

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 340574

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 30-025-51479
4. Property Code 334044	5. Property Name ANNEX STATE COM	6. Well No. 701H

7. Surface Location

UL - Lot M	Section 36	Township 19S	Range 35E	Lot Idn M	Feet From 250	N/S Line S	Feet From 605	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 25	Township 19S	Range 35E	Lot Idn D	Feet From 130	N/S Line N	Feet From 800	E/W Line W	County Lea
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9. Pool Information

PEARL;WOLFCAMP, SOUTH	49870
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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 3667
16. Multiple N	17. Proposed Depth 21106	18. Formation Wolfcamp	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	10300	514	3000
Prod	8.75	5.5	20	21106	2697	10300

Casing/Cement Program: Additional Comments

Please see attached 14 point plan for additional details.

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	Approved By: Paul F Kautz
Title: Project Manager	Title: Geologist
Email Address: roverbey@fmlc.com	Approved Date: 5/19/2023
Date: 5/16/2023	Expiration Date: 5/19/2025
Phone: 303-570-4057	Conditions of Approval Attached

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 49870	³ Pool Name PEARL; WOLFCAMP, SOUTH
⁴ Property Code	⁵ Property Name ANNEX STATE COM	⁶ Well Number 701H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3667.9'

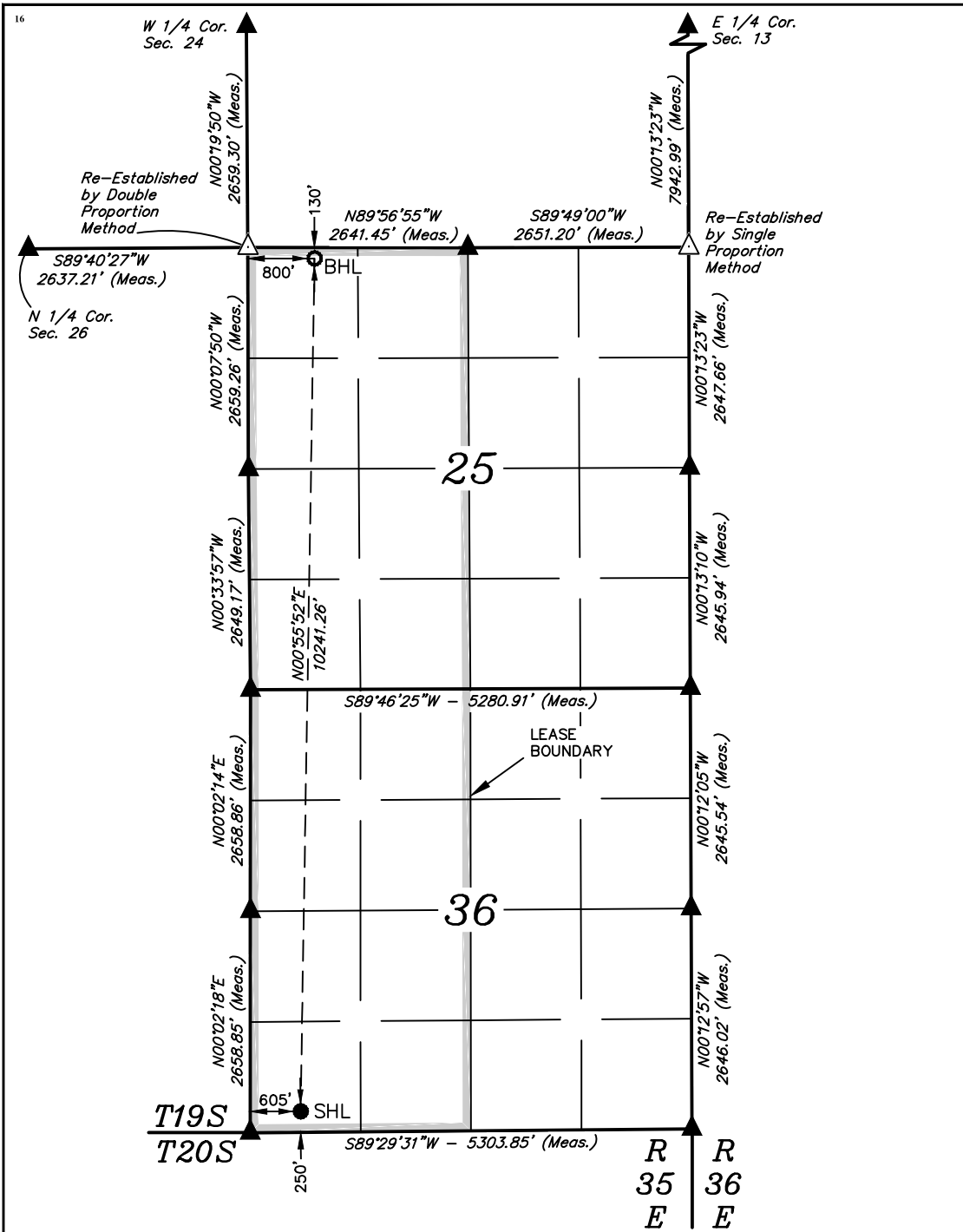
¹⁰ Surface Location

UL or lot no. M	Section 36	Township 19S	Range 35E	Lot Idn	Feet from the 250	North/South line SOUTH	Feet from the 605	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 25	Township 19S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 800	East/West line WEST	County LEA
¹² Dedicated Acres 640	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.



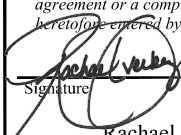
- NOTE:
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

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

NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°36'36.75" (32.610208°)	LATITUDE = 32°38'18.04" (32.638346°)
LONGITUDE = -103°25'02.67" (-103.417407°)	LONGITUDE = -103°25'00.19" (-103.416721°)
NAD 27 (SURFACE HOLE LOCATION)	NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°36'36.31" (32.610085°)	LATITUDE = 32°38'17.60" (32.638223°)
LONGITUDE = -103°25'00.92" (-103.416921°)	LONGITUDE = -103°24'58.44" (-103.416233°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 586939.48' E: 823372.29'	N: 597178.41' E: 823495.34'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 586876.72' E: 782191.02'	N: 597115.43' E: 782314.42'

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.

 4/18/2023
Signature Date

Rachael Overbey

Printed Name

roverbey@fmellc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

April 5, 2023

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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Form APD Comments

Permit 340574

PERMIT COMMENTS

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206		API Number: 30-025-51479
		Well: ANNEX STATE COM #701H
Created By	Comment	Comment Date
pkautz	HOLD NGMP INCOMPLETE	5/19/2023

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Form APD Conditions

Permit 340574

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206	API Number: 30-025-51479
	Well: ANNEX STATE COM #701H

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 701H

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)	3,668'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	1,876'	1,822'			Carbonates
Salado	1,608'	2,090'			Salt, Carbonate & Clastics
Base Salt	451'	3,247'			Shaley Carbonate & Shale
Yates	185'	3,513'			Anhydrite/shale
Seven Rivers	-277'	3,975'			Interbedded shale/carbonate
Queen	-967'	4,665'			Sandstone & dolomite & anhydrite
Delaware Mtn Group	-2,336'	6,033'			Sandstone - oil/gas/water
Bone Spring Lime	-4,161'	7,859'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,544'	9,242'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,794'	9,492'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6,144'	9,842'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,699'	10,397'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,800'	10,498'			Sandstone - oil/gas/water
Wolfcamp	-6,903'	10,601'			Overpressure shale/sand- Oil/Gas
HZ Target	-7,202'	10,900'			Overpressure Shale - Oil/Gas
Wolfcamp B	-7,393'	11,091'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,033'	Oil
1 st Bone Spring Sand	9,242'	Oil
2 nd Bone Spring Sand	9,842'	Oil
3 rd Bone Spring Sand	10,498'	Oil
Wolfcamp	10,601'	Oil
Wolfcamp B	11,091'	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" 0-1,900'	54.5	J-55	2730	1130	853	BTC 909	1900	1.02	1.14	4.19	4.47
Intermediate 9 5/8" 0-4,000'	40	HCL-80	7430	4230	916	BTC 1042	4000	2.08	2.26	3.52	4.01
Production 7" 0-10,300'	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	10300	1.94	2.23	2.39	2.45
Production 5 1/2" 10,300'-21,106'	20	HCP-110	12640	12200	641	CDC-HTQ 667 TVD	10806 10900	1.15	2.41	2.03	2.11 2.10

Tapered production string will be ran with a X-over installed at the KOP of 10,300'.

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 ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft3/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 Lead, 11.3 ppg, HSLD 82	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1500	100%
Int	12.25	9.625	4000	640	10% Gel, 4% STE, 2#/sk, Gyp Seal HSLD 9420,	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	0-10300	514	10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	10300-21106						2697	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	10300	50%

**Contingency plan:**

If adverse drilling conditions are encountered the drilling will pivot to contingency plan to deepen Intermediate casing string and run 2-stage cement job on it.

4.a Contingency Casing Program

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8" 0-1,900'	54.5	J-55	2730	1130	853	BTC 909	1900	1.02	1.14	4.19	4.47
Intermediate 9 5/8" 0-8,000'	40	HCL-80	7430	4230	916	BTC 1042	8000	1.31	1.13	2.18	2.48
Production 7" 0-10,300'	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	10300	1.94	2.23	2.39	2.45
Production 5 1/2" 10,300'-21,106'	20	HCP-110	12640	12200	641	CDC-HTQ 667 TVD	10806 10900	1.15	2.41	2.03	2.11 2.10

Contingency Cementing Program:

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft3/sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft3/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 St 1	12.25	9.625	8000	823	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	4000	188	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	7600	100%
Int St 2	12.25	9.625	4000	732	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	0						100%
Prod	8.75	7	0-10300	213	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	7000						100%
Prod	8.75	5.5	10300-21106						2697	HSLD 80, 13.ppg, 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	10300	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' – 21,106' Lateral	Oil Base	9.0-11.0	58-68	3 - 6

Contingency mud system:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,900'	Fresh - Gel	8.6-8.8	28-34	N/c
1,900' – 8,000'	Brine	8.8-10.2	28-34	N/c
8,000' – 21,106' 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 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 10,900' TVD (deepest point of the well) is 165F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,801 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 ½" production casing due to the tight clearance with 8 ¾" hole.

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy 3, LLC **OGRID:** 331595 **Date:** 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

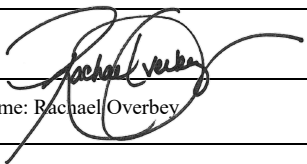
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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.

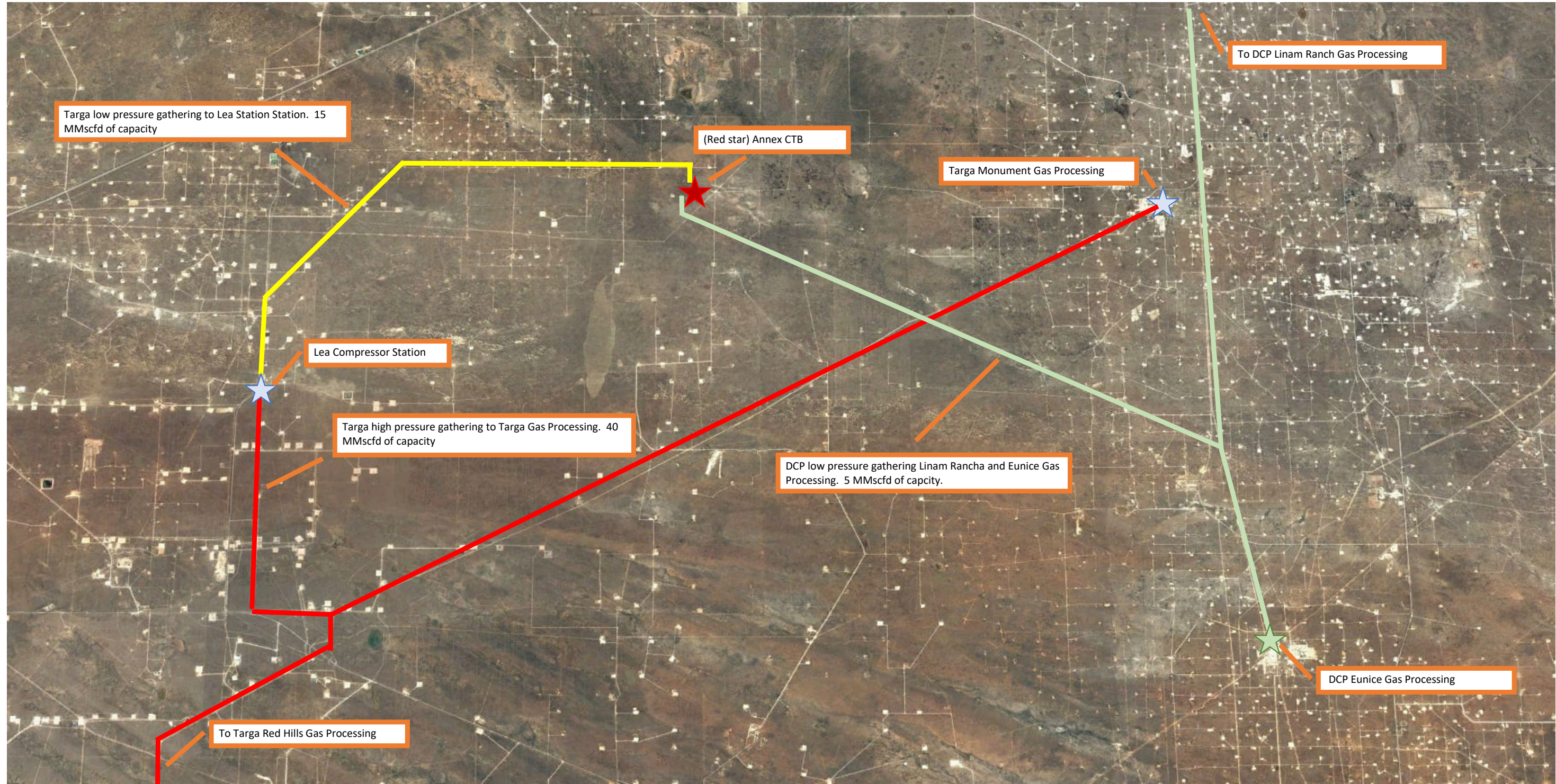
- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- *Drilling Operations:*
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 - 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 701H

OH

Plan: Plan #2

Standard Planning Report

15 May, 2023





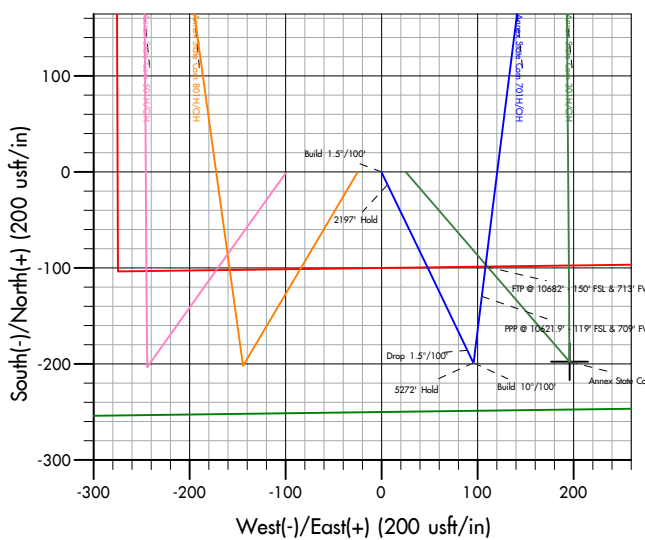
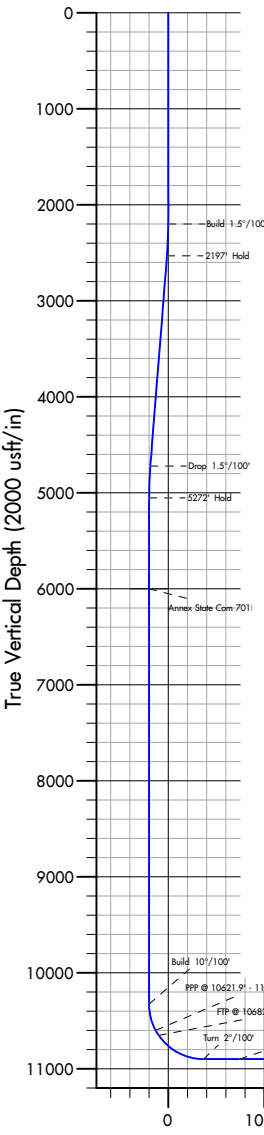
Project: Lea Co., NM (NAD-83)
Site: Annex State Com Pads
Well: Annex State Com 701H
Wellbore: OH
Design: Plan #2
Lat: 32.610208
Long: -103.417407
GL: 3668.00
KB: KB=30 @ 3698.00usft



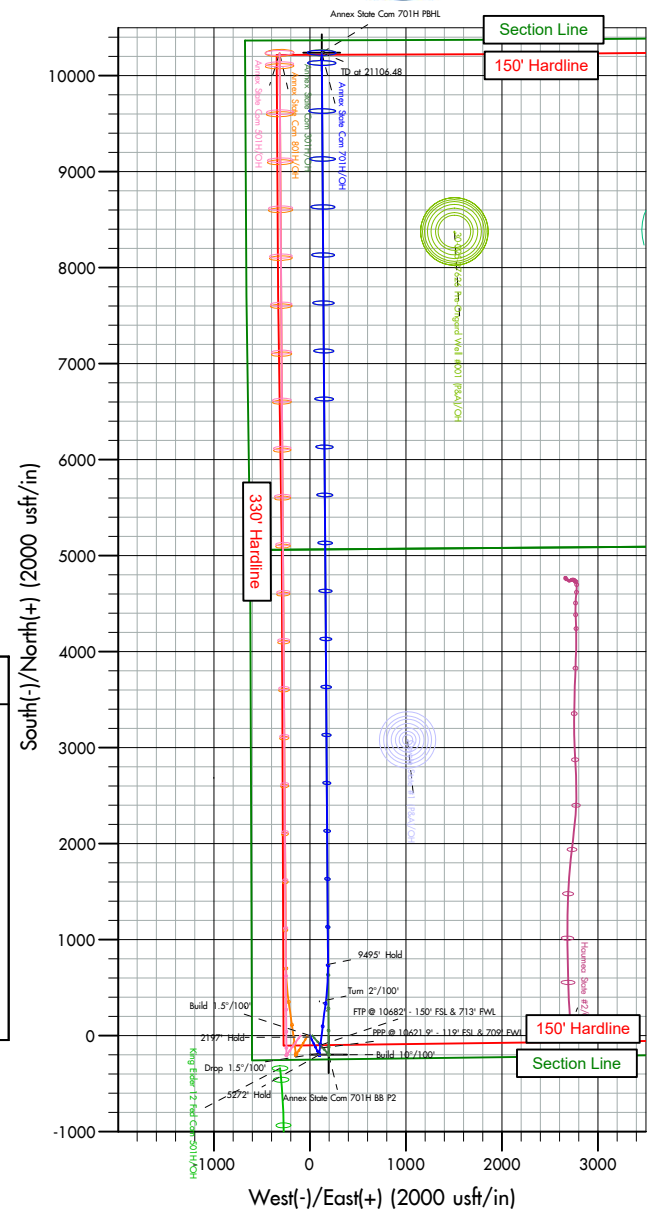
WELL DETAILS: Annex State Com 701H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	586939.48	823372.29	32.610208	-103.417407	

WELBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Annex State Com 701H BB P2	6000.00	-197.42	195.80	586742.06	823568.09	Point
Annex State Com 701H PBHL	10900.00	10238.93	123.05	597178.41	823495.34	Point

SECTION DETAILS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'	
2533.37	5.00	154.26	2532.94	-13.10	6.31	1.50	154.26	-13.14	2197' Hold	
4730.84	5.00	154.26	4722.06	-185.63	89.50	0.00	0.00	-186.25	Drop 1.5°/100'	
5064.21	0.00	0.00	5055.00	-198.73	95.81	1.50	180.00	-199.39	5272' Hold	
10336.25	0.00	0.00	10327.04	-198.73	95.81	0.00	0.00	-199.39	Build 10°/100'	
11236.25	90.00	7.10	10900.00	369.84	166.63	10.00	7.10	368.67	Turn 2°/100'	
11611.01	90.00	359.60	10900.00	743.68	188.53	2.00	-90.00	742.35	9495' Hold	
21106.48	90.00	359.60	10900.00	10238.93	123.05	0.00	0.00	10237.82	TD at 21106.48	



FORMATION TOPS		
TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1822.00	1822.00	Rustler
2090.00	2090.00	Salado
3247.00	3250.15	Base Salt
3513.00	3517.17	Yates
3975.00	3980.93	Seven Rivers
4665.00	4673.57	Queen
6033.00	6042.21	Delaware Mtn Group
7859.00	7868.21	Bone Spring Lime
9242.00	9251.21	First Bone Spring Sand
9492.00	9501.21	Second Bone Spring Carbonate
9842.00	9851.21	Second Bone Spring Sand
10397.00	10406.38	Third Bone Spring Carbonate
10498.00	10509.85	Third Bone Spring Sand
10601.00	10621.90	Wolfcamp
10900.00	11236.25	HZ Target



Azimuths to Grid North
True North: -0.49°
Magnetic North: 5.74°

Magnetic Field
Strength: 47643.5nT
Dip Angle: 60.42°
Date: 5/9/2023
Model: HRGM



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	Latitude:	32.610209
From:	Map	Easting:	823,397.28 usft	Longitude:	-103.417326
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Annex State Com 701H					
Well Position	+N/-S	0.00 usft	Northing:	586,939.48 usft	Latitude:	32.610208
	+E/-W	0.00 usft	Easting:	823,372.29 usft	Longitude:	-103.417407
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,668.00 usft
Grid Convergence:		0.49 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	5/9/2023	6.23	60.42	47,643.45141459

Design	Plan #2			
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	5/15/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	21,106.44 Plan #2 (OH)	MWD+HDGM	
			OWSG MWD + HRGM	



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,533.37	5.00	154.26	2,532.94	-13.10	6.31	1.50	1.50	0.00	154.26	
4,730.84	5.00	154.26	4,722.06	-185.63	89.50	0.00	0.00	0.00	0.00	
5,064.21	0.00	0.00	5,055.00	-198.73	95.81	1.50	-1.50	0.00	180.00	
10,336.25	0.00	0.00	10,327.04	-198.73	95.81	0.00	0.00	0.00	0.00	
11,236.25	90.00	7.10	10,900.00	369.84	166.63	10.00	10.00	0.00	7.10	
11,611.01	90.00	359.60	10,900.00	743.68	188.53	2.00	0.00	-2.00	-90.00	
21,106.48	90.00	359.60	10,900.00	10,238.93	123.05	0.00	0.00	0.00	0.00	Annex State Com 7



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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
1,822.00	0.00	0.00	1,822.00	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
2,090.00	0.00	0.00	2,090.00	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
Build 1.5°/100'									
2,300.00	1.50	154.26	2,299.99	-1.18	0.57	-1.18	1.50	1.50	0.00
2,400.00	3.00	154.26	2,399.91	-4.72	2.27	-4.73	1.50	1.50	0.00
2,500.00	4.50	154.26	2,499.69	-10.61	5.11	-10.64	1.50	1.50	0.00
2,533.37	5.00	154.26	2,532.94	-13.10	6.31	-13.14	1.50	1.50	0.00
2197' Hold									
2,600.00	5.00	154.26	2,599.32	-18.33	8.84	-18.39	0.00	0.00	0.00
2,700.00	5.00	154.26	2,698.94	-26.18	12.62	-26.27	0.00	0.00	0.00
2,800.00	5.00	154.26	2,798.56	-34.03	16.41	-34.14	0.00	0.00	0.00
2,900.00	5.00	154.26	2,898.18	-41.88	20.19	-42.02	0.00	0.00	0.00
3,000.00	5.00	154.26	2,997.80	-49.73	23.98	-49.90	0.00	0.00	0.00
3,100.00	5.00	154.26	3,097.42	-57.59	27.76	-57.78	0.00	0.00	0.00
3,200.00	5.00	154.26	3,197.04	-65.44	31.55	-65.66	0.00	0.00	0.00
3,250.15	5.00	154.26	3,247.00	-69.37	33.45	-69.61	0.00	0.00	0.00
Base Salt									
3,300.00	5.00	154.26	3,296.66	-73.29	35.33	-73.53	0.00	0.00	0.00
3,400.00	5.00	154.26	3,396.28	-81.14	39.12	-81.41	0.00	0.00	0.00
3,500.00	5.00	154.26	3,495.90	-88.99	42.91	-89.29	0.00	0.00	0.00
3,517.17	5.00	154.26	3,513.00	-90.34	43.55	-90.64	0.00	0.00	0.00
Yates									
3,600.00	5.00	154.26	3,595.52	-96.84	46.69	-97.17	0.00	0.00	0.00
3,700.00	5.00	154.26	3,695.14	-104.69	50.48	-105.04	0.00	0.00	0.00
3,800.00	5.00	154.26	3,794.76	-112.55	54.26	-112.92	0.00	0.00	0.00
3,900.00	5.00	154.26	3,894.38	-120.40	58.05	-120.80	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
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Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
3,980.93	5.00	154.26	3,975.00	-126.75	61.11	-127.18	0.00	0.00	0.00
Seven Rivers									
4,000.00	5.00	154.26	3,993.99	-128.25	61.83	-128.68	0.00	0.00	0.00
4,100.00	5.00	154.26	4,093.61	-136.10	65.62	-136.56	0.00	0.00	0.00
4,200.00	5.00	154.26	4,193.23	-143.95	69.40	-144.43	0.00	0.00	0.00
4,300.00	5.00	154.26	4,292.85	-151.80	73.19	-152.31	0.00	0.00	0.00
4,400.00	5.00	154.26	4,392.47	-159.66	76.97	-160.19	0.00	0.00	0.00
4,500.00	5.00	154.26	4,492.09	-167.51	80.76	-168.07	0.00	0.00	0.00
4,600.00	5.00	154.26	4,591.71	-175.36	84.54	-175.94	0.00	0.00	0.00
4,673.57	5.00	154.26	4,665.00	-181.13	87.33	-181.74	0.00	0.00	0.00
Queen									
4,700.00	5.00	154.26	4,691.33	-183.21	88.33	-183.82	0.00	0.00	0.00
4,730.84	5.00	154.26	4,722.06	-185.63	89.50	-186.25	0.00	0.00	0.00
Drop 1.5°/100'									
4,800.00	3.96	154.26	4,791.00	-190.50	91.84	-191.14	1.50	-1.50	0.00
4,900.00	2.46	154.26	4,890.84	-195.55	94.28	-196.20	1.50	-1.50	0.00
5,000.00	0.96	154.26	4,990.79	-198.24	95.58	-198.90	1.50	-1.50	0.00
5,064.21	0.00	0.00	5,055.00	-198.73	95.81	-199.39	1.50	-1.50	0.00
5272' Hold									
5,100.00	0.00	0.00	5,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,200.00	0.00	0.00	5,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,300.00	0.00	0.00	5,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,400.00	0.00	0.00	5,390.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,500.00	0.00	0.00	5,490.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,600.00	0.00	0.00	5,590.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,700.00	0.00	0.00	5,690.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,800.00	0.00	0.00	5,790.79	-198.73	95.81	-199.39	0.00	0.00	0.00
5,900.00	0.00	0.00	5,890.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,000.00	0.00	0.00	5,990.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,042.21	0.00	0.00	6,033.00	-198.73	95.81	-199.39	0.00	0.00	0.00
Delaware Mtn Group									
6,100.00	0.00	0.00	6,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,200.00	0.00	0.00	6,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,300.00	0.00	0.00	6,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,400.00	0.00	0.00	6,390.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,500.00	0.00	0.00	6,490.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,600.00	0.00	0.00	6,590.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,700.00	0.00	0.00	6,690.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,800.00	0.00	0.00	6,790.79	-198.73	95.81	-199.39	0.00	0.00	0.00
6,900.00	0.00	0.00	6,890.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,000.00	0.00	0.00	6,990.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,100.00	0.00	0.00	7,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,200.00	0.00	0.00	7,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,300.00	0.00	0.00	7,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,400.00	0.00	0.00	7,390.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,500.00	0.00	0.00	7,490.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,600.00	0.00	0.00	7,590.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,700.00	0.00	0.00	7,690.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,800.00	0.00	0.00	7,790.79	-198.73	95.81	-199.39	0.00	0.00	0.00
7,868.21	0.00	0.00	7,859.00	-198.73	95.81	-199.39	0.00	0.00	0.00
Bone Spring Lime									
7,900.00	0.00	0.00	7,890.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,000.00	0.00	0.00	7,990.79	-198.73	95.81	-199.39	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



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Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
8,100.00	0.00	0.00	8,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,200.00	0.00	0.00	8,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,300.00	0.00	0.00	8,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,400.00	0.00	0.00	8,390.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,500.00	0.00	0.00	8,490.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,600.00	0.00	0.00	8,590.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,700.00	0.00	0.00	8,690.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,800.00	0.00	0.00	8,790.79	-198.73	95.81	-199.39	0.00	0.00	0.00
8,900.00	0.00	0.00	8,890.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,000.00	0.00	0.00	8,990.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,100.00	0.00	0.00	9,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,200.00	0.00	0.00	9,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,251.21	0.00	0.00	9,242.00	-198.73	95.81	-199.39	0.00	0.00	0.00
First Bone Spring Sand									
9,300.00	0.00	0.00	9,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,400.00	0.00	0.00	9,390.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,500.00	0.00	0.00	9,490.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,501.21	0.00	0.00	9,492.00	-198.73	95.81	-199.39	0.00	0.00	0.00
Second Bone Spring Carbonate									
9,600.00	0.00	0.00	9,590.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,700.00	0.00	0.00	9,690.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,800.00	0.00	0.00	9,790.79	-198.73	95.81	-199.39	0.00	0.00	0.00
9,851.21	0.00	0.00	9,842.00	-198.73	95.81	-199.39	0.00	0.00	0.00
Second Bone Spring Sand									
9,900.00	0.00	0.00	9,890.79	-198.73	95.81	-199.39	0.00	0.00	0.00
10,000.00	0.00	0.00	9,990.79	-198.73	95.81	-199.39	0.00	0.00	0.00
10,100.00	0.00	0.00	10,090.79	-198.73	95.81	-199.39	0.00	0.00	0.00
10,200.00	0.00	0.00	10,190.79	-198.73	95.81	-199.39	0.00	0.00	0.00
10,300.00	0.00	0.00	10,290.79	-198.73	95.81	-199.39	0.00	0.00	0.00
10,336.25	0.00	0.00	10,327.04	-198.73	95.81	-199.39	0.00	0.00	0.00
Build 10°/100'									
10,350.00	1.38	7.10	10,340.79	-198.56	95.83	-199.23	10.00	10.00	0.00
10,400.00	6.38	7.10	10,390.66	-195.21	96.25	-195.88	10.00	10.00	0.00
10,406.39	7.01	7.10	10,397.00	-194.47	96.34	-195.14	10.00	10.00	0.00
Third Bone Spring Carbonate									
10,450.00	11.38	7.10	10,440.04	-187.56	97.20	-188.23	10.00	10.00	0.00
10,500.00	16.38	7.10	10,488.57	-175.66	98.68	-176.35	10.00	10.00	0.00
10,509.85	17.36	7.10	10,498.00	-172.83	99.04	-173.51	10.00	10.00	0.00
Third Bone Spring Sand									
10,550.00	21.38	7.10	10,535.87	-159.62	100.68	-160.32	10.00	10.00	0.00
10,600.00	26.38	7.10	10,581.57	-139.54	103.18	-140.26	10.00	10.00	0.00
10,621.90	28.56	7.10	10,601.00	-129.52	104.43	-130.25	10.00	10.00	0.00
PPP @ 10621.9' - 119' FSL & 709' FWL - Wolfcamp									
10,650.00	31.38	7.10	10,625.34	-115.59	106.17	-116.33	10.00	10.00	0.00
10,682.00	34.58	7.10	10,652.19	-98.31	108.32	-99.06	10.00	10.00	0.00
FTP @ 10682' - 150' FSL & 713' FWL									
10,700.00	36.38	7.10	10,666.84	-87.94	109.61	-88.71	10.00	10.00	0.00
10,750.00	41.38	7.10	10,705.76	-56.81	113.49	-57.60	10.00	10.00	0.00
10,800.00	46.38	7.10	10,741.79	-22.44	117.77	-23.26	10.00	10.00	0.00
10,850.00	51.38	7.10	10,774.66	14.93	122.42	14.07	10.00	10.00	0.00
10,900.00	56.38	7.10	10,804.13	54.99	127.41	54.10	10.00	10.00	0.00
10,950.00	61.38	7.10	10,829.97	97.45	132.70	96.52	10.00	10.00	0.00
11,000.00	66.38	7.10	10,851.98	141.99	138.25	141.02	10.00	10.00	0.00



