

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 340648

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 30-025-51509
4. Property Code 333786	5. Property Name TREBLE STATE COM	6. Well No. 604H

7. Surface Location

UL - Lot O	Section 34	Township 19S	Range 35E	Lot Idn O	Feet From 250	N/S Line S	Feet From 1575	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot A	Section 27	Township 19S	Range 35E	Lot Idn A	Feet From 130	N/S Line N	Feet From 360	E/W Line E	County Lea
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9. Pool Information

PEARL;BONE SPRING	49680
PEARL;BONE SPRING, SOUTH	49685

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3687
16. Multiple Y	17. Proposed Depth 20944	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 9/1/2023
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	10100	499	3000
Prod	8.75	5.5	20	20944	2706	10100

Casing/Cement Program: Additional Comments

Please see attached 14 point plan for additional details and information.

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@fmellc.com	Approved Date: 5/25/2023	Expiration Date: 5/25/2025
Date: 5/17/2023	Phone: 303-570-4057	Conditions of Approval Attached

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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 49680	³ Pool Name PEARL;BONE SPRING
⁴ Property Code	⁵ Property Name TREBLE STATE COM		⁶ Well Number 604H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC		⁹ Elevation 3687.5'

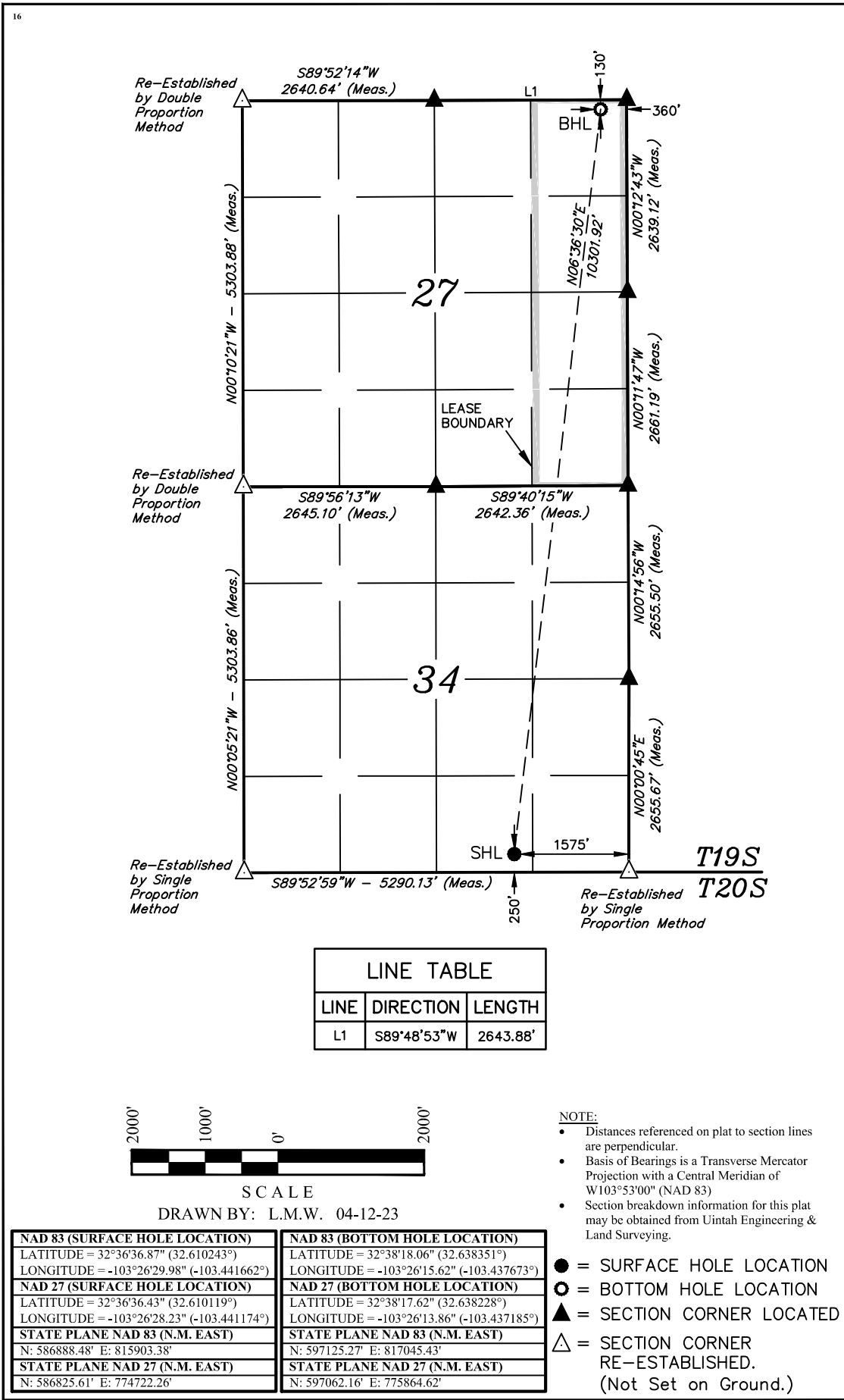
¹⁰ Surface Location

UL or lot no. O	Section 34	Township 19S	Range 35E	Lot Idn	Feet from the 250	North/South line SOUTH	Feet from the 1575	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 27	Township 19S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 360	East/West line EAST	County LEA
¹² Dedicated Acres 160		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



¹⁷ OPERATOR
CERTIFICATION

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

Signature Date 4/18/2023

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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⁴ Property Code	⁵ Property Name TREBLE STATE COM	⁶ Well Number 604H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3687.5'

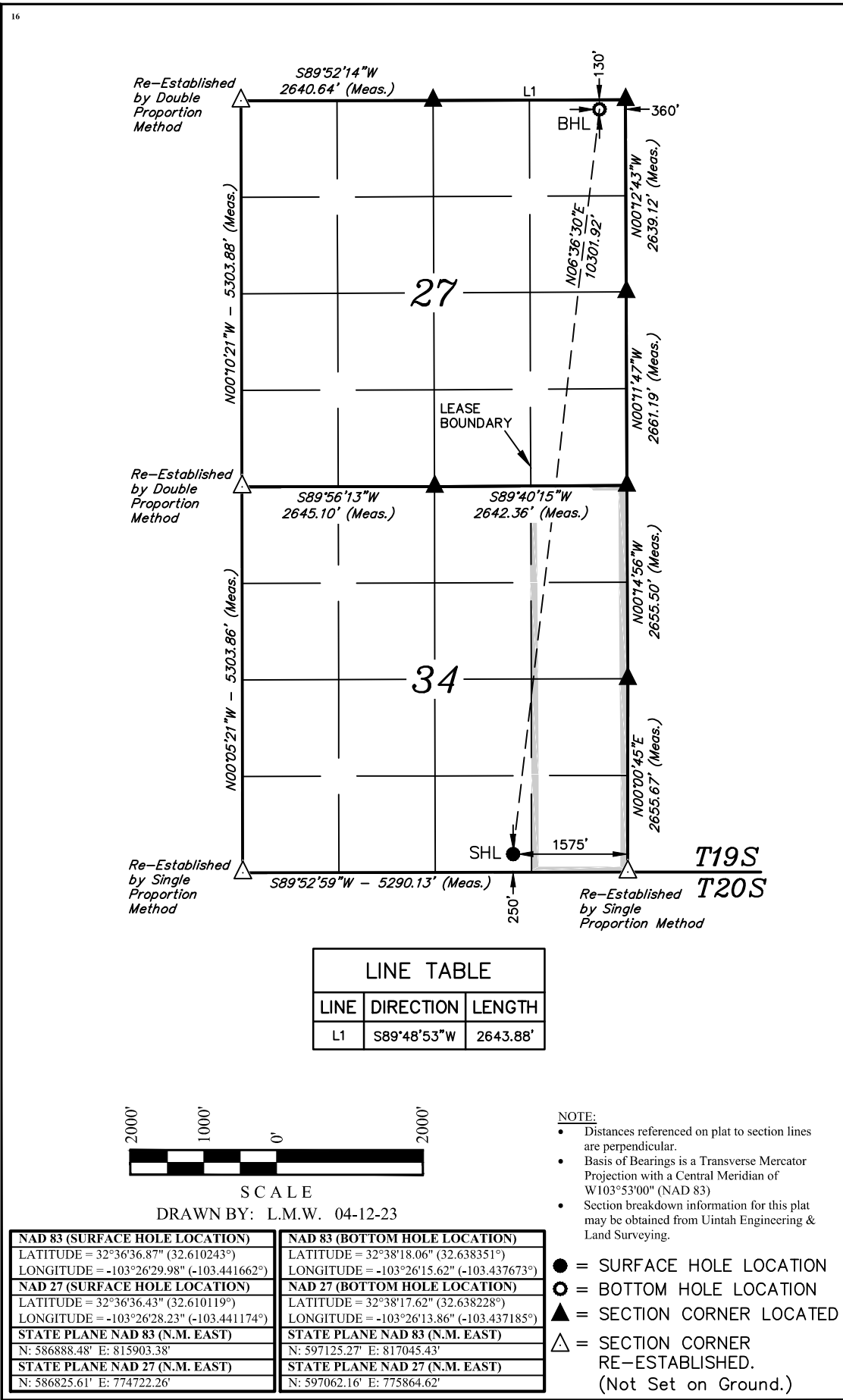
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Signature: *Rachael Overbey* Date: 4/18/2023

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

¹⁸ SURVEYOR
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April 5, 2023

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
04-12-23
PROFESSIONAL SURVEYOR

Certificate Number:

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Form APD Conditions

Permit 340648

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: Franklin Mountain Energy 3, LLC [331595] 44 Cook Street Denver, CO 80206	API Number: 30-025-51509
	Well: TREBLE STATE COM #604H

OCD Reviewer	Condition
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
pkautz	Notify OCD 24 hours prior to casing & cement



Treble State Com 604H

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)	3,687'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	1,899'	1,818'			Carbonates
Salado	1,640'	2,077'			Salt, Carbonate & Clastics
Base Salt	469'	3,248'			Shaley Carbonate & Shale
Yates	179'	3,538'			Anhydrite/shale
Seven Rivers	-339'	4,056'			Interbedded shale/carbonate
Queen	-958'	4,674'			Sandstone & dolomite & anhydrite
Delaware Mtn Group	-2,418'	6,135'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-4,242'	7,958'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,681'	9,397'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,957'	9,674'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-6,268'	9,985'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,834'	10,551'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-6,900'	10,616'			Sandstone - oil/gas/water
HZ Target	-6,932'	10,649'			Sandstone - oil/gas/water
Wolfcamp	-7,000'	10,716'			Overpressure Shale - Oil/Gas

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,135'	Oil
1 st Bone Spring Sand	9,397'	Oil
2 nd Bone Spring Sand	9,985'	Oil
3 rd Bone Sand	10,616'	Oil
Wolfcamp	10,649'	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" 0-10,100'	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	10100	1.98	2.28	2.42	2.49
Production 5 1/2" 10,100'-20,944'	20	HCP-110	12640	12200	641	CDC-HTQ 667 TVD	10844 10649	1.15	2.40	2.02	2.10 2.13



Tapered production string will be ran with a X-over installed at the KOP of 10,100'.

Cementing Program:

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

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

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

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1900	1016	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel, 3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl ₂ , 0.1%	1.34	6.35	1500	100%
Int	12.25	9.625	4000	640	Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3600	100%
Prod	8.75	7	0-10100	499	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3000						100%
Prod	8.75	5.5	10100-20944						2706	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	10100	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' – 20944' Lateral	Oil Base	9.0-11.0	58-68	3 - 6

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

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

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

7. Auxiliary well control and monitoring equipment:

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

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

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

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

8. Logging, testing and coring program:

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

Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 10,649' TVD (deepest point of the well) is 160F with an estimated maximum bottom-hole pressure (BHP) at the same point of 6,644 psig (based on 12 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

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



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

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

**11. Anticipated starting date and duration of operations:**

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

12. Disposal/environmental concerns:

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

13. Wellhead:

A multi-bowl wellhead system will be utilized.

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

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

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

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

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

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

14. Additional variance requests

A. Casing.

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

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O	34	19S	35E		250	SOUTH	1575	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	19S	35E		130	NORTH	360	EAST	LEA
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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LINE TABLE

LINE	DIRECTION	LENGTH
L1	S89°48'53"W	2643.88'

SCALE: 2000' 1000' 0' 2000'

DRAWN BY: L.M.W. 04-12-23

NAD 83 (SURFACE HOLE LOCATION)		NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°36'36.87" (32.610243°)	LATITUDE = 32°38'18.06" (32.638351°)		
LONGITUDE = -103°26'29.98" (-103.441662°)	LONGITUDE = -103°26'15.62" (-103.437673°)		
NAD 27 (SURFACE HOLE LOCATION)		NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°36'36.43" (32.610119°)	LATITUDE = 32°38'17.62" (32.638228°)		
LONGITUDE = -103°26'28.23" (-103.441174°)	LONGITUDE = -103°26'13.86" (-103.437185°)		
STATE PLANE NAD 83 (N.M. EAST)		STATE PLANE NAD 83 (N.M. EAST)	
N: 586888.48' E: 815903.38'	N: 597125.27' E: 817045.43'		
STATE PLANE NAD 27 (N.M. EAST)		STATE PLANE NAD 27 (N.M. EAST)	
N: 586825.61' E: 774722.26'	N: 597062.16' E: 775864.62'		

NOTE:
 • Distances referenced on plat to section lines are perpendicular.
 • Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 • Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

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

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Rachael Overbey
 Signature Date 4/18/2023

Rachael Overbey
 Printed Name
 roverbey@finelc.com
 E-mail Address

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April 5, 2023
 Date of Survey
 Signature and Seal of Professional Surveyor:

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 NEW MEXICO
 23782
 04-12-23
 PROFESSIONAL SURVEYOR

Certificate Number:

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ Well Number 30-025-51509		² Pool Code 49685	³ Pool Name PEARL;BONE SPRING, SOUTH
⁴ Property Code 333786	⁵ Property Name TREBLE STATE COM		⁶ Well Number 604H
⁷ DCRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC		⁹ Elevation 3687.5'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	34	19S	35E		250	SOUTH	1575	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	19S	35E		130	NORTH	360	EAST	LEA
¹² Dedicated Acres 160		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.

LINE TABLE

LINE	DIRECTION	LENGTH
L1	S89°48'53"W	2643.88'

SCALE
DRAWN BY: L.M.W. 04-12-23

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°36'36.87" (32.610243°)
LONGITUDE = -103°26'29.98" (-103.441662°)

NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°36'36.43" (32.610119°)
LONGITUDE = -103°26'28.23" (-103.441174°)

STATE PLANE NAD 83 (N.M. EAST)
N: 586888.48' E: 815903.38'

STATE PLANE NAD 27 (N.M. EAST)
N: 586825.61' E: 774722.26'

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°38'18.06" (32.638351°)
LONGITUDE = -103°26'15.62" (-103.437673°)

NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°38'17.62" (32.638228°)
LONGITUDE = -103°26'13.86" (-103.437185°)

STATE PLANE NAD 83 (N.M. EAST)
N: 597125.27' E: 817045.43'

STATE PLANE NAD 27 (N.M. EAST)
N: 597062.16' E: 775864.62'

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

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

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.

Rachael Overbey
Signature
4/18/2023
Date

Rachael Overbey
Printed Name
roverbey@finelc.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:

PAUL BUCHELE
NEW MEXICO
23782
04-12-23
PROFESSIONAL SURVEYOR

Certificate Number:

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy 3, LLC **OGRID:** 331595 **Date:** 5/17/2023

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: Treble 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

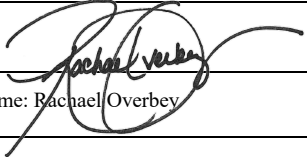
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 5/17/2023
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
Treble State Com 301H	30-025-51107	M-34-19S-35E	265 FSL 820 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 302H	30-025-51108	N-34-19S-35E	265 FSL 1845 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 501H	30-025-51122	M-34-19S-35E	265 FSL 795 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 502H	30-025-51123	N-34-19S-35E	265 FSL 1820 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 601H	30-025-51124	M-34-19S-35E	265 FSL 695 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 602H	30-025-51125	N-34-19S-35E	265 FSL 1970 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 701H	30-025-51109	M-34-19S-35E	265 FSL 670 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 702H	30-025-51110	N-34-19S-35E	265 FSL 1945 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 801H	30-025-51111	M-34-19S-35E	265 FSL 720 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 802H	30-025-51112	N-34-19S-35E	265 FSL 1870 FWL	800 +/-	700 +/-	2500 +/-
Treble State Com 303H	TBD	O-34-19S-35E	250 FSL 1425 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 304H	TBD	O-34-19S-35E	250 FSL 1400 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 503H	TBD	O-34-19S-35E	250 FSL 1650 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 504H	TBD	O-34-19S-35E	250 FSL 1625 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 603H	TBD	O-34-19S-35E	250 FSL 1600 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 604H	TBD	O-34-19S-35E	250 FSL 1575 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 703H	TBD	O-34-19S-35E	250 FSL 1550 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 704H	TBD	O-34-19S-35E	250 FSL 1525 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 803H	TBD	O-34-19S-35E	250 FSL 1375 FEL	800 +/-	700 +/-	2500 +/-
Treble State Com 804H	TBD	O-34-19S-35E	250 FSL 1350 FEL	800 +/-	700 +/-	2500 +/-

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be 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
Treble State Com 301H	30-025-51107	5/1/2023	8/9/2023	8/24/2023	9/3/2023	9/5/2023
Treble State Com 302H	30-025-51108	6/1/2023	9/9/2023	9/24/2023	10/4/2023	10/6/2023
Treble State Com 501H	30-025-51122	5/1/2023	8/9/2023	8/24/2023	9/3/2023	9/5/2023
Treble State Com 502H	30-025-51123	6/1/2023	9/9/2023	9/24/2023	10/4/2023	10/6/2023
Treble State Com 601H	30-025-51124	5/1/2023	8/9/2023	8/24/2023	9/3/2023	9/5/2023
Treble State Com 602H	30-025-51125	6/1/2023	9/9/2023	9/24/2023	10/4/2023	10/6/2023
Treble State Com 701H	30-025-51109	5/1/2023	8/9/2023	8/24/2023	9/3/2023	9/5/2023
Treble State Com 702H	30-025-51110	6/1/2023	9/9/2023	9/24/2023	10/4/2023	10/6/2023
Treble State Com 801H	30-025-51111	5/1/2023	8/9/2023	8/24/2023	9/3/2023	9/5/2023
Treble State Com 802H	30-025-51112	6/1/2023	9/9/2023	9/24/2023	10/4/2023	10/6/2023
Treble State Com 303H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 304H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 503H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 504H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 603H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 604H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 703H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 704H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 803H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024
Treble State Com 804H	TBD	11/1/2023	3/30/2024	5/29/2024	6/8/2024	6/10/2024



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:*

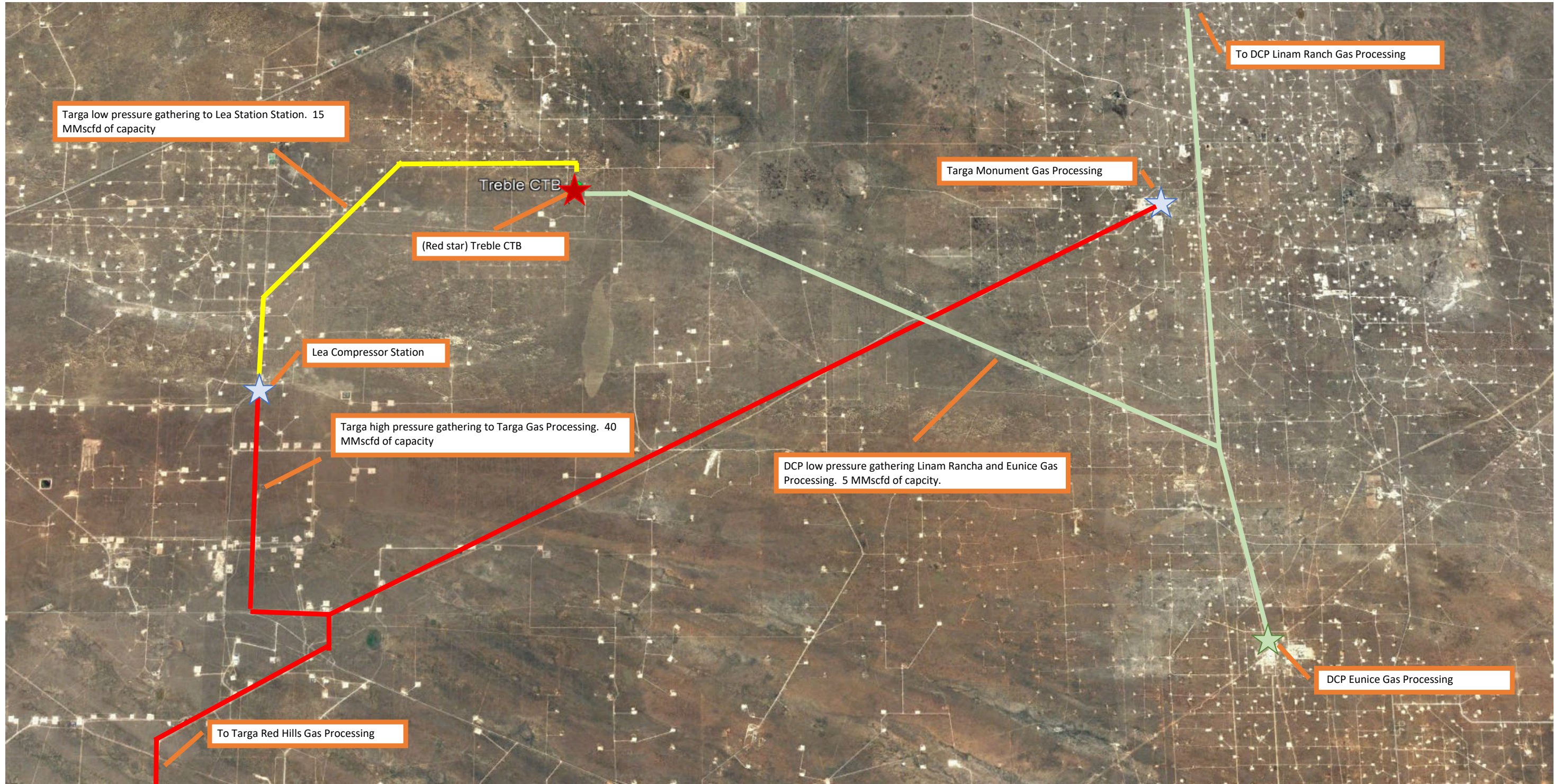


- All volume that is flared and vented that is not measured will be estimated.
- When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
- Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection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

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





Franklin Mountain Energy

Lea Co., NM (NAD-83)
Treble East Pad
Treble State Com 604H

OH

Plan: Plan 1

Standard Planning Report

16 May, 2023





Project: Lea Co., NM (NAD-83)
 Site: Treble East Pad
 Well: Treble State Com 604H
 Wellbore: OH
 Design: Plan 1
 Lat: 32.610243
 Long: -103.441662
 GL: 3687.00
 KB: KB=30' @ 3717.00usft



WELL DETAILS: Treble State Com 604H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	586888.48	815903.38	32.610243	-103.441662

WELLBORE TARGET DETAILS (LAT/LONG)

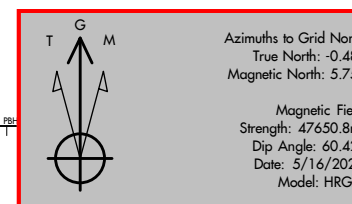
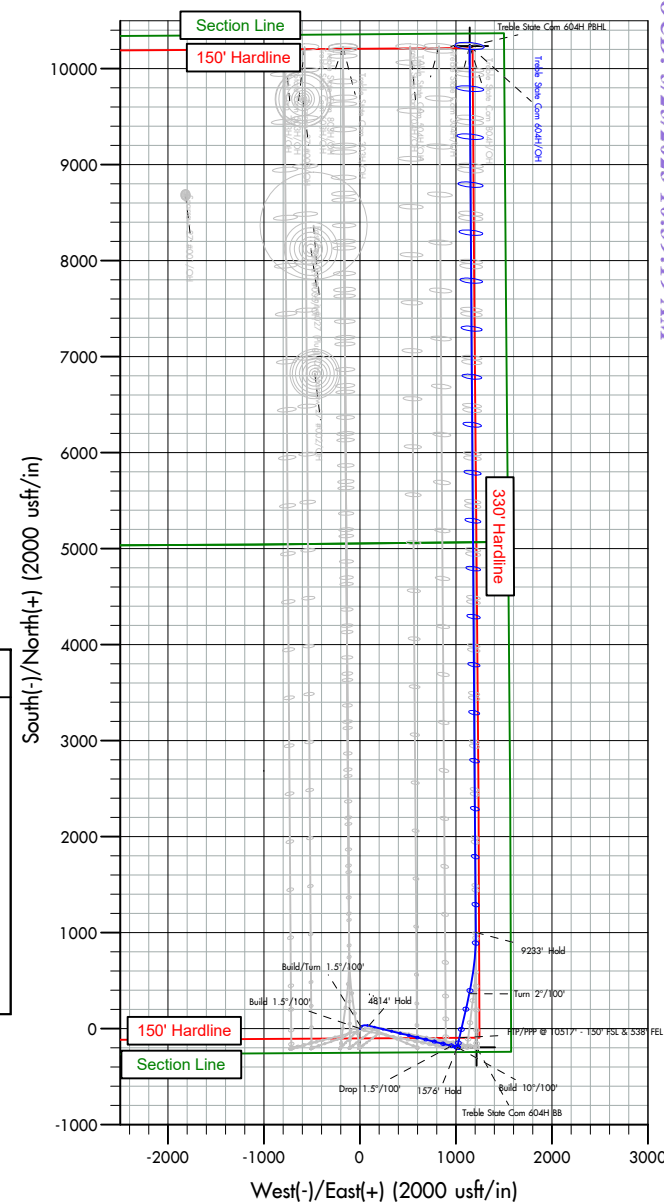
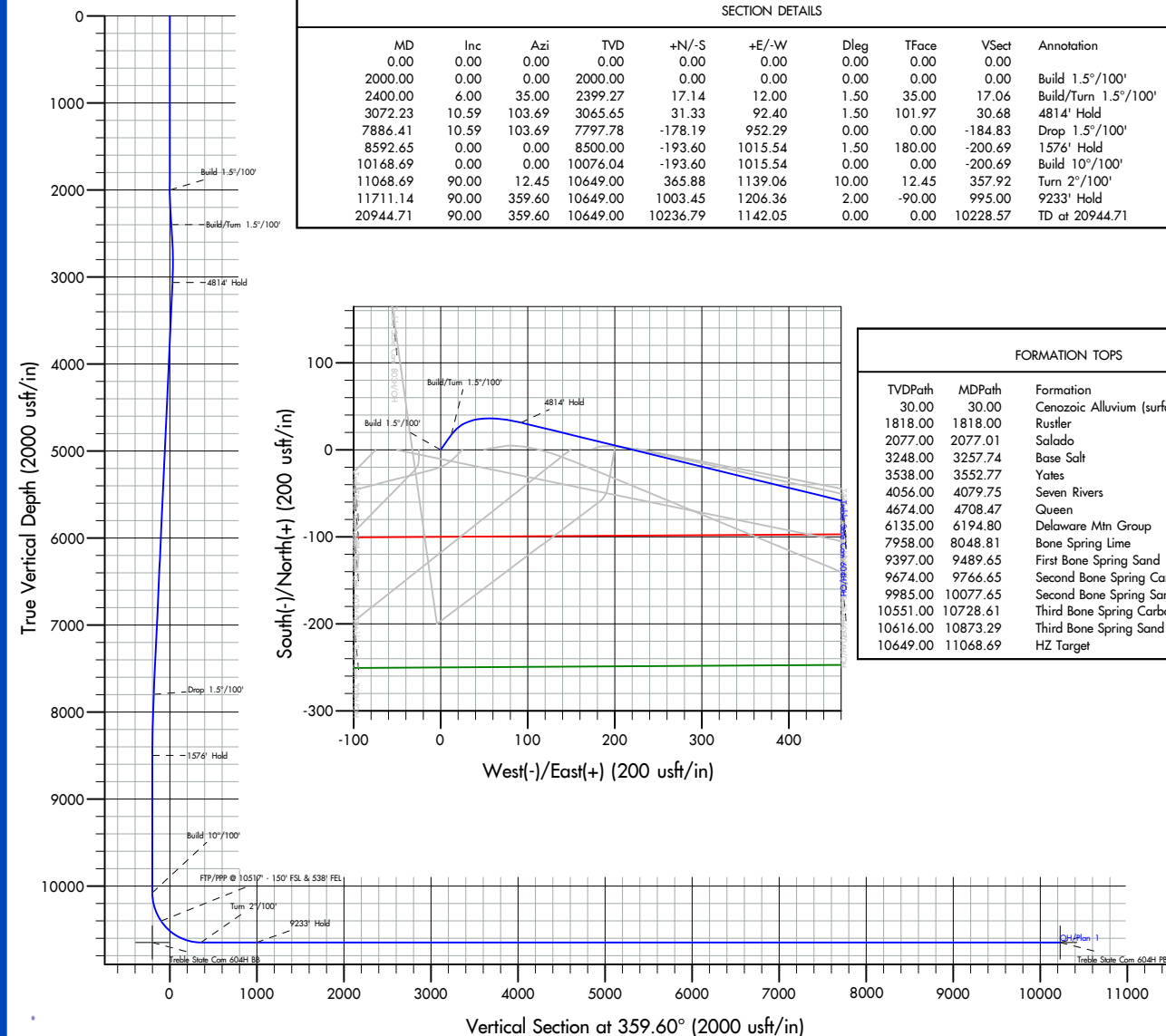
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Treble State Com 604H BB	10649.00	-192.34	1215.53	586696.14	817118.91	Point
Treble State Com 604H PBHL	10649.00	10236.79	1142.05	597125.27	817045.43	Point

