-193.15	521.13	80.01	39.54	40.47	1.977 Collision Risk Procedures Req.	
8,500.00	8,475.47	8,502.68	8,475.47	22.44	20.41	89.25	-193.15	521.13	80.01	39.45	40.56	1.973 Collision Risk Procedures Req.	
8,600.00	8,575.47	8,602.68	8,575.47	22.48	20.45	89.25	-193.15	521.13	80.01	39.37	40.64	1.969 Collision Risk Procedures Req.	
8,700.00	8,675.47	8,702.68	8,675.47	22.52	20.49	89.25	-193.15	521.13	80.01	39.28	40.73	1.964 Collision Risk Procedures Req.	
8,800.00	8,775.47	8,802.68	8,775.47	22.56	20.54	89.25	-193.15	521.13	80.01	39.19	40.81	1.960 Collision Risk Procedures Req.	
8,900.00	8,875.47	8,902.68	8,875.47	22.59	20.58	89.25	-193.15	521.13	80.01	39.11	40.90	1.956 Collision Risk Procedures Req.	
9,000.00	8,975.47	9,002.68	8,975.47	22.63	20.63	89.25	-193.15	521.13	80.01	39.02	40.99	1.952 Collision Risk Procedures Req.	
9,100.00	9,075.47	9,102.68	9,075.47	22.67	20.67	89.25	-193.15	521.13	80.01	38.93	41.07	1.948 Collision Risk Procedures Req.	
9,200.00	9,175.47	9,202.68	9,175.47	22.71	20.72	89.25	-193.15	521.13	80.01	38.84	41.16	1.944 Collision Risk Procedures Req.	
9,300.00	9,275.47	9,302.68	9,275.47	22.75	20.77	89.25	-193.15	521.13	80.01	38.76	41.25	1.939 Collision Risk Procedures Req.	
9,400.00	9,375.47	9,402.68	9,375.47	22.79	20.81	89.25	-193.15	521.13	80.01	38.67	41.34	1.935 Collision Risk Procedures Req.	
9,500.00	9,475.47	9,502.68	9,475.47	22.83	20.86	89.25	-193.15	521.13	80.01	38.58	41.43	1.931 Collision Risk Procedures Req.	
9,575.58	9,551.04	9,578.25	9,551.04	22.85	20.89	89.25	-193.15	521.13	80.01	38.52	41.49	1.928 Collision Risk Procedures Req.	
9,599.26	9,574.72	9,601.93	9,574.72	22.84	20.90	90.00	-193.15	521.13	80.01	38.44	41.56	1.925 Collision Risk Procedures Req., CC	
9,600.00	9,575.46	9,602.67	9,575.46	22.84	20.90	90.02	-193.15	521.13	80.01	38.44	41.57	1.925 Collision Risk Procedures Req.	
9,650.00	9,625.26	9,652.47	9,625.26	22.80	20.93	93.08	-193.15	521.13	80.12	38.03	42.09	1.904 Collision Risk Procedures Req., ES	
9,700.00	9,674.49	9,701.70	9,674.49	22.74	20.95	98.99	-193.15	521.13	81.05	38.17	42.88	1.890 Collision Risk Procedures Req., SF	
9,750.00	9,722.78	9,750.00	9,722.78	22.68	20.97	107.14	-193.15	521.13	84.08	40.56	43.52	1.932 Collision Risk Procedures Req.	
9,800.00	9,769.77	9,796.98	9,769.77	22.61	20.99	116.37	-193.15	521.13	90.78	47.27	43.52	2.086	
9,850.00	9,815.09	9,842.30	9,815.09	22.55	21.02	125.37	-193.15	521.13	102.44	59.75	42.70	2.399	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 702H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.00	9,858.41	9,885.62	9,858.41	22.49	21.04	133.17	-193.15	521.13	119.62	78.30	41.33	2.895	
9,950.00	9,899.38	9,926.59	9,899.38	22.44	21.06	139.40	-193.15	521.13	142.20	102.39	39.81	3.572	
10,000.00	9,937.70	9,964.91	9,937.70	22.40	21.07	144.08	-193.15	521.13	169.69	131.26	38.43	4.415	
10,050.00	9,973.08	10,000.29	9,973.08	22.38	21.09	147.40	-193.15	521.13	201.52	164.23	37.29	5.404	
10,100.00	10,005.25	10,032.46	10,005.25	22.38	21.11	149.54	-193.15	521.13	237.12	200.74	36.38	6.518	
10,150.00	10,033.96	10,061.17	10,033.96	22.39	21.12	150.63	-193.15	521.13	275.98	240.31	35.67	7.737	
10,200.00	10,059.00	10,086.21	10,059.00	22.43	21.13	150.64	-193.15	521.13	317.64	282.52	35.12	9.045	
10,250.00	10,080.17	10,107.38	10,080.17	22.50	21.14	149.40	-193.15	521.13	361.64	326.95	34.69	10.426	
10,300.00	10,097.31	10,124.52	10,097.31	22.59	21.15	146.43	-193.15	521.13	407.56	373.21	34.35	11.866	
10,350.00	10,110.29	10,137.50	10,110.29	22.71	21.16	140.59	-193.15	521.13	454.98	420.90	34.08	13.350	