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Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
11,050.00	71.38	7.10	10,869.99	188.25	144.01	187.24	10.00	10.00	0.00
11,100.00	76.38	7.10	10,883.87	235.90	149.95	234.85	10.00	10.00	0.00
11,150.00	81.38	7.10	10,893.52	284.57	156.01	283.48	10.00	10.00	0.00
11,200.00	86.38	7.10	10,898.85	333.89	162.15	332.75	10.00	10.00	0.00
11,236.25	90.00	7.10	10,900.00	369.84	166.63	368.67	10.00	10.00	0.00
Turn 2°/100' - HZ Target									
11,300.00	90.00	5.82	10,900.00	433.18	173.81	431.96	2.00	0.00	-2.00
11,400.00	90.00	3.82	10,900.00	532.82	182.22	531.54	2.00	0.00	-2.00
11,500.00	90.00	1.82	10,900.00	632.70	187.14	631.37	2.00	0.00	-2.00
11,600.00	90.00	359.83	10,900.00	732.68	188.58	731.35	2.00	0.00	-2.00
11,611.01	90.00	359.60	10,900.00	743.68	188.53	742.35	2.00	0.00	-2.00
9495' Hold									
11,700.00	90.00	359.60	10,900.00	832.68	187.92	831.35	0.00	0.00	0.00
11,800.00	90.00	359.60	10,900.00	932.68	187.23	931.35	0.00	0.00	0.00
11,900.00	90.00	359.60	10,900.00	1,032.67	186.54	1,031.35	0.00	0.00	0.00
12,000.00	90.00	359.60	10,900.00	1,132.67	185.85	1,131.35	0.00	0.00	0.00
12,100.00	90.00	359.60	10,900.00	1,232.67	185.16	1,231.35	0.00	0.00	0.00
12,200.00	90.00	359.60	10,900.00	1,332.67	184.47	1,331.35	0.00	0.00	0.00
12,300.00	90.00	359.60	10,900.00	1,432.66	183.78	1,431.35	0.00	0.00	0.00
12,400.00	90.00	359.60	10,900.00	1,532.66	183.09	1,531.35	0.00	0.00	0.00
12,500.00	90.00	359.60	10,900.00	1,632.66	182.40	1,631.35	0.00	0.00	0.00
12,600.00	90.00	359.60	10,900.00	1,732.66	181.71	1,731.35	0.00	0.00	0.00
12,700.00	90.00	359.60	10,900.00	1,832.65	181.02	1,831.35	0.00	0.00	0.00
12,800.00	90.00	359.60	10,900.00	1,932.65	180.33	1,931.35	0.00	0.00	0.00
12,900.00	90.00	359.60	10,900.00	2,032.65	179.64	2,031.35	0.00	0.00	0.00
13,000.00	90.00	359.60	10,900.00	2,132.65	178.95	2,131.35	0.00	0.00	0.00
13,100.00	90.00	359.60	10,900.00	2,232.64	178.26	2,231.35	0.00	0.00	0.00
13,200.00	90.00	359.60	10,900.00	2,332.64	177.57	2,331.35	0.00	0.00	0.00
13,300.00	90.00	359.60	10,900.00	2,432.64	176.88	2,431.35	0.00	0.00	0.00
13,400.00	90.00	359.60	10,900.00	2,532.64	176.19	2,531.35	0.00	0.00	0.00
13,500.00	90.00	359.60	10,900.00	2,632.63	175.50	2,631.35	0.00	0.00	0.00
13,600.00	90.00	359.60	10,900.00	2,732.63	174.81	2,731.35	0.00	0.00	0.00
13,700.00	90.00	359.60	10,900.00	2,832.63	174.12	2,831.35	0.00	0.00	0.00
13,800.00	90.00	359.60	10,900.00	2,932.63	173.43	2,931.35	0.00	0.00	0.00
13,900.00	90.00	359.60	10,900.00	3,032.63	172.74	3,031.35	0.00	0.00	0.00
14,000.00	90.00	359.60	10,900.00	3,132.62	172.06	3,131.35	0.00	0.00	0.00
14,100.00	90.00	359.60	10,900.00	3,232.62	171.37	3,231.35	0.00	0.00	0.00
14,200.00	90.00	359.60	10,900.00	3,332.62	170.68	3,331.35	0.00	0.00	0.00
14,300.00	90.00	359.60	10,900.00	3,432.62	169.99	3,431.35	0.00	0.00	0.00
14,400.00	90.00	359.60	10,900.00	3,532.61	169.30	3,531.35	0.00	0.00	0.00
14,500.00	90.00	359.60	10,900.00	3,632.61	168.61	3,631.35	0.00	0.00	0.00
14,600.00	90.00	359.60	10,900.00	3,732.61	167.92	3,731.35	0.00	0.00	0.00
14,700.00	90.00	359.60	10,900.00	3,832.61	167.23	3,831.35	0.00	0.00	0.00
14,800.00	90.00	359.60	10,900.00	3,932.60	166.54	3,931.35	0.00	0.00	0.00
14,900.00	90.00	359.60	10,900.00	4,032.60	165.85	4,031.35	0.00	0.00	0.00
15,000.00	90.00	359.60	10,900.00	4,132.60	165.16	4,131.35	0.00	0.00	0.00
15,100.00	90.00	359.60	10,900.00	4,232.60	164.47	4,231.35	0.00	0.00	0.00
15,200.00	90.00	359.60	10,900.00	4,332.59	163.78	4,331.35	0.00	0.00	0.00
15,300.00	90.00	359.60	10,900.00	4,432.59	163.09	4,431.35	0.00	0.00	0.00
15,400.00	90.00	359.60	10,900.00	4,532.59	162.40	4,531.35	0.00	0.00	0.00
15,500.00	90.00	359.60	10,900.00	4,632.59	161.71	4,631.35	0.00	0.00	0.00
15,600.00	90.00	359.60	10,900.00	4,732.58	161.02	4,731.35	0.00	0.00	0.00
15,700.00	90.00	359.60	10,900.00	4,832.58	160.33	4,831.35	0.00	0.00	0.00
15,800.00	90.00	359.60	10,900.00	4,932.58	159.64	4,931.35	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
15,900.00	90.00	359.60	10,900.00	5,032.58	158.95	5,031.35	0.00	0.00	0.00
16,000.00	90.00	359.60	10,900.00	5,132.58	158.26	5,131.35	0.00	0.00	0.00
16,100.00	90.00	359.60	10,900.00	5,232.57	157.57	5,231.35	0.00	0.00	0.00
16,200.00	90.00	359.60	10,900.00	5,332.57	156.88	5,331.35	0.00	0.00	0.00
16,300.00	90.00	359.60	10,900.00	5,432.57	156.19	5,431.35	0.00	0.00	0.00
16,400.00	90.00	359.60	10,900.00	5,532.57	155.51	5,531.35	0.00	0.00	0.00
16,500.00	90.00	359.60	10,900.00	5,632.56	154.82	5,631.35	0.00	0.00	0.00
16,600.00	90.00	359.60	10,900.00	5,732.56	154.13	5,731.35	0.00	0.00	0.00
16,700.00	90.00	359.60	10,900.00	5,832.56	153.44	5,831.35	0.00	0.00	0.00
16,800.00	90.00	359.60	10,900.00	5,932.56	152.75	5,931.35	0.00	0.00	0.00
16,900.00	90.00	359.60	10,900.00	6,032.55	152.06	6,031.35	0.00	0.00	0.00
17,000.00	90.00	359.60	10,900.00	6,132.55	151.37	6,131.35	0.00	0.00	0.00
17,100.00	90.00	359.60	10,900.00	6,232.55	150.68	6,231.35	0.00	0.00	0.00
17,200.00	90.00	359.60	10,900.00	6,332.55	149.99	6,331.35	0.00	0.00	0.00
17,300.00	90.00	359.60	10,900.00	6,432.54	149.30	6,431.35	0.00	0.00	0.00
17,400.00	90.00	359.60	10,900.00	6,532.54	148.61	6,531.35	0.00	0.00	0.00
17,500.00	90.00	359.60	10,900.00	6,632.54	147.92	6,631.35	0.00	0.00	0.00
17,600.00	90.00	359.60	10,900.00	6,732.54	147.23	6,731.35	0.00	0.00	0.00
17,700.00	90.00	359.60	10,900.00	6,832.53	146.54	6,831.35	0.00	0.00	0.00
17,800.00	90.00	359.60	10,900.00	6,932.53	145.85	6,931.35	0.00	0.00	0.00
17,900.00	90.00	359.60	10,900.00	7,032.53	145.16	7,031.35	0.00	0.00	0.00
18,000.00	90.00	359.60	10,900.00	7,132.53	144.47	7,131.35	0.00	0.00	0.00
18,100.00	90.00	359.60	10,900.00	7,232.53	143.78	7,231.35	0.00	0.00	0.00
18,200.00	90.00	359.60	10,900.00	7,332.52	143.09	7,331.35	0.00	0.00	0.00
18,300.00	90.00	359.60	10,900.00	7,432.52	142.40	7,431.35	0.00	0.00	0.00
18,400.00	90.00	359.60	10,900.00	7,532.52	141.71	7,531.35	0.00	0.00	0.00
18,500.00	90.00	359.60	10,900.00	7,632.52	141.02	7,631.35	0.00	0.00	0.00
18,600.00	90.00	359.60	10,900.00	7,732.51	140.33	7,731.35	0.00	0.00	0.00
18,700.00	90.00	359.60	10,900.00	7,832.51	139.64	7,831.35	0.00	0.00	0.00
18,800.00	90.00	359.60	10,900.00	7,932.51	138.96	7,931.35	0.00	0.00	0.00
18,900.00	90.00	359.60	10,900.00	8,032.51	138.27	8,031.35	0.00	0.00	0.00
19,000.00	90.00	359.60	10,900.00	8,132.50	137.58	8,131.35	0.00	0.00	0.00
19,100.00	90.00	359.60	10,900.00	8,232.50	136.89	8,231.35	0.00	0.00	0.00
19,200.00	90.00	359.60	10,900.00	8,332.50	136.20	8,331.35	0.00	0.00	0.00
19,300.00	90.00	359.60	10,900.00	8,432.50	135.51	8,431.35	0.00	0.00	0.00
19,400.00	90.00	359.60	10,900.00	8,532.49	134.82	8,531.35	0.00	0.00	0.00
19,500.00	90.00	359.60	10,900.00	8,632.49	134.13	8,631.35	0.00	0.00	0.00
19,600.00	90.00	359.60	10,900.00	8,732.49	133.44	8,731.35	0.00	0.00	0.00
19,700.00	90.00	359.60	10,900.00	8,832.49	132.75	8,831.35	0.00	0.00	0.00
19,800.00	90.00	359.60	10,900.00	8,932.49	132.06	8,931.35	0.00	0.00	0.00
19,900.00	90.00	359.60	10,900.00	9,032.48	131.37	9,031.35	0.00	0.00	0.00
20,000.00	90.00	359.60	10,900.00	9,132.48	130.68	9,131.35	0.00	0.00	0.00
20,100.00	90.00	359.60	10,900.00	9,232.48	129.99	9,231.35	0.00	0.00	0.00
20,200.00	90.00	359.60	10,900.00	9,332.48	129.30	9,331.35	0.00	0.00	0.00
20,300.00	90.00	359.60	10,900.00	9,432.47	128.61	9,431.35	0.00	0.00	0.00
20,400.00	90.00	359.60	10,900.00	9,532.47	127.92	9,531.35	0.00	0.00	0.00
20,500.00	90.00	359.60	10,900.00	9,632.47	127.23	9,631.35	0.00	0.00	0.00
20,600.00	90.00	359.60	10,900.00	9,732.47	126.54	9,731.35	0.00	0.00	0.00
20,700.00	90.00	359.60	10,900.00	9,832.46	125.85	9,831.35	0.00	0.00	0.00
20,800.00	90.00	359.60	10,900.00	9,932.46	125.16	9,931.35	0.00	0.00	0.00
20,900.00	90.00	359.60	10,900.00	10,032.46	124.47	10,031.35	0.00	0.00	0.00
21,000.00	90.00	359.60	10,900.00	10,132.46	123.78	10,131.35	0.00	0.00	0.00
21,106.48	90.00	359.60	10,900.00	10,238.93	123.05	10,237.82	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
TD at 21106.48									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Annex State Com 701	0.00	0.00	6,000.00	-197.42	195.80	586,742.07	823,568.09	32.609661	-103.416777
- plan misses target center by 100.00usft at 6009.21usft MD (6000.00 TVD, -198.73 N, 95.81 E)									
- Point									
Annex State Com 701	0.00	0.00	10,900.00	10,238.93	123.05	597,178.41	823,495.34	32.638346	-103.416721
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
1,822.00	1,822.00	Rustler				
2,090.00	2,090.00	Salado				
3,250.15	3,247.00	Base Salt				
3,517.17	3,513.00	Yates				
3,980.93	3,975.00	Seven Rivers				
4,673.57	4,665.00	Queen				
6,042.21	6,033.00	Delaware Mtn Group				
7,868.21	7,859.00	Bone Spring Lime				
9,251.21	9,242.00	First Bone Spring Sand				
9,501.21	9,492.00	Second Bone Spring Carbonate				
9,851.21	9,842.00	Second Bone Spring Sand				
10,406.39	10,397.00	Third Bone Spring Carbonate				
10,509.85	10,498.00	Third Bone Spring Sand				
10,621.90	10,601.00	Wolfcamp				
11,236.25	10,900.00	HZ Target				



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Annex State Com 701H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30 @ 3698.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30 @ 3698.00usft
Site:	Annex State Com Pads	North Reference:	Grid
Well:	Annex State Com 701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,200.00	2,200.00	0.00	0.00	Build 1.5°/100'
2,533.37	2,532.94	-13.10	6.31	2197' Hold
4,730.84	4,722.06	-185.63	89.50	Drop 1.5°/100'
5,064.21	5,055.00	-198.73	95.81	5272' Hold
10,336.25	10,327.04	-198.73	95.81	Build 10°/100'
10,621.90	10,601.00	-129.52	104.43	PPP @ 10621.9' - 119' FSL & 709' FWL
10,682.00	10,652.19	-98.31	108.32	FTP @ 10682' - 150' FSL & 713' FWL
11,236.25	10,900.00	369.84	166.63	Turn 2°/100'
11,611.01	10,900.00	743.68	188.53	9495' Hold
21,106.48	10,900.00	10,238.93	123.05	TD at 21106.48



Franklin Mountain Energy

Lea Co., NM (NAD-83)
Annex State Com Pads
Annex State Com 701H

OH
Plan #2

Anticollision Report

15 May, 2023





Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2
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	5/15/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	21,106.44	Plan #2 (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						Out of range
Amerada Record #2 - OH - OH						Out of range
Coyote State #1 (P&A) - OH - OH	13,943.95	10,879.96	845.03	559.08	2.955	CC, ES
Coyote State #1 (P&A) - OH - OH	14,000.00	10,879.66	846.91	560.12	2.953	SF
Haumea State #2 - OH - OH						Out of range
King Eider 12 Fed Com 501H - OH - OH	10,100.00	20,354.00	435.25	342.63	4.699	SF
King Eider 12 Fed Com 501H - OH - OH	10,158.93	20,354.00	431.25	339.80	4.716	CC, ES
Annex State Com Pads						
Annex State Com 301H - OH - Plan #2	2,000.00	2,000.00	24.99	13.87	2.248	CC, ES, SF
Annex State Com 501H - OH - Plan #2	2,000.00	2,000.00	99.99	88.87	8.992	CC, ES
Annex State Com 501H - OH - Plan #2	21,106.48	20,415.66	818.31	602.45	3.791	SF
Annex State Com 801H - OH - Plan #2	2,200.00	2,200.00	24.99	13.27	2.131	CC, ES, SF

Offset Design:Annex State Com Offsets - Coyote State #1 (P&A) - OH - OH													Offset Site Error:	0.00 usft	
Survey Program:		282-INC-ONLY		Reference		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		
13,500.00	10,900.00	10,882.48	10,880.55	41.21	238.82	90.17	3,082.12	1,017.46	954.43	679.56	274.87	3.472			
13,600.00	10,900.00	10,881.88	10,879.95	42.57	238.80	90.13	3,082.12	1,017.46	912.25	634.54	277.71	3.285			
13,700.00	10,900.00	10,881.30	10,879.37	43.94	238.79	90.09	3,082.13	1,017.46	879.47	598.98	280.48	3.136			
13,800.00	10,900.00	10,880.74	10,878.81	45.30	238.77	90.05	3,082.13	1,017.46	857.16	574.14	283.02	3.029			
13,900.00	10,900.00	10,880.19	10,878.26	46.68	238.75	90.02	3,082.13	1,017.46	846.16	560.99	285.17	2.967			
13,943.95	10,900.00	10,879.96	10,878.03	47.28	238.74	90.00	3,082.13	1,017.46	845.03	559.08	285.96	2.955	CC, ES		
14,000.00	10,900.00	10,879.66	10,877.73	48.06	238.74	89.98	3,082.13	1,017.46	846.91	560.12	286.79	2.953	SF		
14,100.00	10,900.00	10,879.15	10,877.21	49.44	238.72	89.95	3,082.14	1,017.46	859.37	571.56	287.81	2.986			
14,200.00	10,900.00	10,878.64	10,876.71	50.83	238.70	89.91	3,082.14	1,017.46	883.05	594.82	288.23	3.064			
14,300.00	10,900.00	10,878.15	10,876.22	52.21	238.69	89.88	3,082.14	1,017.46	917.08	628.95	288.14	3.183			
14,400.00	10,900.00	10,877.68	10,875.75	53.61	238.68	89.85	3,082.14	1,017.46	960.37	672.74	287.62	3.339			