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	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
2400.00	6.00	35.00	2399.27	17.14	12.00	1.50	35.00	17.06	Build/Turn 1.5°/100'
3072.23	10.59	103.69	3065.65	31.33	92.40	1.50	101.97	30.68	4814' Hold
7886.41	10.59	103.69	7797.78	-178.19	952.29	0.00	0.00	-184.83	Drop 1.5°/100'
8592.65	0.00	0.00	8500.00	-193.60	1015.54	1.50	180.00	-200.69	1576' Hold
10168.69	0.00	0.00	10076.04	-193.60	1015.54	0.00	0.00	-200.69	Build 10°/100'
11068.69	90.00	12.45	10649.00	365.88	1139.06	10.00	12.45	357.92	Turn 2°/100'
11711.14	90.00	359.60	10649.00	1003.45	1206.36	2.00	-90.00	995.00	9233' Hold
20944.71	90.00	359.60	10649.00	10236.79	1142.05	0.00	0.00	10228.57	TD at 20944.71

FORMATION TOPS

TVDPath	MDPath	Formation
30.00	30.00	Cenozoic Alluvium (surface)
1818.00	1818.00	Rustler
2077.00	2077.01	Salado
3248.00	3257.74	Base Salt
3538.00	3552.77	Yates
4056.00	4079.75	Seven Rivers
4674.00	4708.47	Queen
6135.00	6194.80	Delaware Mtn Group
7958.00	8048.81	Bone Spring Lime
9397.00	9489.65	First Bone Spring Sand
9674.00	9766.65	Second Bone Spring Carbonate
9985.00	10077.65	Second Bone Spring Sand
10551.00	10728.61	Third Bone Spring Carbonate
10616.00	10873.29	Third Bone Spring Sand
10649.00	11068.69	HZ Target



Azimuths to Grid North
 True North: -0.48°
 Magnetic North: 5.75°

Magnetic Field
 Strength: 47650.8nT
 Dip Angle: 60.42°
 Date: 5/16/2023
 Model: HRGM

Plan: Plan 1 (Treble State Com 604H/OH)

Created By: Dusty Mayer Date: 19:25, May 16 2023



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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

Site		Treble East Pad			
Site Position:		Northing:	586,889.42 usft	Latitude:	32.610242
From:	Map	Easting:	816,053.35 usft	Longitude:	-103.441175
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Treble State Com 604H					
Well Position	+N/-S	0.00 usft	Northing:	586,888.48 usft	Latitude:	32.610243
	+E/-W	0.00 usft	Easting:	815,903.38 usft	Longitude:	-103.441662
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,687.00 usft
Grid Convergence:		0.48 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	5/16/2023	6.23	60.42	47,650.76455905

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

Plan Survey Tool Program	Date	5/16/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,943.90	Plan 1 (OH)	MWD+HDGM	
				OWSG MWD + HRGM	



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	6.00	35.00	2,399.27	17.14	12.00	1.50	1.50	0.00	35.00	
3,072.23	10.59	103.69	3,065.65	31.33	92.40	1.50	0.68	10.22	101.97	
7,886.41	10.59	103.69	7,797.78	-178.19	952.29	0.00	0.00	0.00	0.00	
8,592.65	0.00	0.00	8,500.00	-193.60	1,015.54	1.50	-1.50	0.00	180.00	
10,168.69	0.00	0.00	10,076.04	-193.60	1,015.54	0.00	0.00	0.00	0.00	
11,068.69	90.00	12.45	10,649.00	365.88	1,139.06	10.00	10.00	0.00	12.45	
11,711.14	90.00	359.60	10,649.00	1,003.45	1,206.36	2.00	0.00	-2.00	-90.00	
20,944.71	90.00	359.60	10,649.00	10,236.79	1,142.05	0.00	0.00	0.00	0.00	Treble State Com 6



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,818.00	0.00	0.00	1,818.00	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
Build 1.5°/100'									
2,077.01	1.16	35.00	2,077.00	0.64	0.45	0.63	1.50	1.50	0.00
Salado									
2,100.00	1.50	35.00	2,099.99	1.07	0.75	1.07	1.50	1.50	0.00
2,200.00	3.00	35.00	2,199.91	4.29	3.00	4.27	1.50	1.50	0.00
2,300.00	4.50	35.00	2,299.69	9.65	6.75	9.60	1.50	1.50	0.00
2,400.00	6.00	35.00	2,399.27	17.14	12.00	17.06	1.50	1.50	0.00
Build/Turn 1.5°/100'									
2,500.00	5.87	49.49	2,498.74	24.75	18.89	24.61	1.50	-0.13	14.49
2,600.00	6.12	63.68	2,598.20	30.44	27.56	30.24	1.50	0.25	14.19
2,700.00	6.71	76.09	2,697.57	34.21	38.01	33.94	1.50	0.58	12.41
2,800.00	7.55	86.14	2,796.81	36.05	50.23	35.70	1.50	0.84	10.05
2,900.00	8.57	94.00	2,895.82	35.97	64.21	35.52	1.50	1.02	7.86
3,000.00	9.71	100.12	2,994.55	33.97	79.95	33.41	1.50	1.15	6.12
3,072.23	10.59	103.69	3,065.65	31.33	92.40	30.68	1.50	1.22	4.95
4814' Hold									
3,100.00	10.59	103.69	3,092.95	30.12	97.36	29.44	0.00	0.00	0.00
3,200.00	10.59	103.69	3,191.24	25.77	115.22	24.96	0.00	0.00	0.00
3,257.74	10.59	103.69	3,248.00	23.26	125.53	22.38	0.00	0.00	0.00
Base Salt									
3,300.00	10.59	103.69	3,289.54	21.42	133.08	20.49	0.00	0.00	0.00
3,400.00	10.59	103.69	3,387.83	17.06	150.94	16.01	0.00	0.00	0.00
3,500.00	10.59	103.69	3,486.13	12.71	168.80	11.53	0.00	0.00	0.00
3,552.77	10.59	103.69	3,538.00	10.42	178.23	9.17	0.00	0.00	0.00
Yates									
3,600.00	10.59	103.69	3,584.42	8.36	186.66	7.06	0.00	0.00	0.00
3,700.00	10.59	103.69	3,682.72	4.01	204.53	2.58	0.00	0.00	0.00
3,800.00	10.59	103.69	3,781.02	-0.34	222.39	-1.90	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' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	10.59	103.69	3,879.31	-4.70	240.25	-6.37	0.00	0.00	0.00
4,000.00	10.59	103.69	3,977.61	-9.05	258.11	-10.85	0.00	0.00	0.00
4,079.75	10.59	103.69	4,056.00	-12.52	272.36	-14.42	0.00	0.00	0.00
Seven Rivers									
4,100.00	10.59	103.69	4,075.90	-13.40	275.97	-15.33	0.00	0.00	0.00
4,200.00	10.59	103.69	4,174.20	-17.75	293.83	-19.80	0.00	0.00	0.00
4,300.00	10.59	103.69	4,272.49	-22.10	311.70	-24.28	0.00	0.00	0.00
4,400.00	10.59	103.69	4,370.79	-26.46	329.56	-28.76	0.00	0.00	0.00
4,500.00	10.59	103.69	4,469.09	-30.81	347.42	-33.23	0.00	0.00	0.00
4,600.00	10.59	103.69	4,567.38	-35.16	365.28	-37.71	0.00	0.00	0.00
4,700.00	10.59	103.69	4,665.68	-39.51	383.14	-42.19	0.00	0.00	0.00
4,708.47	10.59	103.69	4,674.00	-39.88	384.66	-42.57	0.00	0.00	0.00
Queen									
4,800.00	10.59	103.69	4,763.97	-43.86	401.00	-46.66	0.00	0.00	0.00
4,900.00	10.59	103.69	4,862.27	-48.22	418.87	-51.14	0.00	0.00	0.00
5,000.00	10.59	103.69	4,960.56	-52.57	436.73	-55.62	0.00	0.00	0.00
5,100.00	10.59	103.69	5,058.86	-56.92	454.59	-60.09	0.00	0.00	0.00
5,200.00	10.59	103.69	5,157.15	-61.27	472.45	-64.57	0.00	0.00	0.00
5,300.00	10.59	103.69	5,255.45	-65.63	490.31	-69.05	0.00	0.00	0.00
5,400.00	10.59	103.69	5,353.75	-69.98	508.17	-73.52	0.00	0.00	0.00
5,500.00	10.59	103.69	5,452.04	-74.33	526.04	-78.00	0.00	0.00	0.00
5,600.00	10.59	103.69	5,550.34	-78.68	543.90	-82.48	0.00	0.00	0.00
5,700.00	10.59	103.69	5,648.63	-83.03	561.76	-86.95	0.00	0.00	0.00
5,800.00	10.59	103.69	5,746.93	-87.39	579.62	-91.43	0.00	0.00	0.00
5,900.00	10.59	103.69	5,845.22	-91.74	597.48	-95.91	0.00	0.00	0.00
6,000.00	10.59	103.69	5,943.52	-96.09	615.34	-100.38	0.00	0.00	0.00
6,100.00	10.59	103.69	6,041.81	-100.44	633.21	-104.86	0.00	0.00	0.00
6,194.80	10.59	103.69	6,135.00	-104.57	650.14	-109.10	0.00	0.00	0.00
Delaware Mtn Group									
6,200.00	10.59	103.69	6,140.11	-104.79	651.07	-109.34	0.00	0.00	0.00
6,300.00	10.59	103.69	6,238.41	-109.15	668.93	-113.81	0.00	0.00	0.00
6,400.00	10.59	103.69	6,336.70	-113.50	686.79	-118.29	0.00	0.00	0.00
6,500.00	10.59	103.69	6,435.00	-117.85	704.65	-122.77	0.00	0.00	0.00
6,600.00	10.59	103.69	6,533.29	-122.20	722.51	-127.24	0.00	0.00	0.00
6,700.00	10.59	103.69	6,631.59	-126.55	740.37	-131.72	0.00	0.00	0.00
6,800.00	10.59	103.69	6,729.88	-130.91	758.24	-136.20	0.00	0.00	0.00
6,900.00	10.59	103.69	6,828.18	-135.26	776.10	-140.67	0.00	0.00	0.00
7,000.00	10.59	103.69	6,926.47	-139.61	793.96	-145.15	0.00	0.00	0.00
7,100.00	10.59	103.69	7,024.77	-143.96	811.82	-149.63	0.00	0.00	0.00
7,200.00	10.59	103.69	7,123.07	-148.31	829.68	-154.10	0.00	0.00	0.00
7,300.00	10.59	103.69	7,221.36	-152.67	847.54	-158.58	0.00	0.00	0.00
7,400.00	10.59	103.69	7,319.66	-157.02	865.41	-163.06	0.00	0.00	0.00
7,500.00	10.59	103.69	7,417.95	-161.37	883.27	-167.53	0.00	0.00	0.00
7,600.00	10.59	103.69	7,516.25	-165.72	901.13	-172.01	0.00	0.00	0.00
7,700.00	10.59	103.69	7,614.54	-170.08	918.99	-176.49	0.00	0.00	0.00
7,800.00	10.59	103.69	7,712.84	-174.43	936.85	-180.96	0.00	0.00	0.00
7,886.41	10.59	103.69	7,797.78	-178.19	952.29	-184.83	0.00	0.00	0.00
Drop 1.5°/100'									
7,900.00	10.39	103.69	7,811.14	-178.77	954.69	-185.43	1.50	-1.50	0.00
8,000.00	8.89	103.69	7,909.72	-182.74	970.96	-189.51	1.50	-1.50	0.00
8,048.82	8.16	103.69	7,958.00	-184.45	977.99	-191.27	1.50	-1.50	0.00
Bone Spring Lime									
8,100.00	7.39	103.69	8,008.71	-186.09	984.72	-192.96	1.50	-1.50	0.00
8,200.00	5.89	103.69	8,108.04	-188.83	995.95	-195.78	1.50	-1.50	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
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Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,300.00	4.39	103.69	8,207.64	-190.95	1,004.65	-197.96	1.50	-1.50	0.00
8,400.00	2.89	103.69	8,307.43	-192.45	1,010.82	-199.50	1.50	-1.50	0.00
8,500.00	1.39	103.69	8,407.36	-193.33	1,014.45	-200.41	1.50	-1.50	0.00
8,592.65	0.00	0.00	8,500.00	-193.60	1,015.54	-200.69	1.50	-1.50	-111.92
1576' Hold									
8,600.00	0.00	0.00	8,507.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
8,700.00	0.00	0.00	8,607.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
8,800.00	0.00	0.00	8,707.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
8,900.00	0.00	0.00	8,807.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,000.00	0.00	0.00	8,907.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,100.00	0.00	0.00	9,007.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,200.00	0.00	0.00	9,107.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,300.00	0.00	0.00	9,207.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,400.00	0.00	0.00	9,307.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,489.65	0.00	0.00	9,397.00	-193.60	1,015.54	-200.69	0.00	0.00	0.00
First Bone Spring Sand									
9,500.00	0.00	0.00	9,407.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,600.00	0.00	0.00	9,507.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,700.00	0.00	0.00	9,607.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,766.65	0.00	0.00	9,674.00	-193.60	1,015.54	-200.69	0.00	0.00	0.00
Second Bone Spring Carbonate									
9,800.00	0.00	0.00	9,707.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
9,900.00	0.00	0.00	9,807.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
10,000.00	0.00	0.00	9,907.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
10,077.65	0.00	0.00	9,985.00	-193.60	1,015.54	-200.69	0.00	0.00	0.00
Second Bone Spring Sand									
10,100.00	0.00	0.00	10,007.35	-193.60	1,015.54	-200.69	0.00	0.00	0.00
10,168.69	0.00	0.00	10,076.04	-193.60	1,015.54	-200.69	0.00	0.00	0.00
Build 10°/100'									
10,200.00	3.13	12.45	10,107.33	-192.76	1,015.72	-199.85	10.00	10.00	0.00
10,250.00	8.13	12.45	10,157.08	-187.98	1,016.78	-195.07	10.00	10.00	0.00
10,300.00	13.13	12.45	10,206.20	-178.97	1,018.77	-186.08	10.00	10.00	0.00
10,350.00	18.13	12.45	10,254.34	-165.82	1,021.67	-172.95	10.00	10.00	0.00
10,400.00	23.13	12.45	10,301.12	-148.62	1,025.47	-155.78	10.00	10.00	0.00
10,450.00	28.13	12.45	10,346.18	-127.51	1,030.13	-134.70	10.00	10.00	0.00
10,500.00	33.13	12.45	10,389.19	-102.64	1,035.62	-109.87	10.00	10.00	0.00
10,517.00	34.83	12.45	10,403.29	-93.36	1,037.67	-100.61	10.00	10.00	0.00
FTP/PPP @ 10517' - 150' FSL & 538' FEL									
10,550.00	38.13	12.45	10,429.82	-74.21	1,041.90	-81.48	10.00	10.00	0.00
10,600.00	43.13	12.45	10,467.75	-42.42	1,048.92	-49.75	10.00	10.00	0.00
10,650.00	48.13	12.45	10,502.71	-7.53	1,056.62	-14.91	10.00	10.00	0.00
10,700.00	53.13	12.45	10,534.41	30.20	1,064.95	22.77	10.00	10.00	0.00
10,728.61	55.99	12.45	10,551.00	52.96	1,069.98	45.49	10.00	10.00	0.00
Third Bone Spring Carbonate									
10,750.00	58.13	12.45	10,562.63	70.49	1,073.85	62.99	10.00	10.00	0.00
10,800.00	63.13	12.45	10,587.14	113.02	1,083.24	105.46	10.00	10.00	0.00
10,850.00	68.13	12.45	10,607.77	157.48	1,093.05	149.85	10.00	10.00	0.00
10,873.29	70.46	12.45	10,616.00	178.76	1,097.75	171.09	10.00	10.00	0.00
Third Bone Spring Sand									
10,900.00	73.13	12.45	10,624.34	203.53	1,103.22	195.82	10.00	10.00	0.00
10,950.00	78.13	12.45	10,636.75	250.81	1,113.66	243.03	10.00	10.00	0.00
11,000.00	83.13	12.45	10,644.89	298.97	1,124.29	291.11	10.00	10.00	0.00
11,050.00	88.13	12.45	10,648.69	347.64	1,135.03	339.70	10.00	10.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,068.69	90.00	12.45	10,649.00	365.88	1,139.06	357.92	10.00	10.00	0.00
Turn 2°/100' - HZ Target									
11,100.00	90.00	11.82	10,649.00	396.49	1,145.65	388.49	2.00	0.00	-2.00
11,200.00	90.00	9.82	10,649.00	494.71	1,164.42	486.57	2.00	0.00	-2.00
11,300.00	90.00	7.82	10,649.00	593.52	1,179.76	585.27	2.00	0.00	-2.00
11,400.00	90.00	5.82	10,649.00	692.81	1,191.64	684.47	2.00	0.00	-2.00
11,500.00	90.00	3.82	10,649.00	792.45	1,200.05	784.05	2.00	0.00	-2.00
11,600.00	90.00	1.82	10,649.00	892.32	1,204.98	883.89	2.00	0.00	-2.00
11,700.00	90.00	359.82	10,649.00	992.31	1,206.42	983.86	2.00	0.00	-2.00
11,711.14	90.00	359.60	10,649.00	1,003.45	1,206.36	995.00	2.00	0.00	-2.00
9233' Hold									
11,800.00	90.00	359.60	10,649.00	1,092.30	1,205.74	1,083.86	0.00	0.00	0.00
11,900.00	90.00	359.60	10,649.00	1,192.30	1,205.04	1,183.86	0.00	0.00	0.00
12,000.00	90.00	359.60	10,649.00	1,292.30	1,204.35	1,283.86	0.00	0.00	0.00
12,100.00	90.00	359.60	10,649.00	1,392.30	1,203.65	1,383.86	0.00	0.00	0.00
12,200.00	90.00	359.60	10,649.00	1,492.29	1,202.96	1,483.86	0.00	0.00	0.00
12,300.00	90.00	359.60	10,649.00	1,592.29	1,202.26	1,583.86	0.00	0.00	0.00
12,400.00	90.00	359.60	10,649.00	1,692.29	1,201.56	1,683.86	0.00	0.00	0.00
12,500.00	90.00	359.60	10,649.00	1,792.29	1,200.87	1,783.86	0.00	0.00	0.00
12,600.00	90.00	359.60	10,649.00	1,892.29	1,200.17	1,883.86	0.00	0.00	0.00
12,700.00	90.00	359.60	10,649.00	1,992.28	1,199.47	1,983.86	0.00	0.00	0.00
12,800.00	90.00	359.60	10,649.00	2,092.28	1,198.78	2,083.86	0.00	0.00	0.00
12,900.00	90.00	359.60	10,649.00	2,192.28	1,198.08	2,183.86	0.00	0.00	0.00
13,000.00	90.00	359.60	10,649.00	2,292.28	1,197.38	2,283.86	0.00	0.00	0.00
13,100.00	90.00	359.60	10,649.00	2,392.27	1,196.69	2,383.86	0.00	0.00	0.00
13,200.00	90.00	359.60	10,649.00	2,492.27	1,195.99	2,483.86	0.00	0.00	0.00
13,300.00	90.00	359.60	10,649.00	2,592.27	1,195.29	2,583.86	0.00	0.00	0.00
13,400.00	90.00	359.60	10,649.00	2,692.27	1,194.60	2,683.86	0.00	0.00	0.00
13,500.00	90.00	359.60	10,649.00	2,792.26	1,193.90	2,783.86	0.00	0.00	0.00
13,600.00	90.00	359.60	10,649.00	2,892.26	1,193.20	2,883.86	0.00	0.00	0.00
13,700.00	90.00	359.60	10,649.00	2,992.26	1,192.51	2,983.86	0.00	0.00	0.00
13,800.00	90.00	359.60	10,649.00	3,092.26	1,191.81	3,083.86	0.00	0.00	0.00
13,900.00	90.00	359.60	10,649.00	3,192.25	1,191.12	3,183.86	0.00	0.00	0.00
14,000.00	90.00	359.60	10,649.00	3,292.25	1,190.42	3,283.86	0.00	0.00	0.00
14,100.00	90.00	359.60	10,649.00	3,392.25	1,189.72	3,383.86	0.00	0.00	0.00
14,200.00	90.00	359.60	10,649.00	3,492.25	1,189.03	3,483.86	0.00	0.00	0.00
14,300.00	90.00	359.60	10,649.00	3,592.24	1,188.33	3,583.86	0.00	0.00	0.00
14,400.00	90.00	359.60	10,649.00	3,692.24	1,187.63	3,683.86	0.00	0.00	0.00
14,500.00	90.00	359.60	10,649.00	3,792.24	1,186.94	3,783.86	0.00	0.00	0.00
14,600.00	90.00	359.60	10,649.00	3,892.24	1,186.24	3,883.86	0.00	0.00	0.00
14,700.00	90.00	359.60	10,649.00	3,992.23	1,185.54	3,983.86	0.00	0.00	0.00
14,800.00	90.00	359.60	10,649.00	4,092.23	1,184.85	4,083.86	0.00	0.00	0.00
14,900.00	90.00	359.60	10,649.00	4,192.23	1,184.15	4,183.86	0.00	0.00	0.00
15,000.00	90.00	359.60	10,649.00	4,292.23	1,183.45	4,283.86	0.00	0.00	0.00
15,100.00	90.00	359.60	10,649.00	4,392.22	1,182.76	4,383.86	0.00	0.00	0.00
15,200.00	90.00	359.60	10,649.00	4,492.22	1,182.06	4,483.86	0.00	0.00	0.00
15,300.00	90.00	359.60	10,649.00	4,592.22	1,181.36	4,583.86	0.00	0.00	0.00
15,400.00	90.00	359.60	10,649.00	4,692.22	1,180.67	4,683.86	0.00	0.00	0.00
15,500.00	90.00	359.60	10,649.00	4,792.21	1,179.97	4,783.86	0.00	0.00	0.00
15,600.00	90.00	359.60	10,649.00	4,892.21	1,179.27	4,883.86	0.00	0.00	0.00
15,700.00	90.00	359.60	10,649.00	4,992.21	1,178.58	4,983.86	0.00	0.00	0.00
15,800.00	90.00	359.60	10,649.00	5,092.21	1,177.88	5,083.86	0.00	0.00	0.00
15,900.00	90.00	359.60	10,649.00	5,192.21	1,177.19	5,183.86	0.00	0.00	0.00