10,400.00	10,119.02	10,146.23	10,119.02	22.86	21.16	129.26	-193.15	521.13	503.51	469.64	33.87	14.865	
10,450.00	10,123.43	10,150.64	10,123.43	23.03	21.16	106.96	-193.15	521.13	552.72	519.01	33.71	16.398	
10,475.58	10,124.00	10,151.21	10,124.00	23.14	21.16	90.00	-193.15	521.13	578.03	544.39	33.64	17.184	
10,500.00	10,124.00	10,151.21	10,124.00	23.24	21.16	90.00	-193.15	521.13	602.23	568.65	33.58	17.935	
10,600.00	10,124.00	10,151.21	10,124.00	23.71	21.16	90.00	-193.15	521.13	701.47	668.09	33.38	21.013	
10,700.00	10,124.00	11,446.46	10,868.00	24.25	23.08	168.67	601.30	584.63	758.79	716.24	42.55	17.831	
10,800.00	10,124.00	11,549.36	10,868.00	24.86	23.75	168.63	704.20	584.45	758.89	715.91	42.98	17.657	
10,900.00	10,124.00	11,649.36	10,868.00	25.53	24.44	168.63	804.20	583.75	758.89	715.44	43.45	17.465	
11,000.00	10,124.00	11,749.36	10,868.00	26.26	25.19	168.63	904.20	583.06	758.89	714.91	43.98	17.255	
11,100.00	10,124.00	11,849.36	10,868.00	27.04	26.00	168.63	1,004.20	582.36	758.89	714.33	44.57	17.029	
11,200.00	10,124.00	11,949.36	10,868.00	27.87	26.85	168.63	1,104.19	581.66	758.90	713.69	45.20	16.789	
11,300.00	10,124.00	12,049.36	10,868.00	28.75	27.76	168.63	1,204.19	580.96	758.90	713.01	45.89	16.538	
11,400.00	10,124.00	12,149.36	10,868.00	29.68	28.70	168.63	1,304.19	580.27	758.90	712.28	46.62	16.278	
11,500.00	10,124.00	12,249.36	10,868.00	30.64	29.69	168.63	1,404.19	579.57	758.90	711.50	47.40	16.010	
11,600.00	10,124.00	12,349.36	10,868.00	31.64	30.71	168.63	1,504.18	578.87	758.90	710.68	48.22	15.737	
11,700.00	10,124.00	12,449.36	10,868.00	32.67	31.76	168.63	1,604.18	578.17	758.90	709.81	49.09	15.460	
11,800.00	10,124.00	12,549.36	10,868.00	33.73	32.84	168.63	1,704.18	577.48	758.90	708.91	49.99	15.181	
11,900.00	10,124.00	12,649.36	10,868.00	34.82	33.95	168.63	1,804.18	576.78	758.90	707.97	50.93	14.901	
12,000.00	10,124.00	12,749.36	10,868.00	35.94	35.08	168.63	1,904.17	576.08	758.90	707.00	51.90	14.622	
12,100.00	10,124.00	12,849.36	10,868.00	37.08	36.24	168.63	2,004.17	575.38	758.90	705.99	52.91	14.343	
12,200.00	10,124.00	12,949.36	10,868.00	38.24	37.42	168.63	2,104.17	574.69	758.90	704.95	53.95	14.067	
12,300.00	10,124.00	13,049.36	10,868.00	39.42	38.61	168.63	2,204.17	573.99	758.90	703.89	55.02	13.794	
12,400.00	10,124.00	13,149.36	10,868.00	40.61	39.82	168.63	2,304.16	573.29	758.90	702.79	56.11	13.525	
12,500.00	10,124.00	13,249.36	10,868.00	41.83	41.05	168.62	2,404.16	572.59	758.91	701.67	57.23	13.260	
12,600.00	10,124.00	13,349.36	10,868.00	43.05	42.29	168.62	2,504.16	571.90	758.91	700.53	58.38	13.000	
12,700.00	10,124.00	13,449.36	10,868.00	44.29	43.54	168.62	2,604.16	571.20	758.91	699.36	59.55	12.745	
12,800.00	10,124.00	13,549.36	10,868.00	45.55	44.81	168.62	2,704.15	570.50	758.91	698.17	60.74	12.495	
12,900.00	10,124.00	13,649.36	10,868.00	46.81	46.08	168.62	2,804.15	569.81	758.91	696.96	61.95	12.250	
13,000.00	10,124.00	13,749.36	10,868.00	48.08	47.37	168.62	2,904.15	569.11	758.91	695.73	63.18	12.012	
13,100.00	10,124.00	13,849.36	10,868.00	49.37	48.67	168.62	3,004.15	568.41	758.91	694.48	64.43	11.779	
13,200.00	10,124.00	13,949.36	10,868.00	50.66	49.97	168.62	3,104.14	567.71	758.91	693.21	65.70	11.552	
13,300.00	10,124.00	14,049.36	10,868.00	51.96	51.28	168.62	3,204.14	567.02	758.91	691.93	66.98	11.331	
13,400.00	10,124.00	14,149.36	10,868.00	53.27	52.60	168.62	3,304.14	566.32	758.91	690.64	68.28	11.115	
13,500.00	10,124.00	14,249.36	10,868.00	54.59	53.93	168.62	3,404.14	565.62	758.91	689.32	69.59	10.906	