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Offsets - King Eider 12 Fed Com 501H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 7-MWD+IFR1+MS												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 Between		Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation Factor		
9,300.00	9,290.79	20,354.00	10,133.02	15.82	82.09	-109.11	-339.90	-311.67	961.11	858.64	102.47	9.379	
9,400.00	9,390.79	20,354.00	10,133.02	15.88	82.09	-109.11	-339.90	-311.67	872.90	770.44	102.46	8.519	
9,500.00	9,490.79	20,354.00	10,133.02	15.95	82.09	-109.11	-339.90	-311.67	787.50	685.21	102.29	7.699	
9,600.00	9,590.79	20,354.00	10,133.02	16.01	82.09	-109.11	-339.90	-311.67	705.96	604.07	101.89	6.929	
9,700.00	9,690.79	20,354.00	10,133.02	16.07	82.09	-109.11	-339.90	-311.67	629.75	528.64	101.12	6.228	
9,800.00	9,790.79	20,354.00	10,133.02	16.14	82.09	-109.11	-339.90	-311.67	561.07	461.25	99.83	5.621	
9,900.00	9,890.79	20,354.00	10,133.02	16.20	82.09	-109.11	-339.90	-311.67	503.01	405.14	97.87	5.140	
10,000.00	9,990.79	20,354.00	10,133.02	16.27	82.09	-109.11	-339.90	-311.67	459.60	364.32	95.28	4.824	
10,100.00	10,090.79	20,354.00	10,133.02	16.33	82.09	-109.11	-339.90	-311.67	435.25	342.63	92.63	4.699 SF	
10,158.93	10,149.72	20,354.00	10,133.02	16.37	82.09	-109.11	-339.90	-311.67	431.25	339.80	91.45	4.716 CC, ES	
10,200.00	10,190.79	20,354.00	10,133.02	16.39	82.09	-109.11	-339.90	-311.67	433.20	342.26	90.94	4.764	
10,300.00	10,290.79	20,354.00	10,133.02	16.46	82.09	-109.11	-339.90	-311.67	453.73	362.84	90.89	4.992	
10,336.25	10,327.04	20,354.00	10,133.02	16.47	82.09	-109.11	-339.90	-311.67	466.28	375.04	91.24	5.111	
10,350.00	10,340.79	20,354.00	10,133.02	16.46	82.09	-115.67	-339.90	-311.67	471.74	380.35	91.40	5.161	
10,400.00	10,390.66	20,354.00	10,133.02	16.45	82.09	-113.23	-339.90	-311.67	495.36	403.32	92.05	5.382	
10,450.00	10,440.04	20,354.00	10,133.02	16.40	82.09	-109.96	-339.90	-311.67	524.09	431.40	92.70	5.654	
10,500.00	10,488.57	20,354.00	10,133.02	16.34	82.09	-105.80	-339.90	-311.67	556.94	463.66	93.29	5.970	
10,550.00	10,535.87	20,354.00	10,133.02	16.28	82.09	-100.73	-339.90	-311.67	593.00	499.22	93.78	6.324	
10,600.00	10,581.57	20,354.00	10,133.02	16.22	82.09	-94.76	-339.90	-311.67	631.46	537.33	94.14	6.708	
10,650.00	10,625.34	20,354.00	10,133.02	16.15	82.09	-88.00	-339.90	-311.67	671.66	577.30	94.35	7.119	
10,700.00	10,666.84	20,354.00	10,133.02	16.09	82.09	-80.69	-339.90	-311.67	713.01	618.59	94.42	7.552	
10,750.00	10,705.76	20,354.00	10,133.02	16.04	82.09	-73.13	-339.90	-311.67	755.03	660.71	94.33	8.004	
10,800.00	10,741.79	20,354.00	10,133.02	16.00	82.09	-65.71	-339.90	-311.67	797.34	703.25	94.09	8.474	
10,850.00	10,774.66	20,354.00	10,133.02	15.96	82.09	-58.73	-339.90	-311.67	839.58	745.88	93.70	8.960	
10,900.00	10,804.13	20,354.00	10,133.02	15.94	82.09	-52.41	-339.90	-311.67	881.47	788.30	93.17	9.461	
10,950.00	10,829.97	20,354.00	10,133.02	15.93	82.09	-46.84	-339.90	-311.67	922.76	830.26	92.50	9.976	
11,000.00	10,851.98	20,354.00	10,133.02	15.95	82.09	-42.02	-339.90	-311.67	963.23	871.52	91.70	10.504	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 301H - OH - Plan #2													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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
0.00	0.00	0.00	0.00	0.00	0.00	89.27	0.32	24.99	24.99				
100.00	100.00	100.00	100.00	0.79	0.79	89.27	0.32	24.99	24.99	23.41	1.58	15.776	
200.00	200.00	200.00	200.00	1.45	1.45	89.27	0.32	24.99	24.99	22.09	2.90	8.620	
300.00	300.00	300.00	300.00	1.89	1.89	89.27	0.32	24.99	24.99	21.20	3.79	6.596	
400.00	400.00	400.00	400.00	2.26	2.26	89.27	0.32	24.99	24.99	20.48	4.51	5.539	
500.00	500.00	500.00	500.00	2.57	2.57	89.27	0.32	24.99	24.99	19.85	5.14	4.863	
600.00	600.00	600.00	600.00	2.85	2.85	89.27	0.32	24.99	24.99	19.29	5.70	4.382	
700.00	700.00	700.00	700.00	3.11	3.11	89.27	0.32	24.99	24.99	18.77	6.22	4.018	
800.00	800.00	800.00	800.00	3.35	3.35	89.27	0.32	24.99	24.99	18.29	6.70	3.730	
900.00	900.00	900.00	900.00	3.58	3.58	89.27	0.32	24.99	24.99	17.84	7.15	3.494	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.27	0.32	24.99	24.99	17.41	7.58	3.296	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.27	0.32	24.99	24.99	17.00	7.99	3.127	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.27	0.32	24.99	24.99	16.61	8.38	2.981	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.27	0.32	24.99	24.99	16.23	8.76	2.852	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.27	0.32	24.99	24.99	15.86	9.13	2.738	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.27	0.32	24.99	24.99	15.51	9.48	2.636	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.27	0.32	24.99	24.99	15.17	9.83	2.544	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.27	0.32	24.99	24.99	14.83	10.16	2.460	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.27	0.32	24.99	24.99	14.50	10.49	2.383	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.27	0.32	24.99	24.99	14.19	10.81	2.313	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.27	0.32	24.99	24.99	13.87	11.12	2.248 CC, ES, SF	
2,100.00	2,100.00	2,099.56	2,099.55	5.71	5.73	91.47	-0.66	25.84	25.85	14.43	11.42	2.264	
2,200.00	2,200.00	2,198.98	2,198.89	5.86	5.89	97.23	-3.60	28.38	28.63	16.92	11.71	2.446	
2,300.00	2,299.99	2,298.22	2,297.92	6.02	6.06	-51.35	-8.49	32.60	32.92	20.92	11.99	2.745	
2,400.00	2,399.91	2,397.32	2,396.60	6.17	6.26	-47.81	-15.30	38.49	37.87	25.59	12.28	3.084	
2,500.00	2,499.69	2,497.19	2,495.93	6.34	6.45	-46.66	-23.20	45.31	42.29	29.70	12.58	3.361	
2,533.37	2,532.94	2,530.54	2,529.10	6.36	6.52	-46.89	-25.83	47.58	43.36	30.71	12.65	3.427	
2,600.00	2,599.32	2,597.15	2,595.34	6.43	6.65	-47.61	-31.10	52.13	45.31	32.49	12.82	3.534	
2,700.00	2,698.94	2,697.10	2,694.74	6.60	6.88	-48.57	-39.00	58.95	48.26	35.11	13.14	3.672	
2,800.00	2,798.56	2,797.05	2,794.15	6.80	7.12	-49.43	-46.90	65.78	51.21	37.73	13.48	3.799	
2,900.00	2,898.18	2,897.01	2,893.56	7.00	7.37	-50.19	-54.80	72.60	54.18	40.34	13.84	3.916	
3,000.00	2,997.80	2,996.96	2,992.96	7.23	7.64	-50.88	-62.70	79.43	57.15	42.95	14.20	4.024	
3,100.00	3,097.42	3,096.91	3,092.37	7.46	7.92	-51.49	-70.60	86.25	60.13	45.55	14.59	4.123	
3,200.00	3,197.04	3,196.87	3,191.78	7.71	8.21	-52.05	-78.50	93.08	63.12	48.15	14.98	4.215	
3,300.00	3,296.66	3,296.82	3,291.18	7.97	8.50	-52.55	-86.40	99.90	66.12	50.74	15.38	4.300	
3,400.00	3,396.28	3,396.77	3,390.59	8.24	8.81	-53.02	-94.30	106.73	69.11	53.33	15.79	4.378	
3,500.00	3,495.90	3,496.73	3,490.00	8.52	9.13	-53.44	-102.20	113.55	72.12	55.91	16.20	4.450	
3,600.00	3,595.52	3,596.68	3,589.40	8.81	9.45	-53.83	-110.10	120.38	75.12	58.49	16.63	4.517	
3,700.00	3,695.14	3,696.63	3,688.81	9.10	9.78	-54.19	-118.01	127.20	78.13	61.07	17.06	4.579	
3,800.00	3,794.76	3,796.59	3,788.22	9.40	10.11	-54.53	-125.91	134.03	81.14	63.64	17.50	4.637	
3,900.00	3,894.38	3,896.54	3,887.62	9.71	10.45	-54.84	-133.81	140.85	84.16	66.22	17.94	4.691	
4,000.00	3,993.99	3,996.49	3,987.03	10.02	10.79	-55.12	-141.71	147.68	87.17	68.79	18.39	4.741	
4,100.00	4,093.61	4,096.45	4,086.44	10.34	11.14	-55.39	-149.61	154.50	90.19	71.35	18.84	4.787	
4,200.00	4,193.23	4,196.40	4,185.84	10.67	11.49	-55.64	-157.51	161.33	93.21	73.92	19.30	4.830	
4,300.00	4,292.85	4,296.36	4,285.25	10.99	11.84	-55.88	-165.41	168.15	96.24	76.48	19.76	4.871	
4,400.00	4,392.47	4,396.31	4,384.66	11.32	12.20	-56.10	-173.31	174.98	99.26	79.04	20.22	4.909	
4,500.00	4,492.09	4,496.26	4,484.07	11.66	12.56	-56.31	-181.21	181.80	102.29	81.60	20.69	4.944	
4,600.00	4,591.71	4,598.20	4,585.56	12.00	12.94	-56.96	-188.34	187.96	104.41	83.30	21.11	4.945	
4,700.00	4,691.33	4,700.21	4,687.35	12.34	13.29	-58.59	-193.43	192.36	104.60	83.22	21.38	4.893	
4,730.84	4,722.06	4,731.64	4,718.75	12.43	13.39	-59.30	-194.58	193.35	104.29	82.89	21.40	4.873	
4,800.00	4,791.00	4,802.08	4,789.14	12.65	13.61	-60.95	-196.45	194.97	103.31	81.87	21.44	4.817	
4,900.00	4,890.84	4,903.79	4,890.84	12.98	13.78	-63.23	-197.42	195.80	101.54	80.12	21.42	4.740	

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 301H - OH - Plan #2														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		
5,000.00	4,990.79	5,003.75	4,990.79	13.27	13.83	-64.73	-197.42	195.80	100.23	78.81	21.42	4.679			
5,064.21	5,055.00	5,067.95	5,055.00	13.35	13.87	89.25	-197.42	195.80	100.00	78.53	21.47	4.659			
5,100.00	5,090.79	5,103.74	5,090.79	13.36	13.88	89.25	-197.42	195.80	100.00	78.51	21.49	4.652			
5,200.00	5,190.79	5,203.74	5,190.79	13.41	13.94	89.25	-197.42	195.80	100.00	78.37	21.63	4.624			
5,300.00	5,290.79	5,303.74	5,290.79	13.47	13.99	89.25	-197.42	195.80	100.00	78.24	21.76	4.596			
5,400.00	5,390.79	5,403.74	5,390.79	13.52	14.05	89.25	-197.42	195.80	100.00	78.11	21.89	4.567			
5,500.00	5,490.79	5,503.74	5,490.79	13.58	14.10	89.25	-197.42	195.80	100.00	77.97	22.03	4.540			
5,600.00	5,590.79	5,603.74	5,590.79	13.63	14.15	89.25	-197.42	195.80	100.00	77.84	22.16	4.512			
5,700.00	5,690.79	5,703.74	5,690.79	13.69	14.21	89.25	-197.42	195.80	100.00	77.70	22.30	4.485			
5,800.00	5,790.79	5,803.74	5,790.79	13.74	14.26	89.25	-197.42	195.80	100.00	77.57	22.43	4.458			
5,900.00	5,890.79	5,903.74	5,890.79	13.80	14.32	89.25	-197.42	195.80	100.00	77.43	22.57	4.431			
6,000.00	5,990.79	6,003.74	5,990.79	13.85	14.38	89.25	-197.42	195.80	100.00	77.30	22.70	4.405			
6,100.00	6,090.79	6,103.74	6,090.79	13.91	14.43	89.25	-197.42	195.80	100.00	77.16	22.84	4.378			
6,200.00	6,190.79	6,203.74	6,190.79	13.96	14.49	89.25	-197.42	195.80	100.00	77.02	22.98	4.352			
6,300.00	6,290.79	6,303.74	6,290.79	14.02	14.54	89.25	-197.42	195.80	100.00	76.89	23.11	4.327			
6,400.00	6,390.79	6,403.74	6,390.79	14.08	14.60	89.25	-197.42	195.80	100.00	76.75	23.25	4.301			
6,500.00	6,490.79	6,503.74	6,490.79	14.14	14.66	89.25	-197.42	195.80	100.00	76.61	23.39	4.276			
6,600.00	6,590.79	6,603.74	6,590.79	14.19	14.71	89.25	-197.42	195.80	100.00	76.47	23.53	4.251			
6,700.00	6,690.79	6,703.74	6,690.79	14.25	14.77	89.25	-197.42	195.80	100.00	76.34	23.66	4.226			
6,800.00	6,790.79	6,803.74	6,790.79	14.31	14.83	89.25	-197.42	195.80	100.00	76.20	23.80	4.201			
6,900.00	6,890.79	6,903.74	6,890.79	14.37	14.89	89.25	-197.42	195.80	100.00	76.06	23.94	4.177			
7,000.00	6,990.79	7,003.74	6,990.79	14.42	14.94	89.25	-197.42	195.80	100.00	75.92	24.08	4.153			
7,100.00	7,090.79	7,103.74	7,090.79	14.48	15.00	89.25	-197.42	195.80	100.00	75.78	24.22	4.129			
7,200.00	7,190.79	7,203.74	7,190.79	14.54	15.06	89.25	-197.42	195.80	100.00	75.64	24.36	4.105			
7,300.00	7,290.79	7,303.74	7,290.79	14.60	15.12	89.25	-197.42	195.80	100.00	75.50	24.50	4.082			
7,400.00	7,390.79	7,403.74	7,390.79	14.66	15.18	89.25	-197.42	195.80	100.00	75.36	24.64	4.059			
7,500.00	7,490.79	7,503.74	7,490.79	14.72	15.24	89.25	-197.42	195.80	100.00	75.22	24.78	4.036			
7,600.00	7,590.79	7,603.74	7,590.79	14.78	15.30	89.25	-197.42	195.80	100.00	75.08	24.92	4.013			
7,700.00	7,690.79	7,703.74	7,690.79	14.84	15.36	89.25	-197.42	195.80	100.00	74.94	25.06	3.990			
7,800.00	7,790.79	7,803.74	7,790.79	14.90	15.42	89.25	-197.42	195.80	100.00	74.80	25.20	3.968			
7,900.00	7,890.79	7,903.74	7,890.79	14.96	15.48	89.25	-197.42	195.80	100.00	74.66	25.34	3.946			
8,000.00	7,990.79	8,003.74	7,990.79	15.02	15.54	89.25	-197.42	195.80	100.00	74.51	25.49	3.924			
8,100.00	8,090.79	8,103.74	8,090.79	15.08	15.60	89.25	-197.42	195.80	100.00	74.37	25.63	3.902			
8,200.00	8,190.79	8,203.74	8,190.79	15.14	15.66	89.25	-197.42	195.80	100.00	74.23	25.77	3.880			
8,300.00	8,290.79	8,303.74	8,290.79	15.20	15.72	89.25	-197.42	195.80	100.00	74.09	25.91	3.859			
8,400.00	8,390.79	8,403.74	8,390.79	15.26	15.78	89.25	-197.42	195.80	100.00	73.94	26.06	3.838			
8,500.00	8,490.79	8,503.74	8,490.79	15.32	15.84	89.25	-197.42	195.80	100.00	73.80	26.20	3.817			
8,600.00	8,590.79	8,603.74	8,590.79	15.39	15.90	89.25	-197.42	195.80	100.00	73.66	26.34	3.796			
8,700.00	8,690.79	8,703.74	8,690.79	15.45	15.96	89.25	-197.42	195.80	100.00	73.52	26.48	3.776			
8,710.00	8,700.79	8,713.74	8,700.79	15.45	15.96	89.25	-197.42	195.80	100.00	73.50	26.50	3.774			
8,800.00	8,790.79	8,803.44	8,790.37	15.51	15.95	87.36	-194.13	195.78	100.08	73.68	26.39	3.792			
8,900.00	8,890.79	8,900.00	8,885.05	15.57	15.84	77.05	-175.77	195.65	102.61	77.04	25.56	4.014			
9,000.00	8,990.79	8,987.29	8,966.91	15.63	15.72	61.98	-145.71	195.44	115.36	90.07	25.28	4.563			
9,100.00	9,090.79	9,064.39	9,034.69	15.70	15.61	47.95	-109.08	195.19	145.12	118.71	26.41	5.495			
9,200.00	9,190.79	9,130.35	9,088.34	15.76	15.53	37.76	-70.77	194.92	191.55	163.53	28.02	6.836			
9,300.00	9,290.79	9,186.03	9,129.94	15.82	15.47	30.94	-33.80	194.66	250.69	221.26	29.43	8.519			
9,400.00	9,390.79	9,232.82	9,162.00	15.88	15.44	26.36	0.27	194.43	318.85	288.30	30.55	10.436			
9,500.00	9,490.79	9,272.21	9,186.76	15.95	15.42	23.20	30.89	194.21	393.50	362.03	31.47	12.503			
9,600.00	9,590.79	9,300.00	9,202.93	16.01	15.41	21.28	53.49	194.05	472.97	440.66	32.32	14.636			
9,700.00	9,690.79	9,333.88	9,221.13	16.07	15.41	19.25	82.06	193.85	555.91	522.96	32.94	16.875			
9,800.00	9,790.79	9,350.00	9,229.19	16.14	15.42	18.38	96.01	193.76	641.76	608.14	33.62	19.088			
9,900.00	9,890.79	9,379.23	9,242.80	16.20	15.44	16.96	121.89	193.58	729.55	695.42	34.13	21.376			