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,000.00	90.00	359.60	10,649.00	5,292.20	1,176.49	5,283.86	0.00	0.00	0.00
16,100.00	90.00	359.60	10,649.00	5,392.20	1,175.79	5,383.86	0.00	0.00	0.00
16,200.00	90.00	359.60	10,649.00	5,492.20	1,175.10	5,483.86	0.00	0.00	0.00
16,300.00	90.00	359.60	10,649.00	5,592.20	1,174.40	5,583.86	0.00	0.00	0.00
16,400.00	90.00	359.60	10,649.00	5,692.19	1,173.70	5,683.86	0.00	0.00	0.00
16,500.00	90.00	359.60	10,649.00	5,792.19	1,173.01	5,783.86	0.00	0.00	0.00
16,600.00	90.00	359.60	10,649.00	5,892.19	1,172.31	5,883.86	0.00	0.00	0.00
16,700.00	90.00	359.60	10,649.00	5,992.19	1,171.61	5,983.86	0.00	0.00	0.00
16,800.00	90.00	359.60	10,649.00	6,092.18	1,170.92	6,083.86	0.00	0.00	0.00
16,900.00	90.00	359.60	10,649.00	6,192.18	1,170.22	6,183.86	0.00	0.00	0.00
17,000.00	90.00	359.60	10,649.00	6,292.18	1,169.52	6,283.86	0.00	0.00	0.00
17,100.00	90.00	359.60	10,649.00	6,392.18	1,168.83	6,383.86	0.00	0.00	0.00
17,200.00	90.00	359.60	10,649.00	6,492.17	1,168.13	6,483.86	0.00	0.00	0.00
17,300.00	90.00	359.60	10,649.00	6,592.17	1,167.43	6,583.86	0.00	0.00	0.00
17,400.00	90.00	359.60	10,649.00	6,692.17	1,166.74	6,683.86	0.00	0.00	0.00
17,500.00	90.00	359.60	10,649.00	6,792.17	1,166.04	6,783.86	0.00	0.00	0.00
17,600.00	90.00	359.60	10,649.00	6,892.16	1,165.35	6,883.86	0.00	0.00	0.00
17,700.00	90.00	359.60	10,649.00	6,992.16	1,164.65	6,983.86	0.00	0.00	0.00
17,800.00	90.00	359.60	10,649.00	7,092.16	1,163.95	7,083.86	0.00	0.00	0.00
17,900.00	90.00	359.60	10,649.00	7,192.16	1,163.26	7,183.86	0.00	0.00	0.00
18,000.00	90.00	359.60	10,649.00	7,292.15	1,162.56	7,283.86	0.00	0.00	0.00
18,100.00	90.00	359.60	10,649.00	7,392.15	1,161.86	7,383.86	0.00	0.00	0.00
18,200.00	90.00	359.60	10,649.00	7,492.15	1,161.17	7,483.86	0.00	0.00	0.00
18,300.00	90.00	359.60	10,649.00	7,592.15	1,160.47	7,583.86	0.00	0.00	0.00
18,400.00	90.00	359.60	10,649.00	7,692.14	1,159.77	7,683.86	0.00	0.00	0.00
18,500.00	90.00	359.60	10,649.00	7,792.14	1,159.08	7,783.86	0.00	0.00	0.00
18,600.00	90.00	359.60	10,649.00	7,892.14	1,158.38	7,883.86	0.00	0.00	0.00
18,700.00	90.00	359.60	10,649.00	7,992.14	1,157.68	7,983.86	0.00	0.00	0.00
18,800.00	90.00	359.60	10,649.00	8,092.13	1,156.99	8,083.86	0.00	0.00	0.00
18,900.00	90.00	359.60	10,649.00	8,192.13	1,156.29	8,183.86	0.00	0.00	0.00
19,000.00	90.00	359.60	10,649.00	8,292.13	1,155.59	8,283.86	0.00	0.00	0.00
19,100.00	90.00	359.60	10,649.00	8,392.13	1,154.90	8,383.86	0.00	0.00	0.00
19,200.00	90.00	359.60	10,649.00	8,492.13	1,154.20	8,483.86	0.00	0.00	0.00
19,300.00	90.00	359.60	10,649.00	8,592.12	1,153.51	8,583.86	0.00	0.00	0.00
19,400.00	90.00	359.60	10,649.00	8,692.12	1,152.81	8,683.86	0.00	0.00	0.00
19,500.00	90.00	359.60	10,649.00	8,792.12	1,152.11	8,783.86	0.00	0.00	0.00
19,600.00	90.00	359.60	10,649.00	8,892.12	1,151.42	8,883.86	0.00	0.00	0.00
19,700.00	90.00	359.60	10,649.00	8,992.11	1,150.72	8,983.86	0.00	0.00	0.00
19,800.00	90.00	359.60	10,649.00	9,092.11	1,150.02	9,083.86	0.00	0.00	0.00
19,900.00	90.00	359.60	10,649.00	9,192.11	1,149.33	9,183.86	0.00	0.00	0.00
20,000.00	90.00	359.60	10,649.00	9,292.11	1,148.63	9,283.86	0.00	0.00	0.00
20,100.00	90.00	359.60	10,649.00	9,392.10	1,147.93	9,383.86	0.00	0.00	0.00
20,200.00	90.00	359.60	10,649.00	9,492.10	1,147.24	9,483.86	0.00	0.00	0.00
20,300.00	90.00	359.60	10,649.00	9,592.10	1,146.54	9,583.86	0.00	0.00	0.00
20,400.00	90.00	359.60	10,649.00	9,692.10	1,145.84	9,683.86	0.00	0.00	0.00
20,500.00	90.00	359.60	10,649.00	9,792.09	1,145.15	9,783.86	0.00	0.00	0.00
20,600.00	90.00	359.60	10,649.00	9,892.09	1,144.45	9,883.86	0.00	0.00	0.00
20,700.00	90.00	359.60	10,649.00	9,992.09	1,143.75	9,983.86	0.00	0.00	0.00
20,800.00	90.00	359.60	10,649.00	10,092.09	1,143.06	10,083.86	0.00	0.00	0.00
20,900.00	90.00	359.60	10,649.00	10,192.08	1,142.36	10,183.86	0.00	0.00	0.00
20,944.71	90.00	359.60	10,649.00	10,236.79	1,142.05	10,228.57	0.00	0.00	0.00
TD at 20944.71									



Altitude Energy Partners

Planning Report



Database:	DM Local	Local Co-ordinate Reference:	Well Treble State Com 604H
Company:	Franklin Mountain Energy	TVD Reference:	KB=30' @ 3717.00usft
Project:	Lea Co., NM (NAD-83)	MD Reference:	KB=30' @ 3717.00usft
Site:	Treble East Pad	North Reference:	Grid
Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Treble State Com 604	0.00	0.00	10,649.00	-193.60	1,015.54	586,694.88	816,918.92	32.609687	-103.438370
- plan misses target center by 237.35usft at 10616.08usft MD (10479.33 TVD, -31.53 N, 1051.32 E)									
- Point									
Treble State Com 604	0.00	0.00	10,649.00	-192.34	1,215.53	586,696.14	817,118.91	32.609686	-103.437720
- plan misses target center by 284.19usft at 10647.79usft MD (10501.23 TVD, -9.14 N, 1056.27 E)									
- Point									
Treble State Com 604	0.00	0.00	10,649.00	10,236.79	1,142.05	597,125.27	817,045.43	32.638351	-103.437673
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
1,818.00	1,818.00	Rustler				
2,077.01	2,077.00	Salado				
3,257.74	3,248.00	Base Salt				
3,552.77	3,538.00	Yates				
4,079.75	4,056.00	Seven Rivers				
4,708.47	4,674.00	Queen				
6,194.80	6,135.00	Delaware Mtn Group				
8,048.82	7,958.00	Bone Spring Lime				
9,489.65	9,397.00	First Bone Spring Sand				
9,766.65	9,674.00	Second Bone Spring Carbonate				
10,077.65	9,985.00	Second Bone Spring Sand				
10,728.61	10,551.00	Third Bone Spring Carbonate				
10,873.29	10,616.00	Third Bone Spring Sand				
11,068.69	10,649.00	HZ Target				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Build 1.5°/100'
2,400.00	2,399.27	17.14	12.00	Build/Turn 1.5°/100'
3,072.23	3,065.65	31.33	92.40	4814' Hold
7,886.41	7,797.78	-178.19	952.29	Drop 1.5°/100'
8,592.65	8,500.00	-193.60	1,015.54	1576' Hold
10,168.69	10,076.04	-193.60	1,015.54	Build 10°/100'
10,517.00	10,403.29	-93.36	1,037.67	FTP/PPP @ 10517' - 150' FSL & 538' FEL
11,068.69	10,649.00	365.88	1,139.06	Turn 2°/100'
11,711.14	10,649.00	1,003.45	1,206.36	9233' Hold
20,944.71	10,649.00	10,236.79	1,142.05	TD at 20944.71



Franklin Mountain Energy

Lea Co., NM (NAD-83)
Treble East Pad
Treble State Com 604H

OH
Plan 1

Anticollision Report

16 May, 2023





Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/16/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	20,943.90	Plan 1 (OH)	MWD+HDGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Treble East Offsets						
East Pearl Queen Unit #027 (Plug) - OH - OH						Out of range
Sparrow 27 #001 - OH - OH						Out of range
Sparrow 27 #002 - OH - OH						Out of range
Sparrow 27 #003 - OH - OH						Out of range
Toro 27 #005 - OH - OH						Out of range
Treble East Pad						
Treble State Com 303H - OH - Plan 1	3,027.88	3,021.23	79.22	64.90	5.533	CC, ES
Treble State Com 303H - OH - Plan 1	3,100.00	3,091.16	80.70	65.86	5.438	SF
Treble State Com 304H - OH - Plan 1	8,913.65	8,905.58	99.99	41.89	1.721	Collision Risk Procedures
Treble State Com 304H - OH - Plan 1	9,000.00	8,991.74	100.00	41.84	1.719	Collision Risk Procedures
Treble State Com 503H - OH - Plan 1	2,000.00	2,000.00	74.99	63.87	6.744	CC, ES
Treble State Com 503H - OH - Plan 1	2,100.00	2,098.56	76.69	65.26	6.708	SF
Treble State Com 504H - OH - Plan 1	2,000.00	2,000.00	49.99	38.87	4.496	CC, ES
Treble State Com 504H - OH - Plan 1	20,944.71	20,644.35	412.90	170.15	1.701	Collision Risk Procedures
Treble State Com 603H - OH - Plan 1	2,000.00	2,000.00	25.00	13.88	2.248	CC, ES, SF
Treble State Com 703H - OH - Plan 1	2,334.00	2,333.60	20.36	8.25	1.681	Collision Risk Procedures
Treble State Com 704H - OH - Plan 1	2,400.00	2,398.36	42.62	30.30	3.460	CC
Treble State Com 704H - OH - Plan 1	3,078.87	3,070.09	43.61	29.27	3.041	ES
Treble State Com 704H - OH - Plan 1	20,944.71	21,269.91	727.63	444.30	2.568	SF
Treble State Com 803H - OH - Plan 1	3,400.00	3,387.07	98.54	82.62	6.191	CC
Treble State Com 803H - OH - Plan 1	3,404.45	3,391.38	98.54	82.59	6.178	ES
Treble State Com 803H - OH - Plan 1	3,500.00	3,484.06	101.40	84.70	6.070	SF
Treble State Com 804H - OH - Plan 1	10,395.62	10,388.45	195.02	135.03	3.251	CC, ES, SF

Offset Design:Treble East Pad - Treble State Com 303H - OH - Plan 1												Offset Site Error:	0.00 usft
Survey Program:		0-MWD+HDGM				Rule Assigned:		Offset Well Error:		0.00 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				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
0.00	0.00	0.00	0.00	0.00	0.00	89.64	0.94	149.97	149.97				
100.00	100.00	100.00	100.00	0.79	0.79	89.64	0.94	149.97	149.97	148.39	1.58	94.670	
200.00	200.00	200.00	200.00	1.45	1.45	89.64	0.94	149.97	149.97	147.07	2.90	51.728	
300.00	300.00	300.00	300.00	1.89	1.89	89.64	0.94	149.97	149.97	146.18	3.79	39.583	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 303H - OH - Plan 1

Survey Program: 0-MWD+HDGM										Rule Assigned:		Offset Site Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)				Warning	
400.00	400.00	400.00	400.00	2.26	2.26	89.64	0.94	149.97	149.97	145.46	4.51	33.239	
500.00	500.00	500.00	500.00	2.57	2.57	89.64	0.94	149.97	149.97	144.83	5.14	29.181	
600.00	600.00	600.00	600.00	2.85	2.85	89.64	0.94	149.97	149.97	144.27	5.70	26.298	
700.00	700.00	700.00	700.00	3.11	3.11	89.64	0.94	149.97	149.97	143.75	6.22	24.112	
800.00	800.00	800.00	800.00	3.35	3.35	89.64	0.94	149.97	149.97	143.27	6.70	22.381	
900.00	900.00	900.00	900.00	3.58	3.58	89.64	0.94	149.97	149.97	142.82	7.15	20.966	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.64	0.94	149.97	149.97	142.39	7.58	19.779	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.64	0.94	149.97	149.97	141.98	7.99	18.766	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.64	0.94	149.97	149.97	141.59	8.38	17.888	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.64	0.94	149.97	149.97	141.21	8.76	17.116	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.64	0.94	149.97	149.97	140.85	9.13	16.431	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.64	0.94	149.97	149.97	140.49	9.48	15.817	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.64	0.94	149.97	149.97	140.15	9.83	15.264	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.64	0.94	149.97	149.97	139.81	10.16	14.760	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.64	0.94	149.97	149.97	139.49	10.49	14.300	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.64	0.94	149.97	149.97	139.17	10.81	13.878	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.64	0.94	149.97	149.97	138.85	11.12	13.488	
2,100.00	2,099.99	2,103.12	2,103.11	5.75	5.74	55.42	0.08	148.88	148.16	136.72	11.44	12.950	
2,200.00	2,199.91	2,205.81	2,205.71	5.94	5.90	57.86	-2.50	145.63	142.90	131.16	11.74	12.174	
2,300.00	2,299.69	2,307.65	2,307.32	6.15	6.08	62.30	-6.75	140.26	134.73	122.71	12.02	11.209	
2,400.00	2,399.27	2,406.81	2,406.10	6.38	6.19	68.95	-12.11	133.49	125.15	112.93	12.22	10.242	
2,500.00	2,498.74	2,505.00	2,503.90	6.60	6.38	62.26	-17.50	126.70	115.90	103.42	12.49	9.283	
2,600.00	2,598.20	2,603.15	2,601.68	6.82	6.58	56.64	-22.88	119.91	106.69	93.94	12.74	8.371	
2,700.00	2,697.57	2,701.21	2,699.35	7.06	6.80	53.94	-28.25	113.12	97.70	84.71	13.00	7.518	
2,800.00	2,796.81	2,799.11	2,796.87	7.28	7.03	55.25	-33.62	106.35	89.46	76.19	13.26	6.744	
2,900.00	2,895.82	2,896.78	2,894.15	7.51	7.28	60.85	-38.97	99.59	82.89	69.28	13.61	6.089	
3,000.00	2,994.55	2,994.14	2,991.14	7.74	7.53	70.39	-44.31	92.85	79.41	65.27	14.14	5.617	
3,027.88	3,022.02	3,021.23	3,018.12	7.80	7.60	73.60	-45.80	90.98	79.22	64.90	14.32	5.533 CC, ES	
3,072.23	3,065.65	3,064.25	3,060.97	7.90	7.72	79.04	-48.16	88.00	79.74	65.11	14.64	5.448	
3,100.00	3,092.95	3,091.16	3,087.78	7.95	7.79	83.74	-49.63	86.14	80.70	65.86	14.84	5.438 SF	
3,200.00	3,191.24	3,188.07	3,184.31	8.21	8.07	99.23	-54.94	79.43	88.56	72.88	15.69	5.645	
3,300.00	3,289.54	3,284.99	3,280.85	8.49	8.35	111.58	-60.26	72.72	101.93	85.45	16.47	6.188	
3,400.00	3,387.83	3,381.90	3,377.39	8.78	8.63	120.85	-65.57	66.02	118.95	101.78	17.17	6.926	
3,500.00	3,486.13	3,478.82	3,473.92	9.09	8.93	127.72	-70.88	59.31	138.30	120.48	17.82	7.760	
3,600.00	3,584.42	3,575.73	3,570.46	9.42	9.23	132.89	-76.20	52.60	159.11	140.67	18.44	8.627	
3,700.00	3,682.72	3,672.65	3,666.99	9.75	9.54	136.85	-81.51	45.90	180.90	161.84	19.06	9.492	
3,800.00	3,781.02	3,769.56	3,763.53	10.09	9.85	139.96	-86.82	39.19	203.34	183.67	19.67	10.337	
3,900.00	3,879.31	3,866.47	3,860.06	10.45	10.16	142.46	-92.14	32.48	226.24	205.95	20.29	11.151	
4,000.00	3,977.61	3,963.39	3,956.60	10.81	10.48	144.49	-97.45	25.78	249.47	228.56	20.91	11.929	
4,100.00	4,075.90	4,060.30	4,053.14	11.18	10.81	146.18	-102.76	19.07	272.95	251.41	21.54	12.669	
4,200.00	4,174.20	4,157.22	4,149.67	11.55	11.13	147.60	-108.08	12.36	296.62	274.44	22.18	13.371	
4,300.00	4,272.49	4,254.13	4,246.21	11.94	11.46	148.81	-113.39	5.66	320.44	297.61	22.83	14.035	
4,400.00	4,370.79	4,351.05	4,342.74	12.32	11.79	149.86	-118.70	-1.05	344.38	320.89	23.49	14.663	
4,500.00	4,469.09	4,447.96	4,439.28	12.72	12.13	150.76	-124.02	-7.76	368.41	344.26	24.15	15.258	
4,600.00	4,567.38	4,544.87	4,535.82	13.11	12.47	151.56	-129.33	-14.46	392.52	367.70	24.81	15.819	
4,700.00	4,665.68	4,641.79	4,632.35	13.52	12.81	152.27	-134.64	-21.17	416.69	391.20	25.49	16.350	
4,800.00	4,763.97	4,738.70	4,728.89	13.92	13.15	152.90	-139.96	-27.87	440.91	414.75	26.16	16.852	
4,900.00	4,862.27	4,835.62	4,825.42	14.33	13.49	153.46	-145.27	-34.58	465.18	438.33	26.85	17.328	
5,000.00	4,960.56	4,932.53	4,921.96	14.74	13.84	153.97	-150.58	-41.29	489.49	461.95	27.53	17.778	
5,100.00	5,058.86	5,029.45	5,018.50	15.16	14.19	154.42	-155.90	-47.99	513.82	485.60	28.22	18.205	
5,200.00	5,157.15	5,126.36	5,115.03	15.57	14.53	154.84	-161.21	-54.70	538.19	509.27	28.92	18.610	
5,300.00	5,255.45	5,223.27	5,211.57	15.99	14.88	155.22	-166.52	-61.41	562.58	532.97	29.62	18.994	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 303H - OH - Plan 1

Survey Program: Reference		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,400.00	5,353.75	5,320.19	5,308.10	16.42	15.24	155.57	-171.84	-68.11	587.00	556.68	30.32	19.359		
5,500.00	5,452.04	5,417.10	5,404.64	16.84	15.59	155.90	-177.15	-74.82	611.43	580.40	31.03	19.706		
5,600.00	5,550.34	5,514.02	5,501.17	17.27	15.94	156.19	-182.46	-81.53	635.88	604.14	31.74	20.037		
5,700.00	5,648.63	5,610.93	5,597.71	17.70	16.30	156.47	-187.78	-88.23	660.34	627.90	32.45	20.352		
5,800.00	5,746.93	5,713.70	5,700.09	18.13	16.66	156.75	-193.30	-95.20	684.69	651.50	33.19	20.632		
5,900.00	5,845.22	5,829.42	5,815.58	18.56	17.07	157.14	-197.85	-100.95	707.07	673.05	34.02	20.784		
6,000.00	5,943.52	5,946.31	5,932.39	18.99	17.41	157.66	-200.25	-103.98	726.91	692.13	34.78	20.900		
6,100.00	6,041.81	6,055.73	6,041.81	19.43	17.58	158.24	-200.62	-104.44	744.42	709.07	35.35	21.060		
6,200.00	6,140.11	6,154.03	6,140.11	19.86	17.62	158.75	-200.62	-104.44	761.56	725.78	35.79	21.282		
6,300.00	6,238.41	6,252.32	6,238.41	20.30	17.66	159.24	-200.62	-104.44	778.76	742.54	36.22	21.499		
6,400.00	6,336.70	6,350.62	6,336.70	20.74	17.70	159.70	-200.62	-104.44	796.02	759.35	36.66	21.711		
6,500.00	6,435.00	6,448.91	6,435.00	21.18	17.74	160.15	-200.62	-104.44	813.32	776.21	37.11	21.918		
6,600.00	6,533.29	6,547.21	6,533.29	21.62	17.78	160.58	-200.62	-104.44	830.67	793.11	37.55	22.119		
6,700.00	6,631.59	6,645.50	6,631.59	22.06	17.83	160.99	-200.62	-104.44	848.06	810.06	38.00	22.315		
6,800.00	6,729.88	6,743.80	6,729.88	22.50	17.87	161.39	-200.62	-104.44	865.49	827.04	38.46	22.506		
6,900.00	6,828.18	6,842.10	6,828.18	22.95	17.91	161.77	-200.62	-104.44	882.97	844.05	38.91	22.692		
7,000.00	6,926.47	6,940.39	6,926.47	23.39	17.95	162.14	-200.62	-104.44	900.47	861.11	39.37	22.873		
7,100.00	7,024.77	7,038.69	7,024.77	23.83	17.99	162.49	-200.62	-104.44	918.02	878.19	39.83	23.050		
7,200.00	7,123.07	7,136.98	7,123.07	24.28	18.03	162.83	-200.62	-104.44	935.59	895.30	40.29	23.222		
7,300.00	7,221.36	7,235.28	7,221.36	24.73	18.08	163.15	-200.62	-104.44	953.20	912.44	40.75	23.390		
7,400.00	7,319.66	7,333.57	7,319.66	25.17	18.12	163.47	-200.62	-104.44	970.83	929.61	41.22	23.554		
7,500.00	7,417.95	7,431.87	7,417.95	25.62	18.16	163.77	-200.62	-104.44	988.49	946.81	41.69	23.713		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 304H - OH - Plan 1

Survey Program: Reference		0-MWD+HDGM Offset						Rule Assigned:					Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis 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	
0.00	0.00	0.00	0.00	0.00	0.00	89.64	1.10	174.97	174.97					
100.00	100.00	100.00	100.00	0.79	0.79	89.64	1.10	174.97	174.97	173.39	1.58	110.452		
200.00	200.00	200.00	200.00	1.45	1.45	89.64	1.10	174.97	174.97	172.07	2.90	60.351		
300.00	300.00	300.00	300.00	1.89	1.89	89.64	1.10	174.97	174.97	171.18	3.79	46.182		
400.00	400.00	400.00	400.00	2.26	2.26	89.64	1.10	174.97	174.97	170.46	4.51	38.780		
500.00	500.00	500.00	500.00	2.57	2.57	89.64	1.10	174.97	174.97	169.83	5.14	34.045		
600.00	600.00	600.00	600.00	2.85	2.85	89.64	1.10	174.97	174.97	169.27	5.70	30.682		
700.00	700.00	700.00	700.00	3.11	3.11	89.64	1.10	174.97	174.97	168.75	6.22	28.132		
800.00	800.00	800.00	800.00	3.35	3.35	89.64	1.10	174.97	174.97	168.27	6.70	26.112		
900.00	900.00	900.00	900.00	3.58	3.58	89.64	1.10	174.97	174.97	167.82	7.15	24.461		
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.64	1.10	174.97	174.97	167.39	7.58	23.077		
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.64	1.10	174.97	174.97	166.98	7.99	21.894		
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.64	1.10	174.97	174.97	166.59	8.38	20.869		
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.64	1.10	174.97	174.97	166.21	8.76	19.969		
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.64	1.10	174.97	174.97	165.85	9.13	19.170		
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.64	1.10	174.97	174.97	165.49	9.48	18.454		
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.64	1.10	174.97	174.97	165.15	9.83	17.808		
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.64	1.10	174.97	174.97	164.81	10.16	17.221		
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.64	1.10	174.97	174.97	164.49	10.49	16.684		
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.64	1.10	174.97	174.97	164.17	10.81	16.191		
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.64	1.10	174.97	174.97	163.85	11.12	15.736		
2,100.00	2,099.99	2,099.99	2,099.99	5.75	5.71	55.00	1.10	174.97	174.22	162.78	11.44	15.235		
2,200.00	2,199.91	2,199.91	2,199.91	5.94	5.86	56.10	1.10	174.97	172.00	160.25	11.75	14.644		
2,300.00	2,299.69	2,299.69	2,299.69	6.15	6.01	57.99	1.10	174.97	168.43	156.38	12.05	13.975		
2,400.00	2,399.27	2,399.27	2,399.27	6.38	6.16	60.76	1.10	174.97	163.76	151.40	12.35	13.256		
2,500.00	2,498.74	2,498.74	2,498.74	6.60	6.30	49.27	1.10	174.97	157.86	145.20	12.66	12.466		
2,600.00	2,598.20	2,594.98	2,594.97	6.82	6.46	37.42	1.50	176.08	151.34	138.36	12.98	11.655		
2,700.00	2,697.57	2,691.52	2,691.44	7.06	6.62	26.48	2.74	179.48	145.05	131.75	13.31	10.900		
2,800.00	2,796.81	2,787.84	2,787.59	7.28	6.77	17.19	4.06	185.13	138.95	125.31	13.64	10.189		
2,900.00	2,895.82	2,884.29	2,883.71	7.51	6.94	9.74	4.41	193.02	133.17	119.17	14.00	9.510		
3,000.00	2,994.55	2,980.89	2,979.77	7.74	7.13	3.62	3.79	203.15	127.70	113.29	14.42	8.858		
3,072.23	3,065.65	3,050.76	3,049.08	7.90	7.28	-0.23	2.74	211.86	123.95	109.23	14.72	8.422		
3,100.00	3,092.95	3,077.64	3,075.70	7.95	7.34	-0.39	2.20	215.52	122.64	107.81	14.83	8.271		
3,200.00	3,191.24	3,174.56	3,171.49	8.21	7.57	-0.86	-0.38	230.14	119.51	104.18	15.33	7.798		
3,300.00	3,289.54	3,272.44	3,267.82	8.49	7.76	-1.13	-3.94	247.06	118.77	102.96	15.81	7.513		
3,400.00	3,387.83	3,372.44	3,366.13	8.78	8.01	-1.35	-7.83	264.93	118.68	102.29	16.38	7.244		
3,500.00	3,486.13	3,472.44	3,464.45	9.09	8.28	-1.57	-11.72	282.80	118.58	101.58	17.00	6.975		
3,600.00	3,584.42	3,572.44	3,562.76	9.42	8.57	-1.79	-15.61	300.66	118.49	100.84	17.65	6.713		
3,700.00	3,682.72	3,672.44	3,661.07	9.75	8.87	-2.01	-19.50	318.53	118.39	100.07	18.32	6.461		
3,800.00	3,781.02	3,772.44	3,759.39	10.09	9.19	-2.23	-23.38	336.39	118.30	99.28	19.02	6.219		
3,900.00	3,879.31	3,872.43	3,857.70	10.45	9.51	-2.45	-27.27	354.26	118.22	98.48	19.74	5.989		
4,000.00	3,977.61	3,972.43	3,956.01	10.81	9.85	-2.67	-31.16	372.13	118.13	97.65	20.48	5.769		
4,100.00	4,075.90	4,072.43	4,054.33	11.18	10.20	-2.89	-35.05	389.99	118.04	96.81	21.23	5.560		
4,200.00	4,174.20	4,172.43	4,152.64	11.55	10.56	-3.11	-38.94	407.86	117.96	95.96	22.00	5.362		
4,300.00	4,272.49	4,272.43	4,250.95	11.94	10.92	-3.34	-42.83	425.72	117.88	95.10	22.78	5.175		
4,400.00	4,370.79	4,372.43	4,349.27	12.32	11.30	-3.56	-46.72	443.59	117.80	94.23	23.57	4.997		
4,500.00	4,469.09	4,472.43	4,447.58	12.72	11.67	-3.78	-50.60	461.45	117.72	93.35	24.38	4.829		
4,600.00	4,567.38	4,572.43	4,545.89	13.11	12.06	-4.00	-54.49	479.32	117.65	92.46	25.19	4.670		
4,700.00	4,665.68	4,672.43	4,644.21	13.52	12.45	-4.23	-58.38	497.19	117.57	91.56	26.01	4.520		
4,800.00	4,763.97	4,772.42	4,742.52	13.92	12.84	-4.45	-62.27	515.05	117.50	90.66	26.84	4.378		
4,900.00	4,862.27	4,872.42	4,840.83	14.33	13.24	-4.67	-66.16	532.92	117.43	89.75	27.68	4.243		
5,000.00	4,960.56	4,972.42	4,939.15	14.74	13.65	-4.90	-70.05	550.78	117.36	88.84	28.52	4.115		