13,600.00	10,124.00	14,349.36	10,868.00	55.91	55.26	168.62	3,504.13	564.92	758.91	688.00	70.91	10.702	
13,700.00	10,124.00	14,449.36	10,868.00	57.24	56.59	168.62	3,604.13	564.23	758.91	686.66	72.25	10.504	
13,800.00	10,124.00	14,549.36	10,868.00	58.58	57.94	168.62	3,704.13	563.53	758.92	685.31	73.60	10.311	
13,900.00	10,124.00	14,649.36	10,868.00	59.92	59.28	168.62	3,804.13	562.83	758.92	683.95	74.97	10.123	
14,000.00	10,124.00	14,749.36	10,868.00	61.26	60.64	168.62	3,904.12	562.13	758.92	682.58	76.34	9.941	
14,100.00	10,124.00	14,849.36	10,868.00	62.61	61.99	168.62	4,004.12	561.44	758.92	681.19	77.72	9.764	
14,200.00	10,124.00	14,949.36	10,868.00	63.96	63.35	168.62	4,104.12	560.74	758.92	679.80	79.12	9.592	
14,300.00	10,124.00	15,049.36	10,868.00	65.32	64.72	168.62	4,204.12	560.04	758.92	678.40	80.52	9.425	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design:Annex State Com Pads - Annex State Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+HDGM		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,400.00	10,124.00	15,149.36	10,868.00	66.68	66.09	168.62	4,304.12	559.34	758.92	676.99	81.93	9.263			
14,500.00	10,124.00	15,249.36	10,868.00	68.05	67.46	168.62	4,404.11	558.65	758.92	675.57	83.35	9.105			
14,600.00	10,124.00	15,349.36	10,868.00	69.42	68.83	168.62	4,504.11	557.95	758.92	674.14	84.78	8.952			
14,700.00	10,124.00	15,449.36	10,868.00	70.79	70.21	168.62	4,604.11	557.25	758.92	672.71	86.22	8.803			
14,800.00	10,124.00	15,549.36	10,868.00	72.16	71.59	168.62	4,704.11	556.55	758.92	671.26	87.66	8.658			
14,900.00	10,124.00	15,649.36	10,868.00	73.54	72.97	168.62	4,804.10	555.86	758.92	669.81	89.11	8.517			
15,000.00	10,124.00	15,749.36	10,868.00	74.92	74.36	168.62	4,904.10	555.16	758.92	668.36	90.57	8.380			
15,100.00	10,124.00	15,849.36	10,868.00	76.31	75.75	168.62	5,004.10	554.46	758.92	666.90	92.03	8.247			
15,200.00	10,124.00	15,949.36	10,868.00	77.69	77.14	168.62	5,104.10	553.77	758.93	665.43	93.50	8.117			
15,300.00	10,124.00	16,049.36	10,868.00	79.08	78.53	168.62	5,204.09	553.07	758.93	663.96	94.97	7.991			
15,400.00	10,124.00	16,149.36	10,868.00	80.47	79.92	168.62	5,304.09	552.37	758.93	662.48	96.45	7.869			
15,500.00	10,124.00	16,249.36	10,868.00	81.86	81.32	168.62	5,404.09	551.67	758.93	660.99	97.93	7.749			
15,600.00	10,124.00	16,349.36	10,868.00	83.25	82.72	168.62	5,504.09	550.98	758.93	659.51	99.42	7.633			
15,700.00	10,124.00	16,449.36	10,868.00	84.65	84.12	168.62	5,604.08	550.28	758.93	658.01	100.92	7.520			
15,800.00	10,124.00	16,549.36	10,868.00	86.05	85.52	168.62	5,704.08	549.58	758.93	656.51	102.42	7.410			
15,900.00	10,124.00	16,649.36	10,868.00	87.45	86.92	168.62	5,804.08	548.88	758.93	655.01	103.92	7.303			
16,000.00	10,124.00	16,749.36	10,868.00	88.85	88.33	168.62	5,904.08	548.19	758.93	653.51	105.43	7.199			
16,100.00	10,124.00	16,849.36	10,868.00	90.25	89.73	168.62	6,004.07	547.49	758.93	651.99	106.94	7.097			
16,200.00	10,124.00	16,949.36	10,868.00	91.65	91.14	168.61	6,104.07	546.79	758.93	650.48	108.45	6.998			
16,300.00	10,124.00	17,049.36	10,868.00	93.06	92.55	168.61	6,204.07	546.09	758.93	648.96	109.97	6.901			
16,400.00	10,124.00	17,149.36	10,868.00	94.46	93.96	168.61	6,304.07	545.40	758.93	647.44	111.49	6.807			
16,500.00	10,124.00	17,249.36	10,868.00	95.87	95.37	168.61	6,404.06	544.70	758.94	645.92	113.02	6.715			
16,600.00	10,124.00	17,349.36	10,868.00	97.28	96.78	168.61	6,504.06	544.00	758.94	644.39	114.55	6.626			
16,700.00	10,124.00	17,449.36	10,868.00	98.69	98.19	168.61	6,604.06	543.30	758.94	642.86	116.08	6.538			