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



Altitude Energy Partners

Anticollision Report



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Site Error:	0.00 usft	North Reference:	Grid
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Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 301H - OH - Plan #2													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning			
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	
10,000.00	9,990.79	9,400.00	9,251.65	16.27	15.45	16.05	140.67	193.45	819.18	784.53	34.65	23.644	
10,100.00	10,090.79	9,400.00	9,251.65	16.33	15.45	16.05	140.67	193.45	910.43	875.21	35.22	25.853	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 501H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM				Offset			Semi Major Axis		Rule Assigned:				Offset Well Error:	0.00 usft
Reference	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	-90.75	-1.31	-99.98	99.99					
100.00	100.00	100.00	100.00	0.79	0.79	-90.75	-1.31	-99.98	99.99	98.40	1.58	63.118		
200.00	200.00	200.00	200.00	1.45	1.45	-90.75	-1.31	-99.98	99.99	97.09	2.90	34.488		
300.00	300.00	300.00	300.00	1.89	1.89	-90.75	-1.31	-99.98	99.99	96.20	3.79	26.390		
400.00	400.00	400.00	400.00	2.26	2.26	-90.75	-1.31	-99.98	99.99	95.48	4.51	22.161		
500.00	500.00	500.00	500.00	2.57	2.57	-90.75	-1.31	-99.98	99.99	94.85	5.14	19.455		
600.00	600.00	600.00	600.00	2.85	2.85	-90.75	-1.31	-99.98	99.99	94.29	5.70	17.533		
700.00	700.00	700.00	700.00	3.11	3.11	-90.75	-1.31	-99.98	99.99	93.77	6.22	16.076		
800.00	800.00	800.00	800.00	3.35	3.35	-90.75	-1.31	-99.98	99.99	93.29	6.70	14.922		
900.00	900.00	900.00	900.00	3.58	3.58	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-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	-90.75	-1.31	-99.98	99.99	88.87	11.12	8.992 CC, ES		
2,100.00	2,100.00	2,098.45	2,098.44	5.71	5.73	-91.33	-2.34	-100.72	100.76	89.34	11.41	8.827		
2,200.00	2,200.00	2,196.77	2,196.69	5.86	5.88	-93.02	-5.43	-102.93	103.12	91.43	11.69	8.823		
2,300.00	2,299.99	2,294.87	2,294.58	6.02	6.05	110.66	-10.57	-106.59	107.71	95.76	11.95	9.015		
2,400.00	2,399.91	2,392.67	2,391.98	6.17	6.25	109.01	-17.72	-111.70	114.99	102.80	12.19	9.431		
2,500.00	2,499.69	2,492.09	2,490.85	6.34	6.43	108.16	-26.17	-117.74	124.15	111.70	12.45	9.975		
2,533.37	2,532.94	2,525.30	2,523.88	6.36	6.50	108.15	-29.00	-119.76	127.39	114.89	12.50	10.188		
2,600.00	2,599.32	2,591.60	2,589.82	6.43	6.64	108.32	-34.64	-123.79	133.96	121.31	12.65	10.592		
2,700.00	2,698.94	2,691.11	2,688.79	6.60	6.86	108.56	-43.11	-129.84	143.82	130.89	12.92	11.127		
2,800.00	2,798.56	2,790.63	2,787.75	6.80	7.09	108.77	-51.57	-135.88	153.68	140.47	13.21	11.630		
2,900.00	2,898.18	2,890.14	2,886.72	7.00	7.35	108.95	-60.04	-141.93	163.54	150.03	13.52	12.099		
3,000.00	2,997.80	2,989.65	2,985.69	7.23	7.61	109.11	-68.51	-147.98	173.41	159.58	13.83	12.539		
3,100.00	3,097.42	3,089.16	3,084.65	7.46	7.89	109.25	-76.98	-154.03	183.27	169.12	14.15	12.949		
3,200.00	3,197.04	3,188.67	3,183.62	7.71	8.17	109.38	-85.44	-160.08	193.14	178.65	14.49	13.332		
3,300.00	3,296.66	3,288.18	3,282.58	7.97	8.47	109.50	-93.91	-166.13	203.00	188.17	14.83	13.689		
3,400.00	3,396.28	3,387.69	3,381.55	8.24	8.77	109.60	-102.38	-172.17	212.87	197.69	15.18	14.023		
3,500.00	3,495.90	3,487.20	3,480.51	8.52	9.09	109.70	-110.85	-178.22	222.74	207.20	15.54	14.335		
3,600.00	3,595.52	3,586.72	3,579.48	8.81	9.40	109.79	-119.31	-184.27	232.61	216.70	15.90	14.625		
3,700.00	3,695.14	3,686.23	3,678.45	9.10	9.73	109.87	-127.78	-190.32	242.47	226.20	16.28	14.897		
3,800.00	3,794.76	3,785.74	3,777.41	9.40	10.06	109.94	-136.25	-196.37	252.34	235.69	16.66	15.150		
3,900.00	3,894.38	3,885.25	3,876.38	9.71	10.40	110.01	-144.71	-202.42	262.21	245.17	17.04	15.387		
4,000.00	3,993.99	3,984.76	3,975.34	10.02	10.74	110.08	-153.18	-208.46	272.08	254.65	17.43	15.609		
4,100.00	4,093.61	4,084.27	4,074.31	10.34	11.08	110.14	-161.65	-214.51	281.95	264.13	17.83	15.816		
4,200.00	4,193.23	4,183.78	4,173.27	10.67	11.43	110.19	-170.12	-220.56	291.83	273.60	18.23	16.011		
4,300.00	4,292.85	4,283.29	4,272.24	10.99	11.79	110.24	-178.58	-226.61	301.70	283.06	18.63	16.193		
4,400.00	4,392.47	4,383.41	4,371.80	11.32	12.12	110.29	-187.09	-232.68	311.56	292.54	19.02	16.382		
4,500.00	4,492.09	4,488.68	4,476.67	11.66	12.49	110.58	-194.62	-238.06	320.35	300.91	19.44	16.483		
4,600.00	4,591.71	4,584.14	4,581.93	12.00	12.85	111.24	-199.80	-241.77	327.37	307.54	19.83	16.509		
4,700.00	4,691.33	4,689.63	4,687.36	12.34	13.17	112.26	-202.62	-243.78	332.70	312.51	20.19	16.481		
4,730.84	4,722.06	4,732.14	4,719.87	12.43	13.22	112.65	-203.01	-244.06	334.02	313.77	20.24	16.500		
4,800.00	4,791.00	4,803.27	4,791.00	12.65	13.28	113.53	-203.18	-244.18	336.26	315.90	20.37	16.511		
4,900.00	4,890.84	4,903.11	4,890.84	12.98	13.33	114.43	-203.18	-244.18	338.55	317.96	20.58	16.448		

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 501H - OH - Plan #2													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	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,990.79	5,003.07	13.27	13.39	-203.18	-244.18	339.79	319.00	20.79	16.345			
5,064.21	5,055.00	5,067.27	13.35	13.42	-203.18	-244.18	340.02	319.15	20.87	16.289			
5,100.00	5,090.79	5,103.06	13.36	13.44	-203.18	-244.18	340.02	319.12	20.90	16.266			
5,200.00	5,190.79	5,203.06	13.41	13.50	-203.18	-244.18	340.02	318.98	21.04	16.160			
5,300.00	5,290.79	5,303.06	13.47	13.55	-203.18	-244.18	340.02	318.84	21.18	16.056			
5,400.00	5,390.79	5,403.06	13.52	13.61	-203.18	-244.18	340.02	318.71	21.31	15.953			
5,500.00	5,490.79	5,503.06	13.58	13.67	-203.18	-244.18	340.02	318.57	21.45	15.851			
5,600.00	5,590.79	5,603.06	13.63	13.72	-203.18	-244.18	340.02	318.43	21.59	15.750			
5,700.00	5,690.79	5,703.06	13.69	13.78	-203.18	-244.18	340.02	318.29	21.73	15.650			
5,800.00	5,790.79	5,803.06	13.74	13.84	-203.18	-244.18	340.02	318.16	21.86	15.552			
5,900.00	5,890.79	5,903.06	13.80	13.89	-203.18	-244.18	340.02	318.02	22.00	15.454			
6,000.00	5,990.79	6,003.06	13.85	13.95	-203.18	-244.18	340.02	317.88	22.14	15.357			
6,100.00	6,090.79	6,103.06	13.91	14.01	-203.18	-244.18	340.02	317.74	22.28	15.261			
6,200.00	6,190.79	6,203.06	13.96	14.07	-203.18	-244.18	340.02	317.60	22.42	15.166			
6,300.00	6,290.79	6,303.06	14.02	14.13	-203.18	-244.18	340.02	317.46	22.56	15.072			
6,400.00	6,390.79	6,403.06	14.08	14.18	-203.18	-244.18	340.02	317.32	22.70	14.979			
6,500.00	6,490.79	6,503.06	14.14	14.24	-203.18	-244.18	340.02	317.18	22.84	14.887			
6,600.00	6,590.79	6,603.06	14.19	14.30	-203.18	-244.18	340.02	317.04	22.98	14.795			
6,700.00	6,690.79	6,703.06	14.25	14.36	-203.18	-244.18	340.02	316.90	23.12	14.705			
6,800.00	6,790.79	6,803.06	14.31	14.42	-203.18	-244.18	340.02	316.76	23.26	14.616			
6,900.00	6,890.79	6,903.06	14.37	14.48	-203.18	-244.18	340.02	316.62	23.41	14.527			
7,000.00	6,990.79	7,003.06	14.42	14.54	-203.18	-244.18	340.02	316.47	23.55	14.440			
7,100.00	7,090.79	7,103.06	14.48	14.60	-203.18	-244.18	340.02	316.33	23.69	14.353			
7,200.00	7,190.79	7,203.06	14.54	14.66	-203.18	-244.18	340.02	316.19	23.83	14.267			
7,300.00	7,290.79	7,303.06	14.60	14.72	-203.18	-244.18	340.02	316.05	23.97	14.183			
7,400.00	7,390.79	7,403.06	14.66	14.78	-203.18	-244.18	340.02	315.90	24.12	14.099			
7,500.00	7,490.79	7,503.06	14.72	14.84	-203.18	-244.18	340.02	315.76	24.26	14.015			
7,600.00	7,590.79	7,603.06	14.78	14.90	-203.18	-244.18	340.02	315.62	24.40	13.933			
7,700.00	7,690.79	7,703.06	14.84	14.96	-203.18	-244.18	340.02	315.47	24.55	13.851			
7,800.00	7,790.79	7,803.06	14.90	15.02	-203.18	-244.18	340.02	315.33	24.69	13.771			
7,900.00	7,890.79	7,903.06	14.96	15.09	-203.18	-244.18	340.02	315.18	24.84	13.691			
8,000.00	7,990.79	8,003.06	15.02	15.15	-203.18	-244.18	340.02	315.04	24.98	13.612			
8,100.00	8,090.79	8,103.06	15.08	15.21	-203.18	-244.18	340.02	314.90	25.12	13.533			
8,200.00	8,190.79	8,203.06	15.14	15.27	-203.18	-244.18	340.02	314.75	25.27	13.456			
8,300.00	8,290.79	8,303.06	15.20	15.33	-203.18	-244.18	340.02	314.61	25.41	13.379			
8,400.00	8,390.79	8,403.06	15.26	15.40	-203.18	-244.18	340.02	314.46	25.56	13.303			
8,500.00	8,490.79	8,503.06	15.32	15.46	-203.18	-244.18	340.02	314.32	25.71	13.227			
8,600.00	8,590.79	8,603.06	15.39	15.52	-203.18	-244.18	340.02	314.17	25.85	13.153			
8,700.00	8,690.79	8,703.06	15.45	15.59	-203.18	-244.18	340.02	314.02	26.00	13.079			
8,800.00	8,790.79	8,803.06	15.51	15.65	-203.18	-244.18	340.02	313.88	26.14	13.006			
8,900.00	8,890.79	8,903.06	15.57	15.71	-203.18	-244.18	340.02	313.73	26.29	12.934			
9,000.00	8,990.79	9,003.06	15.63	15.78	-203.18	-244.18	340.02	313.58	26.44	12.862			
9,100.00	9,090.79	9,103.06	15.70	15.84	-203.18	-244.18	340.02	313.44	26.58	12.791			
9,200.00	9,190.79	9,203.06	15.76	15.90	-203.18	-244.18	340.02	313.29	26.73	12.721			
9,300.00	9,290.79	9,303.06	15.82	15.97	-203.18	-244.18	340.02	313.14	26.88	12.651			
9,400.00	9,390.79	9,403.06	15.88	16.03	-203.18	-244.18	340.02	313.00	27.02	12.582			
9,500.00	9,490.79	9,503.06	15.95	16.10	-203.18	-244.18	340.02	312.85	27.17	12.514			
9,600.00	9,590.79	9,603.06	16.01	16.16	-203.18	-244.18	340.02	312.70	27.32	12.447			
9,693.96	9,684.75	9,697.09	16.07	16.19	-201.19	-244.19	340.01	312.59	27.42	12.400			
9,700.00	9,690.79	9,703.10	16.07	16.19	-200.66	-244.20	340.01	312.59	27.43	12.397			
9,800.00	9,790.79	9,800.00	16.14	16.09	-87.43	-183.48	340.50	313.00	27.51	12.379			
9,900.00	9,890.79	9,888.96	16.20	15.98	-82.48	-153.79	343.93	316.27	27.66	12.435			

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 501H - OH - Plan #2													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)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.00	9,990.79	9,967.17	9,938.84	16.27	15.88	-76.55	-117.26	-244.78	354.03	325.97	28.06	12.615	
10,100.00	10,090.79	10,034.11	9,993.55	16.33	15.80	-70.61	-78.76	-245.05	374.21	345.32	28.89	12.953	
10,200.00	10,190.79	10,090.59	10,035.97	16.39	15.74	-65.25	-41.49	-245.31	406.27	376.14	30.12	13.487	
10,300.00	10,290.79	10,138.03	10,068.62	16.46	15.71	-60.69	-7.09	-245.55	450.12	418.54	31.59	14.251	
10,336.25	10,327.04	10,150.00	10,076.39	16.47	15.70	-59.55	2.01	-245.61	468.71	436.54	32.16	14.572	
10,350.00	10,340.79	10,150.00	10,076.39	16.46	15.70	-65.84	2.01	-245.61	476.15	443.71	32.44	14.679	
10,400.00	10,390.66	10,179.57	10,094.78	16.45	15.69	-60.41	25.16	-245.77	503.08	470.06	33.02	15.237	
10,450.00	10,440.04	10,200.00	10,108.77	16.40	15.68	-56.17	41.70	-245.89	530.41	496.74	33.67	15.753	
10,500.00	10,488.57	10,221.76	10,118.89	16.34	15.68	-52.24	59.77	-246.01	557.59	523.31	34.28	16.268	
10,550.00	10,535.87	10,250.00	10,133.58	16.28	15.67	-48.45	83.88	-246.18	584.33	549.55	34.78	16.802	
10,600.00	10,581.57	10,264.83	10,140.81	16.22	15.68	-45.67	96.83	-246.27	610.13	574.73	35.40	17.233	
10,650.00	10,625.34	10,286.61	10,150.82	16.15	15.68	-42.98	116.18	-246.40	634.97	599.04	35.93	17.673	
10,700.00	10,666.84	10,300.00	10,156.61	16.09	15.69	-40.83	128.25	-246.49	658.70	622.19	36.51	18.042	
10,750.00	10,705.76	10,330.56	10,168.75	16.04	15.71	-38.63	156.29	-246.68	680.82	643.91	36.91	18.445	
10,800.00	10,741.79	10,350.00	10,175.68	16.00	15.73	-36.94	174.45	-246.81	701.54	664.15	37.39	18.763	
10,850.00	10,774.66	10,374.90	10,183.66	15.96	15.76	-35.45	198.04	-246.97	720.60	682.79	37.81	19.059	
10,900.00	10,804.13	10,400.00	10,190.65	15.94	15.79	-34.21	222.13	-247.14	737.96	699.75	38.21	19.312	
10,950.00	10,829.97	10,419.52	10,195.36	15.93	15.83	-33.22	241.08	-247.27	753.48	714.85	38.63	19.506	
11,000.00	10,851.98	10,450.00	10,201.41	15.95	15.89	-32.40	270.95	-247.48	767.24	728.26	38.97	19.686	
11,050.00	10,869.99	10,464.33	10,203.71	15.99	15.93	-31.78	285.09	-247.58	778.88	739.51	39.37	19.785	
11,100.00	10,883.87	10,500.00	10,207.88	16.05	16.03	-31.35	320.51	-247.83	788.89	749.22	39.67	19.886	
11,150.00	10,893.52	10,500.00	10,207.88	16.14	16.03	-30.95	320.51	-247.83	796.54	756.51	40.03	19.899	
11,200.00	10,898.85	10,531.74	10,209.73	16.27	16.14	-30.83	352.19	-248.05	802.18	761.87	40.31	19.901	
11,236.25	10,900.00	10,549.32	10,210.00	16.39	16.20	-30.82	369.76	-248.17	805.08	764.59	40.49	19.885	
11,300.00	10,900.00	10,609.80	10,210.00	16.65	16.46	-31.32	430.24	-248.59	809.03	768.26	40.77	19.843	
11,400.00	10,900.00	10,709.37	10,210.00	17.17	16.99	-31.95	529.82	-249.28	813.82	772.47	41.34	19.684	
11,500.00	10,900.00	10,809.21	10,210.00	17.82	17.65	-32.34	629.65	-249.98	816.81	774.77	42.04	19.427	
11,600.00	10,900.00	10,909.18	10,210.00	18.58	18.43	-32.48	729.62	-250.68	817.96	775.09	42.86	19.083	
11,611.01	10,900.00	10,920.19	10,210.00	18.66	18.52	-32.48	740.63	-250.75	817.97	775.01	42.96	19.040	
11,700.00	10,900.00	11,009.18	10,210.00	19.40	19.30	-32.48	829.62	-251.37	817.97	774.20	43.77	18.689	
11,800.00	10,900.00	11,109.18	10,210.00	20.31	20.25	-32.48	929.62	-252.07	817.98	773.23	44.75	18.279	
11,900.00	10,900.00	11,209.18	10,210.00	21.30	21.27	-32.48	1,029.61	-252.76	817.98	772.18	45.80	17.859	
12,000.00	10,900.00	11,309.18	10,210.00	22.34	22.33	-32.48	1,129.61	-253.46	817.98	771.07	46.92	17.434	
12,100.00	10,900.00	11,409.18	10,210.00	23.43	23.45	-32.49	1,229.61	-254.16	817.99	769.89	48.10	17.008	
12,200.00	10,900.00	11,509.18	10,210.00	24.57	24.60	-32.49	1,329.61	-254.85	817.99	768.66	49.33	16.582	
12,300.00	10,900.00	11,609.18	10,210.00	25.73	25.78	-32.49	1,429.60	-255.55	817.99	767.38	50.61	16.161	
12,400.00	10,900.00	11,709.18	10,210.00	26.93	26.99	-32.49	1,529.60	-256.25	818.00	766.05	51.95	15.747	
12,500.00	10,900.00	11,809.18	10,210.00	28.15	28.23	-32.49	1,629.60	-256.94	818.00	764.68	53.33	15.340	
12,600.00	10,900.00	11,909.18	10,210.00	29.40	29.48	-32.49	1,729.60	-257.64	818.01	763.26	54.75	14.942	
12,700.00	10,900.00	12,009.18	10,210.00	30.66	30.75	-32.49	1,829.59	-258.33	818.01	761.81	56.20	14.554	
12,800.00	10,900.00	12,109.18	10,210.00	31.94	32.04	-32.49	1,929.59	-259.03	818.01	760.32	57.70	14.178	
12,900.00	10,900.00	12,209.18	10,210.00	33.23	33.34	-32.49	2,029.59	-259.73	818.02	758.79	59.22	13.812	
13,000.00	10,900.00	12,309.18	10,210.00	34.54	34.65	-32.49	2,129.59	-260.42	818.02	757.24	60.78	13.459	
13,100.00	10,900.00	12,409.18	10,210.00	35.85	35.98	-32.49	2,229.58	-261.12	818.02	755.66	62.36	13.117	
13,200.00	10,900.00	12,509.18	10,210.00	37.18	37.31	-32.49	2,329.58	-261.82	818.03	754.05	63.98	12.787	
13,300.00	10,900.00	12,609.18	10,210.00	38.52	38.65	-32.49	2,429.58	-262.51	818.03	752.42	65.61	12.468	
13,400.00	10,900.00	12,709.18	10,210.00	39.86	40.00	-32.49	2,529.58	-263.21	818.03	750.77	67.27	12.161	
13,500.00	10,900.00	12,809.18	10,210.00	41.21	41.36	-32.49	2,629.58	-263.90	818.04	749.09	68.94	11.865	
13,600.00	10,900.00	12,909.18	10,210.00	42.57	42.72	-32.49	2,729.57	-264.60	818.04	747.40	70.64	11.580	
13,700.00	10,900.00	13,009.18	10,210.00	43.94	44.08	-32.49	2,829.57	-265.30	818.05	745.69	72.36	11.306	
13,800.00	10,900.00	13,109.18	10,210.00	45.30	45.46	-32.49	2,929.57	-265.99	818.05	743.96	74.09	11.042	
13,900.00	10,900.00	13,209.18	10,210.00	46.68	46.83	-32.49	3,029.57	-266.69	818.05	742.22	75.83	10.787	