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 304H - OH - Plan 1

Survey Program: Reference		0-MWD+HDGM Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,058.86	5,072.42	5,037.46	15.16	14.05	-5.12	-73.94	568.65	117.29	87.92	29.37	3.994		
5,200.00	5,157.15	5,172.42	5,135.77	15.57	14.46	-5.35	-77.83	586.51	117.23	87.00	30.22	3.879		
5,300.00	5,255.45	5,272.42	5,234.08	15.99	14.88	-5.57	-81.71	604.38	117.16	86.08	31.08	3.770		
5,400.00	5,353.75	5,372.42	5,332.40	16.42	15.29	-5.79	-85.60	622.25	117.10	85.16	31.94	3.666		
5,500.00	5,452.04	5,472.42	5,430.71	16.84	15.71	-6.02	-89.49	640.11	117.04	84.23	32.81	3.567		
5,600.00	5,550.34	5,572.42	5,529.02	17.27	16.13	-6.25	-93.38	657.98	116.98	83.30	33.68	3.473		
5,700.00	5,648.63	5,672.41	5,627.34	17.70	16.55	-6.47	-97.27	675.84	116.93	82.37	34.55	3.384		
5,800.00	5,746.93	5,772.41	5,725.65	18.13	16.98	-6.70	-101.16	693.71	116.87	81.44	35.43	3.299		
5,900.00	5,845.22	5,872.41	5,823.96	18.56	17.41	-6.92	-105.05	711.58	116.82	80.51	36.31	3.217		
6,000.00	5,943.52	5,972.41	5,922.28	18.99	17.84	-7.15	-108.93	729.44	116.77	79.58	37.19	3.140		
6,100.00	6,041.81	6,072.41	6,020.59	19.43	18.27	-7.37	-112.82	747.31	116.72	78.65	38.07	3.066		
6,200.00	6,140.11	6,172.41	6,118.90	19.86	18.70	-7.60	-116.71	765.17	116.67	77.72	38.95	2.995		
6,300.00	6,238.41	6,272.41	6,217.22	20.30	19.13	-7.83	-120.60	783.04	116.63	76.78	39.84	2.927		
6,400.00	6,336.70	6,372.41	6,315.53	20.74	19.57	-8.05	-124.49	800.90	116.58	75.85	40.73	2.862		
6,500.00	6,435.00	6,472.41	6,413.84	21.18	20.00	-8.28	-128.38	818.77	116.54	74.92	41.62	2.800		
6,600.00	6,533.29	6,572.41	6,512.16	21.62	20.44	-8.51	-132.27	836.64	116.50	73.99	42.51	2.741		
6,700.00	6,631.59	6,672.40	6,610.47	22.06	20.88	-8.74	-136.16	854.50	116.46	73.07	43.40	2.684		
6,800.00	6,729.88	6,772.40	6,708.78	22.50	21.32	-8.96	-140.04	872.37	116.43	72.14	44.29	2.629		
6,900.00	6,828.18	6,872.40	6,807.09	22.95	21.76	-9.19	-143.93	890.23	116.39	71.21	45.18	2.576		
7,000.00	6,926.47	6,972.40	6,905.41	23.39	22.20	-9.42	-147.82	908.10	116.36	70.29	46.07	2.526		
7,100.00	7,024.77	7,072.40	7,003.72	23.83	22.64	-9.65	-151.71	925.97	116.33	69.36	46.96	2.477		
7,200.00	7,123.07	7,172.40	7,102.03	24.28	23.09	-9.88	-155.60	943.83	116.30	68.44	47.86	2.430		
7,300.00	7,221.36	7,272.40	7,200.35	24.73	23.53	-10.10	-159.49	961.70	116.27	67.52	48.75	2.385		
7,400.00	7,319.66	7,372.40	7,298.66	25.17	23.98	-10.33	-163.38	979.56	116.25	66.60	49.64	2.342		
7,500.00	7,417.95	7,472.40	7,396.97	25.62	24.42	-10.56	-167.26	997.43	116.22	65.69	50.54	2.300		
7,600.00	7,516.25	7,572.39	7,495.29	26.07	24.87	-10.79	-171.15	1,015.29	116.20	64.77	51.43	2.259		
7,700.00	7,614.54	7,672.39	7,593.60	26.52	25.31	-11.02	-175.04	1,033.16	116.18	63.86	52.32	2.220		
7,800.00	7,712.84	7,772.39	7,691.91	26.97	25.76	-11.25	-178.93	1,051.03	116.16	62.95	53.21	2.183		
7,886.41	7,797.78	7,861.18	7,779.35	27.35	26.15	-11.52	-182.21	1,066.09	115.35	61.37	53.98	2.137		
7,900.00	7,811.14	7,875.19	7,793.18	27.41	26.21	-11.58	-182.69	1,068.28	115.07	60.98	54.09	2.127		
8,000.00	7,909.72	7,978.18	7,895.08	27.87	26.66	-11.99	-185.87	1,082.90	112.94	58.00	54.94	2.056		
8,100.00	8,008.71	8,081.12	7,997.28	28.30	27.09	-12.39	-188.46	1,094.83	110.73	55.03	55.70	1.988 Collision Risk Procedures Req.		
8,200.00	8,108.04	8,183.98	8,099.71	28.71	27.49	-12.79	-190.47	1,104.05	108.44	52.05	56.39	1.923 Collision Risk Procedures Req.		
8,300.00	8,207.64	8,286.78	8,202.29	29.10	27.86	-13.17	-191.89	1,110.58	106.06	49.08	56.98	1.861 Collision Risk Procedures Req.		
8,400.00	8,307.43	8,389.51	8,304.94	29.46	28.19	-13.54	-192.72	1,114.40	103.61	46.13	57.47	1.803 Collision Risk Procedures Req.		
8,500.00	8,407.36	8,491.94	8,407.36	29.78	28.35	-13.90	-192.97	1,115.53	101.08	43.34	57.74	1.751 Collision Risk Procedures Req.		
8,592.65	8,500.00	8,584.58	8,500.00	29.92	28.38	89.64	-192.97	1,115.53	99.99	42.10	57.90	1.727 Collision Risk Procedures Req.		
8,600.00	8,507.35	8,591.93	8,507.35	29.92	28.38	89.64	-192.97	1,115.53	99.99	42.09	57.90	1.727 Collision Risk Procedures Req.		
8,700.00	8,607.35	8,691.93	8,607.35	29.97	28.41	89.64	-192.97	1,115.53	99.99	42.01	57.98	1.725 Collision Risk Procedures Req.		
8,800.00	8,707.35	8,791.93	8,707.35	30.00	28.44	89.64	-192.97	1,115.53	99.99	41.96	58.04	1.723 Collision Risk Procedures Req.		
8,900.00	8,807.35	8,891.93	8,807.35	30.02	28.47	89.64	-192.97	1,115.53	99.99	41.90	58.09	1.721 Collision Risk Procedures Req.		
8,913.65	8,821.00	8,905.58	8,821.00	30.03	28.48	89.64	-192.97	1,115.53	99.99	41.89	58.10	1.721 Collision Risk Procedures Req., CC		
9,000.00	8,907.35	8,991.74	8,907.16	30.05	28.49	89.61	-192.91	1,115.54	100.00	41.84	58.16	1.719 Collision Risk Procedures Req., ES		
9,100.00	9,007.35	9,088.35	9,003.19	30.08	28.50	84.30	-183.50	1,116.71	101.76	43.85	57.91	1.757 Collision Risk Procedures Req.		
9,200.00	9,107.35	9,179.33	9,090.97	30.11	28.50	72.17	-160.12	1,119.62	110.55	54.37	56.18	1.968 Collision Risk Procedures Req.		
9,300.00	9,207.35	9,261.14	9,165.84	30.14	28.50	58.59	-127.57	1,123.68	133.33	80.81	52.52	2.538		
9,400.00	9,307.35	9,332.32	9,226.61	30.16	28.51	47.65	-90.88	1,128.25	172.55	124.00	48.54	3.555		
9,500.00	9,407.35	9,393.04	9,274.50	30.19	28.53	40.02	-53.88	1,132.85	225.68	180.12	45.56	4.953		
9,600.00	9,507.35	9,450.00	9,315.60	30.22	28.56	34.34	-14.78	1,137.72	289.26	245.60	43.66	6.625		
9,700.00	9,607.35	9,487.63	9,340.52	30.25	28.59	31.29	13.19	1,141.21	360.21	317.76	42.45	8.486		
9,800.00	9,707.35	9,524.24	9,362.94	30.28	28.62	28.76	41.90	1,144.78	436.79	395.06	41.73	10.467		
9,900.00	9,807.35	9,550.00	9,377.58	30.31	28.65	27.20	62.93	1,147.40	517.58	476.31	41.28	12.539		

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 304H - OH - Plan 1

Survey Program: 0-MWD+HDGM							Rule Assigned:						Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.00	9,907.35	9,582.01	9,394.43	30.34	28.69	25.50	89.93	1,150.77	601.47	560.38	41.09	14.639		
10,100.00	10,007.35	9,600.00	9,403.22	30.37	28.71	24.64	105.50	1,152.71	687.93	646.95	40.98	16.789		
10,168.69	10,076.04	9,618.97	9,411.95	30.38	28.74	23.79	122.21	1,154.79	748.42	707.43	41.00	18.256		
10,200.00	10,107.33	9,625.24	9,414.72	30.39	28.75	10.04	127.80	1,155.48	775.89	734.88	41.01	18.918		
10,250.00	10,157.08	9,650.00	9,425.03	30.41	28.79	8.07	150.14	1,158.27	818.68	777.53	41.15	19.896		
10,300.00	10,206.20	9,650.00	9,425.03	30.44	28.79	7.16	150.14	1,158.27	859.07	817.89	41.18	20.861		
10,350.00	10,254.34	9,650.00	9,425.03	30.47	28.79	6.43	150.14	1,158.27	897.91	856.69	41.23	21.780		
10,400.00	10,301.12	9,672.95	9,433.70	30.50	28.83	5.52	171.22	1,160.89	934.37	892.97	41.40	22.572		
10,450.00	10,346.18	9,700.00	9,442.83	30.54	28.88	4.77	196.49	1,164.04	969.00	927.40	41.59	23.296		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 503H - OH - Plan 1

Survey Program: 0-MWD+HDGM													Offset Site Error: 0.00 usft			
Reference				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-90.36	-0.47	-74.99	74.99							
100.00	100.00	100.00	100.00	0.79	0.79	-90.36	-0.47	-74.99	74.99	73.41	1.58	47.338				
200.00	200.00	200.00	200.00	1.45	1.45	-90.36	-0.47	-74.99	74.99	72.09	2.90	25.866				
300.00	300.00	300.00	300.00	1.89	1.89	-90.36	-0.47	-74.99	74.99	71.20	3.79	19.793				
400.00	400.00	400.00	400.00	2.26	2.26	-90.36	-0.47	-74.99	74.99	70.48	4.51	16.621				
500.00	500.00	500.00	500.00	2.57	2.57	-90.36	-0.47	-74.99	74.99	69.85	5.14	14.591				
600.00	600.00	600.00	600.00	2.85	2.85	-90.36	-0.47	-74.99	74.99	69.29	5.70	13.150				
700.00	700.00	700.00	700.00	3.11	3.11	-90.36	-0.47	-74.99	74.99	68.77	6.22	12.057				
800.00	800.00	800.00	800.00	3.35	3.35	-90.36	-0.47	-74.99	74.99	68.29	6.70	11.191				
900.00	900.00	900.00	900.00	3.58	3.58	-90.36	-0.47	-74.99	74.99	67.84	7.15	10.484				
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-90.36	-0.47	-74.99	74.99	67.41	7.58	9.890				
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	-90.36	-0.47	-74.99	74.99	67.00	7.99	9.384				
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-90.36	-0.47	-74.99	74.99	66.61	8.38	8.944				
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-90.36	-0.47	-74.99	74.99	66.23	8.76	8.558				
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-90.36	-0.47	-74.99	74.99	65.86	9.13	8.216				
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-90.36	-0.47	-74.99	74.99	65.51	9.48	7.909				
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-90.36	-0.47	-74.99	74.99	65.17	9.83	7.632				
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-90.36	-0.47	-74.99	74.99	64.83	10.16	7.381				
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-90.36	-0.47	-74.99	74.99	64.50	10.49	7.151				
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-90.36	-0.47	-74.99	74.99	64.18	10.81	6.939				
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-90.36	-0.47	-74.99	74.99	63.87	11.12	6.744 CC, ES				
2,100.00	2,099.99	2,098.56	2,098.55	5.75	5.73	-126.79	-1.37	-75.89	76.69	65.26	11.43	6.708 SF				
2,200.00	2,199.91	2,196.72	2,196.63	5.94	5.89	-130.71	-4.05	-78.57	82.06	70.33	11.74	6.992				
2,300.00	2,299.69	2,294.10	2,293.81	6.15	6.06	-136.12	-8.47	-82.99	91.75	79.67	12.07	7.598				
2,400.00	2,399.27	2,390.32	2,389.64	6.38	6.25	-141.92	-14.56	-89.08	106.37	93.92	12.46	8.540				
2,500.00	2,498.74	2,485.35	2,484.05	6.60	6.46	-161.29	-22.24	-96.76	125.70	112.84	12.86	9.776				
2,600.00	2,598.20	2,580.97	2,578.78	6.82	6.62	-178.52	-31.44	-105.96	148.44	135.22	13.23	11.223				
2,700.00	2,697.57	2,677.98	2,674.85	7.06	6.84	-167.54	-40.99	-115.51	172.45	158.78	13.67	12.611				
2,800.00	2,796.81	2,774.86	2,770.78	7.28	7.08	-157.00	-50.52	-125.04	197.22	183.07	14.15	13.938				
2,900.00	2,895.82	2,871.55	2,866.52	7.51	7.34	-149.35	-60.04	-134.56	222.68	208.05	14.64	15.216				
3,000.00	2,994.55	2,967.97	2,962.01	7.74	7.61	-143.93	-69.53	-144.05	248.89	233.76	15.13	16.447				
3,072.23	3,065.65	3,037.37	3,030.74	7.90	7.79	-141.07	-76.36	-150.88	268.33	252.88	15.45	17.369				
3,100.00	3,092.95	3,063.75	3,056.87	7.95	7.86	-141.48	-78.85	-153.54	275.91	260.35	15.56	17.731				
3,200.00	3,191.24	3,158.41	3,150.64	8.21	8.13	-143.06	-86.53	-163.87	303.57	287.50	16.07	18.893				
3,300.00	3,289.54	3,252.42	3,243.77	8.49	8.41	-144.77	-92.19	-175.36	331.87	315.28	16.59	20.007				
3,400.00	3,387.83	3,347.19	3,337.62	8.78	8.69	-146.51	-96.46	-187.82	360.79	343.66	17.13	21.058				
3,500.00	3,486.13	3,442.37	3,431.87	9.09	9.00	-148.00	-100.69	-200.38	390.00	372.27	17.73	21.999				
3,600.00	3,584.42	3,537.54	3,526.12	9.42	9.31	-149.29	-104.92	-212.93	419.41	401.08	18.34	22.871				
3,700.00	3,682.72	3,632.72	3,620.37	9.75	9.64	-150.41	-109.15	-225.48	449.00	430.03	18.97	23.672				
3,800.00	3,781.02	3,727.90	3,714.62	10.09	9.96	-151.39	-113.38	-238.03	478.72	459.11	19.61	24.408				
3,900.00	3,879.31	3,823.07	3,808.87	10.45	10.30	-152.26	-117.62	-250.59	508.56	488.29	20.27	25.085				
4,000.00	3,977.61	3,918.25	3,903.12	10.81	10.64	-153.03	-121.85	-263.14	538.49	517.55	20.95	25.707				
4,100.00	4,075.90	4,013.43	3,997.37	11.18	10.98	-153.72	-126.08	-275.69	568.50	546.87	21.63	26.279				
4,200.00	4,174.20	4,108.60	4,091.62	11.55	11.33	-154.34	-130.31	-288.25	598.59	576.26	22.33	26.806				
4,300.00	4,272.49	4,203.78	4,185.87	11.94	11.69	-154.91	-134.54	-300.80	628.72	605.69	23.04	27.292				
4,400.00	4,370.79	4,298.96	4,280.12	12.32	12.04	-155.42	-138.77	-313.35	658.91	635.16	23.75	27.740				
4,500.00	4,469.09	4,394.13	4,374.37	12.72	12.41	-155.88	-143.00	-325.90	689.14	664.67	24.48	28.155				
4,600.00	4,567.38	4,489.31	4,468.62	13.11	12.77	-156.31	-147.23	-338.46	719.42	694.21	25.21	28.538				
4,700.00	4,665.68	4,584.49	4,562.87	13.52	13.14	-156.70	-151.46	-351.01	749.72	723.77	25.95	28.893				
4,800.00	4,763.97	4,679.66	4,657.12	13.92	13.51	-157.06	-155.69	-363.56	780.05	753.36	26.69	29.223				
4,900.00	4,862.27	4,774.84	4,751.37	14.33	13.88	-157.40	-159.92	-376.11	810.41	782.97	27.44	29.530				
5,000.00	4,960.56	4,870.02	4,845.62	14.74	14.25	-157.71	-164.15	-388.67	840.80	812.60	28.20	29.816				

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 503H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,058.86	4,965.19	4,939.87	15.16	14.63	158.00	-168.38	-401.22	871.20	842.24	28.96	30.082	
5,200.00	5,157.15	5,060.37	5,034.13	15.57	15.01	158.27	-172.61	-413.77	901.62	871.90	29.73	30.330	
5,300.00	5,255.45	5,155.55	5,128.38	15.99	15.39	158.52	-176.84	-426.32	932.06	901.57	30.50	30.563	
5,400.00	5,353.75	5,250.72	5,222.63	16.42	15.77	158.76	-181.07	-438.88	962.52	931.25	31.27	30.780	
5,500.00	5,452.04	5,345.90	5,316.88	16.84	16.15	158.98	-185.30	-451.43	992.99	960.94	32.05	30.984	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 504H - OH - Plan 1

Survey Program: 0-MWD+HDGM											Offset Site Error: 0.00 usft	
Rule Assigned: Distance											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	-90.37	-0.32	-49.99	49.99	48.41	1.58	31.557
100.00	100.00	100.00	100.00	0.79	0.79	-90.37	-0.32	-49.99	49.99	47.09	2.90	17.243
200.00	200.00	200.00	200.00	1.45	1.45	-90.37	-0.32	-49.99	49.99	46.20	3.79	13.194
300.00	300.00	300.00	300.00	1.89	1.89	-90.37	-0.32	-49.99	49.99	45.48	4.51	11.080
400.00	400.00	400.00	400.00	2.26	2.26	-90.37	-0.32	-49.99	49.99	44.85	5.14	9.727
500.00	500.00	500.00	500.00	2.57	2.57	-90.37	-0.32	-49.99	49.99	44.29	5.70	8.766
600.00	600.00	600.00	600.00	2.85	2.85	-90.37	-0.32	-49.99	49.99	43.77	6.22	8.037
700.00	700.00	700.00	700.00	3.11	3.11	-90.37	-0.32	-49.99	49.99	43.29	6.70	7.460
800.00	800.00	800.00	800.00	3.35	3.35	-90.37	-0.32	-49.99	49.99	42.84	7.15	6.989
900.00	900.00	900.00	900.00	3.58	3.58	-90.37	-0.32	-49.99	49.99	42.41	7.58	6.593
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-90.37	-0.32	-49.99	49.99	42.00	7.99	6.255
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	-90.37	-0.32	-49.99	49.99	41.61	8.38	5.963
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-90.37	-0.32	-49.99	49.99	41.23	8.76	5.705
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-90.37	-0.32	-49.99	49.99	40.86	9.13	5.477
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-90.37	-0.32	-49.99	49.99	40.51	9.48	5.272
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-90.37	-0.32	-49.99	49.99	40.17	9.83	5.088
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-90.37	-0.32	-49.99	49.99	39.83	10.16	4.920
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-90.37	-0.32	-49.99	49.99	39.50	10.49	4.767
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-90.37	-0.32	-49.99	49.99	39.18	10.81	4.626
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-90.37	-0.32	-49.99	49.99	38.87	11.12	4.496 CC, ES
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-90.37	-0.32	-49.99	49.99	38.43	11.44	4.438
2,100.00	2,099.99	2,099.99	2,099.99	5.75	5.71	-126.56	-0.32	-49.99	50.76	39.32	11.75	4.525
2,200.00	2,199.91	2,199.91	2,199.91	5.94	5.86	-129.93	-0.32	-49.99	53.19	41.44	12.09	4.767
2,300.00	2,299.69	2,299.69	2,299.69	6.15	6.01	-134.87	-0.32	-49.99	57.61	45.53	12.44	5.177
2,400.00	2,399.27	2,399.27	2,399.27	6.38	6.16	-140.58	-0.32	-49.99	64.40	51.96	12.80	5.728
2,500.00	2,498.74	2,498.74	2,498.74	6.60	6.30	-159.39	-0.32	-49.99	73.30	60.50	13.16	6.340
2,600.00	2,598.20	2,598.20	2,598.20	6.82	6.44	-175.29	-0.32	-49.99	83.43	70.27	13.53	6.989
2,700.00	2,697.57	2,697.57	2,697.57	7.06	6.58	-172.44	-0.32	-49.99	94.53	81.01	13.89	7.674
2,800.00	2,796.81	2,796.81	2,796.81	7.28	6.71	-163.78	-0.32	-49.99	106.62	92.72	14.26	8.402
2,900.00	2,895.82	2,895.82	2,895.82	7.51	6.85	-158.14	-0.32	-49.99	119.83	105.57	14.64	9.181
3,000.00	2,994.55	2,994.55	2,994.55	7.74	6.98	-154.78	-0.32	-49.99	134.39	119.75	14.90	9.753
3,072.23	3,065.65	3,068.02	3,068.01	7.90	7.08	-153.36	-0.44	-49.40	145.33	130.43	14.99	9.964
3,100.00	3,092.95	3,096.42	3,096.41	7.95	7.12	-154.17	-0.56	-48.80	149.38	134.39	15.40	10.559
3,200.00	3,191.24	3,199.24	3,199.15	8.21	7.27	-156.54	-1.36	-44.90	162.59	147.20	15.84	10.955
3,300.00	3,289.54	3,302.80	3,302.48	8.49	7.42	-158.24	-2.73	-38.24	173.50	157.66	16.31	11.158
3,400.00	3,387.83	3,406.96	3,406.19	8.78	7.60	-159.46	-4.67	-28.77	181.95	165.65	16.81	11.176
3,500.00	3,486.13	3,511.57	3,510.05	9.09	7.81	-160.32	-7.20	-16.48	187.88	171.07	17.39	11.000
3,600.00	3,584.42	3,615.59	3,612.93	9.42	8.07	-160.87	-10.26	-1.54	191.26	173.88	18.21	10.643
3,700.00	3,682.72	3,715.54	3,711.67	9.75	8.53	-161.31	-13.39	13.72	193.77	175.57	18.78	10.449
3,800.00	3,781.02	3,815.50	3,810.40	10.09	8.75	-161.73	-16.53	28.99	196.29	177.51	19.39	10.254
3,900.00	3,879.31	3,915.46	3,909.14	10.45	8.99	-162.15	-19.66	44.25	198.82	179.43	20.02	10.060
4,000.00	3,977.61	4,015.42	4,007.87	10.81	9.24	-162.55	-22.79	59.52	201.36	181.34	20.66	9.868
4,100.00	4,075.90	4,115.38	4,108.61	11.18	9.51	-162.94	-25.92	74.78	203.91	183.24	21.33	9.679
4,200.00	4,174.20	4,215.33	4,205.35	11.55	9.78	-163.32	-29.06	90.05	206.47	185.13	22.02	9.494
4,300.00	4,272.49	4,315.29	4,304.08	11.94	10.08	-163.70	-32.19	105.31	209.03	187.02	22.72	9.314
4,400.00	4,370.79	4,415.25	4,402.82	12.32	10.38	-164.06	-35.32	120.57	211.61	188.89	23.44	9.140
4,500.00	4,469.09	4,515.21	4,501.55	12.72	10.69	-164.42	-38.45	135.84	214.19	190.76	24.17	8.971
4,600.00	4,567.38	4,615.16	4,600.29	13.11	11.01	-164.77	-41.59	151.10	216.79	192.62	24.91	8.807
4,700.00	4,665.68	4,715.12	4,699.02	13.52	11.34	-165.10	-44.72	166.37	219.39	194.48	25.67	8.650
4,800.00	4,763.97	4,815.08	4,797.76	13.92	11.68	-165.44	-47.85	181.63	221.99	196.33	26.43	8.498
4,900.00	4,862.27	4,915.04	4,896.50	14.33	12.02	-165.76	-50.98	196.90	224.61	198.18	27.21	8.352
5,000.00	4,960.56	5,015.00	4,995.23	14.74	12.38	-166.08	-54.12	212.16	227.23	200.02		