16,800.00	10,124.00	17,549.36	10,868.00	100.10	99.60	168.61	6,704.06	542.61	758.94	641.33	117.61	6.453			
16,900.00	10,124.00	17,649.36	10,868.00	101.51	101.02	168.61	6,804.05	541.91	758.94	639.79	119.15	6.370			
17,000.00	10,124.00	17,749.36	10,868.00	102.92	102.43	168.61	6,904.05	541.21	758.94	638.25	120.69	6.288			
17,100.00	10,124.00	17,849.36	10,868.00	104.34	103.85	168.61	7,004.05	540.51	758.94	636.71	122.23	6.209			
17,200.00	10,124.00	17,949.36	10,868.00	105.75	105.27	168.61	7,104.05	539.82	758.94	635.16	123.78	6.132			
17,300.00	10,124.00	18,049.36	10,868.00	107.17	106.69	168.61	7,204.04	539.12	758.94	633.62	125.32	6.056			
17,400.00	10,124.00	18,149.36	10,868.00	108.58	108.11	168.61	7,304.04	538.42	758.94	632.07	126.87	5.982			
17,500.00	10,124.00	18,249.36	10,868.00	110.00	109.53	168.61	7,404.04	537.73	758.94	630.52	128.43	5.910			
17,600.00	10,124.00	18,349.36	10,868.00	111.42	110.95	168.61	7,504.04	537.03	758.94	628.96	129.98	5.839			
17,700.00	10,124.00	18,449.36	10,868.00	112.84	112.37	168.61	7,604.03	536.33	758.94	627.41	131.54	5.770			
17,800.00	10,124.00	18,549.36	10,868.00	114.26	113.79	168.61	7,704.03	535.63	758.95	625.85	133.10	5.702			
17,900.00	10,124.00	18,649.36	10,868.00	115.68	115.21	168.61	7,804.03	534.94	758.95	624.29	134.66	5.636			
18,000.00	10,124.00	18,749.36	10,868.00	117.10	116.63	168.61	7,904.03	534.24	758.95	622.73	136.22	5.572			
18,100.00	10,124.00	18,849.36	10,868.00	118.52	118.06	168.61	8,004.03	533.54	758.95	621.16	137.78	5.508			
18,200.00	10,124.00	18,949.36	10,868.00	119.94	119.48	168.61	8,104.02	532.84	758.95	619.60	139.35	5.446			
18,300.00	10,124.00	19,049.36	10,868.00	121.36	120.91	168.61	8,204.02	532.15	758.95	618.03	140.92	5.386			
18,400.00	10,124.00	19,149.36	10,868.00	122.79	122.33	168.61	8,304.02	531.45	758.95	616.46	142.49	5.326			
18,500.00	10,124.00	19,249.36	10,868.00	124.21	123.76	168.61	8,404.02	530.75	758.95	614.89	144.06	5.268			
18,600.00	10,124.00	19,349.36	10,868.00	125.64	125.18	168.61	8,504.01	530.05	758.95	613.32	145.63	5.212			
18,700.00	10,124.00	19,449.36	10,868.00	127.06	126.61	168.61	8,604.01	529.36	758.95	611.75	147.20	5.156			
18,800.00	10,124.00	19,549.36	10,868.00	128.49	128.04	168.61	8,704.01	528.66	758.95	610.17	148.78	5.101			
18,900.00	10,124.00	19,649.36	10,868.00	129.91	129.47	168.61	8,804.01	527.96	758.95	608.60	150.36	5.048			
19,000.00	10,124.00	19,749.36	10,868.00	131.34	130.89	168.61	8,904.00	527.26	758.95	607.02	151.93	4.995			
19,100.00	10,124.00	19,849.36	10,868.00	132.77	132.32	168.61	9,004.00	526.57	758.96	605.44	153.51	4.944			
19,200.00	10,124.00	19,949.36	10,868.00	134.19	133.75	168.61	9,104.00	525.87	758.96	603.86	155.10	4.893			
19,300.00	10,124.00	20,049.36	10,868.00	135.62	135.18	168.61	9,204.00	525.17	758.96	602.28	156.68	4.844			
19,400.00	10,124.00	20,149.36	10,868.00	137.05	136.61	168.61	9,303.99	524.47	758.96	600.70	158.26	4.796			
19,500.00	10,124.00	20,249.36	10,868.00	138.48	138.04	168.61	9,403.99	523.78	758.96	599.11	159.85	4.748			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 702H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,600.00	10,124.00	20,349.36	10,868.00	139.91	139.47	168.61	9,503.99	523.08	758.96	597.53	161.43	4.701		
19,700.00	10,124.00	20,449.36	10,868.00	141.34	140.90	168.61	9,603.99	522.38	758.96	595.94	163.02	4.656		
19,800.00	10,124.00	20,549.36	10,868.00	142.77	142.33	168.60	9,703.98	521.69	758.96	594.36	164.61	4.611		