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 501H - OH - Plan #2												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
14,000.00	10,900.00	13,309.18	10,210.00	48.06	48.22	-32.49	3,129.56	-267.39	818.06	740.46	77.59	10.543	
14,100.00	10,900.00	13,409.18	10,210.00	49.44	49.60	-32.49	3,229.56	-268.08	818.06	738.69	79.37	10.307	
14,200.00	10,900.00	13,509.18	10,210.00	50.83	50.99	-32.49	3,329.56	-268.78	818.06	736.91	81.16	10.080	
14,300.00	10,900.00	13,609.18	10,210.00	52.21	52.38	-32.49	3,429.56	-269.48	818.07	735.11	82.96	9.861	
14,400.00	10,900.00	13,709.18	10,210.00	53.61	53.78	-32.49	3,529.55	-270.17	818.07	733.30	84.77	9.651	
14,500.00	10,900.00	13,809.18	10,210.00	55.00	55.17	-32.49	3,629.55	-270.87	818.07	731.49	86.59	9.448	
14,600.00	10,900.00	13,909.18	10,210.00	56.40	56.57	-32.49	3,729.55	-271.56	818.08	729.66	88.42	9.253	
14,700.00	10,900.00	14,009.18	10,210.00	57.80	57.98	-32.50	3,829.55	-272.26	818.08	727.83	90.26	9.064	
14,800.00	10,900.00	14,109.18	10,210.00	59.20	59.38	-32.50	3,929.54	-272.96	818.09	725.98	92.10	8.882	
14,900.00	10,900.00	14,209.18	10,210.00	60.61	60.79	-32.50	4,029.54	-273.65	818.09	724.13	93.96	8.707	
15,000.00	10,900.00	14,309.18	10,210.00	62.02	62.20	-32.50	4,129.54	-274.35	818.09	722.27	95.82	8.537	
15,100.00	10,900.00	14,409.18	10,210.00	63.43	63.61	-32.50	4,229.54	-275.05	818.10	720.40	97.69	8.374	
15,200.00	10,900.00	14,509.18	10,210.00	64.84	65.02	-32.50	4,329.53	-275.74	818.10	718.53	99.57	8.216	
15,300.00	10,900.00	14,609.18	10,210.00	66.25	66.43	-32.50	4,429.53	-276.44	818.10	716.65	101.46	8.064	
15,400.00	10,900.00	14,709.18	10,210.00	67.66	67.85	-32.50	4,529.53	-277.13	818.11	714.76	103.35	7.916	
15,500.00	10,900.00	14,809.18	10,210.00	69.08	69.26	-32.50	4,629.53	-277.83	818.11	712.87	105.24	7.774	
15,600.00	10,900.00	14,909.18	10,210.00	70.49	70.68	-32.50	4,729.52	-278.53	818.11	710.97	107.14	7.636	
15,700.00	10,900.00	15,009.18	10,210.00	71.91	72.10	-32.50	4,829.52	-279.22	818.12	709.07	109.05	7.502	
15,800.00	10,900.00	15,109.18	10,210.00	73.33	73.52	-32.50	4,929.52	-279.92	818.12	707.16	110.96	7.373	
15,900.00	10,900.00	15,209.18	10,210.00	74.75	74.94	-32.50	5,029.52	-280.62	818.13	705.25	112.88	7.248	
16,000.00	10,900.00	15,309.18	10,210.00	76.17	76.36	-32.50	5,129.51	-281.31	818.13	703.33	114.80	7.127	
16,100.00	10,900.00	15,409.18	10,210.00	77.59	77.79	-32.50	5,229.51	-282.01	818.13	701.41	116.72	7.009	
16,200.00	10,900.00	15,509.18	10,210.00	79.02	79.21	-32.50	5,329.51	-282.71	818.14	699.49	118.65	6.896	
16,300.00	10,900.00	15,609.18	10,210.00	80.44	80.63	-32.50	5,429.51	-283.40	818.14	697.56	120.58	6.785	
16,400.00	10,900.00	15,709.18	10,210.00	81.86	82.06	-32.50	5,529.50	-284.10	818.14	695.63	122.52	6.678	
16,500.00	10,900.00	15,809.18	10,210.00	83.29	83.49	-32.50	5,629.50	-284.79	818.15	693.69	124.45	6.574	
16,600.00	10,900.00	15,909.18	10,210.00	84.72	84.91	-32.50	5,729.50	-285.49	818.15	691.75	126.40	6.473	
16,700.00	10,900.00	16,009.18	10,210.00	86.14	86.34	-32.50	5,829.50	-286.19	818.15	689.81	128.34	6.375	
16,800.00	10,900.00	16,109.18	10,210.00	87.57	87.77	-32.50	5,929.50	-286.88	818.16	687.87	130.29	6.280	
16,900.00	10,900.00	16,209.18	10,210.00	89.00	89.20	-32.50	6,029.49	-287.58	818.16	685.92	132.24	6.187	
17,000.00	10,900.00	16,309.18	10,210.00	90.43	90.63	-32.50	6,129.49	-288.28	818.17	683.97	134.20	6.097	
17,100.00	10,900.00	16,409.18	10,210.00	91.86	92.06	-32.50	6,229.49	-288.97	818.17	682.02	136.15	6.009	
17,200.00	10,900.00	16,509.18	10,210.00	93.29	93.49	-32.51	6,329.49	-289.67	818.17	680.06	138.11	5.924	
17,300.00	10,900.00	16,609.18	10,210.00	94.72	94.92	-32.51	6,429.48	-290.36	818.18	678.10	140.07	5.841	
17,400.00	10,900.00	16,709.18	10,210.00	96.15	96.35	-32.51	6,529.48	-291.06	818.18	676.14	142.04	5.760	
17,500.00	10,900.00	16,809.18	10,210.00	97.58	97.78	-32.51	6,629.48	-291.76	818.18	674.18	144.00	5.682	
17,600.00	10,900.00	16,909.18	10,210.00	99.01	99.22	-32.51	6,729.48	-292.45	818.19	672.22	145.97	5.605	
17,700.00	10,900.00	17,009.18	10,210.00	100.44	100.65	-32.51	6,829.47	-293.15	818.19	670.25	147.94	5.531	
17,800.00	10,900.00	17,109.18	10,210.00	101.88	102.08	-32.51	6,929.47	-293.85	818.19	668.28	149.91	5.458	
17,900.00	10,900.00	17,209.18	10,210.00	103.31	103.52	-32.51	7,029.47	-294.54	818.20	666.31	151.89	5.387	
18,000.00	10,900.00	17,309.18	10,210.00	104.74	104.95	-32.51	7,129.47	-295.24	818.20	664.34	153.86	5.318	
18,100.00	10,900.00	17,409.18	10,210.00	106.18	106.38	-32.51	7,229.46	-295.93	818.21	662.37	155.84	5.250	
18,200.00	10,900.00	17,509.18	10,210.00	107.61	107.82	-32.51	7,329.46	-296.63	818.21	660.39	157.82	5.185	
18,300.00	10,900.00	17,609.18	10,210.00	109.05	109.25	-32.51	7,429.46	-297.33	818.21	658.41	159.80	5.120	
18,400.00	10,900.00	17,709.18	10,210.00	110.48	110.69	-32.51	7,529.46	-298.02	818.22	656.43	161.78	5.058	
18,500.00	10,900.00	17,809.18	10,210.00	111.92	112.13	-32.51	7,629.45	-298.72	818.22	654.45	163.76	4.996	
18,600.00	10,900.00	17,909.18	10,210.00	113.35	113.56	-32.51	7,729.45	-299.42	818.22	652.47	165.75	4.936	
18,700.00	10,900.00	18,009.18	10,210.00	114.79	115.00	-32.51	7,829.45	-300.11	818.23	650.49	167.74	4.878	
18,800.00	10,900.00	18,109.18	10,210.00	116.23	116.44	-32.51	7,929.45	-300.81	818.23	648.51	169.72	4.821	
18,900.00	10,900.00	18,209.18	10,210.00	117.66	117.87	-32.51	8,029.44	-301.51	818.23	646.52	171.71	4.765	
19,000.00	10,900.00	18,309.18	10,210.00	119.10	119.31	-32.51	8,129.44	-302.20	818.24	644.53	173.70	4.711	
19,100.00	10,900.00	18,409.18	10,210.00	120.54	120.75	-32.51	8,229.44	-302.90	818.24	642.55	175.70	4.657	

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 501H - OH - Plan #2													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	Offset	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	
19,200.00	10,900.00	18,509.18	10,210.00	121.97	122.18	-32.51	8,329.44	-303.59	818.24	640.56	177.69	4.605		
19,300.00	10,900.00	18,609.18	10,210.00	123.41	123.62	-32.51	8,429.43	-304.29	818.25	638.57	179.68	4.554		
19,400.00	10,900.00	18,709.18	10,210.00	124.85	125.06	-32.51	8,529.43	-304.99	818.25	636.57	181.68	4.504		
19,500.00	10,900.00	18,809.18	10,210.00	126.29	126.50	-32.51	8,629.43	-305.68	818.26	634.58	183.67	4.455		
19,600.00	10,900.00	18,909.18	10,210.00	127.73	127.94	-32.51	8,729.43	-306.38	818.26	632.59	185.67	4.407		
19,700.00	10,900.00	19,009.18	10,210.00	129.16	129.38	-32.52	8,829.42	-307.08	818.26	630.59	187.67	4.360		
19,800.00	10,900.00	19,109.18	10,210.00	130.60	130.82	-32.52	8,929.42	-307.77	818.27	628.60	189.67	4.314		
19,900.00	10,900.00	19,209.18	10,210.00	132.04	132.25	-32.52	9,029.42	-308.47	818.27	626.60	191.67	4.269		
20,000.00	10,900.00	19,309.18	10,210.00	133.48	133.69	-32.52	9,129.42	-309.16	818.27	624.60	193.67	4.225		
20,100.00	10,900.00	19,409.18	10,210.00	134.92	135.13	-32.52	9,229.42	-309.86	818.28	622.61	195.67	4.182		
20,200.00	10,900.00	19,509.18	10,210.00	136.36	136.57	-32.52	9,329.41	-310.56	818.28	620.61	197.67	4.140		
20,300.00	10,900.00	19,609.18	10,210.00	137.80	138.01	-32.52	9,429.41	-311.25	818.28	618.61	199.68	4.098		
20,400.00	10,900.00	19,709.18	10,210.00	139.24	139.45	-32.52	9,529.41	-311.95	818.29	616.61	201.68	4.057		
20,500.00	10,900.00	19,809.18	10,210.00	140.68	140.89	-32.52	9,629.41	-312.65	818.29	614.60	203.69	4.017		
20,600.00	10,900.00	19,909.18	10,210.00	142.12	142.33	-32.52	9,729.40	-313.34	818.30	612.60	205.69	3.978		
20,700.00	10,900.00	20,009.18	10,210.00	143.56	143.77	-32.52	9,829.40	-314.04	818.30	610.60	207.70	3.940		
20,800.00	10,900.00	20,109.18	10,210.00	145.00	145.21	-32.52	9,929.40	-314.73	818.30	608.60	209.71	3.902		
20,900.00	10,900.00	20,209.18	10,210.00	146.44	146.66	-32.52	10,029.40	-315.43	818.31	606.59	211.72	3.865		
21,000.00	10,900.00	20,309.18	10,210.00	147.88	148.10	-32.52	10,129.39	-316.13	818.31	604.59	213.72	3.829		
21,106.48	10,900.00	20,415.66	10,210.00	149.41	149.63	-32.52	10,235.87	-316.87	818.31	602.45	215.86	3.791 SF		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 801H - OH - Plan #2

Survey Program: 0-MWD+HDGM											Offset Site Error: 0.00 usft	
Rule Assigned: Distance Between Centres (usft)											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)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.76	-0.33	-24.99	24.99			
100.00	100.00	100.00	100.00	0.79	0.79	-90.76	-0.33	-24.99	24.99	23.41	1.58	15.776
200.00	200.00	200.00	200.00	1.45	1.45	-90.76	-0.33	-24.99	24.99	22.09	2.90	8.620
300.00	300.00	300.00	300.00	1.89	1.89	-90.76	-0.33	-24.99	24.99	21.20	3.79	6.596
400.00	400.00	400.00	400.00	2.26	2.26	-90.76	-0.33	-24.99	24.99	20.48	4.51	5.539
500.00	500.00	500.00	500.00	2.57	2.57	-90.76	-0.33	-24.99	24.99	19.85	5.14	4.863
600.00	600.00	600.00	600.00	2.85	2.85	-90.76	-0.33	-24.99	24.99	19.29	5.70	4.382
700.00	700.00	700.00	700.00	3.11	3.11	-90.76	-0.33	-24.99	24.99	18.77	6.22	4.018
800.00	800.00	800.00	800.00	3.35	3.35	-90.76	-0.33	-24.99	24.99	18.29	6.70	3.730
900.00	900.00	900.00	900.00	3.58	3.58	-90.76	-0.33	-24.99	24.99	17.84	7.15	3.494
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-90.76	-0.33	-24.99	24.99	17.41	7.58	3.296
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	-90.76	-0.33	-24.99	24.99	17.00	7.99	3.127
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-90.76	-0.33	-24.99	24.99	16.61	8.38	2.981
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-90.76	-0.33	-24.99	24.99	16.23	8.76	2.852
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-90.76	-0.33	-24.99	24.99	15.86	9.13	2.738
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-90.76	-0.33	-24.99	24.99	15.51	9.48	2.636
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-90.76	-0.33	-24.99	24.99	15.17	9.83	2.544
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-90.76	-0.33	-24.99	24.99	14.83	10.16	2.460
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-90.76	-0.33	-24.99	24.99	14.50	10.49	2.383
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-90.76	-0.33	-24.99	24.99	14.19	10.81	2.313
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-90.76	-0.33	-24.99	24.99	13.87	11.12	2.248
2,100.00	2,100.00	2,100.00	2,100.00	5.71	5.71	-90.76	-0.33	-24.99	24.99	13.57	11.43	2.187
2,200.00	2,200.00	2,200.00	2,200.00	5.86	5.86	-90.76	-0.33	-24.99	24.99	13.27	11.73	2.131 CC, ES, SF
2,300.00	2,299.99	2,299.65	2,299.63	6.02	6.02	115.12	-1.45	-25.65	26.22	14.23	11.99	2.187
2,400.00	2,399.91	2,399.20	2,399.11	6.17	6.17	115.48	-4.80	-27.63	29.92	17.71	12.21	2.451
2,500.00	2,499.69	2,498.57	2,498.27	6.34	6.34	115.89	-10.37	-30.93	36.07	23.64	12.43	2.902
2,533.37	2,532.94	2,531.68	2,531.26	6.36	6.36	116.02	-12.72	-32.32	38.67	26.22	12.45	3.106
2,600.00	2,599.32	2,598.08	2,597.41	6.43	6.43	116.28	-17.70	-35.26	44.14	31.61	12.53	3.522
2,700.00	2,698.94	2,697.74	2,696.69	6.60	6.60	116.56	-25.17	-39.68	52.36	39.59	12.77	4.100
2,800.00	2,798.56	2,797.40	2,795.97	6.80	6.80	116.77	-32.65	-44.11	60.58	47.56	13.02	4.652
2,900.00	2,898.18	2,897.06	2,895.25	7.00	7.00	116.93	-40.13	-48.53	68.80	55.52	13.29	5.179
3,000.00	2,997.80	2,996.72	2,994.54	7.23	7.23	117.05	-47.60	-52.95	77.03	63.47	13.56	5.681
3,100.00	3,097.42	3,096.38	3,093.82	7.46	7.46	117.15	-55.08	-57.37	85.25	71.41	13.84	6.160
3,200.00	3,197.04	3,196.04	3,193.10	7.71	7.71	117.23	-62.55	-61.79	93.47	79.34	14.13	6.615
3,300.00	3,296.66	3,295.71	3,292.38	7.97	7.97	117.30	-70.03	-66.21	101.69	87.26	14.43	7.047
3,400.00	3,396.28	3,395.37	3,391.66	8.24	8.24	117.36	-77.51	-70.64	109.91	95.17	14.74	7.458
3,500.00	3,495.90	3,495.03	3,490.95	8.52	8.51	117.41	-84.98	-75.06	118.13	103.08	15.05	7.848
3,600.00	3,595.52	3,594.69	3,590.23	8.81	8.80	117.45	-92.46	-79.48	126.36	110.98	15.38	8.218
3,700.00	3,695.14	3,694.35	3,689.51	9.10	9.09	117.49	-99.93	-83.90	134.58	118.87	15.70	8.569
3,800.00	3,794.76	3,794.01	3,788.79	9.40	9.39	117.53	-107.41	-88.32	142.80	126.76	16.04	8.903
3,900.00	3,894.38	3,893.67	3,888.07	9.71	9.70	117.56	-114.89	-92.74	151.02	134.64	16.38	9.219
4,000.00	3,993.99	3,993.34	3,987.36	10.02	10.01	117.59	-122.36	-97.17	159.24	142.52	16.73	9.520
4,100.00	4,093.61	4,093.00	4,086.64	10.34	10.33	117.61	-129.84	-101.59	167.47	150.39	17.08	9.805
4,200.00	4,193.23	4,192.66	4,185.92	10.67	10.65	117.63	-137.31	-106.01	175.69	158.25	17.44	10.076
4,300.00	4,292.85	4,292.32	4,285.20	10.99	10.98	117.65	-144.79	-110.43	183.91	166.11	17.80	10.334
4,400.00	4,392.47	4,391.98	4,384.49	11.32	11.31	117.67	-152.27	-114.85	192.13	173.97	18.16	10.578
4,500.00	4,492.09	4,491.64	4,483.77	11.66	11.64	117.69	-159.74	-119.27	200.36	181.82	18.53	10.811
4,600.00	4,591.71	4,591.30	4,583.05	12.00	11.98	117.70	-167.22	-123.70	208.58	189.67	18.91	11.032
4,700.00	4,691.33	4,690.96	4,682.33	12.34	12.32	117.72	-174.69	-128.12	216.80	197.52	19.28	11.243
4,730.84	4,722.06	4,721.70	4,712.95	12.43	12.42	117.72	-177.00	-129.48	219.34	199.95	19.38	11.316
4,800.00	4,791.00	4,790.65	4,781.63	12.65	12.66	117.66	-182.17	-132.54	224.73	205.11	19.62	11.452
4,900.00	4,890.84	4,890.50	4,881.10	12.98	12.99	117.08	-189.66	-136.97	231.53	211.55	19.98	11.588