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 504H - OH - Plan 1													Offset Site Error:	
Survey Program: 0-MWD+HDGM													Offset Well Error:	
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,058.86	5,114.95	5,093.97	15.16	12.73	166.38	-57.25	227.43	229.86	201.87	27.99	8.212		
5,200.00	5,157.15	5,214.91	5,192.70	15.57	13.10	166.69	-60.38	242.69	232.49	203.71	28.78	8.077		
5,300.00	5,255.45	5,314.87	5,291.44	15.99	13.46	166.98	-63.51	257.96	235.14	205.55	29.58	7.948		
5,400.00	5,353.75	5,414.83	5,390.18	16.42	13.83	167.27	-66.65	273.22	237.78	207.39	30.39	7.824		
5,500.00	5,452.04	5,514.79	5,488.91	16.84	14.21	167.55	-69.78	288.49	240.44	209.23	31.21	7.705		
5,600.00	5,550.34	5,614.74	5,587.65	17.27	14.59	167.83	-72.91	303.75	243.10	211.07	32.03	7.590		
5,700.00	5,648.63	5,714.70	5,686.38	17.70	14.97	168.10	-76.04	319.02	245.76	212.91	32.85	7.481		
5,800.00	5,746.93	5,814.66	5,785.12	18.13	15.36	168.36	-79.18	334.28	248.43	214.75	33.68	7.375		
5,900.00	5,845.22	5,914.62	5,883.85	18.56	15.75	168.62	-82.31	349.55	251.11	216.58	34.52	7.274		
6,000.00	5,943.52	6,014.58	5,982.59	18.99	16.15	168.87	-85.44	364.81	253.79	218.42	35.36	7.177		
6,100.00	6,041.81	6,114.53	6,081.33	19.43	16.54	169.12	-88.57	380.07	256.47	220.26	36.21	7.084		
6,200.00	6,140.11	6,214.49	6,180.06	19.86	16.94	169.36	-91.71	395.34	259.16	222.11	37.05	6.994		
6,300.00	6,238.41	6,314.45	6,278.80	20.30	17.34	169.60	-94.84	410.60	261.85	223.95	37.91	6.908		
6,400.00	6,336.70	6,414.41	6,377.53	20.74	17.74	169.83	-97.97	425.87	264.55	225.79	38.76	6.825		
6,500.00	6,435.00	6,514.36	6,476.27	21.18	18.15	170.06	-101.10	441.13	267.26	227.64	39.62	6.746		
6,600.00	6,533.29	6,614.32	6,575.00	21.62	18.55	170.28	-104.23	456.40	269.96	229.48	40.48	6.669		
6,700.00	6,631.59	6,714.28	6,673.74	22.06	18.96	170.50	-107.37	471.66	272.67	231.33	41.34	6.595		
6,800.00	6,729.88	6,814.24	6,772.48	22.50	19.37	170.72	-110.50	486.93	275.39	233.18	42.21	6.524		
6,900.00	6,828.18	6,914.20	6,871.21	22.95	19.78	170.93	-113.63	502.19	278.11	235.03	43.08	6.456		
7,000.00	6,926.47	7,014.15	6,969.95	23.39	20.20	171.14	-116.76	517.46	280.83	236.88	43.95	6.390		
7,100.00	7,024.77	7,114.11	7,068.68	23.83	20.61	171.34	-119.90	532.72	283.56	238.73	44.82	6.326		
7,200.00	7,123.07	7,214.07	7,167.42	24.28	21.03	171.54	-123.03	547.99	286.29	240.59	45.70	6.265		
7,300.00	7,221.36	7,314.03	7,266.15	24.73	21.44	171.73	-126.16	563.25	289.02	242.44	46.58	6.205		
7,400.00	7,319.66	7,413.99	7,364.89	25.17	21.86	171.92	-129.29	578.52	291.75	244.30	47.45	6.148		
7,500.00	7,417.95	7,513.94	7,463.63	25.62	22.28	172.11	-132.43	593.78	294.49	246.16	48.33	6.093		
7,600.00	7,516.25	7,613.90	7,562.36	26.07	22.70	172.29	-135.56	609.05	297.24	248.02	49.22	6.039		
7,700.00	7,614.54	7,713.86	7,661.10	26.52	23.12	172.48	-138.69	624.31	299.98	249.88	50.10	5.988		
7,800.00	7,712.84	7,813.82	7,759.83	26.97	23.55	172.65	-141.82	639.58	302.73	251.75	50.98	5.938		
7,886.41	7,797.78	7,900.19	7,845.15	27.35	23.91	172.80	-144.53	652.77	305.11	253.36	51.74	5.896		
7,900.00	7,811.14	7,913.78	7,858.57	27.41	23.97	172.83	-144.96	654.84	305.46	253.59	51.86	5.890		
8,000.00	7,909.72	8,013.76	7,957.34	27.87	24.39	172.96	-148.09	670.11	306.56	253.80	52.76	5.811		
8,100.00	8,008.71	8,113.75	8,056.10	28.30	24.82	173.03	-151.22	685.38	305.06	251.44	53.62	5.689		
8,200.00	8,108.04	8,213.66	8,154.79	28.71	25.24	173.04	-154.35	700.64	300.97	246.51	54.46	5.526		
8,300.00	8,207.64	8,313.44	8,253.34	29.10	25.67	172.98	-157.48	715.87	294.28	239.00	55.28	5.323		
8,400.00	8,307.43	8,413.00	8,351.69	29.46	26.09	172.85	-160.60	731.08	285.01	228.94	56.07	5.083		
8,500.00	8,407.36	8,512.29	8,449.76	29.78	26.52	172.63	-163.71	746.24	273.15	216.35	56.81	4.808		
8,592.65	8,500.00	8,603.97	8,540.33	29.92	26.91	-83.96	-166.59	760.24	259.87	202.54	57.34	4.532		
8,600.00	8,507.35	8,611.23	8,547.50	29.92	26.94	-83.98	-166.81	761.35	258.73	201.36	57.37	4.510		
8,700.00	8,607.35	8,710.01	8,645.07	29.97	27.37	-84.34	-169.91	776.43	243.22	185.39	57.83	4.206		
8,800.00	8,707.35	8,808.79	8,742.64	30.00	27.79	-84.75	-173.00	791.52	227.72	169.45	58.27	3.908		
8,900.00	8,807.35	8,907.56	8,840.21	30.02	28.22	-85.21	-176.10	806.60	212.23	153.52	58.71	3.615		
9,000.00	8,907.35	9,006.34	8,937.78	30.05	28.64	-85.75	-179.19	821.69	196.75	137.62	59.13	3.327		
9,100.00	9,007.35	9,105.12	9,035.35	30.08	29.07	-86.38	-182.29	836.77	181.30	121.74	59.56	3.044		
9,200.00	9,107.35	9,203.34	9,132.37	30.11	29.49	-87.12	-185.36	851.75	165.89	105.94	59.96	2.767		
9,300.00	9,207.35	9,300.00	9,228.08	30.14	29.92	-87.90	-188.08	865.01	152.05	91.71	60.34	2.520		
9,400.00	9,307.35	9,394.16	9,321.61	30.16	30.30	-88.63	-190.27	875.64	140.67	80.04	60.62	2.320		
9,500.00	9,407.35	9,490.38	9,417.43	30.19	30.68	-89.31	-192.02	884.17	131.77	70.89	60.88	2.165		
9,600.00	9,507.35	9,586.98	9,513.82	30.22	31.02	-89.86	-193.28	890.34	125.36	64.28	61.09	2.052		
9,700.00	9,607.35	9,683.84	9,610.60	30.25	31.33	-90.22	-194.06	894.14	121.44	60.20	61.25	1.983 Collision Risk Procedures Req.		
9,800.00	9,707.35	9,780.83	9,707.58	30.28	31.50	-90.36	-194.35	895.53	120.01	58.74	61.27	1.959 Collision Risk Procedures Req.		
9,836.11	9,743.46	9,816.71	9,743.46	30.29	31.52	-90.36	-194.35	895.54	120.00	58.71	61.29	1.958 Collision Risk Procedures Req.		
9,900.00	9,807.35	9,880.60	9,807.35	30.31	31.54	-90.36	-194.35	895.54	120.00	58.67	61.33	1.957 Collision Risk Procedures Req.		

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



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 504H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)			
9,905.00	9,812.35	9,885.60	9,812.35	30.31	31.54	-90.36	-194.35	895.54	120.00	58.67	61.33	1.957	Collision Risk Procedures Req.
10,000.00	9,907.35	9,979.80	9,906.16	30.34	31.51	-86.88	-187.06	895.49	120.24	58.65	61.58	1.952	Collision Risk Procedures Req.
10,100.00	10,007.35	10,073.80	9,997.33	30.37	31.45	-76.43	-164.58	895.33	124.07	63.08	60.98	2.034	
10,168.69	10,076.04	10,133.16	10,052.53	30.38	31.41	-67.12	-142.82	895.18	132.74	73.89	58.85	2.255	
10,200.00	10,107.33	10,158.88	10,075.68	30.39	31.39	-74.89	-131.64	895.10	138.89	81.45	57.44	2.418	
10,250.00	10,157.08	10,200.00	10,111.60	30.41	31.37	-68.18	-111.63	894.96	150.79	95.64	55.15	2.734	
10,300.00	10,206.20	10,238.39	10,143.75	30.44	31.35	-62.76	-90.68	894.81	164.50	111.55	52.95	3.107	
10,350.00	10,254.34	10,276.84	10,174.48	30.47	31.34	-58.21	-67.58	894.65	179.34	128.22	51.12	3.508	
10,400.00	10,301.12	10,314.54	10,203.05	30.50	31.33	-54.52	-42.98	894.47	194.78	145.14	49.64	3.924	
10,450.00	10,346.18	10,350.00	10,228.38	30.54	31.32	-51.59	-18.18	894.30	210.43	162.01	48.42	4.346	
10,500.00	10,389.19	10,388.02	10,253.78	30.57	31.33	-49.12	10.10	894.10	226.00	178.44	47.56	4.752	
10,550.00	10,429.82	10,423.94	10,276.00	30.61	31.34	-47.20	38.31	893.90	241.30	194.41	46.88	5.147	
10,600.00	10,467.75	10,459.38	10,296.16	30.66	31.36	-45.67	67.46	893.70	256.15	209.77	46.38	5.523	
10,650.00	10,502.71	10,500.00	10,316.99	30.71	31.39	-44.47	102.32	893.45	270.52	224.41	46.11	5.867	
10,700.00	10,534.41	10,529.10	10,330.37	30.76	31.42	-43.57	128.16	893.27	284.09	238.31	45.78	6.206	
10,750.00	10,562.63	10,563.48	10,344.46	30.83	31.46	-42.91	159.51	893.05	297.00	251.37	45.63	6.509	
10,800.00	10,587.14	10,600.00	10,357.34	30.91	31.51	-42.48	193.68	892.81	309.16	263.57	45.59	6.781	
10,850.00	10,607.77	10,631.50	10,366.68	30.99	31.57	-42.19	223.75	892.60	320.46	274.91	45.56	7.034	
10,900.00	10,624.34	10,665.23	10,374.83	31.09	31.64	-42.09	256.48	892.37	330.93	285.32	45.61	7.256	
10,950.00	10,636.75	10,700.00	10,381.21	31.21	31.72	-42.18	290.65	892.13	340.53	294.80	45.73	7.447	
11,000.00	10,644.89	10,732.37	10,385.27	31.34	31.81	-42.35	322.76	891.90	349.24	303.37	45.88	7.613	
11,050.00	10,648.69	10,765.85	10,387.56	31.49	31.90	-42.70	356.16	891.66	357.06	310.98	46.08	7.749	
11,068.69	10,649.00	10,778.37	10,387.91	31.55	31.94	-42.86	368.67	891.58	359.75	313.59	46.16	7.794	
11,100.00	10,649.00	10,804.41	10,388.00	31.66	32.03	-43.59	394.70	891.39	364.37	318.05	46.33	7.865	
11,200.00	10,649.00	10,902.49	10,388.00	32.08	32.39	-45.91	492.78	890.70	378.22	331.23	46.99	8.049	
11,300.00	10,649.00	11,001.19	10,388.00	32.57	32.82	-47.69	591.48	890.01	389.98	342.35	47.63	8.188	
11,400.00	10,649.00	11,100.39	10,388.00	33.12	33.31	-49.03	690.68	889.31	399.41	351.15	48.26	8.276	
11,500.00	10,649.00	11,199.97	10,388.00	33.72	33.85	-49.96	790.26	888.61	406.35	357.46	48.89	8.312	
11,600.00	10,649.00	11,299.80	10,388.00	34.37	34.44	-50.52	890.09	887.90	410.68	361.18	49.50	8.296	
11,700.00	10,649.00	11,399.78	10,388.00	35.05	35.08	-50.73	990.06	887.20	412.34	362.24	50.10	8.231	
11,711.14	10,649.00	11,410.92	10,388.00	35.13	35.16	-50.73	1,001.20	887.12	412.36	362.20	50.16	8.221	
11,800.00	10,649.00	11,499.78	10,388.00	35.76	35.77	-50.73	1,090.06	886.50	412.36	361.66	50.70	8.133	
11,900.00	10,649.00	11,599.78	10,388.00	36.51	36.50	-50.73	1,190.05	885.79	412.37	360.95	51.41	8.020	
12,000.00	10,649.00	11,699.78	10,388.00	37.29	37.27	-50.73	1,290.05	885.09	412.37	360.14	52.24	7.894	
12,100.00	10,649.00	11,799.78	10,388.00	38.11	38.07	-50.74	1,390.05	884.38	412.38	359.22	53.16	7.758	
12,200.00	10,649.00	11,899.78	10,388.00	38.96	38.91	-50.74	1,490.05	883.68	412.39	358.21	54.17	7.612	
12,300.00	10,649.00	11,999.78	10,388.00	39.84	39.79	-50.74	1,590.04	882.98	412.39	357.11	55.28	7.460	
12,400.00	10,649.00	12,099.78	10,388.00	40.76	40.69	-50.74	1,690.04	882.27	412.40	355.93	56.47	7.303	
12,500.00	10,649.00	12,199.78	10,388.00	41.69	41.62	-50.74	1,790.04	881.57	412.40	354.66	57.74	7.142	
12,600.00	10,649.00	12,299.78	10,388.00	42.66	42.58	-50.74	1,890.04	880.86	412.41	353.32	59.09	6.980	
12,700.00	10,649.00	12,399.78	10,388.00	43.64	43.56	-50.74	1,990.03	880.16	412.41	351.91	60.50	6.816	
12,800.00	10,649.00	12,499.78	10,388.00	44.65	44.57	-50.74	2,090.03	879.46	412.42	350.44	61.98	6.654	
12,900.00	10,649.00	12,599.78	10,388.00	45.68	45.60	-50.74	2,190.03	878.75	412.43	348.90	63.52	6.493	
13,000.00	10,649.00	12,699.78	10,388.00	46.73	46.65	-50.74	2,290.03	878.05	412.43	347.32	65.12	6.334	
13,100.00	10,649.00	12,799.78	10,388.00	47.80	47.72	-50.74	2,390.02	877.34	412.44	345.67	66.76	6.177	
13,200.00	10,649.00	12,899.78	10,388.00	48.89	48.81	-50.74	2,490.02	876.64	412.44	343.98	68.46	6.025	
13,300.00	10,649.00	12,999.78	10,388.00	49.99	49.91	-50.74	2,590.02	875.93	412.45	342.25	70.20	5.875	
13,400.00	10,649.00	13,099.78	10,388.00	51.11	51.03	-50.74	2,690.02	875.23	412.46	340.47	71.98	5.730	
13,500.00	10,649.00	13,199.78	10,388.00	52.24	52.17	-50.74	2,790.01	874.53	412.46	338.66	73.80	5.589	
13,600.00	10,649.00	13,299.78	10,388.00	53.39	53.32	-50.75	2,890.01	873.82	412.47	336.81	75.66	5.452	
13,700.00	10,649.00	13,399.78	10,388.00	54.55	54.48	-50.75	2,990.01	873.12	412.47	334.93	77.55	5.319	
13,800.00	10,649.00	13,499.78	10,388.00	55.72	55.66	-50.75	3,090.01	872.41	412.48	333.01	79.47	5.191	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 504H - OH - Plan 1

Survey Program: 0-MWD+HDGM										Offset Site Error: 0.00 usft		
Rule Assigned:										Offset Well Error: 0.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.00	10,649.00	13,599.78	10,388.00	56.90	56.85	-50.75	3,190.00	871.71	412.49	331.07	81.41	5.066
14,000.00	10,649.00	13,699.78	10,388.00	58.10	58.05	-50.75	3,290.00	871.01	412.49	329.10	83.39	4.947
14,100.00	10,649.00	13,799.78	10,388.00	59.30	59.26	-50.75	3,390.00	870.30	412.50	327.11	85.39	4.831
14,200.00	10,649.00	13,899.78	10,388.00	60.52	60.48	-50.75	3,490.00	869.60	412.50	325.09	87.41	4.719
14,300.00	10,649.00	13,999.78	10,388.00	61.74	61.72	-50.75	3,589.99	868.89	412.51	323.05	89.46	4.611
14,400.00	10,649.00	14,099.78	10,388.00	62.98	62.95	-50.75	3,689.99	868.19	412.52	321.00	91.52	4.507
14,500.00	10,649.00	14,199.78	10,388.00	64.22	64.20	-50.75	3,789.99	867.49	412.52	318.92	93.60	4.407
14,600.00	10,649.00	14,299.78	10,388.00	65.47	65.46	-50.75	3,889.99	866.78	412.53	316.83	95.70	4.311
14,700.00	10,649.00	14,399.78	10,388.00	66.73	66.72	-50.75	3,989.98	866.08	412.53	314.71	97.82	4.217
14,800.00	10,649.00	14,499.78	10,388.00	67.99	67.99	-50.75	4,089.98	865.37	412.54	312.59	99.95	4.127
14,900.00	10,649.00	14,599.78	10,388.00	69.26	69.27	-50.75	4,189.98	864.67	412.54	310.45	102.10	4.041
15,000.00	10,649.00	14,699.78	10,388.00	70.54	70.55	-50.75	4,289.98	863.97	412.55	308.29	104.26	3.957
15,100.00	10,649.00	14,799.78	10,388.00	71.82	71.84	-50.76	4,389.97	863.26	412.56	306.13	106.43	3.876
15,200.00	10,649.00	14,899.78	10,388.00	73.11	73.14	-50.76	4,489.97	862.56	412.56	303.95	108.61	3.798
15,300.00	10,649.00	14,999.78	10,388.00	74.41	74.44	-50.76	4,589.97	861.85	412.57	301.76	110.81	3.723
15,400.00	10,649.00	15,099.78	10,388.00	75.71	75.75	-50.76	4,689.97	861.15	412.57	299.56	113.01	3.651
15,500.00	10,649.00	15,199.78	10,388.00	77.02	77.06	-50.76	4,789.97	860.44	412.58	297.35	115.23	3.580
15,600.00	10,649.00	15,299.78	10,388.00	78.33	78.37	-50.76	4,889.96	859.74	412.59	295.13	117.46	3.513
15,700.00	10,649.00	15,399.78	10,388.00	79.64	79.69	-50.76	4,989.96	859.04	412.59	292.90	119.69	3.447
15,800.00	10,649.00	15,499.78	10,388.00	80.96	81.02	-50.76	5,089.96	858.33	412.60	290.66	121.93	3.384
15,900.00	10,649.00	15,599.78	10,388.00	82.28	82.35	-50.76	5,189.96	857.63	412.60	288.42	124.18	3.323
16,000.00	10,649.00	15,699.78	10,388.00	83.61	83.68	-50.76	5,289.95	856.92	412.61	286.17	126.44	3.263
16,100.00	10,649.00	15,799.78	10,388.00	84.94	85.02	-50.76	5,389.95	856.22	412.62	283.91	128.71	3.206
16,200.00	10,649.00	15,899.78	10,388.00	86.28	86.36	-50.76	5,489.95	855.52	412.62	281.64	130.98	3.150
16,300.00	10,649.00	15,999.78	10,388.00	87.62	87.70	-50.76	5,589.95	854.81	412.63	279.37	133.26	3.096
16,400.00	10,649.00	16,099.78	10,388.00	88.96	89.05	-50.76	5,689.94	854.11	412.63	277.09	135.54	3.044
16,500.00	10,649.00	16,199.78	10,388.00	90.30	90.40	-50.76	5,789.94	853.40	412.64	274.81	137.83	2.994
16,600.00	10,649.00	16,299.78	10,388.00	91.65	91.75	-50.77	5,889.94	852.70	412.65	272.52	140.13	2.945
16,700.00	10,649.00	16,399.78	10,388.00	93.00	93.10	-50.77	5,989.94	852.00	412.65	270.22	142.43	2.897
16,800.00	10,649.00	16,499.78	10,388.00	94.36	94.46	-50.77	6,089.93	851.29	412.66	267.92	144.73	2.851
16,900.00	10,649.00	16,599.78	10,388.00	95.71	95.82	-50.77	6,189.93	850.59	412.66	265.62	147.05	2.806
17,000.00	10,649.00	16,699.78	10,388.00	97.07	97.19	-50.77	6,289.93	849.88	412.67	263.31	149.36	2.763
17,100.00	10,649.00	16,799.78	10,388.00	98.43	98.55	-50.77	6,389.93	849.18	412.67	260.99	151.68	2.721
17,200.00	10,649.00	16,899.78	10,388.00	99.80	99.92	-50.77	6,489.92	848.48	412.68	258.68	154.00	2.680
17,300.00	10,649.00	16,999.78	10,388.00	101.16	101.29	-50.77	6,589.92	847.77	412.69	256.35	156.33	2.640
17,400.00	10,649.00	17,099.78	10,388.00	102.53	102.66	-50.77	6,689.92	847.07	412.69	254.03	158.66	2.601
17,500.00	10,649.00	17,199.78	10,388.00	103.90	104.03	-50.77	6,789.92	846.36	412.70	251.70	161.00	2.563
17,600.00	10,649.00	17,299.78	10,388.00	105.27	105.41	-50.77	6,889.91	845.66	412.70	249.37	163.34	2.527
17,700.00	10,649.00	17,399.78	10,388.00	106.65	106.79	-50.77	6,989.91	844.95	412.71	247.03	165.68	2.491
17,800.00	10,649.00	17,499.78	10,388.00	108.02	108.17	-50.77	7,089.91	844.25	412.72	244.69	168.02	2.456
17,900.00	10,649.00	17,599.78	10,388.00	109.40	109.55	-50.77	7,189.91	843.55	412.72	242.35	170.37	2.422
18,000.00	10,649.00	17,699.78	10,388.00	110.78	110.93	-50.77	7,289.90	842.84	412.73	240.01	172.72	2.390
18,100.00	10,649.00	17,799.78	10,388.00	112.16	112.32	-50.78	7,389.90	842.14	412.73	237.66	175.08	2.357
18,200.00	10,649.00	17,899.78	10,388.00	113.54	113.70	-50.78	7,489.90	841.43	412.74	235.31	177.43	2.326
18,300.00	10,649.00	17,999.78	10,388.00	114.93	115.09	-50.78	7,589.90	840.73	412.75	232.95	179.79	2.296
18,400.00	10,649.00	18,099.78	10,388.00	116.31	116.48	-50.78	7,689.89	840.03	412.75	230.60	182.15	2.266
18,500.00	10,649.00	18,199.78	10,388.00	117.70	117.87	-50.78	7,789.89	839.32	412.76	228.24	184.52	2.237
18,600.00	10,649.00	18,299.78	10,388.00	119.09	119.26	-50.78	7,889.89	838.62	412.76	225.88	186.88	2.209
18,700.00	10,649.00	18,399.78	10,388.00	120.48	120.66	-50.78	7,989.89	837.91	412.77	223.52	189.25	2.181
18,800.00	10,649.00	18,499.78	10,388.00	121.87	122.05	-50.78	8,089.88	837.21	412.78	221.15	191.62	2.154
18,900.00	10,649.00	18,599.78	10,388.00	123.26	123.45	-50.78	8,189.88	836.51	412.78	218.79	194.00	2.128
19,000.00	10,649.00	18,699.78	10,388.00	124.66	124.84	-50.78	8,289.88	835.80	412.79	216.42	196.37	2.102

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 504H - OH - Plan 1

Survey Program: Reference		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	
19,100.00	10,649.00	18,799.78	10,388.00	126.05	126.24	-50.78	8,389.88	835.10	412.79	214.05	198.75	2.077		
19,200.00	10,649.00	18,899.78	10,388.00	127.45	127.64	-50.78	8,489.87	834.39	412.80	211.67	201.13	2.052		
19,300.00	10,649.00	18,999.78	10,388.00	128.85	129.04	-50.78	8,589.87	833.69	412.81	209.30	203.51	2.028		
19,400.00	10,649.00	19,099.78	10,388.00	130.25	130.44	-50.78	8,689.87	832.99	412.81	206.92	205.89	2.005		
19,500.00	10,649.00	19,199.78	10,388.00	131.65	131.84	-50.78	8,789.87	832.28	412.82	204.55	208.27	1.982	Collision Risk Procedures Req.	
19,600.00	10,649.00	19,299.78	10,388.00	133.05	133.25	-50.79	8,889.86	831.58	412.82	202.17	210.66	1.960	Collision Risk Procedures Req.	
19,700.00	10,649.00	19,399.78	10,388.00	134.45	134.65	-50.79	8,989.86	830.87	412.83	199.78	213.04	1.938	Collision Risk Procedures Req.	
19,800.00	10,649.00	19,499.78	10,388.00	135.85	136.06	-50.79	9,089.86	830.17	412.83	197.40	215.43	1.916	Collision Risk Procedures Req.	
19,900.00	10,649.00	19,599.78	10,388.00	137.25	137.46	-50.79	9,189.86	829.46	412.84	195.02	217.82	1.895	Collision Risk Procedures Req.	
20,000.00	10,649.00	19,699.78	10,388.00	138.66	138.87	-50.79	9,289.85	828.76	412.85	192.63	220.21	1.875	Collision Risk Procedures Req.	
20,100.00	10,649.00	19,799.78	10,388.00	140.06	140.28	-50.79	9,389.85	828.06	412.85	190.25	222.61	1.855	Collision Risk Procedures Req.	
20,200.00	10,649.00	19,899.78	10,388.00	141.47	141.68	-50.79	9,489.85	827.35	412.86	187.86	225.00	1.835	Collision Risk Procedures Req.	
20,300.00	10,649.00	19,999.78	10,388.00	142.88	143.09	-50.79	9,589.85	826.65	412.86	185.47	227.39	1.816	Collision Risk Procedures Req.	
20,400.00	10,649.00	20,099.78	10,388.00	144.28	144.50	-50.79	9,689.84	825.94	412.87	183.08	229.79	1.797	Collision Risk Procedures Req.	
20,500.00	10,649.00	20,199.78	10,388.00	145.69	145.91	-50.79	9,789.84	825.24	412.88	180.69	232.19	1.778	Collision Risk Procedures Req.	
20,600.00	10,649.00	20,299.78	10,388.00	147.10	147.33	-50.79	9,889.84	824.54	412.88	178.29	234.59	1.760	Collision Risk Procedures Req.	
20,700.00	10,649.00	20,399.78	10,388.00	148.51	148.74	-50.79	9,989.84	823.83	412.89	175.90	236.99	1.742	Collision Risk Procedures Req.	
20,800.00	10,649.00	20,499.78	10,388.00	149.92	150.15	-50.79	10,089.83	823.13	412.89	173.50	239.39	1.725	Collision Risk Procedures Req.	
20,900.00	10,649.00	20,599.78	10,388.00	151.33	151.56	-50.79	10,189.83	822.42	412.90	171.11	241.79	1.708	Collision Risk Procedures Req.	
20,900.19	10,649.00	20,599.97	10,388.00	151.34	151.57	-50.79	10,190.02	822.42	412.90	171.10	241.80	1.708	Collision Risk Procedures Req.	
20,944.71	10,649.00	20,644.35	10,388.00	151.90	152.19	-50.79	10,234.40	822.11	412.90	170.15	242.76	1.701	Collision Risk Procedures Req., SF	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 603H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-90.37	-0.16	-25.00	25.00				
100.00	100.00	100.00	100.00	0.79	0.79	-90.37	-0.16	-25.00	25.00	23.42	1.58	15.782	
200.00	200.00	200.00	200.00	1.45	1.45	-90.37	-0.16	-25.00	25.00	22.10	2.90	8.623	
300.00	300.00	300.00	300.00	1.89	1.89	-90.37	-0.16	-25.00	25.00	21.21	3.79	6.599	
400.00	400.00	400.00	400.00	2.26	2.26	-90.37	-0.16	-25.00	25.00	20.49	4.51	5.541	
500.00	500.00	500.00	500.00	2.57	2.57	-90.37	-0.16	-25.00	25.00	19.86	5.14	4.864	
600.00	600.00	600.00	600.00	2.85	2.85	-90.37	-0.16	-25.00	25.00	19.30	5.70	4.384	
700.00	700.00	700.00	700.00	3.11	3.11	-90.37	-0.16	-25.00	25.00	18.78	6.22	4.020	
800.00	800.00	800.00	800.00	3.35	3.35	-90.37	-0.16	-25.00	25.00	18.30	6.70	3.731	
900.00	900.00	900.00	900.00	3.58	3.58	-90.37	-0.16	-25.00	25.00	17.85	7.15	3.495	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-90.37	-0.16	-25.00	25.00	17.42	7.58	3.297	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	-90.37	-0.16	-25.00	25.00	17.01	7.99	3.128	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	-90.37	-0.16	-25.00	25.00	16.62	8.38	2.982	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	-90.37	-0.16	-25.00	25.00	16.24	8.76	2.853	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	-90.37	-0.16	-25.00	25.00	15.87	9.13	2.739	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	-90.37	-0.16	-25.00	25.00	15.52	9.48	2.637	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	-90.37	-0.16	-25.00	25.00	15.17	9.83	2.544	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	-90.37	-0.16	-25.00	25.00	14.84	10.16	2.461	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	-90.37	-0.16	-25.00	25.00	14.51	10.49	2.384	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	-90.37	-0.16	-25.00	25.00	14.19	10.81	2.313	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	-90.37	-0.16	-25.00	25.00	13.88	11.12	2.248 CC, ES, SF	
2,100.00	2,099.99	2,099.93	2,099.92	5.75	5.73	-130.62	-1.47	-25.00	25.88	14.46	11.42	2.267	
2,200.00	2,199.91	2,199.49	2,199.40	5.94	5.88	-143.96	-5.37	-25.00	29.63	17.91	11.71	2.529	
2,300.00	2,299.69	2,298.32	2,298.02	6.15	5.99	-158.81	-11.75	-25.03	38.36	26.34	12.02	3.191	
2,400.00	2,399.27	2,396.51	2,395.98	6.38	6.17	-167.43	-18.34	-26.61	52.54	40.11	12.43	4.226	
2,500.00	2,498.74	2,494.40	2,493.62	6.60	6.34	175.86	-23.95	-30.50	69.55	56.76	12.80	5.436	
2,600.00	2,598.20	2,592.84	2,591.80	6.82	6.62	162.76	-29.12	-35.58	87.03	73.72	13.31	6.538	
2,700.00	2,697.57	2,691.21	2,689.90	7.06	6.82	152.47	-34.29	-40.65	104.58	90.85	13.73	7.617	
2,800.00	2,796.81	2,789.45	2,787.87	7.28	7.02	145.11	-39.45	-45.71	122.41	108.27	14.14	8.655	
2,900.00	2,895.82	2,887.48	2,885.63	7.51	7.23	140.26	-44.60	-50.76	140.77	126.21	14.56	9.667	
3,000.00	2,994.55	2,985.23	2,983.13	7.74	7.45	137.34	-49.74	-55.80	159.89	144.91	14.99	10.670	
3,072.23	3,065.65	3,055.64	3,053.34	7.90	7.62	136.12	-53.44	-59.43	174.32	159.05	15.27	11.414	
3,100.00	3,092.95	3,082.67	3,080.30	7.95	7.69	137.06	-54.86	-60.82	180.00	164.63	15.37	11.708	
3,200.00	3,191.24	3,180.01	3,177.37	8.21	7.93	140.01	-59.97	-65.84	200.81	184.98	15.83	12.687	
3,300.00	3,289.54	3,277.34	3,274.44	8.49	8.19	142.41	-65.08	-70.86	222.04	205.74	16.30	13.622	
3,400.00	3,387.83	3,374.68	3,371.51	8.78	8.45	144.38	-70.20	-75.87	243.57	226.78	16.79	14.505	
3,500.00	3,486.13	3,472.02	3,468.59	9.09	8.72	146.04	-75.31	-80.89	265.33	248.03	17.30	15.335	
3,600.00	3,584.42	3,569.35	3,565.66	9.42	8.99	147.45	-80.43	-85.91	287.28	269.45	17.83	16.112	
3,700.00	3,682.72	3,666.69	3,662.73	9.75	9.27	148.65	-85.54	-90.92	309.37	291.00	18.37	16.840	
3,800.00	3,781.02	3,764.03	3,759.81	10.09	9.56	149.70	-90.65	-95.94	331.57	312.64	18.93	17.519	
3,900.00	3,879.31	3,861.36	3,856.88	10.45	9.85	150.61	-95.77	-100.96	353.86	334.37	19.49	18.154	
4,000.00	3,977.61	3,958.70	3,953.95	10.81	10.15	151.42	-100.88	-105.97	376.23	356.16	20.07	18.746	
4,100.00	4,075.90	4,056.04	4,051.03	11.18	10.45	152.14	-105.99	-110.99	398.66	378.01	20.66	19.298	
4,200.00	4,174.20	4,153.38	4,148.10	11.55	10.76	152.78	-111.11	-116.01	421.15	399.89	21.25	19.814	
4,300.00	4,272.49	4,250.71	4,245.17	11.94	11.07	153.35	-116.22	-121.02	443.68	421.82	21.86	20.297	
4,400.00	4,370.79	4,348.05	4,342.25	12.32	11.38	153.87	-121.34	-126.04	466.25	443.77	22.47	20.748	
4,500.00	4,469.09	4,445.39	4,439.32	12.72	11.69	154.34	-126.45	-131.06	488.85	465.76	23.09	21.170	
4,600.00	4,567.38	4,542.72	4,536.39	13.11	12.01	154.77	-131.56	-136.07	511.48	487.76	23.72	21.565	
4,700.00	4,665.68	4,640.06	4,633.47	13.52	12.33	155.16	-136.68	-141.09	534.13	509.78	24.35	21.936	
4,800.00	4,763.97	4,737.40	4,730.54	13.92	12.65	155.53	-141.79	-146.11	556.81	531.82	24.99	22.284	
4,900.00	4,862.27	4,834.74	4,827.61	14.33	12.98	155.86	-146.90	-151.12	579.51	553.88	25.63	22.611	
5,000.00	4,960.56	4,932.07	4,924.68	14.74	13.30	156.17	-152.02	-156.14	602.22	575.95	26.28	22.919	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 603H - OH - Plan 1