19,900.00	10,124.00	20,649.36	10,868.00	144.20	143.77	168.60	9,803.98	520.99	758.96	592.77	166.19	4.567		
20,000.00	10,124.00	20,749.36	10,868.00	145.63	145.20	168.60	9,903.98	520.29	758.96	591.18	167.78	4.523		
20,100.00	10,124.00	20,849.36	10,868.00	147.06	146.63	168.60	10,003.98	519.59	758.96	589.59	169.37	4.481		
20,200.00	10,124.00	20,949.36	10,868.00	148.49	148.06	168.60	10,103.97	518.90	758.96	588.00	170.97	4.439		
20,300.00	10,124.00	21,049.36	10,868.00	149.92	149.49	168.60	10,203.97	518.20	758.96	586.41	172.56	4.398		
20,326.14	10,124.00	21,075.50	10,868.00	150.29	149.87	168.60	10,230.11	518.02	758.96	585.99	172.97	4.388		
20,326.61	10,124.00	21,075.72	10,868.00	150.30	149.88	168.60	10,230.33	518.01	758.96	585.99	172.97	4.388		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 802H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.25	0.98	74.98	74.99				
100.00	100.00	100.00	100.00	0.79	0.79	89.25	0.98	74.98	74.99	73.40	1.58	47.335	
200.00	200.00	200.00	200.00	1.45	1.45	89.25	0.98	74.98	74.99	72.09	2.90	25.864	
300.00	300.00	300.00	300.00	1.89	1.89	89.25	0.98	74.98	74.99	71.20	3.79	19.792	
400.00	400.00	400.00	400.00	2.26	2.26	89.25	0.98	74.98	74.99	70.47	4.51	16.619	
500.00	500.00	500.00	500.00	2.57	2.57	89.25	0.98	74.98	74.99	69.85	5.14	14.590	
600.00	600.00	600.00	600.00	2.85	2.85	89.25	0.98	74.98	74.99	69.28	5.70	13.149	
700.00	700.00	700.00	700.00	3.11	3.11	89.25	0.98	74.98	74.99	68.77	6.22	12.056	
800.00	800.00	800.00	800.00	3.35	3.35	89.25	0.98	74.98	74.99	68.29	6.70	11.191	
900.00	900.00	900.00	900.00	3.58	3.58	89.25	0.98	74.98	74.99	67.83	7.15	10.483	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.25	0.98	74.98	74.99	67.40	7.58	9.890	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.25	0.98	74.98	74.99	66.99	7.99	9.383	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.25	0.98	74.98	74.99	66.60	8.38	8.944	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.25	0.98	74.98	74.99	66.22	8.76	8.558	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.25	0.98	74.98	74.99	65.86	9.13	8.215	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.25	0.98	74.98	74.99	65.50	9.48	7.909	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.25	0.98	74.98	74.99	65.16	9.83	7.632	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.25	0.98	74.98	74.99	64.83	10.16	7.380	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.25	0.98	74.98	74.99	64.50	10.49	7.150	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.25	0.98	74.98	74.99	64.18	10.81	6.939	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.25	0.98	74.98	74.99	63.87	11.12	6.744	
2,100.00	2,100.00	2,101.48	2,101.47	5.71	5.73	89.93	0.09	73.97	73.99	62.56	11.43	6.475	
2,200.00	2,200.00	2,202.83	2,202.73	5.86	5.90	92.09	-2.59	70.95	71.05	59.34	11.71	6.067	
2,300.00	2,300.00	2,303.88	2,303.56	6.01	6.08	96.09	-7.04	65.94	66.41	54.42	11.99	5.538	
2,400.00	2,400.00	2,404.47	2,403.72	6.16	6.28	102.63	-13.22	58.98	60.55	48.29	12.26	4.938	
2,500.00	2,500.00	2,503.92	2,502.62	6.30	6.47	111.45	-20.12	51.20	55.07	42.56	12.51	4.402	
2,600.00	2,600.00	2,603.38	2,601.53	6.44	6.68	121.89	-27.01	43.42	51.16	38.41	12.75	4.014	
2,700.00	2,700.00	2,702.83	2,700.44	6.58	6.90	133.58	-33.91	35.64	49.20	36.22	12.98	3.789	
2,800.00	2,799.99	2,802.21	2,799.28	6.73	7.14	32.73	-40.81	27.87	48.32	35.05	13.26	3.643	
2,867.31	2,867.26	2,869.01	2,865.71	6.82	7.31	42.52	-45.44	22.64	48.04	34.56	13.48	3.563 CC	
2,900.00	2,899.91	2,901.41	2,897.93	6.87	7.40	47.62	-47.69	20.11	48.13	34.52	13.61	3.537 ES, SF	