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 801H - OH - Plan #2													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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
5,000.00	4,990.79	4,993.43	4,983.76	13.27	13.37	116.23	-196.10	-140.78	236.47	216.11	20.36	11.614	
5,064.21	5,055.00	5,059.65	5,049.90	13.35	13.58	-90.06	-198.98	-142.48	238.35	217.82	20.53	11.609	
5,100.00	5,090.79	5,096.60	5,086.83	13.36	13.70	-90.34	-200.16	-143.18	239.03	218.42	20.61	11.600	
5,200.00	5,190.79	5,199.94	5,190.14	13.41	13.97	-90.74	-201.83	-144.16	240.00	219.16	20.84	11.517	
5,300.00	5,290.79	5,300.59	5,290.79	13.47	14.02	-90.75	-201.87	-144.19	240.02	219.06	20.96	11.451	
5,400.00	5,390.79	5,400.59	5,390.79	13.52	14.07	-90.75	-201.87	-144.19	240.02	218.93	21.10	11.378	
5,500.00	5,490.79	5,500.59	5,490.79	13.58	14.12	-90.75	-201.87	-144.19	240.02	218.79	21.23	11.306	
5,600.00	5,590.79	5,600.59	5,590.79	13.63	14.17	-90.75	-201.87	-144.19	240.02	218.66	21.36	11.234	
5,700.00	5,690.79	5,700.59	5,690.79	13.69	14.23	-90.75	-201.87	-144.19	240.02	218.52	21.50	11.164	
5,800.00	5,790.79	5,800.59	5,790.79	13.74	14.28	-90.75	-201.87	-144.19	240.02	218.39	21.64	11.094	
5,900.00	5,890.79	5,900.59	5,890.79	13.80	14.33	-90.75	-201.87	-144.19	240.02	218.25	21.77	11.024	
6,000.00	5,990.79	6,000.59	5,990.79	13.85	14.38	-90.75	-201.87	-144.19	240.02	218.11	21.91	10.956	
6,100.00	6,090.79	6,100.59	6,090.79	13.91	14.44	-90.75	-201.87	-144.19	240.02	217.98	22.05	10.888	
6,200.00	6,190.79	6,200.59	6,190.79	13.96	14.49	-90.75	-201.87	-144.19	240.02	217.84	22.18	10.820	
6,300.00	6,290.79	6,300.59	6,290.79	14.02	14.54	-90.75	-201.87	-144.19	240.02	217.70	22.32	10.754	
6,400.00	6,390.79	6,400.59	6,390.79	14.08	14.60	-90.75	-201.87	-144.19	240.02	217.56	22.46	10.688	
6,500.00	6,490.79	6,500.59	6,490.79	14.14	14.65	-90.75	-201.87	-144.19	240.02	217.43	22.60	10.623	
6,600.00	6,590.79	6,600.59	6,590.79	14.19	14.71	-90.75	-201.87	-144.19	240.02	217.29	22.73	10.558	
6,700.00	6,690.79	6,700.59	6,690.79	14.25	14.76	-90.75	-201.87	-144.19	240.02	217.15	22.87	10.494	
6,800.00	6,790.79	6,800.59	6,790.79	14.31	14.81	-90.75	-201.87	-144.19	240.02	217.01	23.01	10.430	
6,900.00	6,890.79	6,900.59	6,890.79	14.37	14.87	-90.75	-201.87	-144.19	240.02	216.87	23.15	10.367	
7,000.00	6,990.79	7,000.59	6,990.79	14.42	14.92	-90.75	-201.87	-144.19	240.02	216.73	23.29	10.305	
7,100.00	7,090.79	7,100.59	7,090.79	14.48	14.98	-90.75	-201.87	-144.19	240.02	216.59	23.43	10.244	
7,200.00	7,190.79	7,200.59	7,190.79	14.54	15.04	-90.75	-201.87	-144.19	240.02	216.45	23.57	10.183	
7,300.00	7,290.79	7,300.59	7,290.79	14.60	15.09	-90.75	-201.87	-144.19	240.02	216.31	23.71	10.122	
7,400.00	7,390.79	7,400.59	7,390.79	14.66	15.15	-90.75	-201.87	-144.19	240.02	216.17	23.85	10.063	
7,500.00	7,490.79	7,500.59	7,490.79	14.72	15.21	-90.75	-201.87	-144.19	240.02	216.03	23.99	10.003	
7,600.00	7,590.79	7,600.59	7,590.79	14.78	15.26	-90.75	-201.87	-144.19	240.02	215.89	24.14	9.945	
7,700.00	7,690.79	7,700.59	7,690.79	14.84	15.32	-90.75	-201.87	-144.19	240.02	215.74	24.28	9.887	
7,800.00	7,790.79	7,800.59	7,790.79	14.90	15.38	-90.75	-201.87	-144.19	240.02	215.60	24.42	9.829	
7,900.00	7,890.79	7,900.59	7,890.79	14.96	15.43	-90.75	-201.87	-144.19	240.02	215.46	24.56	9.772	
8,000.00	7,990.79	8,000.59	7,990.79	15.02	15.49	-90.75	-201.87	-144.19	240.02	215.32	24.70	9.716	
8,100.00	8,090.79	8,100.59	8,090.79	15.08	15.55	-90.75	-201.87	-144.19	240.02	215.18	24.85	9.660	
8,200.00	8,190.79	8,200.59	8,190.79	15.14	15.61	-90.75	-201.87	-144.19	240.02	215.03	24.99	9.605	
8,300.00	8,290.79	8,300.59	8,290.79	15.20	15.67	-90.75	-201.87	-144.19	240.02	214.89	25.13	9.550	
8,400.00	8,390.79	8,400.59	8,390.79	15.26	15.72	-90.75	-201.87	-144.19	240.02	214.75	25.28	9.496	
8,500.00	8,490.79	8,500.59	8,490.79	15.32	15.78	-90.75	-201.87	-144.19	240.02	214.60	25.42	9.442	
8,600.00	8,590.79	8,600.59	8,590.79	15.39	15.84	-90.75	-201.87	-144.19	240.02	214.46	25.56	9.389	
8,700.00	8,690.79	8,700.59	8,690.79	15.45	15.90	-90.75	-201.87	-144.19	240.02	214.31	25.71	9.336	
8,800.00	8,790.79	8,800.59	8,790.79	15.51	15.96	-90.75	-201.87	-144.19	240.02	214.17	25.85	9.284	
8,900.00	8,890.79	8,900.59	8,890.79	15.57	16.02	-90.75	-201.87	-144.19	240.02	214.02	26.00	9.233	
9,000.00	8,990.79	9,000.59	8,990.79	15.63	16.08	-90.75	-201.87	-144.19	240.02	213.88	26.14	9.181	
9,100.00	9,090.79	9,100.59	9,090.79	15.70	16.14	-90.75	-201.87	-144.19	240.02	213.74	26.29	9.131	
9,200.00	9,190.79	9,200.59	9,190.79	15.76	16.20	-90.75	-201.87	-144.19	240.02	213.59	26.43	9.081	
9,300.00	9,290.79	9,300.59	9,290.79	15.82	16.26	-90.75	-201.87	-144.19	240.02	213.44	26.58	9.031	
9,400.00	9,390.79	9,400.59	9,390.79	15.88	16.32	-90.75	-201.87	-144.19	240.02	213.30	26.72	8.982	
9,500.00	9,490.79	9,500.59	9,490.79	15.95	16.38	-90.75	-201.87	-144.19	240.02	213.15	26.87	8.933	
9,600.00	9,590.79	9,600.59	9,590.79	16.01	16.44	-90.75	-201.87	-144.19	240.02	213.01	27.02	8.885	
9,700.00	9,690.79	9,700.59	9,690.79	16.07	16.50	-90.75	-201.87	-144.19	240.02	212.86	27.16	8.837	
9,800.00	9,790.79	9,800.59	9,790.79	16.14	16.56	-90.75	-201.87	-144.19	240.02	212.71	27.31	8.789	
9,900.00	9,890.79	9,900.59	9,890.79	16.20	16.62	-90.75	-201.87	-144.19	240.02	212.57	27.45	8.742	
10,000.00	9,990.79	10,000.59	9,990.79	16.27	16.69	-90.75	-201.87	-144.19	240.02	212.42	27.60	8.696	

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



Altitude Energy Partners

Anticollision Report



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Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 801H - OH - Plan #2													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)			
10,100.00	10,090.79	10,100.59	10,090.79	16.33	16.75	-90.75	-201.87	-144.19	240.02	212.27	27.75	8.650	
10,200.00	10,190.79	10,200.59	10,190.79	16.39	16.81	-90.75	-201.87	-144.19	240.02	212.13	27.90	8.604	
10,300.00	10,290.79	10,300.59	10,290.79	16.46	16.87	-90.75	-201.87	-144.19	240.02	211.98	28.04	8.559	
10,336.25	10,327.04	10,336.84	10,327.04	16.47	16.89	-90.75	-201.87	-144.19	240.02	211.94	28.08	8.547	
10,350.00	10,340.79	10,350.59	10,340.79	16.46	16.90	-97.89	-201.87	-144.19	240.04	211.95	28.10	8.543	
10,400.00	10,390.66	10,400.46	10,390.66	16.45	16.93	-98.63	-201.87	-144.19	240.53	212.36	28.17	8.537	
10,450.00	10,440.04	10,449.84	10,440.04	16.40	16.96	-100.29	-201.87	-144.19	241.82	213.56	28.26	8.557	
10,500.00	10,488.57	10,498.37	10,488.57	16.34	16.99	-102.74	-201.87	-144.19	244.28	215.91	28.37	8.610	
10,550.00	10,535.87	10,545.67	10,535.87	16.28	17.02	-105.79	-201.87	-144.19	248.49	219.96	28.53	8.710	
10,600.00	10,581.57	10,591.37	10,581.57	16.22	17.05	-109.20	-201.87	-144.19	255.10	226.37	28.74	8.877	
10,650.00	10,625.34	10,635.14	10,625.34	16.15	17.08	-112.71	-201.87	-144.19	264.81	235.80	29.01	9.129	
10,700.00	10,666.84	10,676.64	10,666.84	16.09	17.11	-116.06	-201.87	-144.19	278.20	248.87	29.32	9.487	
10,750.00	10,705.76	10,715.56	10,705.76	16.04	17.13	-119.02	-201.87	-144.19	295.70	266.03	29.67	9.966	
10,800.00	10,741.79	10,751.59	10,741.79	16.00	17.15	-121.41	-201.87	-144.19	317.52	287.50	30.02	10.578	
10,850.00	10,774.66	10,784.46	10,774.66	15.96	17.17	-123.08	-201.87	-144.19	343.63	313.29	30.35	11.324	
10,900.00	10,804.13	10,813.93	10,804.13	15.94	17.19	-123.89	-201.87	-144.19	373.83	343.19	30.64	12.202	
10,950.00	10,829.97	10,839.77	10,829.97	15.93	17.20	-123.72	-201.87	-144.19	407.75	376.87	30.88	13.204	
11,000.00	10,851.98	10,861.78	10,851.98	15.95	17.21	-122.37	-201.87	-144.19	444.98	413.90	31.08	14.316	
11,050.00	10,869.99	10,902.67	10,892.84	15.99	17.20	-123.28	-200.63	-144.36	484.68	453.48	31.20	15.535	
11,100.00	10,883.87	10,955.96	10,945.78	16.05	17.16	-125.26	-194.71	-145.18	525.70	494.36	31.34	16.774	
11,150.00	10,893.52	11,026.90	11,014.95	16.14	17.08	-128.63	-179.32	-147.32	567.41	535.72	31.68	17.910	
11,200.00	10,898.85	11,139.21	11,119.04	16.27	16.93	-134.70	-138.03	-153.05	608.73	576.00	32.72	18.602	
11,236.25	10,900.00	11,287.90	11,240.70	16.39	16.76	-140.95	-54.06	-164.70	636.82	601.90	34.93	18.232	
11,300.00	10,900.00	11,779.22	11,428.00	16.65	17.37	-143.46	379.90	-224.88	663.76	621.85	41.91	15.839	
11,400.00	10,900.00	11,893.76	11,428.00	17.17	17.97	-141.74	493.70	-237.78	675.80	633.48	42.32	15.968	
11,500.00	10,900.00	12,010.45	11,428.00	17.82	18.72	-140.68	610.07	-246.23	683.46	640.40	43.06	15.874	
11,600.00	10,900.00	12,128.29	11,428.00	18.58	19.60	-140.29	727.85	-249.95	686.38	642.33	44.06	15.579	
11,611.01	10,900.00	12,141.28	11,428.00	18.66	19.70	-140.28	740.84	-250.07	686.41	642.23	44.18	15.537	
11,615.01	10,900.00	12,145.04	11,428.00	18.69	19.73	-140.28	744.60	-250.10	686.41	642.20	44.21	15.525	
11,700.00	10,900.00	12,230.03	11,428.00	19.40	20.42	-140.28	829.59	-250.69	686.42	641.38	45.04	15.240	
11,800.00	10,900.00	12,330.03	11,428.00	20.31	21.32	-140.28	929.59	-251.40	686.43	640.34	46.09	14.893	
11,900.00	10,900.00	12,430.03	11,428.00	21.30	22.28	-140.28	1,029.59	-252.10	686.44	639.21	47.22	14.536	
12,000.00	10,900.00	12,530.03	11,428.00	22.34	23.30	-140.28	1,129.58	-252.80	686.45	638.01	48.43	14.174	
12,100.00	10,900.00	12,630.03	11,428.00	23.43	24.37	-140.28	1,229.58	-253.51	686.45	636.75	49.71	13.810	
12,200.00	10,900.00	12,730.03	11,428.00	24.57	25.48	-140.28	1,329.58	-254.21	686.46	635.42	51.05	13.448	
12,300.00	10,900.00	12,830.03	11,428.00	25.73	26.62	-140.28	1,429.58	-254.91	686.47	634.03	52.44	13.090	
12,400.00	10,900.00	12,930.03	11,428.00	26.93	27.80	-140.28	1,529.57	-255.62	686.48	632.59	53.90	12.737	
12,500.00	10,900.00	13,030.03	11,428.00	28.15	29.00	-140.28	1,629.57	-256.32	686.49	631.09	55.40	12.392	
12,600.00	10,900.00	13,130.03	11,428.00	29.40	30.23	-140.27	1,729.57	-257.02	686.50	629.55	56.95	12.055	
12,700.00	10,900.00	13,230.03	11,428.00	30.66	31.48	-140.27	1,829.57	-257.73	686.51	627.97	58.54	11.727	
12,800.00	10,900.00	13,330.03	11,428.00	31.94	32.74	-140.27	1,929.56	-258.43	686.52	626.35	60.17	11.410	
12,900.00	10,900.00	13,430.03	11,428.00	33.23	34.02	-140.27	2,029.56	-259.14	686.53	624.69	61.84	11.102	
13,000.00	10,900.00	13,530.03	11,428.00	34.54	35.31	-140.27	2,129.56	-259.84	686.53	623.00	63.54	10.805	
13,100.00	10,900.00	13,630.03	11,428.00	35.85	36.62	-140.27	2,229.56	-260.54	686.54	621.28	65.27	10.519	
13,200.00	10,900.00	13,730.03	11,428.00	37.18	37.93	-140.27	2,329.55	-261.25	686.55	619.53	67.03	10.243	
13,300.00	10,900.00	13,830.03	11,428.00	38.52	39.26	-140.27	2,429.55	-261.95	686.56	617.75	68.81	9.978	
13,400.00	10,900.00	13,930.03	11,428.00	39.86	40.59	-140.27	2,529.55	-262.65	686.57	615.95	70.62	9.722	
13,500.00	10,900.00	14,030.03	11,428.00	41.21	41.93	-140.27	2,629.55	-263.36	686.58	614.13	72.45	9.476	
13,600.00	10,900.00	14,130.03	11,428.00	42.57	43.28	-140.27	2,729.54	-264.06	686.59	612.28	74.30	9.240	
13,700.00	10,900.00	14,230.03	11,428.00	43.94	44.64	-140.27	2,829.54	-264.76	686.60	610.42	76.18	9.013	
13,800.00	10,900.00	14,330.03	11,428.00	45.30	46.00	-140.26	2,929.54	-265.47	686.61	608.54	78.07	8.795	
13,900.00	10,900.00	14,430.03	11,428.00	46.68	47.37	-140.26	3,029.54	-266.17	686.61	606.64	79.97	8.586	