Survey Program: 0-MWD+HDGM										Offset Site Error: 0.00 usft	
Reference: 0-MWD+HDGM										Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Warning
5,100.00	5,058.86	5,029.41	5,021.76	15.16	13.63	156.45	-157.13	-161.16	624.95	598.02	23.209
5,200.00	5,157.15	5,126.75	5,118.83	15.57	13.96	156.72	-162.25	-166.17	647.69	620.11	23.482
5,300.00	5,255.45	5,224.08	5,215.90	15.99	14.29	156.97	-167.36	-171.19	670.45	642.21	23.740
5,400.00	5,353.75	5,321.42	5,312.98	16.42	14.63	157.20	-172.47	-176.21	693.21	664.31	23.984
5,500.00	5,452.04	5,418.76	5,410.05	16.84	14.96	157.41	-177.59	-181.23	715.99	686.42	24.214
5,600.00	5,550.34	5,516.09	5,507.12	17.27	15.30	157.62	-182.70	-186.24	738.78	708.54	24.433
5,700.00	5,648.63	5,613.43	5,604.20	17.70	15.64	157.81	-187.81	-191.26	761.57	730.66	24.639
5,800.00	5,746.93	5,710.77	5,701.27	18.13	15.97	157.99	-192.93	-196.28	784.37	752.79	24.839
5,900.00	5,845.22	5,824.03	5,814.30	18.56	16.34	158.24	-198.03	-201.28	806.39	774.07	24.947
6,000.00	5,943.52	5,941.76	5,931.97	18.99	16.65	158.64	-200.82	-204.02	826.11	793.07	25.008
6,100.00	6,041.81	6,051.62	6,041.81	19.43	16.79	159.12	-201.25	-204.44	843.69	810.12	25.135
6,200.00	6,140.11	6,149.91	6,140.11	19.86	16.83	159.55	-201.25	-204.44	860.93	826.93	25.321
6,300.00	6,238.41	6,248.21	6,238.41	20.30	16.87	159.97	-201.25	-204.44	878.21	843.77	25.499
6,400.00	6,336.70	6,346.50	6,336.70	20.74	16.91	160.37	-201.25	-204.44	895.54	860.65	25.670
6,500.00	6,435.00	6,444.80	6,435.00	21.18	16.95	160.76	-201.25	-204.44	912.91	877.58	25.837
6,600.00	6,533.29	6,543.09	6,533.29	21.62	16.99	161.13	-201.25	-204.44	930.32	894.53	25.998
6,700.00	6,631.59	6,641.39	6,631.59	22.06	17.03	161.49	-201.25	-204.44	947.76	911.53	26.154
6,800.00	6,729.88	6,739.69	6,729.88	22.50	17.07	161.84	-201.25	-204.44	965.24	928.55	26.306
6,900.00	6,828.18	6,837.98	6,828.18	22.95	17.12	162.17	-201.25	-204.44	982.76	945.60	26.452



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 703H - OH - Plan 1

Survey Program: Reference		0-MWD+HDGM Offset							Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	89.63	0.16	24.99	24.99					
100.00	100.00	100.00	100.00	0.79	0.79	89.63	0.16	24.99	24.99	23.41	1.58	15.775		
200.00	200.00	200.00	200.00	1.45	1.45	89.63	0.16	24.99	24.99	22.09	2.90	8.620		
300.00	300.00	300.00	300.00	1.89	1.89	89.63	0.16	24.99	24.99	21.20	3.79	6.596		
400.00	400.00	400.00	400.00	2.26	2.26	89.63	0.16	24.99	24.99	20.48	4.51	5.539		
500.00	500.00	500.00	500.00	2.57	2.57	89.63	0.16	24.99	24.99	19.85	5.14	4.863		
600.00	600.00	600.00	600.00	2.85	2.85	89.63	0.16	24.99	24.99	19.29	5.70	4.382		
700.00	700.00	700.00	700.00	3.11	3.11	89.63	0.16	24.99	24.99	18.77	6.22	4.018		
800.00	800.00	800.00	800.00	3.35	3.35	89.63	0.16	24.99	24.99	18.29	6.70	3.729		
900.00	900.00	900.00	900.00	3.58	3.58	89.63	0.16	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	89.63	0.16	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	89.63	0.16	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	89.63	0.16	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	89.63	0.16	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	89.63	0.16	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	89.63	0.16	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	89.63	0.16	24.99	24.99	15.16	9.83	2.543		
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.63	0.16	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	89.63	0.16	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	89.63	0.16	24.99	24.99	14.18	10.81	2.312		
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.63	0.16	24.99	24.99	13.87	11.12	2.247		
2,100.00	2,099.99	2,099.99	2,099.99	5.75	5.71	57.16	0.16	24.99	24.26	12.82	11.43	2.121		
2,200.00	2,199.91	2,199.91	2,199.91	5.94	5.86	65.66	0.16	24.99	22.37	10.64	11.73	1.907	Collision Risk Procedures Req.	
2,300.00	2,299.69	2,299.69	2,299.69	6.15	6.01	82.50	0.16	24.99	20.56	8.54	12.01	1.711	Collision Risk Procedures Req.	
2,334.00	2,333.57	2,333.60	2,333.60	6.23	6.06	90.78	0.06	24.89	20.36	8.25	12.11	1.681	Collision Risk Procedures Req., CC	
2,400.00	2,399.27	2,399.17	2,399.16	6.38	6.17	110.85	-0.75	24.08	21.59	9.27	12.31	1.753	Collision Risk Procedures Req.	
2,500.00	2,498.74	2,497.88	2,497.80	6.60	6.31	125.19	-3.46	21.37	28.33	15.58	12.75	2.222		
2,600.00	2,598.20	2,595.80	2,595.51	6.82	6.47	131.38	-7.93	16.90	39.92	26.71	13.21	3.023		
2,700.00	2,697.57	2,693.46	2,692.79	7.06	6.57	133.13	-13.65	10.57	55.37	41.81	13.56	4.082		
2,800.00	2,796.81	2,790.60	2,789.43	7.28	6.74	134.48	-18.60	2.02	73.25	59.28	13.96	5.245		
2,900.00	2,895.82	2,886.48	2,884.62	7.51	6.94	136.18	-22.58	-8.65	94.14	79.78	14.36	6.556		
3,000.00	2,994.55	2,981.93	2,979.22	7.74	7.13	137.97	-25.84	-20.99	118.33	103.58	14.75	8.021		
3,072.23	3,065.65	3,050.85	3,047.51	7.90	7.29	138.97	-28.16	-29.99	137.28	122.23	15.05	9.122		
3,100.00	3,092.95	3,077.29	3,073.70	7.95	7.35	140.58	-29.05	-33.44	144.84	129.69	15.16	9.556		
3,200.00	3,191.24	3,172.50	3,168.04	8.21	7.59	145.22	-32.25	-45.88	172.79	157.15	15.64	11.048		
3,300.00	3,289.54	3,267.71	3,262.39	8.49	7.84	148.57	-35.45	-58.31	201.50	185.34	16.15	12.474		
3,400.00	3,387.83	3,362.92	3,356.73	8.78	8.11	151.09	-38.65	-70.74	230.68	213.99	16.70	13.816		
3,500.00	3,486.13	3,458.14	3,451.07	9.09	8.38	153.04	-41.85	-83.17	260.19	242.92	17.27	15.069		
3,600.00	3,584.42	3,553.35	3,545.41	9.42	8.67	154.60	-45.06	-95.61	289.92	272.06	17.86	16.234		
3,700.00	3,682.72	3,648.56	3,639.76	9.75	8.97	155.86	-48.26	-108.04	319.80	301.33	18.47	17.312		
3,800.00	3,781.02	3,743.77	3,734.10	10.09	9.28	156.91	-51.46	-120.47	349.81	330.71	19.10	18.310		
3,900.00	3,879.31	3,838.98	3,828.44	10.45	9.59	157.80	-54.66	-132.90	379.91	360.15	19.75	19.232		
4,000.00	3,977.61	3,934.20	3,922.78	10.81	9.91	158.55	-57.87	-145.34	410.07	389.65	20.42	20.085		
4,100.00	4,075.90	4,029.41	4,017.13	11.18	10.24	159.21	-61.07	-157.77	440.29	419.20	21.09	20.873		
4,200.00	4,174.20	4,124.62	4,111.47	11.55	10.57	159.77	-64.27	-170.20	470.56	448.78	21.78	21.602		
4,300.00	4,272.49	4,219.83	4,205.81	11.94	10.91	160.27	-67.47	-182.63	500.87	478.38	22.48	22.277		
4,400.00	4,370.79	4,315.04	4,300.15	12.32	11.25	160.72	-70.68	-195.07	531.20	508.01	23.19	22.903		
4,500.00	4,469.09	4,410.26	4,394.50	12.72	11.60	161.11	-73.88	-207.50	561.56	537.65	23.91	23.484		
4,600.00	4,567.38	4,505.47	4,488.84	13.11	11.95	161.47	-77.08	-219.93	591.95	567.31	24.64	24.024		
4,700.00	4,665.68	4,600.68	4,583.18	13.52	12.31	161.79	-80.28	-232.36	622.35	596.97	25.37	24.527		
4,800.00	4,763.97	4,695.89	4,677.52	13.92	12.67	162.08	-83.48	-244.80	652.76	626.65	26.12	24.995		
4,900.00	4,862.27	4,791.10	4,771.87	14.33	13.03	162.34	-86.69	-257.23	683.20	656.33	26.86	25.432		

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 703H - OH - Plan 1

Survey Program: 0-MWD+HDGM													Offset Site Error: 0.00 usft
Reference													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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,960.56	4,886.32	4,866.21	14.74	13.39	162.58	-89.89	-269.66	713.64	686.02	27.62	25.840	
5,100.00	5,058.86	4,981.53	4,960.55	15.16	13.76	162.80	-93.09	-282.09	744.09	715.72	28.38	26.222	
5,200.00	5,157.15	5,076.74	5,054.89	15.57	14.13	163.01	-96.29	-294.53	774.56	745.41	29.14	26.580	
5,300.00	5,255.45	5,171.95	5,149.24	15.99	14.50	163.20	-99.50	-306.96	805.03	775.12	29.91	26.915	
5,400.00	5,353.75	5,267.16	5,243.58	16.42	14.87	163.37	-102.70	-319.39	835.51	804.82	30.68	27.231	
5,500.00	5,452.04	5,362.38	5,337.92	16.84	15.25	163.54	-105.90	-331.82	865.99	834.53	31.46	27.527	
5,600.00	5,550.34	5,457.59	5,432.26	17.27	15.63	163.69	-109.10	-344.26	896.48	864.24	32.24	27.807	
5,700.00	5,648.63	5,552.80	5,526.61	17.70	16.01	163.83	-112.30	-356.69	926.98	893.96	33.02	28.070	
5,800.00	5,746.93	5,648.01	5,620.95	18.13	16.39	163.96	-115.51	-369.12	957.48	923.67	33.81	28.319	
5,900.00	5,845.22	5,743.22	5,715.29	18.56	16.77	164.09	-118.71	-381.55	987.99	953.39	34.60	28.555	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 704H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	89.64	0.31	49.99	49.99				
100.00	100.00	100.00	100.00	0.79	0.79	89.64	0.31	49.99	49.99	48.41	1.58	31.557	
200.00	200.00	200.00	200.00	1.45	1.45	89.64	0.31	49.99	49.99	47.09	2.90	17.243	
300.00	300.00	300.00	300.00	1.89	1.89	89.64	0.31	49.99	49.99	46.20	3.79	13.194	
400.00	400.00	400.00	400.00	2.26	2.26	89.64	0.31	49.99	49.99	45.48	4.51	11.080	
500.00	500.00	500.00	500.00	2.57	2.57	89.64	0.31	49.99	49.99	44.85	5.14	9.727	
600.00	600.00	600.00	600.00	2.85	2.85	89.64	0.31	49.99	49.99	44.29	5.70	8.766	
700.00	700.00	700.00	700.00	3.11	3.11	89.64	0.31	49.99	49.99	43.77	6.22	8.037	
800.00	800.00	800.00	800.00	3.35	3.35	89.64	0.31	49.99	49.99	43.29	6.70	7.460	
900.00	900.00	900.00	900.00	3.58	3.58	89.64	0.31	49.99	49.99	42.84	7.15	6.989	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.64	0.31	49.99	49.99	42.41	7.58	6.593	
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.64	0.31	49.99	49.99	42.00	7.99	6.255	
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.64	0.31	49.99	49.99	41.61	8.38	5.962	
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.64	0.31	49.99	49.99	41.23	8.76	5.705	
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.64	0.31	49.99	49.99	40.86	9.13	5.477	
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.64	0.31	49.99	49.99	40.51	9.48	5.272	
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.64	0.31	49.99	49.99	40.17	9.83	5.088	
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.64	0.31	49.99	49.99	39.83	10.16	4.920	
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.64	0.31	49.99	49.99	39.50	10.49	4.767	
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.64	0.31	49.99	49.99	39.18	10.81	4.626	
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.64	0.31	49.99	49.99	38.87	11.12	4.496	
2,100.00	2,099.99	2,099.99	2,099.99	5.75	5.71	55.90	0.31	49.99	49.25	37.81	11.43	4.307	
2,200.00	2,199.91	2,199.91	2,199.91	5.94	5.86	59.87	0.31	49.99	47.16	35.42	11.74	4.017	
2,300.00	2,299.69	2,299.69	2,299.69	6.15	6.01	67.25	0.31	49.99	44.23	32.20	12.03	3.676	
2,400.00	2,399.27	2,398.36	2,398.35	6.38	6.18	77.88	0.53	51.24	42.62	30.30	12.32	3.460 CC	
2,404.45	2,403.70	2,402.75	2,402.74	6.39	6.18	77.78	0.55	51.35	42.62	30.29	12.33	3.456	
2,500.00	2,498.74	2,497.20	2,497.11	6.60	6.34	73.49	1.19	55.00	43.14	30.53	12.62	3.420	
2,600.00	2,598.20	2,596.29	2,595.99	6.82	6.53	65.98	2.30	61.30	43.98	31.06	12.92	3.404	
2,700.00	2,697.57	2,695.54	2,694.83	7.06	6.73	57.10	3.86	70.14	44.28	31.06	13.22	3.350	
2,800.00	2,796.81	2,794.41	2,793.08	7.28	6.92	48.93	4.83	81.13	44.09	30.58	13.50	3.265	
2,900.00	2,895.82	2,893.26	2,891.10	7.51	7.13	42.83	3.97	93.90	43.91	30.11	13.79	3.183	
3,000.00	2,994.55	2,992.12	2,988.84	7.74	7.36	38.39	1.30	108.45	43.74	29.63	14.10	3.101	
3,072.23	3,065.65	3,063.53	3,059.24	7.90	7.54	35.96	-1.77	120.06	43.61	29.29	14.32	3.045	
3,078.87	3,072.18	3,070.09	3,065.70	7.91	7.56	36.05	-2.10	121.18	43.61	29.27	14.34	3.041 ES	
3,100.00	3,092.95	3,090.99	3,086.25	7.95	7.61	36.35	-3.20	124.77	43.67	29.27	14.39	3.034	
3,200.00	3,191.24	3,189.82	3,183.20	8.21	7.88	37.56	-9.51	142.84	45.52	30.75	14.76	3.083	
3,300.00	3,289.54	3,289.06	3,280.14	8.49	8.12	38.36	-17.48	162.55	49.70	34.57	15.12	3.286	
3,400.00	3,387.83	3,388.96	3,377.64	8.78	8.41	38.99	-25.78	182.67	54.28	38.69	15.59	3.482	
3,500.00	3,486.13	3,488.85	3,475.13	9.09	8.72	39.52	-34.09	202.78	58.87	42.79	16.08	3.660	
3,600.00	3,584.42	3,588.74	3,572.63	9.42	9.05	39.98	-42.39	222.90	63.46	46.86	16.60	3.822	
3,700.00	3,682.72	3,688.64	3,670.12	9.75	9.39	40.37	-50.69	243.01	68.06	50.91	17.15	3.969	
3,800.00	3,781.02	3,788.53	3,767.62	10.09	9.74	40.71	-59.00	263.12	72.66	54.95	17.71	4.103	
3,900.00	3,879.31	3,888.42	3,865.11	10.45	10.10	41.02	-67.30	283.24	77.26	58.97	18.29	4.223	
4,000.00	3,977.61	3,988.32	3,962.61	10.81	10.47	41.29	-75.60	303.35	81.86	62.97	18.89	4.333	
4,100.00	4,075.90	4,088.21	4,060.10	11.18	10.85	41.52	-83.91	323.46	86.47	66.96	19.51	4.432	
4,200.00	4,174.20	4,188.10	4,157.59	11.55	11.24	41.74	-92.21	343.58	91.07	70.93	20.14	4.522	
4,300.00	4,272.49	4,288.00	4,255.09	11.94	11.63	41.94	-100.52	363.69	95.68	74.90	20.78	4.604	
4,400.00	4,370.79	4,387.89	4,352.58	12.32	12.03	42.11	-108.82	383.80	100.29	78.85	21.44	4.679	
4,500.00	4,469.09	4,487.78	4,450.08	12.72	12.44	42.27	-117.12	403.92	104.90	82.80	22.10	4.746	
4,600.00	4,567.38	4,587.68	4,547.57	13.11	12.85	42.42	-125.43	424.03	109.51	86.73	22.78	4.808	
4,700.00	4,665.68	4,687.57	4,645.07	13.52	13.27	42.56	-133.73	444.14	114.12	90.66	23.46	4.864	
4,800.00	4,763.97	4,787.46	4,742.56	13.92	13.69	42.68	-142.03	464.26	118.73	94.58	24.15	4.916	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 704H - OH - Plan 1

Survey Program: 0-MWD+HDGM												Offset Site Error:	
Reference Offset												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		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
4,900.00	4,862.27	4,887.36	4,840.06	14.33	14.11	42.80	-150.34	484.37	123.34	98.49	24.85	4.963	
5,000.00	4,960.56	4,987.25	4,937.55	14.74	14.54	42.91	-158.64	504.49	127.95	102.39	25.56	5.006	
5,100.00	5,058.86	5,089.16	5,037.15	15.16	14.97	43.17	-166.87	524.41	132.04	105.77	26.26	5.027	
5,200.00	5,157.15	5,192.06	5,138.24	15.57	15.41	44.06	-174.19	542.15	134.04	107.14	26.89	4.984	
5,300.00	5,255.45	5,294.91	5,239.76	15.99	15.85	45.63	-180.47	557.36	133.90	106.51	27.39	4.888	
5,400.00	5,353.75	5,397.56	5,341.50	16.42	16.27	47.94	-185.69	570.01	131.77	104.04	27.74	4.751	
5,500.00	5,452.04	5,499.87	5,443.22	16.84	16.67	51.13	-189.86	580.10	127.86	99.97	27.89	4.584	
5,600.00	5,550.34	5,601.69	5,544.71	17.27	17.04	55.42	-192.97	587.65	122.51	94.68	27.83	4.403	
5,700.00	5,648.63	5,702.88	5,645.75	17.70	17.38	61.07	-195.04	592.66	116.23	88.71	27.52	4.223	
5,800.00	5,746.93	5,803.31	5,746.14	18.13	17.67	68.42	-196.09	595.19	109.81	82.78	27.03	4.062	
5,900.00	5,845.22	5,902.40	5,845.22	18.56	17.75	77.58	-196.23	595.54	104.51	77.96	26.56	3.936	
6,000.00	5,943.52	6,000.69	5,943.52	18.99	17.80	87.54	-196.23	595.54	102.08	75.43	26.65	3.831	
6,024.29	5,967.39	6,024.57	5,967.39	19.10	17.81	90.00	-196.23	595.54	101.98	75.20	26.78	3.808	
6,100.00	6,041.81	6,098.99	6,041.81	19.43	17.84	97.64	-196.23	595.54	102.93	75.45	27.48	3.746	
6,200.00	6,140.11	6,197.28	6,140.11	19.86	17.89	107.29	-196.23	595.54	106.98	78.05	28.93	3.698	
6,300.00	6,238.41	6,295.58	6,238.41	20.30	17.93	116.04	-196.23	595.54	113.88	83.21	30.67	3.713	
6,400.00	6,336.70	6,393.87	6,336.70	20.74	17.98	123.65	-196.23	595.54	123.17	90.73	32.44	3.797	
6,500.00	6,435.00	6,492.17	6,435.00	21.18	18.03	130.13	-196.23	595.54	134.35	100.29	34.05	3.945	
6,600.00	6,533.29	6,590.47	6,533.29	21.62	18.07	135.57	-196.23	595.54	146.98	111.50	35.48	4.143	
6,700.00	6,631.59	6,688.76	6,631.59	22.06	18.12	140.13	-196.23	595.54	160.72	124.00	36.72	4.377	
6,800.00	6,729.88	6,787.06	6,729.88	22.50	18.17	143.96	-196.23	595.54	175.32	137.51	37.81	4.637	
6,900.00	6,828.18	6,885.35	6,828.18	22.95	18.22	147.20	-196.23	595.54	190.57	151.81	38.77	4.916	
7,000.00	6,926.47	6,983.65	6,926.47	23.39	18.26	149.96	-196.23	595.54	206.34	166.71	39.63	5.206	
7,100.00	7,024.77	7,081.94	7,024.77	23.83	18.31	152.32	-196.23	595.54	222.51	182.08	40.43	5.504	
7,200.00	7,123.07	7,180.24	7,123.07	24.28	18.36	154.36	-196.23	595.54	239.00	197.83	41.16	5.806	
7,300.00	7,221.36	7,278.53	7,221.36	24.73	18.41	156.14	-196.23	595.54	255.74	213.89	41.85	6.111	
7,400.00	7,319.66	7,376.83	7,319.66	25.17	18.46	157.70	-196.23	595.54	272.70	230.19	42.51	6.415	
7,500.00	7,417.95	7,475.13	7,417.95	25.62	18.51	159.07	-196.23	595.54	289.83	246.69	43.14	6.718	
7,600.00	7,516.25	7,573.42	7,516.25	26.07	18.56	160.29	-196.23	595.54	307.11	263.36	43.75	7.020	
7,700.00	7,614.54	7,671.72	7,614.54	26.52	18.61	161.39	-196.23	595.54	324.51	280.17	44.34	7.318	
7,800.00	7,712.84	7,770.01	7,712.84	26.97	18.66	162.37	-196.23	595.54	342.01	297.09	44.92	7.614	
7,886.41	7,797.78	7,854.95	7,797.78	27.35	18.70	163.14	-196.23	595.54	357.20	311.79	45.41	7.867	
7,900.00	7,811.14	7,868.31	7,811.14	27.41	18.71	163.26	-196.23	595.54	359.58	314.09	45.48	7.906	
8,000.00	7,909.72	7,966.90	7,909.72	27.87	18.76	164.07	-196.23	595.54	375.66	329.62	46.04	8.159	
8,100.00	8,008.71	8,065.89	8,008.71	28.30	18.81	164.69	-196.23	595.54	389.31	342.75	46.56	8.361	
8,200.00	8,108.04	8,165.21	8,108.04	28.71	18.86	165.17	-196.23	595.54	400.48	353.43	47.05	8.511	
8,300.00	8,207.64	8,264.81	8,207.64	29.10	18.91	165.53	-196.23	595.54	409.15	361.64	47.51	8.612	
8,400.00	8,307.43	8,364.60	8,307.43	29.46	18.96	165.77	-196.23	595.54	415.30	367.37	47.93	8.664	
8,500.00	8,407.36	8,464.53	8,407.36	29.78	19.01	165.91	-196.23	595.54	418.92	370.61	48.30	8.672	
8,592.65	8,500.00	8,557.17	8,500.00	29.92	19.06	-90.36	-196.23	595.54	420.01	371.51	48.50	8.661	
8,600.00	8,507.35	8,564.52	8,507.35	29.92	19.06	-90.36	-196.23	595.54	420.01	371.51	48.50	8.660	
8,700.00	8,607.35	8,664.52	8,607.35	29.97	19.12	-90.36	-196.23	595.54	420.01	371.40	48.60	8.641	
8,800.00	8,707.35	8,764.52	8,707.35	30.00	19.17	-90.36	-196.23	595.54	420.01	371.32	48.68	8.627	
8,900.00	8,807.35	8,864.52	8,807.35	30.02	19.22	-90.36	-196.23	595.54	420.01	371.24	48.77	8.613	
9,000.00	8,907.35	8,964.52	8,907.35	30.05	19.28	-90.36	-196.23	595.54	420.01	371.16	48.85	8.598	
9,100.00	9,007.35	9,064.52	9,007.35	30.08	19.33	-90.36	-196.23	595.54	420.01	371.08	48.93	8.584	
9,200.00	9,107.35	9,164.52	9,107.35	30.11	19.38	-90.36	-196.23	595.54	420.01	371.00	49.01	8.570	
9,300.00	9,207.35	9,264.52	9,207.35	30.14	19.44	-90.36	-196.23	595.54	420.01	370.92	49.09	8.555	
9,400.00	9,307.35	9,364.52	9,307.35	30.16	19.49	-90.36	-196.23	595.54	420.01	370.83	49.18	8.541	
9,500.00	9,407.35	9,464.52	9,407.35	30.19	19.54	-90.36	-196.23	595.54	420.01	370.75	49.26	8.526	
9,600.00	9,507.35	9,564.52	9,507.35	30.22	19.60	-90.36	-196.23	595.54	420.01	370.67	49.34	8.512	
9,700.00	9,607.35	9,664.52	9,607.35	30.25	19.65	-90.36	-196.23	595.54	420.01	370.58	49.43	8.497	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 704H - OH - Plan 1