3,000.00	2,999.69	3,000.36	2,996.34	7.03	7.66	64.21	-54.56	12.37	49.95	35.87	14.08	3.548	
3,100.11	3,099.38	3,099.10	3,094.54	7.20	7.94	81.09	-61.41	4.64	55.14	40.49	14.65	3.764	
3,200.00	3,198.72	3,197.45	3,192.35	7.37	8.23	95.36	-68.23	-3.05	64.34	49.13	15.21	4.231	
3,300.00	3,298.17	3,295.90	3,290.26	7.56	8.52	105.67	-75.06	-10.75	76.52	60.80	15.72	4.868	
3,400.00	3,397.63	3,394.35	3,388.17	7.76	8.82	113.01	-81.89	-18.45	90.47	74.27	16.20	5.585	
3,500.00	3,497.08	3,492.80	3,486.08	7.98	9.13	118.35	-88.72	-26.15	105.50	88.83	16.67	6.328	
3,600.00	3,596.53	3,591.25	3,583.99	8.21	9.45	122.34	-95.55	-33.85	121.21	104.06	17.15	7.069	
3,700.00	3,695.98	3,689.70	3,681.90	8.45	9.78	125.41	-102.38	-41.55	137.35	119.72	17.63	7.791	
3,800.00	3,795.43	3,788.15	3,779.81	8.71	10.10	127.83	-109.21	-49.25	153.81	135.68	18.12	8.486	
3,900.00	3,894.88	3,886.60	3,877.72	8.98	10.44	129.78	-116.04	-56.95	170.47	151.84	18.63	9.150	
4,000.00	3,994.34	3,985.05	3,975.63	9.25	10.78	131.39	-122.87	-64.65	187.30	168.15	19.15	9.782	
4,100.00	4,093.79	4,083.50	4,073.54	9.54	11.12	132.72	-129.70	-72.35	204.25	184.57	19.68	10.381	
4,200.00	4,193.24	4,181.95	4,171.46	9.84	11.46	133.86	-136.53	-80.05	221.28	201.07	20.21	10.947	
4,300.00	4,292.69	4,280.40	4,269.37	10.14	11.81	134.83	-143.36	-87.75	238.39	217.63	20.76	11.482	
4,400.00	4,392.14	4,378.85	4,367.28	10.45	12.16	135.67	-150.19	-95.45	255.56	234.24	21.32	11.986	
4,500.00	4,491.60	4,477.30	4,465.19	10.76	12.52	136.41	-157.02	-103.15	272.78	250.89	21.89	12.463	
4,600.00	4,591.05	4,575.75	4,563.10	11.09	12.88	137.05	-163.85	-110.86	290.03	267.57	22.46	12.912	
4,700.00	4,690.50	4,674.21	4,661.01	11.41	13.24	137.63	-170.68	-118.56	307.31	284.27	23.04	13.336	
4,800.00	4,789.95	4,772.66	4,758.92	11.75	13.60	138.14	-177.51	-126.26	324.62	300.99	23.63	13.737	
4,900.00	4,889.40	4,871.11	4,856.83	12.08	13.96	138.60	-184.34	-133.96	341.96	317.73	24.23	14.115	
5,000.00	4,988.86	4,973.70	4,958.89	12.42	14.33	139.06	-191.26	-141.75	359.06	334.22	24.84	14.457	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 802H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM							Rule Assigned:						Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,088.31	5,081.92	5,066.78	12.77	14.71	139.66	-196.85	-148.05	374.03	348.55	25.48	14.680	
5,200.00	5,187.76	5,190.81	5,175.53	13.12	15.08	140.42	-200.42	-152.08	386.51	360.42	26.09	14.815	
5,300.00	5,287.21	5,300.19	5,284.88	13.47	15.38	141.33	-201.94	-153.79	396.51	369.87	26.64	14.886	
5,400.00	5,386.66	5,401.96	5,386.66	13.82	15.43	142.27	-201.99	-153.85	404.81	377.85	26.96	15.013	
5,500.00	5,486.11	5,501.42	5,486.11	14.18	15.47	143.16	-201.99	-153.85	413.14	385.84	27.30	15.133	
5,600.00	5,585.57	5,600.87	5,585.57	14.54	15.52	144.01	-201.99	-153.85	421.57	393.93	27.64	15.250	
5,700.00	5,685.02	5,700.32	5,685.02	14.90	15.57	144.82	-201.99	-153.85	430.09	402.10	27.99	15.364	
5,800.00	5,784.47	5,799.77	5,784.47	15.26	15.61	145.61	-201.99	-153.85	438.70	410.35	28.35	15.475	
5,900.00	5,883.92	5,899.22	5,883.92	15.63	15.66	146.37	-201.99	-153.85	447.38	418.67	28.71	15.583	
6,000.00	5,983.37	5,998.68	5,983.37	16.00	15.71	147.09	-201.99	-153.85	456.14	427.06	29.08	15.687	
6,100.00	6,082.83	6,098.13	6,082.83	16.37	15.76	147.79	-201.99	-153.85	464.96	435.51	29.45	15.789	
6,200.00	6,182.28	6,197.58	6,182.28	16.74	15.81	148.46	-201.99	-153.85	473.85	444.03	29.82	15.888	
6,300.00	6,281.73	6,297.03	6,281.73	17.11	15.86	149.11	-201.99	-153.85	482.81	452.60	30.21	15.984	