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 801H - OH - Plan #2													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
14,000.00	10,900.00	14,530.03	11,428.00	48.06	48.74	-140.26	3,129.53	-266.87	686.62	604.73	81.89	8.384	
14,100.00	10,900.00	14,630.03	11,428.00	49.44	50.11	-140.26	3,229.53	-267.58	686.63	602.80	83.83	8.191	
14,200.00	10,900.00	14,730.03	11,428.00	50.83	51.49	-140.26	3,329.53	-268.28	686.64	600.86	85.78	8.005	
14,300.00	10,900.00	14,830.03	11,428.00	52.21	52.88	-140.26	3,429.53	-268.98	686.65	598.91	87.74	7.826	
14,400.00	10,900.00	14,930.03	11,428.00	53.61	54.26	-140.26	3,529.52	-269.69	686.66	596.95	89.71	7.654	
14,500.00	10,900.00	15,030.03	11,428.00	55.00	55.65	-140.26	3,629.52	-270.39	686.67	594.97	91.70	7.488	
14,600.00	10,900.00	15,130.03	11,428.00	56.40	57.04	-140.26	3,729.52	-271.09	686.68	592.99	93.69	7.329	
14,700.00	10,900.00	15,230.03	11,428.00	57.80	58.44	-140.26	3,829.52	-271.80	686.69	590.99	95.70	7.176	
14,800.00	10,900.00	15,330.03	11,428.00	59.20	59.84	-140.26	3,929.51	-272.50	686.70	588.99	97.71	7.028	
14,900.00	10,900.00	15,430.03	11,428.00	60.61	61.24	-140.25	4,029.51	-273.21	686.70	586.97	99.73	6.886	
15,000.00	10,900.00	15,530.03	11,428.00	62.02	62.64	-140.25	4,129.51	-273.91	686.71	584.95	101.76	6.748	
15,100.00	10,900.00	15,630.03	11,428.00	63.43	64.04	-140.25	4,229.51	-274.61	686.72	582.92	103.80	6.616	
15,200.00	10,900.00	15,730.03	11,428.00	64.84	65.45	-140.25	4,329.51	-275.32	686.73	580.89	105.84	6.488	
15,300.00	10,900.00	15,830.03	11,428.00	66.25	66.86	-140.25	4,429.50	-276.02	686.74	578.85	107.89	6.365	
15,400.00	10,900.00	15,930.03	11,428.00	67.66	68.27	-140.25	4,529.50	-276.72	686.75	576.80	109.95	6.246	
15,500.00	10,900.00	16,030.03	11,428.00	69.08	69.68	-140.25	4,629.50	-277.43	686.76	574.74	112.01	6.131	
15,600.00	10,900.00	16,130.03	11,428.00	70.49	71.09	-140.25	4,729.50	-278.13	686.77	572.69	114.08	6.020	
15,700.00	10,900.00	16,230.03	11,428.00	71.91	72.51	-140.25	4,829.49	-278.83	686.78	570.62	116.16	5.913	
15,800.00	10,900.00	16,330.03	11,428.00	73.33	73.92	-140.25	4,929.49	-279.54	686.78	568.55	118.23	5.809	
15,900.00	10,900.00	16,430.03	11,428.00	74.75	75.34	-140.25	5,029.49	-280.24	686.79	566.47	120.32	5.708	
16,000.00	10,900.00	16,530.03	11,428.00	76.17	76.76	-140.24	5,129.49	-280.94	686.80	564.40	122.41	5.611	
16,100.00	10,900.00	16,630.03	11,428.00	77.59	78.18	-140.24	5,229.48	-281.65	686.81	562.31	124.50	5.517	
16,200.00	10,900.00	16,730.03	11,428.00	79.02	79.60	-140.24	5,329.48	-282.35	686.82	560.22	126.60	5.425	
16,300.00	10,900.00	16,830.03	11,428.00	80.44	81.02	-140.24	5,429.48	-283.05	686.83	558.13	128.70	5.337	
16,400.00	10,900.00	16,930.03	11,428.00	81.86	82.44	-140.24	5,529.48	-283.76	686.84	556.04	130.80	5.251	
16,500.00	10,900.00	17,030.03	11,428.00	83.29	83.86	-140.24	5,629.47	-284.46	686.85	553.94	132.91	5.168	
16,600.00	10,900.00	17,130.03	11,428.00	84.72	85.29	-140.24	5,729.47	-285.17	686.86	551.83	135.02	5.087	
16,700.00	10,900.00	17,230.03	11,428.00	86.14	86.71	-140.24	5,829.47	-285.87	686.86	549.73	137.14	5.009	
16,800.00	10,900.00	17,330.03	11,428.00	87.57	88.14	-140.24	5,929.47	-286.57	686.87	547.62	139.25	4.933	
16,900.00	10,900.00	17,430.03	11,428.00	89.00	89.56	-140.24	6,029.46	-287.28	686.88	545.51	141.37	4.859	
17,000.00	10,900.00	17,530.03	11,428.00	90.43	90.99	-140.24	6,129.46	-287.98	686.89	543.39	143.50	4.787	
17,100.00	10,900.00	17,630.03	11,428.00	91.86	92.42	-140.23	6,229.46	-288.68	686.90	541.28	145.62	4.717	
17,200.00	10,900.00	17,730.03	11,428.00	93.29	93.85	-140.23	6,329.46	-289.39	686.91	539.16	147.75	4.649	
17,300.00	10,900.00	17,830.03	11,428.00	94.72	95.27	-140.23	6,429.45	-290.09	686.92	537.03	149.88	4.583	
17,400.00	10,900.00	17,930.03	11,428.00	96.15	96.70	-140.23	6,529.45	-290.79	686.93	534.91	152.02	4.519	
17,500.00	10,900.00	18,030.03	11,428.00	97.58	98.13	-140.23	6,629.45	-291.50	686.94	532.78	154.15	4.456	
17,600.00	10,900.00	18,130.03	11,428.00	99.01	99.56	-140.23	6,729.45	-292.20	686.94	530.65	156.29	4.395	
17,700.00	10,900.00	18,230.03	11,428.00	100.44	100.99	-140.23	6,829.44	-292.90	686.95	528.52	158.43	4.336	
17,800.00	10,900.00	18,330.03	11,428.00	101.88	102.43	-140.23	6,929.44	-293.61	686.96	526.39	160.57	4.278	
17,900.00	10,900.00	18,430.03	11,428.00	103.31	103.86	-140.23	7,029.44	-294.31	686.97	524.25	162.72	4.222	
18,000.00	10,900.00	18,530.03	11,428.00	104.74	105.29	-140.23	7,129.44	-295.01	686.98	522.12	164.86	4.167	
18,100.00	10,900.00	18,630.03	11,428.00	106.18	106.72	-140.23	7,229.43	-295.72	686.99	519.98	167.01	4.113	
18,200.00	10,900.00	18,730.03	11,428.00	107.61	108.15	-140.22	7,329.43	-296.42	687.00	517.84	169.16	4.061	
18,300.00	10,900.00	18,830.03	11,428.00	109.05	109.59	-140.22	7,429.43	-297.12	687.01	515.70	171.31	4.010	
18,400.00	10,900.00	18,930.03	11,428.00	110.48	111.02	-140.22	7,529.43	-297.83	687.02	513.55	173.46	3.961	
18,500.00	10,900.00	19,030.03	11,428.00	111.92	112.46	-140.22	7,629.42	-298.53	687.02	511.41	175.62	3.912	
18,600.00	10,900.00	19,130.03	11,428.00	113.35	113.89	-140.22	7,729.42	-299.24	687.03	509.26	177.77	3.865	
18,700.00	10,900.00	19,230.03	11,428.00	114.79	115.32	-140.22	7,829.42	-299.94	687.04	507.11	179.93	3.818	
18,800.00	10,900.00	19,330.03	11,428.00	116.23	116.76	-140.22	7,929.42	-300.64	687.05	504.96	182.09	3.773	
18,900.00	10,900.00	19,430.03	11,428.00	117.66	118.20	-140.22	8,029.41	-301.35	687.06	502.81	184.25	3.729	
19,000.00	10,900.00	19,530.03	11,428.00	119.10	119.63	-140.22	8,129.41	-302.05	687.07	500.66	186.41	3.686	
19,100.00	10,900.00	19,630.03	11,428.00	120.54	121.07	-140.22	8,229.41	-302.75	687.08	498.50	188.57	3.644	

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 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Offset Design: Annex State Com Pads - Annex State Com 801H - OH - Plan #2													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	Offset	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	
19,200.00	10,900.00	19,730.03	11,428.00	121.97	122.50	-140.22	8,329.41	-303.46	687.09	496.35	190.74	3.602		
19,300.00	10,900.00	19,830.03	11,428.00	123.41	123.94	-140.22	8,429.40	-304.16	687.10	494.19	192.90	3.562		
19,400.00	10,900.00	19,930.03	11,428.00	124.85	125.38	-140.21	8,529.40	-304.86	687.10	492.04	195.07	3.522		
19,500.00	10,900.00	20,030.03	11,428.00	126.29	126.81	-140.21	8,629.40	-305.57	687.11	489.88	197.23	3.484		
19,600.00	10,900.00	20,130.03	11,428.00	127.73	128.25	-140.21	8,729.40	-306.27	687.12	487.72	199.40	3.446		
19,700.00	10,900.00	20,230.03	11,428.00	129.16	129.69	-140.21	8,829.39	-306.97	687.13	485.56	201.57	3.409		
19,800.00	10,900.00	20,330.03	11,428.00	130.60	131.13	-140.21	8,929.39	-307.68	687.14	483.40	203.74	3.373		
19,900.00	10,900.00	20,430.03	11,428.00	132.04	132.56	-140.21	9,029.39	-308.38	687.15	481.24	205.91	3.337		
20,000.00	10,900.00	20,530.03	11,428.00	133.48	134.00	-140.21	9,129.39	-309.08	687.16	479.07	208.09	3.302		
20,100.00	10,900.00	20,630.03	11,428.00	134.92	135.44	-140.21	9,229.38	-309.79	687.17	476.91	210.26	3.268		
20,200.00	10,900.00	20,730.03	11,428.00	136.36	136.88	-140.21	9,329.38	-310.49	687.18	474.74	212.43	3.235		
20,300.00	10,900.00	20,830.03	11,428.00	137.80	138.32	-140.21	9,429.38	-311.19	687.18	472.58	214.61	3.202		
20,400.00	10,900.00	20,930.03	11,428.00	139.24	139.76	-140.21	9,529.38	-311.90	687.19	470.41	216.78	3.170		
20,500.00	10,900.00	21,030.03	11,428.00	140.68	141.19	-140.20	9,629.37	-312.60	687.20	468.24	218.96	3.139		
20,600.00	10,900.00	21,130.03	11,428.00	142.12	142.63	-140.20	9,729.37	-313.31	687.21	466.08	221.14	3.108		
20,700.00	10,900.00	21,230.03	11,428.00	143.56	144.07	-140.20	9,829.37	-314.01	687.22	463.91	223.31	3.077		
20,800.00	10,900.00	21,330.03	11,428.00	145.00	145.51	-140.20	9,929.37	-314.71	687.23	461.74	225.49	3.048		
20,900.00	10,900.00	21,430.03	11,428.00	146.44	146.95	-140.20	10,029.36	-315.42	687.24	459.57	227.67	3.019		
21,000.00	10,900.00	21,530.03	11,428.00	147.88	148.39	-140.20	10,129.36	-316.12	687.25	457.40	229.85	2.990		
21,106.48	10,900.00	21,636.51	11,428.00	149.41	149.85	-140.20	10,235.84	-316.87	687.26	455.18	232.07	2.961		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 @ 3698.00usft

Offset Depths are relative to Offset Datum

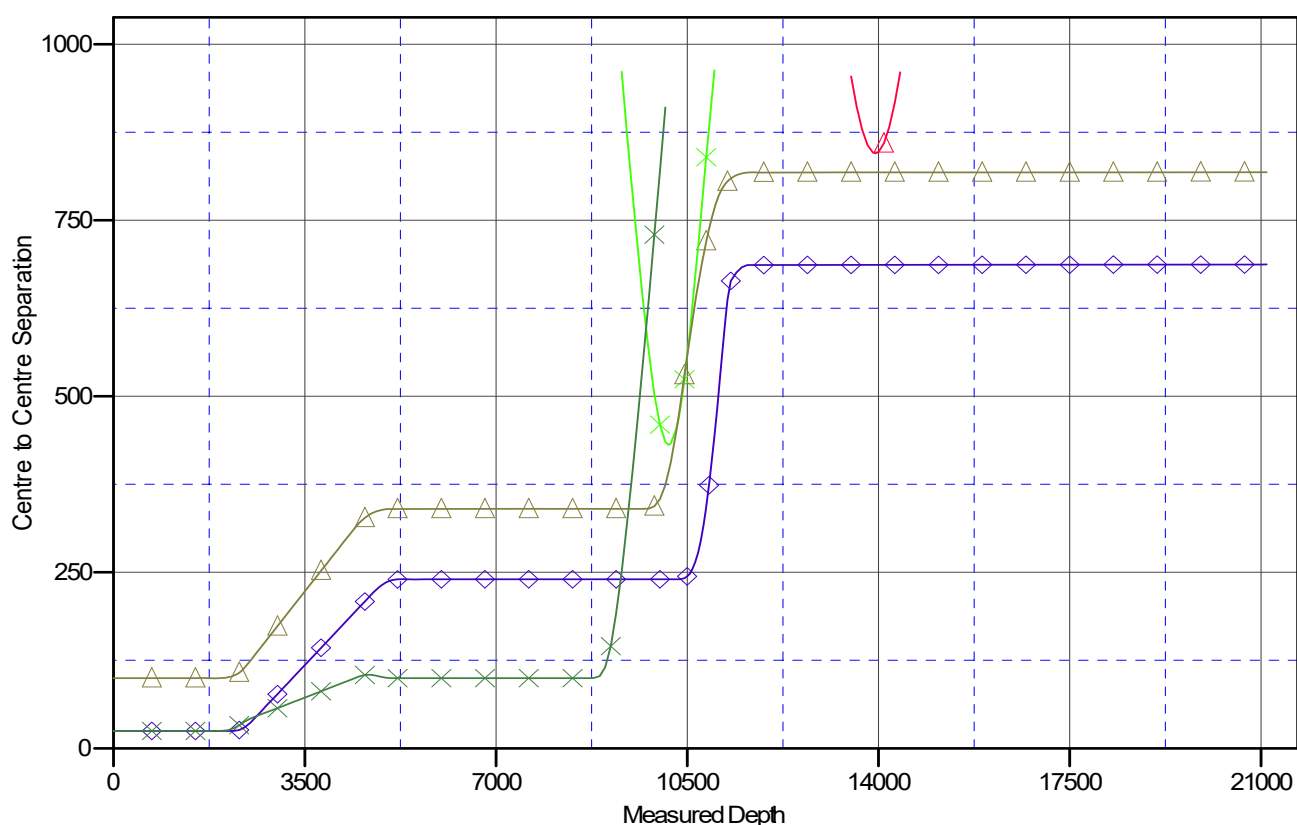
Central Meridian is -104.333334

Coordinates are relative to: Annex State Com 701H

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

Grid Convergence at Surface is: 0.49°

Ladder Plot



LEGEND

x King Elder 12' Fed Com 501H, OH, OH V0
 ◆ Annex State Gm 801H, OH, Plan #2 V0
 ▲ Annex State Gm 501H, OH, Plan #2 V0
▲ Coyote State # (P&A), OH, OH V0
 x Annex State Gm 301H, OH, Plan #2 V0



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Annex State Com 701H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30 @ 3698.00usft
Reference Site:	Annex State Com Pads	MD Reference:	KB=30 @ 3698.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Annex State Com 701H	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 #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 @ 3698.00usft

Offset Depths are relative to Offset Datum

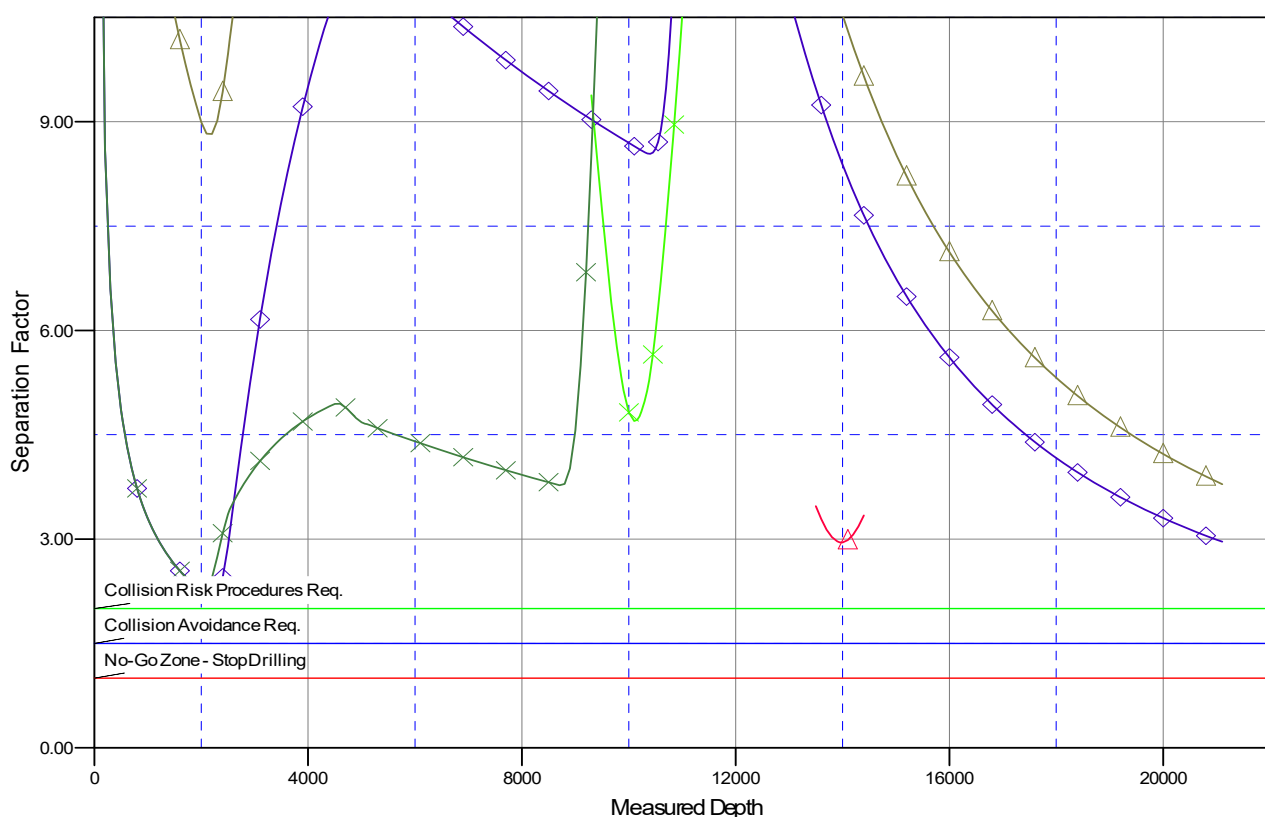
Central Meridian is -104.333334

Coordinates are relative to: Annex State Com 701H

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

Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

x King/Elder 12' ed Com 501H, OH, OH V0
 ◆ Annex State Qm 801H, OH, Plan#2 V0
 ▲ Annex State Qm 501H, OH, Plan#2 V0
x Coyote State # (P&A), OH, OH V0
 x Annex State Qm 301H, OH, Plan#2 V0