Survey Program: 0-MWD+HDGM											Offset Site Error: 0.00 usft		
Rule Assigned: Distance											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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.00	9,707.35	9,764.52	9,707.35	30.28	19.71	-90.36	-196.23	595.54	420.01	370.50	49.51	8.483	
9,900.00	9,807.35	9,864.52	9,807.35	30.31	19.76	-90.36	-196.23	595.54	420.01	370.41	49.60	8.468	
10,000.00	9,907.35	9,964.52	9,907.35	30.34	19.82	-90.36	-196.23	595.54	420.01	370.33	49.68	8.454	
10,100.00	10,007.35	10,064.52	10,007.35	30.37	19.87	-90.36	-196.23	595.54	420.01	370.24	49.77	8.439	
10,168.69	10,076.04	10,133.21	10,076.04	30.38	19.91	-90.36	-196.23	595.54	420.01	370.19	49.82	8.431	
10,200.00	10,107.33	10,164.51	10,107.33	30.39	19.93	-102.90	-196.23	595.54	420.20	370.36	49.84	8.430	
10,250.00	10,157.08	10,214.25	10,157.08	30.41	19.95	-103.44	-196.23	595.54	421.32	371.46	49.87	8.449	
10,300.00	10,206.20	10,263.38	10,206.20	30.44	19.98	-104.41	-196.23	595.54	423.58	373.73	49.85	8.497	
10,350.00	10,254.34	10,311.51	10,254.34	30.47	20.01	-105.75	-196.23	595.54	427.22	377.44	49.78	8.582	
10,400.00	10,301.12	10,358.29	10,301.12	30.50	20.03	-107.35	-196.23	595.54	432.56	382.91	49.65	8.713	
10,450.00	10,346.18	10,403.36	10,346.18	30.54	20.06	-109.10	-196.23	595.54	439.99	390.55	49.44	8.899	
10,500.00	10,389.19	10,446.37	10,389.19	30.57	20.08	-110.85	-196.23	595.54	449.92	400.77	49.15	9.153	
10,550.00	10,429.82	10,486.99	10,429.82	30.61	20.11	-112.47	-196.23	595.54	462.74	413.96	48.78	9.487	
10,600.00	10,467.75	10,528.74	10,471.57	30.66	20.12	-114.12	-196.05	595.54	478.71	430.35	48.36	9.898	
10,650.00	10,502.71	10,581.42	10,524.10	30.71	20.10	-116.28	-192.29	595.51	497.21	449.08	48.13	10.331	
10,700.00	10,534.41	10,638.92	10,580.77	30.76	20.07	-118.34	-182.71	595.44	517.61	469.58	48.03	10.777	
10,750.00	10,562.63	10,702.52	10,641.98	30.83	20.03	-120.33	-165.56	595.32	539.44	491.34	48.10	11.214	
10,800.00	10,587.14	10,773.88	10,707.91	30.91	19.98	-122.22	-138.39	595.13	562.17	513.77	48.40	11.614	
10,850.00	10,607.77	10,855.06	10,778.13	30.99	19.93	-124.00	-97.81	594.85	585.16	536.17	48.98	11.946	
10,900.00	10,624.34	10,948.44	10,850.88	31.09	19.90	-125.54	-39.42	594.44	607.62	557.72	49.90	12.178	
10,950.00	10,636.75	11,056.29	10,921.79	31.21	19.93	-126.64	41.63	593.87	628.64	577.47	51.17	12.285	
11,000.00	10,644.89	11,179.69	10,982.67	31.34	20.09	-127.01	148.69	593.11	647.17	594.39	52.78	12.261	
11,050.00	10,648.69	11,289.18	11,016.05	31.49	20.36	-126.28	252.76	592.38	662.14	607.98	54.16	12.226	
11,068.69	10,649.00	11,370.48	11,028.33	31.55	20.65	-125.73	333.02	591.82	666.67	611.46	55.22	12.074	
11,100.00	10,649.00	11,430.10	11,030.00	31.66	20.91	-125.12	392.59	591.40	672.58	616.70	55.89	12.034	
11,200.00	10,649.00	11,528.18	11,030.00	32.08	21.42	-124.01	490.67	590.71	688.72	631.72	57.00	12.083	
11,300.00	10,649.00	11,626.88	11,030.00	32.57	22.01	-123.13	589.37	590.01	702.13	643.93	58.20	12.063	
11,400.00	10,649.00	11,726.08	11,030.00	33.12	22.67	-122.47	688.57	589.31	712.73	653.23	59.50	11.980	
11,500.00	10,649.00	11,825.66	11,030.00	33.72	23.39	-122.00	788.15	588.61	720.44	659.57	60.88	11.835	
11,600.00	10,649.00	11,925.49	11,030.00	34.37	24.18	-121.71	887.98	587.91	725.23	662.89	62.34	11.633	
11,700.00	10,649.00	12,025.47	11,030.00	35.05	25.02	-121.60	987.95	587.21	727.05	663.17	63.88	11.381	
11,711.14	10,649.00	12,036.61	11,030.00	35.13	25.12	-121.60	999.09	587.13	727.07	663.01	64.06	11.350	
11,800.00	10,649.00	12,125.47	11,030.00	35.76	25.92	-121.60	1,087.95	586.50	727.07	661.59	65.48	11.103	
11,900.00	10,649.00	12,225.47	11,030.00	36.51	26.86	-121.60	1,187.94	585.80	727.08	659.93	67.15	10.828	
12,000.00	10,649.00	12,325.47	11,030.00	37.29	27.84	-121.60	1,287.94	585.10	727.09	658.21	68.88	10.557	
12,100.00	10,649.00	12,425.47	11,030.00	38.11	28.86	-121.60	1,387.94	584.39	727.09	656.44	70.65	10.291	
12,200.00	10,649.00	12,525.47	11,030.00	38.96	29.91	-121.60	1,487.94	583.69	727.10	654.62	72.48	10.031	
12,300.00	10,649.00	12,625.47	11,030.00	39.84	30.99	-121.60	1,587.93	582.99	727.10	652.75	74.36	9.779	
12,400.00	10,649.00	12,725.47	11,030.00	40.76	32.10	-121.60	1,687.93	582.28	727.11	650.84	76.27	9.533	
12,500.00	10,649.00	12,825.47	11,030.00	41.69	33.24	-121.60	1,787.93	581.58	727.12	648.89	78.23	9.295	
12,600.00	10,649.00	12,925.47	11,030.00	42.66	34.39	-121.60	1,887.93	580.87	727.12	646.90	80.22	9.064	
12,700.00	10,649.00	13,025.47	11,030.00	43.64	35.57	-121.60	1,987.92	580.17	727.13	644.88	82.25	8.841	
12,800.00	10,649.00	13,125.47	11,030.00	44.65	36.77	-121.60	2,087.92	579.47	727.13	642.83	84.30	8.625	
12,900.00	10,649.00	13,225.47	11,030.00	45.68	37.99	-121.60	2,187.92	578.76	727.14	640.75	86.39	8.417	
13,000.00	10,649.00	13,325.47	11,030.00	46.73	39.22	-121.60	2,287.92	578.06	727.15	638.64	88.50	8.216	
13,100.00	10,649.00	13,425.47	11,030.00	47.80	40.46	-121.60	2,387.92	577.36	727.15	636.51	90.64	8.022	
13,200.00	10,649.00	13,525.47	11,030.00	48.89	41.72	-121.60	2,487.91	576.65	727.16	634.36	92.80	7.836	
13,300.00	10,649.00	13,625.47	11,030.00	49.99	42.99	-121.60	2,587.91	575.95	727.17	632.18	94.99	7.655	
13,400.00	10,649.00	13,725.47	11,030.00	51.11	44.27	-121.60	2,687.91	575.25	727.17	629.98	97.19	7.482	
13,500.00	10,649.00	13,825.47	11,030.00	52.24	45.56	-121.60	2,787.91	574.54	727.18	627.76	99.41	7.315	
13,600.00	10,649.00	13,925.47	11,030.00	53.39	46.86	-121.60	2,887.90	573.84	727.18	625.53	101.65	7.154	
13,700.00	10,649.00	14,025.47	11,030.00	54.55	48.16	-121.60	2,987.90	573.13	727.19	623.28	103.91	6.998	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 704H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,800.00	10,649.00	14,125.47	11,030.00	55.72	49.48	-121.60	3,087.90	572.43	727.20	621.01	106.18	6.849	
13,900.00	10,649.00	14,225.47	11,030.00	56.90	50.80	-121.60	3,187.90	571.73	727.20	618.73	108.47	6.704	
14,000.00	10,649.00	14,325.47	11,030.00	58.10	52.13	-121.60	3,287.89	571.02	727.21	616.44	110.77	6.565	
14,100.00	10,649.00	14,425.47	11,030.00	59.30	53.47	-121.60	3,387.89	570.32	727.21	614.13	113.08	6.431	
14,200.00	10,649.00	14,525.47	11,030.00	60.52	54.81	-121.60	3,487.89	569.62	727.22	611.81	115.41	6.301	
14,300.00	10,649.00	14,625.47	11,030.00	61.74	56.15	-121.59	3,587.89	568.91	727.23	609.48	117.75	6.176	
14,400.00	10,649.00	14,725.47	11,030.00	62.98	57.50	-121.59	3,687.88	568.21	727.23	607.14	120.09	6.056	
14,500.00	10,649.00	14,825.47	11,030.00	64.22	58.86	-121.59	3,787.88	567.51	727.24	604.79	122.45	5.939	
14,600.00	10,649.00	14,925.47	11,030.00	65.47	60.22	-121.59	3,887.88	566.80	727.24	602.43	124.82	5.826	
14,700.00	10,649.00	15,025.47	11,030.00	66.73	61.58	-121.59	3,987.88	566.10	727.25	600.06	127.19	5.718	
14,800.00	10,649.00	15,125.47	11,030.00	67.99	62.95	-121.59	4,087.87	565.39	727.26	597.68	129.58	5.612	
14,900.00	10,649.00	15,225.47	11,030.00	69.26	64.32	-121.59	4,187.87	564.69	727.26	595.29	131.97	5.511	
15,000.00	10,649.00	15,325.47	11,030.00	70.54	65.69	-121.59	4,287.87	563.99	727.27	592.90	134.37	5.412	
15,100.00	10,649.00	15,425.47	11,030.00	71.82	67.07	-121.59	4,387.87	563.28	727.27	590.49	136.78	5.317	
15,200.00	10,649.00	15,525.47	11,030.00	73.11	68.45	-121.59	4,487.86	562.58	727.28	588.09	139.19	5.225	
15,300.00	10,649.00	15,625.47	11,030.00	74.41	69.83	-121.59	4,587.86	561.88	727.29	585.67	141.62	5.136	
15,400.00	10,649.00	15,725.47	11,030.00	75.71	71.22	-121.59	4,687.86	561.17	727.29	583.25	144.04	5.049	
15,500.00	10,649.00	15,825.47	11,030.00	77.02	72.61	-121.59	4,787.86	560.47	727.30	580.82	146.48	4.965	
15,600.00	10,649.00	15,925.47	11,030.00	78.33	74.00	-121.59	4,887.85	559.77	727.31	578.39	148.91	4.884	
15,700.00	10,649.00	16,025.47	11,030.00	79.64	75.39	-121.59	4,987.85	559.06	727.31	575.95	151.36	4.805	
15,800.00	10,649.00	16,125.47	11,030.00	80.96	76.78	-121.59	5,087.85	558.36	727.32	573.51	153.81	4.729	
15,900.00	10,649.00	16,225.47	11,030.00	82.28	78.18	-121.59	5,187.85	557.65	727.32	571.06	156.26	4.655	
16,000.00	10,649.00	16,325.47	11,030.00	83.61	79.58	-121.59	5,287.84	556.95	727.33	568.61	158.72	4.582	
16,100.00	10,649.00	16,425.47	11,030.00	84.94	80.98	-121.59	5,387.84	556.25	727.34	566.15	161.18	4.512	
16,200.00	10,649.00	16,525.47	11,030.00	86.28	82.38	-121.59	5,487.84	555.54	727.34	563.69	163.65	4.444	
16,300.00	10,649.00	16,625.47	11,030.00	87.62	83.78	-121.59	5,587.84	554.84	727.35	561.23	166.12	4.378	
16,400.00	10,649.00	16,725.47	11,030.00	88.96	85.19	-121.59	5,687.83	554.14	727.35	558.76	168.60	4.314	
16,500.00	10,649.00	16,825.47	11,030.00	90.30	86.59	-121.59	5,787.83	553.43	727.36	556.28	171.08	4.252	
16,600.00	10,649.00	16,925.47	11,030.00	91.65	88.00	-121.59	5,887.83	552.73	727.37	553.81	173.56	4.191	
16,700.00	10,649.00	17,025.47	11,030.00	93.00	89.41	-121.59	5,987.83	552.03	727.37	551.33	176.04	4.132	
16,800.00	10,649.00	17,125.47	11,030.00	94.36	90.82	-121.59	6,087.82	551.32	727.38	548.85	178.53	4.074	
16,900.00	10,649.00	17,225.47	11,030.00	95.71	92.23	-121.59	6,187.82	550.62	727.38	546.36	181.02	4.018	
17,000.00	10,649.00	17,325.47	11,030.00	97.07	93.64	-121.59	6,287.82	549.91	727.39	543.87	183.52	3.964	
17,100.00	10,649.00	17,425.47	11,030.00	98.43	95.05	-121.59	6,387.82	549.21	727.40	541.38	186.02	3.910	
17,200.00	10,649.00	17,525.47	11,030.00	99.80	96.47	-121.59	6,487.81	548.51	727.40	538.88	188.52	3.859	
17,300.00	10,649.00	17,625.47	11,030.00	101.16	97.88	-121.59	6,587.81	547.80	727.41	536.39	191.02	3.808	
17,400.00	10,649.00	17,725.47	11,030.00	102.53	99.30	-121.59	6,687.81	547.10	727.41	533.89	193.53	3.759	
17,500.00	10,649.00	17,825.47	11,030.00	103.90	100.71	-121.59	6,787.81	546.40	727.42	531.38	196.04	3.711	
17,600.00	10,649.00	17,925.47	11,030.00	105.27	102.13	-121.59	6,887.80	545.69	727.43	528.88	198.55	3.664	
17,700.00	10,649.00	18,025.47	11,030.00	106.65	103.55	-121.58	6,987.80	544.99	727.43	526.37	201.06	3.618	
17,800.00	10,649.00	18,125.47	11,030.00	108.02	104.97	-121.58	7,087.80	544.29	727.44	523.86	203.57	3.573	
17,900.00	10,649.00	18,225.47	11,030.00	109.40	106.39	-121.58	7,187.80	543.58	727.45	521.35	206.09	3.530	
18,000.00	10,649.00	18,325.47	11,030.00	110.78	107.81	-121.58	7,287.79	542.88	727.45	518.84	208.61	3.487	
18,100.00	10,649.00	18,425.47	11,030.00	112.16	109.23	-121.58	7,387.79	542.17	727.46	516.32	211.13	3.446	
18,200.00	10,649.00	18,525.47	11,030.00	113.54	110.65	-121.58	7,487.79	541.47	727.46	513.81	213.66	3.405	
18,300.00	10,649.00	18,625.47	11,030.00	114.93	112.08	-121.58	7,587.79	540.77	727.47	511.29	216.18	3.365	
18,400.00	10,649.00	18,725.47	11,030.00	116.31	113.50	-121.58	7,687.78	540.06	727.48	508.77	218.71	3.326	
18,500.00	10,649.00	18,825.47	11,030.00	117.70	114.92	-121.58	7,787.78	539.36	727.48	506.25	221.24	3.288	
18,600.00	10,649.00	18,925.47	11,030.00	119.09	116.35	-121.58	7,887.78	538.66	727.49	503.72	223.77	3.251	
18,700.00	10,649.00	19,025.47	11,030.00	120.48	117.77	-121.58	7,987.78	537.95	727.49	501.20	226.30	3.215	
18,800.00	10,649.00	19,125.47	11,030.00	121.87	119.20	-121.58	8,087.77	537.25	727.50	498.67	228.83	3.179	
18,900.00	10,649.00	19,225.47	11,030.00	123.26	120.63	-121.58	8,187.77	536.55	727.51	496.14	231.37	3.144	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 704H - OH - Plan 1

Survey Program: Reference		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,000.00	10,649.00	19,325.47	11,030.00	124.66	122.05	-121.58	8,287.77	535.84	727.51	493.61	233.90	3.110		
19,100.00	10,649.00	19,425.47	11,030.00	126.05	123.48	-121.58	8,387.77	535.14	727.52	491.08	236.44	3.077		
19,200.00	10,649.00	19,525.47	11,030.00	127.45	124.91	-121.58	8,487.76	534.43	727.52	488.55	238.98	3.044		
19,300.00	10,649.00	19,625.47	11,030.00	128.85	126.34	-121.58	8,587.76	533.73	727.53	486.01	241.52	3.012		
19,400.00	10,649.00	19,725.47	11,030.00	130.25	127.76	-121.58	8,687.76	533.03	727.54	483.48	244.06	2.981		
19,500.00	10,649.00	19,825.47	11,030.00	131.65	129.19	-121.58	8,787.76	532.32	727.54	480.94	246.60	2.950		
19,600.00	10,649.00	19,925.47	11,030.00	133.05	130.62	-121.58	8,887.75	531.62	727.55	478.40	249.15	2.920		
19,700.00	10,649.00	20,025.47	11,030.00	134.45	132.05	-121.58	8,987.75	530.92	727.55	475.86	251.69	2.891		
19,800.00	10,649.00	20,125.47	11,030.00	135.85	133.48	-121.58	9,087.75	530.21	727.56	473.32	254.24	2.862		
19,900.00	10,649.00	20,225.47	11,030.00	137.25	134.91	-121.58	9,187.75	529.51	727.57	470.78	256.79	2.833		
20,000.00	10,649.00	20,325.47	11,030.00	138.66	136.34	-121.58	9,287.74	528.81	727.57	468.24	259.33	2.806		
20,100.00	10,649.00	20,425.47	11,030.00	140.06	137.78	-121.58	9,387.74	528.10	727.58	465.70	261.88	2.778		
20,200.00	10,649.00	20,525.47	11,030.00	141.47	139.21	-121.58	9,487.74	527.40	727.59	463.15	264.43	2.751		
20,300.00	10,649.00	20,625.47	11,030.00	142.88	140.64	-121.58	9,587.74	526.69	727.59	460.61	266.99	2.725		
20,400.00	10,649.00	20,725.47	11,030.00	144.28	142.07	-121.58	9,687.73	525.99	727.60	458.06	269.54	2.699		
20,500.00	10,649.00	20,825.47	11,030.00	145.69	143.50	-121.58	9,787.73	525.29	727.60	455.51	272.09	2.674		
20,600.00	10,649.00	20,925.47	11,030.00	147.10	144.94	-121.58	9,887.73	524.58	727.61	452.96	274.65	2.649		
20,700.00	10,649.00	21,025.47	11,030.00	148.51	146.37	-121.58	9,987.73	523.88	727.62	450.42	277.20	2.625		
20,800.00	10,649.00	21,125.47	11,030.00	149.92	147.80	-121.58	10,087.72	523.18	727.62	447.87	279.76	2.601		
20,900.00	10,649.00	21,225.47	11,030.00	151.33	149.24	-121.58	10,187.72	522.47	727.63	445.31	282.31	2.577		
20,900.53	10,649.00	21,226.00	11,030.00	151.34	149.24	-121.58	10,188.26	522.47	727.63	445.30	282.33	2.577		
20,944.71	10,649.00	21,269.91	11,030.00	151.90	149.87	-121.58	10,232.16	522.16	727.63	444.30	283.33	2.568 SF		



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 803H - OH - Plan 1

Survey Program: 0-MWD+HDGM													Offset Site Error: 0.00 usft			
Reference				Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	89.64	1.25	199.96	199.96							
100.00	100.00	100.00	100.00	0.79	0.79	89.64	1.25	199.96	199.96	198.38	1.58	126.227				
200.00	200.00	200.00	200.00	1.45	1.45	89.64	1.25	199.96	199.96	197.06	2.90	68.971				
300.00	300.00	300.00	300.00	1.89	1.89	89.64	1.25	199.96	199.96	196.18	3.79	52.777				
400.00	400.00	400.00	400.00	2.26	2.26	89.64	1.25	199.96	199.96	195.45	4.51	44.319				
500.00	500.00	500.00	500.00	2.57	2.57	89.64	1.25	199.96	199.96	194.82	5.14	38.908				
600.00	600.00	600.00	600.00	2.85	2.85	89.64	1.25	199.96	199.96	194.26	5.70	35.064				
700.00	700.00	700.00	700.00	3.11	3.11	89.64	1.25	199.96	199.96	193.74	6.22	32.150				
800.00	800.00	800.00	800.00	3.35	3.35	89.64	1.25	199.96	199.96	193.26	6.70	29.842				
900.00	900.00	900.00	900.00	3.58	3.58	89.64	1.25	199.96	199.96	192.81	7.15	27.954				
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.64	1.25	199.96	199.96	192.38	7.58	26.372				
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.64	1.25	199.96	199.96	191.97	7.99	25.022				
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.64	1.25	199.96	199.96	191.58	8.38	23.850				
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.64	1.25	199.96	199.96	191.20	8.76	22.821				
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.64	1.25	199.96	199.96	190.84	9.13	21.908				
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.64	1.25	199.96	199.96	190.48	9.48	21.090				
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.64	1.25	199.96	199.96	190.14	9.83	20.351				
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.64	1.25	199.96	199.96	189.80	10.16	19.680				
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.64	1.25	199.96	199.96	189.48	10.49	19.067				
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.64	1.25	199.96	199.96	189.16	10.81	18.504				
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.64	1.25	199.96	199.96	188.84	11.12	17.983				
2,100.00	2,099.99	2,100.88	2,100.87	5.75	5.73	55.34	-0.06	199.73	198.98	187.57	11.41	17.434				
2,200.00	2,199.91	2,201.37	2,201.28	5.94	5.88	57.47	-3.98	199.04	196.21	184.54	11.68	16.804				
2,300.00	2,299.69	2,301.06	2,300.75	6.15	6.06	61.09	-10.43	197.90	192.20	180.27	11.93	16.108				
2,400.00	2,399.27	2,399.67	2,399.02	6.38	6.20	66.03	-18.44	196.49	187.89	175.72	12.17	15.443				
2,500.00	2,498.74	2,498.08	2,497.09	6.60	6.37	56.81	-26.46	195.07	183.48	171.05	12.44	14.755				
2,600.00	2,598.20	2,596.60	2,595.28	6.82	6.57	47.76	-34.50	193.66	178.36	165.65	12.71	14.029				
2,700.00	2,697.57	2,695.18	2,693.52	7.06	6.78	40.46	-42.54	192.24	172.31	159.31	13.00	13.250				
2,800.00	2,796.81	2,797.22	2,795.23	7.28	6.99	35.79	-50.42	190.05	164.40	151.09	13.31	12.350				
2,900.00	2,895.82	2,899.57	2,897.27	7.51	7.23	33.77	-56.92	185.57	152.83	139.17	13.66	11.190				
3,000.00	2,994.55	2,998.99	2,996.36	7.74	7.40	34.37	-62.03	179.26	138.14	124.21	13.92	9.922				
3,072.23	3,065.65	3,069.16	3,066.28	7.90	7.56	36.48	-65.52	174.61	127.04	112.89	14.15	8.976				
3,100.00	3,092.95	3,096.09	3,093.12	7.95	7.62	38.91	-66.86	172.83	122.88	108.65	14.24	8.631				
3,200.00	3,191.24	3,193.08	3,189.78	8.21	7.86	48.98	-71.68	166.41	110.08	95.41	14.67	7.503				
3,300.00	3,289.54	3,290.07	3,286.44	8.49	8.11	61.08	-76.50	159.99	101.59	86.37	15.22	6.674				
3,400.00	3,387.83	3,387.07	3,383.10	8.78	8.36	74.54	-81.32	153.56	98.54	82.62	15.92	6.191	CC			
3,404.45	3,392.21	3,391.38	3,387.40	8.80	8.37	75.15	-81.54	153.28	98.54	82.59	15.95	6.178	ES			
3,500.00	3,486.13	3,484.06	3,479.76	9.09	8.63	88.03	-86.15	147.14	101.40	84.70	16.71	6.070	SF			
3,600.00	3,584.42	3,581.05	3,576.42	9.42	8.90	100.18	-90.97	140.72	109.73	92.23	17.50	6.271				
3,700.00	3,682.72	3,678.04	3,673.08	9.75	9.18	110.32	-95.79	134.30	122.41	104.17	18.24	6.712				
3,800.00	3,781.02	3,775.03	3,769.73	10.09	9.47	118.43	-100.61	127.88	138.25	119.33	18.92	7.307				
3,900.00	3,879.31	3,872.03	3,866.39	10.45	9.76	124.82	-105.44	121.46	156.29	136.73	19.57	7.988				
4,000.00	3,977.61	3,969.02	3,963.05	10.81	10.06	129.87	-110.26	115.04	175.86	155.67	20.19	8.710				
4,100.00	4,075.90	4,066.01	4,059.71	11.18	10.36	133.90	-115.08	108.61	196.50	175.69	20.81	9.443				
4,200.00	4,174.20	4,163.00	4,156.37	11.55	10.67	137.16	-119.90	102.19	217.90	196.47	21.42	10.171				
4,300.00	4,272.49	4,259.99	4,253.03	11.94	10.98	139.84	-124.73	95.77	239.86	217.82	22.04	10.881				
4,400.00	4,370.79	4,356.99	4,349.69	12.32	11.29	142.08	-129.55	89.35	262.25	239.58	22.67	11.568				
4,500.00	4,469.09	4,453.98	4,446.35	12.72	11.61	143.96	-134.37	82.93	284.95	261.65	23.30	12.228				
4,600.00	4,567.38	4,550.97	4,543.01	13.11	11.93	145.56	-139.19	76.51	307.91	283.97	23.94	12.860				
4,700.00	4,665.68	4,647.96	4,639.66	13.52	12.26	146.94	-144.02	70.08	331.06	306.47	24.59	13.464				
4,800.00	4,763.97	4,744.95	4,736.32	13.92	12.58	148.14	-148.84	63.66	354.38	329.14	25.24	14.040				
4,900.00	4,862.27	4,841.94	4,832.98	14.33	12.91	149.20	-153.66	57.24	377.82	351.92	25.90	14.588				