6,400.00	6,381.18	6,396.48	6,381.18	17.49	15.91	149.74	-201.99	-153.85	491.82	461.23	30.59	16.078	
6,500.00	6,480.63	6,495.94	6,480.63	17.86	15.96	150.34	-201.99	-153.85	500.90	469.92	30.98	16.168	
6,600.00	6,580.09	6,595.39	6,580.09	18.24	16.01	150.92	-201.99	-153.85	510.02	478.65	31.37	16.257	
6,700.00	6,679.54	6,694.84	6,679.54	18.62	16.06	151.48	-201.99	-153.85	519.19	487.42	31.77	16.343	
6,800.00	6,778.99	6,794.29	6,778.99	19.00	16.11	152.02	-201.99	-153.85	528.42	496.25	32.17	16.426	
6,900.00	6,878.44	6,893.74	6,878.44	19.38	16.16	152.54	-201.99	-153.85	537.68	505.11	32.57	16.507	
7,000.00	6,977.89	6,993.19	6,977.89	19.76	16.21	153.05	-201.99	-153.85	546.99	514.01	32.98	16.586	
7,100.00	7,077.35	7,092.65	7,077.35	20.14	16.26	153.53	-201.99	-153.85	556.34	522.95	33.39	16.663	
7,200.00	7,176.80	7,192.10	7,176.80	20.53	16.31	154.00	-201.99	-153.85	565.73	531.93	33.80	16.737	
7,309.43	7,285.62	7,300.92	7,285.62	20.95	16.37	154.50	-201.99	-153.85	576.05	541.79	34.26	16.814	
7,400.00	7,375.80	7,391.11	7,375.80	21.29	16.42	154.91	-201.99	-153.85	583.65	549.02	34.63	16.854	
7,500.00	7,475.57	7,490.87	7,475.57	21.65	16.47	155.22	-201.99	-153.85	589.81	554.79	35.02	16.842	
7,600.00	7,575.48	7,590.78	7,575.48	21.97	16.52	155.42	-201.99	-153.85	593.60	558.23	35.38	16.780	
7,709.53	7,685.00	7,700.30	7,685.00	22.16	16.58	-90.75	-201.99	-153.85	595.03	559.42	35.61	16.708	
7,800.00	7,775.47	7,790.77	7,775.47	22.19	16.63	-90.75	-201.99	-153.85	595.03	559.34	35.70	16.670	
7,900.00	7,875.47	7,890.77	7,875.47	22.22	16.68	-90.75	-201.99	-153.85	595.03	559.24	35.79	16.625	
8,000.00	7,975.47	7,990.77	7,975.47	22.26	16.73	-90.75	-201.99	-153.85	595.03	559.14	35.89	16.580	
8,100.00	8,075.47	8,090.77	8,075.47	22.30	16.79	-90.75	-201.99	-153.85	595.03	559.05	35.99	16.535	
8,200.00	8,175.47	8,190.77	8,175.47	22.33	16.84	-90.75	-201.99	-153.85	595.03	558.95	36.08	16.490	
8,300.00	8,275.47	8,290.77	8,275.47	22.37	16.90	-90.75	-201.99	-153.85	595.03	558.85	36.18	16.446	
8,400.00	8,375.47	8,390.77	8,375.47	22.41	16.95	-90.75	-201.99	-153.85	595.03	558.75	36.28	16.401	
8,500.00	8,475.47	8,490.77	8,475.47	22.44	17.01	-90.75	-201.99	-153.85	595.03	558.65	36.38	16.356	
8,600.00	8,575.47	8,590.77	8,575.47	22.48	17.06	-90.75	-201.99	-153.85	595.03	558.55	36.48	16.311	
8,700.00	8,675.47	8,690.77	8,675.47	22.52	17.12	-90.75	-201.99	-153.85	595.03	558.45	36.58	16.267	
8,800.00	8,775.47	8,790.77	8,775.47	22.56	17.17	-90.75	-201.99	-153.85	595.03	558.35	36.68	16.222	
8,900.00	8,875.47	8,890.77	8,875.47	22.59	17.23	-90.75	-201.99	-153.85	595.03	558.25	36.78	16.178	
9,000.00	8,975.47	8,990.77	8,975.47	22.63	17.28	-90.75	-201.99	-153.85	595.03	558.15	36.88	16.133	
9,100.00	9,075.47	9,090.77	9,075.47	22.67	17.34	-90.75	-201.99	-153.85	595.03	558.05	36.98	16.089	
9,200.00	9,175.47	9,190.77	9,175.47	22.71	17.39	-90.75	-201.99	-153.85	595.03	557.95	37.09	16.045	
9,300.00	9,275.47	9,290.77	9,275.47	22.75	17.45	-90.75	-201.99	-153.85	595.03	557.84	37.19	16.000	
9,400.00	9,375.47	9,390.77	9,375.47	22.79	17.51	-90.75	-201.99	-153.85	595.03	557.74	37.29	15.956	
9,500.00	9,475.47	9,490.77	9,475.47	22.83	17.56	-90.75	-201.99	-153.85	595.03	557.64	37.39	15.912	
9,575.58	9,551.04	9,566.34	9,551.04	22.85	17.61	-90.75	-201.99	-153.85	595.03	557.57	37.46	15.882	
9,600.00	9,575.46	9,590.76	9,575.46	22.84	17.62	-90.40	-201.99	-153.85	595.03	557.55	37.48	15.875	
9,650.00	9,625.26	9,640.56	9,625.26	22.80	17.65	-90.81	-201.99	-153.85	595.08	557.57	37.51	15.864	
9,700.00	9,674.49	9,689.79	9,674.49	22.74	17.68	-91.61	-201.99	-153.85	595.26	557.74	37.53	15.861	
9,750.00	9,722.78	9,738.09	9,722.78	22.68	17.71	-92.75	-201.99	-153.85	595.77	558.24	37.53	15.873	
9,800.00	9,769.77	9,785.07	9,769.77	22.61	17.73	-94.18	-201.99	-153.85	596.87	559.35	37.53	15.905	
9,850.00	9,815.09	9,830.40	9,815.09	22.55	17.76	-95.80	-201.99	-153.85	598.90	561.40	37.50	15.970	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 802H - OH - Plan #1

Survey Program:		0-MWD+HDGM					Rule Assigned:						Offset Site Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Offset Well Error:		0.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
9,900.00	9,858.41	9,873.71	9,858.41	22.49	17.78	-97.52	-201.99	-153.85	602.25	564.79	37.46	16.078				
9,950.00	9,899.38	9,914.68	9,899.38	22.44	17.81	-99.22	-201.99	-153.85	607.33	569.94	37.39	16.244				
10,000.00	9,937.70	9,953.00	9,937.70	22.40	17.83	-100.80	-201.99	-153.85	614.57	577.27	37.29	16.481				
10,050.00	9,973.08	9,988.38	9,973.08	22.38	17.85	-102.13	-201.99	-153.85	624.34	587.18	37.16	16.802				
10,100.00	10,005.25	10,020.55	10,005.25	22.38	17.87	-103.11	-201.99	-153.85	636.97	599.98	36.99	17.220				
10,150.00	10,033.96	10,049.26	10,033.96	22.39	17.88	-103.64	-201.99	-153.85	652.69	615.90	36.79	17.742				
10,200.00	10,059.00	10,074.30	10,059.00	22.43	17.90	-103.61	-201.99	-153.85	671.63	635.07	36.55	18.374				
10,250.00	10,080.17	10,095.47	10,080.17	22.50	17.91	-102.95	-201.99	-153.85	693.79	657.50	36.29	19.117				
10,300.00	10,097.31	10,112.61	10,097.31	22.59	17.92	-101.57	-201.99	-153.85	719.06	683.05	36.01	19.969				
10,350.00	10,110.29	10,125.60	10,110.29	22.71	17.93	-99.38	-201.99	-153.85	747.23	711.52	35.71	20.923				
10,400.00	10,119.02	10,134.32	10,119.02	22.86	17.93	-96.32	-201.99	-153.85	777.99	742.58	35.41	21.971				
10,450.00	10,123.43	10,138.73	10,123.43	23.03	17.94	-92.37	-201.99	-153.85	810.96	775.85	35.11	23.099				
10,475.58	10,124.00	10,139.30	10,124.00	23.14	17.94	-90.00	-201.99	-153.85	828.55	793.59	34.95	23.703				
10,500.00	10,124.00	10,139.30	10,124.00	23.24	17.94	-90.00	-201.99	-153.85	845.72	810.91	34.81	24.294				
10,600.00	10,124.00	10,139.30	10,124.00	23.71	17.94	-90.00	-201.99	-153.85	919.48	885.19	34.29	26.812				
10,700.00	10,124.00	10,139.30	10,124.00	24.25	17.94	-90.00	-201.99	-153.85	997.82	963.95	33.87	29.461				



Altitude Energy Partners

Anticollision Report



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Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3691.00usft

Offset Depths are relative to Offset Datum

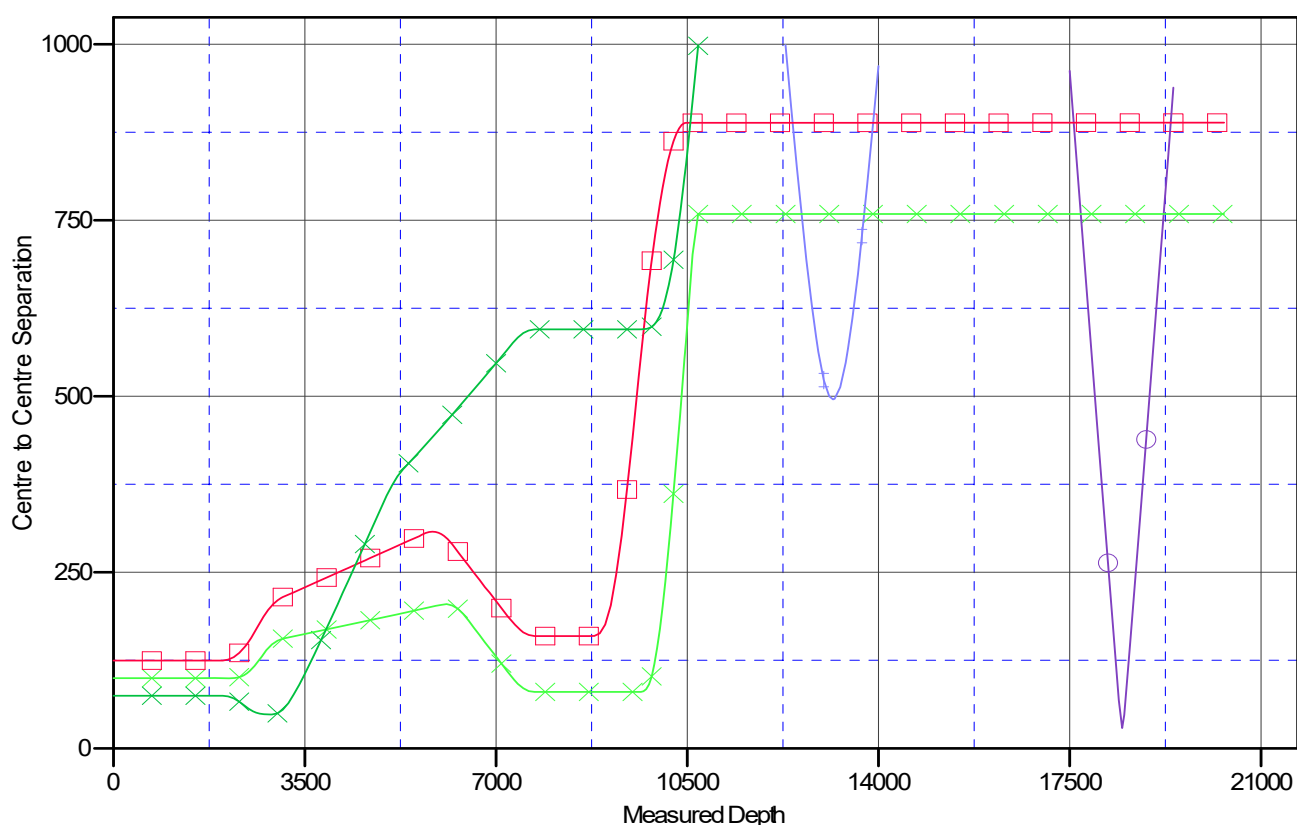
Central Meridian is -104.333334

Coordinates are relative to: Annex State Com 502H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

- 30425/27626 Pre-Ordained Well #001 (P&A), OH, OH V0
- Annex State Qm 702H, OH, Plan #1 V0
- Annex State Qm 802H, OH, Plan #1 V0



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 502H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3691.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30' @ 3691.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 502H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3691.00usft

Offset Depths are relative to Offset Datum

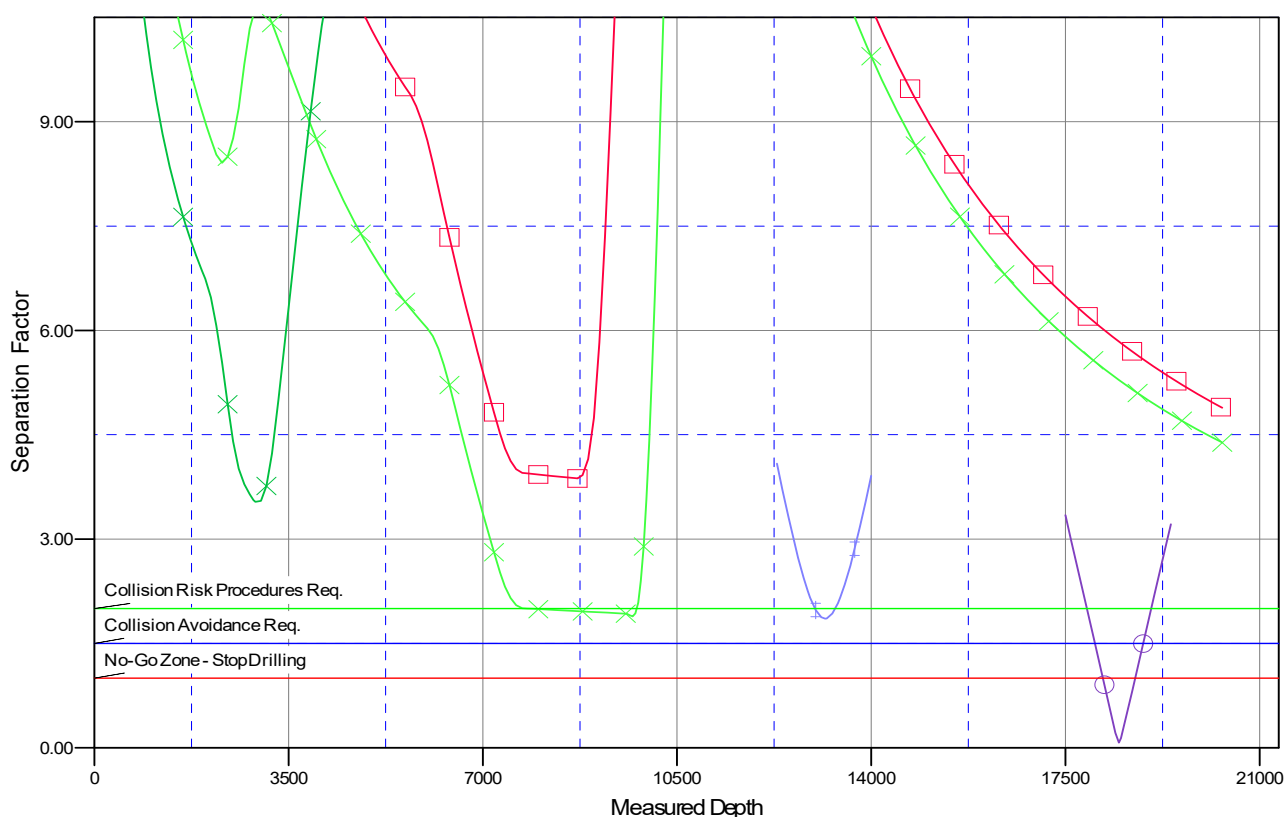
Central Meridian is -104.333334

Coordinates are relative to: Annex State Com 502H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

- 30425-27626 Re-Organized Well #001 (P&A), OH, OH V0
- Annex State Qm 702H, OH, Plan #1 V0
- Annex State Qm 802H, OH, Plan #1 V0
- Coyote State # (P&A), OH, OH V0