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 803H - OH - Plan 1

Survey Program: 0-MWD+HDGM										Rule Assigned:		Offset Site Error:	0.00 usft
Reference: 0-MWD+HDGM										Distance		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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,960.56	4,938.94	4,929.64	14.74	13.24	150.13	-158.48	50.82	401.37	374.81	26.56	15.110	
5,100.00	5,058.86	5,035.93	5,026.30	15.16	13.58	150.96	-163.31	44.40	425.01	397.78	27.23	15.606	
5,200.00	5,157.15	5,132.92	5,122.96	15.57	13.91	151.70	-168.13	37.98	448.73	420.82	27.91	16.079	
5,300.00	5,255.45	5,229.91	5,219.62	15.99	14.25	152.36	-172.95	31.56	472.50	443.92	28.59	16.528	
5,400.00	5,353.75	5,326.90	5,316.28	16.42	14.59	152.97	-177.77	25.13	496.34	467.07	29.27	16.957	
5,500.00	5,452.04	5,423.90	5,412.94	16.84	14.93	153.51	-182.59	18.71	520.22	490.26	29.96	17.365	
5,600.00	5,550.34	5,520.89	5,509.59	17.27	15.27	154.01	-187.42	12.29	544.14	513.49	30.65	17.753	
5,700.00	5,648.63	5,618.27	5,606.64	17.70	15.61	154.47	-192.26	5.85	568.10	536.75	31.34	18.126	
5,800.00	5,746.93	5,730.93	5,719.04	18.13	16.00	155.03	-196.81	-0.22	590.73	558.58	32.16	18.370	
5,900.00	5,845.22	5,844.74	5,832.77	18.56	16.35	155.70	-199.39	-3.65	610.83	577.91	32.92	18.557	
6,000.00	5,943.52	5,955.50	5,943.52	18.99	16.54	156.43	-199.99	-4.45	628.44	594.94	33.50	18.758	
6,100.00	6,041.81	6,053.79	6,041.81	19.43	16.57	157.08	-199.99	-4.45	645.38	611.46	33.92	19.027	
6,200.00	6,140.11	6,152.09	6,140.11	19.86	16.61	157.70	-199.99	-4.45	662.39	628.04	34.35	19.284	
6,300.00	6,238.41	6,250.39	6,238.41	20.30	16.66	158.29	-199.99	-4.45	679.48	644.69	34.78	19.534	
6,400.00	6,336.70	6,348.68	6,336.70	20.74	16.70	158.84	-199.99	-4.45	696.63	661.41	35.22	19.778	
6,500.00	6,435.00	6,446.98	6,435.00	21.18	16.74	159.38	-199.99	-4.45	713.84	678.18	35.66	20.015	
6,600.00	6,533.29	6,545.27	6,533.29	21.62	16.78	159.88	-199.99	-4.45	731.11	695.00	36.11	20.247	
6,700.00	6,631.59	6,643.57	6,631.59	22.06	16.83	160.37	-199.99	-4.45	748.44	711.88	36.56	20.472	
6,800.00	6,729.88	6,741.86	6,729.88	22.50	16.87	160.83	-199.99	-4.45	765.81	728.80	37.01	20.692	
6,900.00	6,828.18	6,840.16	6,828.18	22.95	16.91	161.27	-199.99	-4.45	783.23	745.76	37.46	20.906	
7,000.00	6,926.47	6,938.46	6,926.47	23.39	16.96	161.69	-199.99	-4.45	800.69	762.77	37.92	21.114	
7,100.00	7,024.77	7,036.75	7,024.77	23.83	17.00	162.09	-199.99	-4.45	818.19	779.81	38.38	21.317	
7,200.00	7,123.07	7,135.05	7,123.07	24.28	17.05	162.48	-199.99	-4.45	835.73	796.89	38.84	21.515	
7,300.00	7,221.36	7,233.34	7,221.36	24.73	17.09	162.85	-199.99	-4.45	853.31	814.00	39.31	21.708	
7,400.00	7,319.66	7,331.64	7,319.66	25.17	17.14	163.21	-199.99	-4.45	870.92	831.14	39.78	21.895	
7,500.00	7,417.95	7,429.93	7,417.95	25.62	17.18	163.55	-199.99	-4.45	888.56	848.31	40.25	22.078	
7,600.00	7,516.25	7,528.23	7,516.25	26.07	17.23	163.88	-199.99	-4.45	906.23	865.51	40.72	22.256	
7,700.00	7,614.54	7,626.52	7,614.54	26.52	17.27	164.19	-199.99	-4.45	923.93	882.73	41.19	22.430	
7,800.00	7,712.84	7,724.82	7,712.84	26.97	17.32	164.50	-199.99	-4.45	941.65	899.98	41.67	22.600	
7,886.41	7,797.78	7,809.76	7,797.78	27.35	17.36	164.75	-199.99	-4.45	956.99	914.91	42.07	22.745	
7,900.00	7,811.14	7,823.12	7,811.14	27.41	17.36	164.80	-199.99	-4.45	959.38	917.24	42.14	22.768	
8,000.00	7,909.72	7,921.71	7,909.72	27.87	17.41	165.12	-199.99	-4.45	975.56	932.94	42.62	22.887	
8,100.00	8,008.71	8,020.69	8,008.71	28.30	17.46	165.39	-199.99	-4.45	989.26	946.17	43.09	22.958	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 804H - OH - Plan 1

Survey Program:		0-MWD+HDGM							Rule Assigned:				Offset Well Error:		
Reference		Offset		Semi Major Axis		Highside		Wellbore Centre		Distance		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	0.00	0.00	89.64	1.41	224.96	224.96						
100.00	100.00	100.00	100.00	0.79	0.79	89.64	1.41	224.96	224.96	223.38	1.58	142.009			
200.00	200.00	200.00	200.00	1.45	1.45	89.64	1.41	224.96	224.96	222.07	2.90	77.594			
300.00	300.00	300.00	300.00	1.89	1.89	89.64	1.41	224.96	224.96	221.18	3.79	59.376			
400.00	400.00	400.00	400.00	2.26	2.26	89.64	1.41	224.96	224.96	220.45	4.51	49.860			
500.00	500.00	500.00	500.00	2.57	2.57	89.64	1.41	224.96	224.96	219.83	5.14	43.772			
600.00	600.00	600.00	600.00	2.85	2.85	89.64	1.41	224.96	224.96	219.26	5.70	39.448			
700.00	700.00	700.00	700.00	3.11	3.11	89.64	1.41	224.96	224.96	218.74	6.22	36.169			
800.00	800.00	800.00	800.00	3.35	3.35	89.64	1.41	224.96	224.96	218.26	6.70	33.573			
900.00	900.00	900.00	900.00	3.58	3.58	89.64	1.41	224.96	224.96	217.81	7.15	31.449			
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	89.64	1.41	224.96	224.96	217.38	7.58	29.670			
1,100.00	1,100.00	1,100.00	1,100.00	4.00	4.00	89.64	1.41	224.96	224.96	216.97	7.99	28.150			
1,200.00	1,200.00	1,200.00	1,200.00	4.19	4.19	89.64	1.41	224.96	224.96	216.58	8.38	26.832			
1,300.00	1,300.00	1,300.00	1,300.00	4.38	4.38	89.64	1.41	224.96	224.96	216.20	8.76	25.674			
1,400.00	1,400.00	1,400.00	1,400.00	4.56	4.56	89.64	1.41	224.96	224.96	215.84	9.13	24.647			
1,500.00	1,500.00	1,500.00	1,500.00	4.74	4.74	89.64	1.41	224.96	224.96	215.48	9.48	23.726			
1,600.00	1,600.00	1,600.00	1,600.00	4.91	4.91	89.64	1.41	224.96	224.96	215.14	9.83	22.896			
1,700.00	1,700.00	1,700.00	1,700.00	5.08	5.08	89.64	1.41	224.96	224.96	214.80	10.16	22.141			
1,800.00	1,800.00	1,800.00	1,800.00	5.24	5.24	89.64	1.41	224.96	224.96	214.48	10.49	21.451			
1,900.00	1,900.00	1,900.00	1,900.00	5.40	5.40	89.64	1.41	224.96	224.96	214.16	10.81	20.817			
2,000.00	2,000.00	2,000.00	2,000.00	5.56	5.56	89.64	1.41	224.96	224.96	213.85	11.12	20.232			
2,100.00	2,099.99	2,094.52	2,094.51	5.75	5.73	54.95	1.19	226.11	225.42	213.98	11.45	19.696			
2,200.00	2,199.91	2,188.94	2,188.87	5.94	5.89	55.87	0.51	229.55	226.84	215.08	11.76	19.291			
2,300.00	2,299.69	2,283.15	2,282.89	6.15	6.07	57.37	-0.60	235.25	229.35	217.26	12.08	18.982			
2,400.00	2,399.27	2,377.04	2,376.43	6.38	6.26	59.40	-2.16	243.21	233.13	220.71	12.42	18.773			
2,500.00	2,498.74	2,470.74	2,469.55	6.60	6.47	47.15	-4.15	253.39	238.07	225.29	12.78	18.628			
2,600.00	2,598.20	2,564.39	2,562.34	6.82	6.70	34.78	-6.58	265.81	243.75	230.59	13.16	18.517			
2,700.00	2,697.57	2,657.97	2,654.72	7.06	6.96	23.79	-9.44	280.44	250.02	236.45	13.57	18.422			
2,800.00	2,796.81	2,753.43	2,748.58	7.28	7.19	14.79	-12.78	297.52	256.64	242.65	13.99	18.346			
2,900.00	2,895.82	2,853.26	2,846.63	7.51	7.47	7.61	-16.38	315.93	261.77	247.28	14.49	18.065			
3,000.00	2,994.55	2,953.21	2,944.80	7.74	7.76	1.82	-19.99	334.37	264.79	249.75	15.05	17.598			
3,072.23	3,065.65	3,025.44	3,015.74	7.90	7.99	-1.74	-22.59	347.69	265.65	250.20	15.45	17.197			
3,100.00	3,092.95	3,053.20	3,043.01	7.95	8.08	-1.79	-23.60	352.81	265.77	250.17	15.60	17.041			
3,200.00	3,191.24	3,153.20	3,141.23	8.21	8.40	-1.97	-27.20	371.25	266.19	249.97	16.23	16.405			
3,300.00	3,289.54	3,253.19	3,239.44	8.49	8.74	-2.15	-30.81	389.69	266.62	249.73	16.88	15.791			
3,400.00	3,387.83	3,353.19	3,337.65	8.78	9.09	-2.33	-34.42	408.13	267.04	249.48	17.57	15.200			
3,500.00	3,486.13	3,453.19	3,435.87	9.09	9.45	-2.51	-38.02	426.57	267.47	249.20	18.28	14.635			
3,600.00	3,584.42	3,553.18	3,534.08	9.42	9.82	-2.69	-41.63	445.01	267.91	248.90	19.00	14.097			
3,700.00	3,682.72	3,653.18	3,632.30	9.75	10.20	-2.87	-45.24	463.45	268.34	248.59	19.75	13.586			
3,800.00	3,781.02	3,753.17	3,730.51	10.09	10.58	-3.05	-48.84	481.89	268.78	248.27	20.51	13.102			
3,900.00	3,879.31	3,853.17	3,828.73	10.45	10.97	-3.23	-52.45	500.33	269.22	247.93	21.29	12.644			
4,000.00	3,977.61	3,953.16	3,926.94	10.81	11.37	-3.41	-56.06	518.77	269.67	247.58	22.08	12.211			
4,100.00	4,075.90	4,053.16	4,025.15	11.18	11.77	-3.59	-59.66	537.21	270.11	247.23	22.89	11.802			
4,200.00	4,174.20	4,153.15	4,123.37	11.55	12.18	-3.76	-63.27	555.65	270.56	246.86	23.70	11.416			
4,300.00	4,272.49	4,253.15	4,221.58	11.94	12.59	-3.94	-66.88	574.09	271.01	246.49	24.52	11.051			
4,400.00	4,370.79	4,353.14	4,319.80	12.32	13.00	-4.11	-70.49	592.53	271.47	246.11	25.35	10.707			
4,500.00	4,469.09	4,453.14	4,418.01	12.72	13.42	-4.29	-74.09	610.97	271.92	245.73	26.19	10.381			
4,600.00	4,567.38	4,553.14	4,516.23	13.11	13.84	-4.46	-77.70	629.41	272.38	245.34	27.04	10.074			
4,700.00	4,665.68	4,653.13	4,614.44	13.52	14.26	-4.64	-81.31	647.85	272.84	244.95	27.89	9.783			
4,800.00	4,763.97	4,753.13	4,712.65	13.92	14.68	-4.81	-84.91	666.29	273.31	244.56	28.75	9.507			
4,900.00	4,862.27	4,853.12	4,810.87	14.33	15.11	-4.98	-88.52	684.73	273.77	244.16	29.61	9.246			
5,000.00	4,960.56	4,953.12	4,909.08	14.74	15.54	-5.16	-92.13	703.17	274.24	243.77	30.48	8.998			

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 804H - OH - Plan 1

Survey Program: Reference		0-MWD+HDGM Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,058.86	5,053.11	5,007.30	15.16	15.97	-5.33	-95.73	721.62	274.71	243.37	31.35	8.763		
5,200.00	5,157.15	5,153.11	5,105.51	15.57	16.41	-5.50	-99.34	740.06	275.19	242.96	32.22	8.540		
5,300.00	5,255.45	5,253.10	5,203.73	15.99	16.84	-5.67	-102.95	758.50	275.66	242.56	33.10	8.328		
5,400.00	5,353.75	5,353.10	5,301.94	16.42	17.28	-5.84	-106.55	776.94	276.14	242.16	33.98	8.126		
5,500.00	5,452.04	5,453.10	5,400.15	16.84	17.72	-6.01	-110.16	795.38	276.62	241.76	34.87	7.934		
5,600.00	5,550.34	5,553.09	5,498.37	17.27	18.16	-6.18	-113.77	813.82	277.11	241.35	35.75	7.750		
5,700.00	5,648.63	5,653.09	5,596.58	17.70	18.60	-6.34	-117.37	832.26	277.59	240.95	36.64	7.575		
5,800.00	5,746.93	5,753.08	5,694.80	18.13	19.04	-6.51	-120.98	850.70	278.08	240.55	37.54	7.409		
5,900.00	5,845.22	5,853.08	5,793.01	18.56	19.48	-6.68	-124.59	869.14	278.57	240.14	38.43	7.249		
6,000.00	5,943.52	5,953.07	5,891.23	18.99	19.93	-6.84	-128.19	887.58	279.07	239.74	39.32	7.097		
6,100.00	6,041.81	6,053.07	5,989.44	19.43	20.37	-7.01	-131.80	906.02	279.56	239.34	40.22	6.951		
6,200.00	6,140.11	6,153.06	6,087.65	19.86	20.82	-7.17	-135.41	924.46	280.06	238.94	41.12	6.811		
6,300.00	6,238.41	6,253.06	6,185.87	20.30	21.27	-7.34	-139.02	942.90	280.56	238.54	42.02	6.677		
6,400.00	6,336.70	6,353.06	6,284.08	20.74	21.71	-7.50	-142.62	961.34	281.06	238.14	42.92	6.549		
6,500.00	6,435.00	6,453.05	6,382.30	21.18	22.16	-7.67	-146.23	979.78	281.57	237.74	43.82	6.425		
6,600.00	6,533.29	6,553.05	6,480.51	21.62	22.61	-7.83	-149.84	998.22	282.07	237.35	44.72	6.307		
6,700.00	6,631.59	6,653.04	6,578.73	22.06	23.06	-7.99	-153.44	1,016.66	282.58	236.95	45.63	6.193		
6,800.00	6,729.88	6,753.04	6,676.94	22.50	23.51	-8.15	-157.05	1,035.10	283.09	236.56	46.53	6.084		
6,900.00	6,828.18	6,853.03	6,775.15	22.95	23.96	-8.31	-160.66	1,053.54	283.61	236.17	47.44	5.979		
7,000.00	6,926.47	6,953.03	6,873.37	23.39	24.41	-8.47	-164.26	1,071.98	284.12	235.78	48.34	5.877		
7,100.00	7,024.77	7,053.02	6,971.58	23.83	24.87	-8.63	-167.87	1,090.42	284.64	235.39	49.25	5.780		
7,200.00	7,123.07	7,153.02	7,069.80	24.28	25.32	-8.79	-171.48	1,108.86	285.16	235.00	50.16	5.685		
7,300.00	7,221.36	7,253.01	7,168.01	24.73	25.77	-8.95	-175.08	1,127.31	285.68	234.62	51.06	5.595		
7,400.00	7,319.66	7,353.01	7,266.23	25.17	26.22	-9.11	-178.69	1,145.75	286.21	234.24	51.97	5.508		
7,500.00	7,417.95	7,459.73	7,371.24	25.62	26.69	-9.30	-182.34	1,164.39	286.75	233.86	52.89	5.403		
7,600.00	7,516.25	7,567.65	7,477.92	26.07	27.17	-9.57	-185.46	1,180.35	287.53	228.75	53.78	5.253		
7,700.00	7,614.54	7,675.27	7,584.72	26.52	27.62	-9.93	-187.99	1,193.31	276.52	221.91	54.61	5.064		
7,800.00	7,712.84	7,782.44	7,691.40	26.97	28.05	-10.38	-189.94	1,203.28	267.73	212.37	55.36	4.836		
7,886.41	7,797.78	7,874.54	7,783.29	27.35	28.39	-10.88	-191.16	1,209.49	257.94	201.99	55.95	4.610		
7,900.00	7,811.14	7,888.98	7,797.71	27.41	28.44	-10.96	-191.31	1,210.27	256.24	200.20	56.03	4.573		
8,000.00	7,909.72	7,995.01	7,903.65	27.87	28.78	-11.58	-192.11	1,214.34	243.63	187.01	56.63	4.302		
8,100.00	8,008.71	8,100.08	8,008.71	28.30	28.94	-12.24	-192.34	1,215.53	230.90	173.91	56.99	4.052		
8,200.00	8,108.04	8,199.41	8,108.04	28.71	28.99	-12.84	-192.34	1,215.53	219.61	162.21	57.40	3.826		
8,300.00	8,207.64	8,299.00	8,207.64	29.10	29.01	-13.35	-192.34	1,215.53	210.88	153.12	57.77	3.651		
8,400.00	8,307.43	8,398.80	8,307.43	29.46	29.04	-13.74	-192.34	1,215.53	204.71	146.60	58.11	3.523		
8,500.00	8,407.36	8,498.73	8,407.36	29.78	29.07	-13.98	-192.34	1,215.53	201.08	142.65	58.43	3.441		
8,592.65	8,500.00	8,591.37	8,500.00	29.92	29.10	89.64	-192.34	1,215.53	199.99	141.41	58.59	3.414		
8,600.00	8,507.35	8,598.72	8,507.35	29.92	29.10	89.64	-192.34	1,215.53	199.99	141.40	58.59	3.413		
8,700.00	8,607.35	8,698.72	8,607.35	29.97	29.13	89.64	-192.34	1,215.53	199.99	141.32	58.67	3.409		
8,800.00	8,707.35	8,798.72	8,707.35	30.00	29.16	89.64	-192.34	1,215.53	199.99	141.27	58.73	3.406		
8,900.00	8,807.35	8,898.72	8,807.35	30.02	29.18	89.64	-192.34	1,215.53	199.99	141.21	58.78	3.402		
9,000.00	8,907.35	8,998.72	8,907.35	30.05	29.21	89.64	-192.34	1,215.53	199.99	141.15	58.84	3.399		
9,100.00	9,007.35	9,098.72	9,007.35	30.08	29.24	89.64	-192.34	1,215.53	199.99	141.10	58.90	3.396		
9,200.00	9,107.35	9,198.72	9,107.35	30.11	29.27	89.64	-192.34	1,215.53	199.99	141.04	58.95	3.392		
9,300.00	9,207.35	9,298.72	9,207.35	30.14	29.30	89.64	-192.34	1,215.53	199.99	140.98	59.01	3.389		
9,400.00	9,307.35	9,398.72	9,307.35	30.16	29.33	89.64	-192.34	1,215.53	199.99	140.92	59.07	3.386		
9,500.00	9,407.35	9,498.72	9,407.35	30.19	29.36	89.64	-192.34	1,215.53	199.99	140.86	59.13	3.382		
9,600.00	9,507.35	9,598.72	9,507.35	30.22	29.39	89.64	-192.34	1,215.53	199.99	140.80	59.19	3.379		
9,700.00	9,607.35	9,698.72	9,607.35	30.25	29.42	89.64	-192.34	1,215.53	199.99	140.74	59.25	3.375		
9,800.00	9,707.35	9,798.72	9,707.35	30.28	29.45	89.64	-192.34	1,215.53	199.99	140.68	59.31	3.372		
9,900.00	9,807.35	9,898.72	9,807.35	30.31	29.48	89.64	-192.34	1,215.53	199.99	140.62	59.37	3.369		
10,000.00	9,907.35	9,998.72	9,907.35	30.34	29.52	89.64	-192.34	1,215.53	199.99	140.56	59.43	3.365		

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 804H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Ellipses (usft)			
10,100.00	10,007.35	10,098.72	10,007.35	30.37	29.55	89.64	-192.34	1,215.53	199.99	140.50	59.49	3.362	
10,168.69	10,076.04	10,167.41	10,076.04	30.38	29.57	89.64	-192.34	1,215.53	199.99	140.47	59.53	3.360	
10,200.00	10,107.33	10,198.70	10,107.33	30.39	29.58	77.45	-192.34	1,215.53	199.81	140.23	59.57	3.354	
10,250.00	10,157.08	10,248.45	10,157.08	30.41	29.59	78.92	-192.34	1,215.53	198.80	139.06	59.74	3.328	
10,300.00	10,206.20	10,297.57	10,206.20	30.44	29.61	81.66	-192.34	1,215.53	197.21	137.28	59.94	3.290	
10,350.00	10,254.34	10,345.71	10,254.34	30.47	29.62	85.57	-192.34	1,215.53	195.66	135.60	60.07	3.257	
10,395.62	10,297.08	10,388.45	10,297.08	30.50	29.64	90.00	-192.34	1,215.53	195.02	135.03	59.99	3.251 CC, ES, SF	
10,400.00	10,301.12	10,392.49	10,301.12	30.50	29.64	90.46	-192.34	1,215.53	195.02	135.06	59.96	3.252	
10,450.00	10,346.18	10,437.55	10,346.18	30.54	29.65	96.02	-192.34	1,215.53	196.41	136.95	59.45	3.304	
10,500.00	10,389.19	10,480.56	10,389.19	30.57	29.67	101.84	-192.34	1,215.53	201.03	142.64	58.39	3.443	
10,550.00	10,429.82	10,521.19	10,429.82	30.61	29.68	107.45	-192.34	1,215.53	210.01	153.24	56.77	3.699	
10,600.00	10,467.75	10,559.12	10,467.75	30.66	29.69	112.46	-192.34	1,215.53	224.13	169.40	54.73	4.095	
10,650.00	10,502.71	10,594.07	10,502.71	30.71	29.70	116.58	-192.34	1,215.53	243.73	191.19	52.54	4.639	
10,700.00	10,534.41	10,625.78	10,534.41	30.76	29.71	119.63	-192.34	1,215.53	268.70	218.23	50.47	5.324	
10,750.00	10,562.63	10,654.00	10,562.63	30.83	29.72	121.47	-192.34	1,215.53	298.59	249.90	48.68	6.133	
10,800.00	10,587.14	10,678.51	10,587.14	30.91	29.73	122.00	-192.34	1,215.53	332.79	285.54	47.25	7.044	
10,850.00	10,607.77	10,699.13	10,607.77	30.99	29.74	121.05	-192.34	1,215.53	370.65	324.50	46.14	8.033	
10,900.00	10,624.34	10,715.71	10,624.34	31.09	29.74	118.33	-192.34	1,215.53	411.49	366.17	45.32	9.080	
10,950.00	10,636.75	10,728.12	10,636.75	31.21	29.75	113.42	-192.34	1,215.53	454.71	409.99	44.72	10.167	
11,000.00	10,644.89	10,736.25	10,644.89	31.34	29.75	105.76	-192.34	1,215.53	499.71	455.42	44.29	11.283	
11,050.00	10,648.69	10,740.06	10,648.69	31.49	29.75	94.87	-192.34	1,215.53	545.94	501.96	43.98	12.413	
11,068.69	10,649.00	10,740.37	10,649.00	31.55	29.75	90.00	-192.34	1,215.53	563.44	519.55	43.89	12.838	
11,100.00	10,649.00	10,740.37	10,649.00	31.66	29.75	90.00	-192.34	1,215.53	592.97	549.21	43.76	13.551	
11,200.00	10,649.00	10,740.37	10,649.00	32.08	29.75	90.00	-192.34	1,215.53	688.95	645.45	43.50	15.839	
11,300.00	10,649.00	10,740.37	10,649.00	32.57	29.75	90.00	-192.34	1,215.53	786.67	743.30	43.37	18.138	
11,400.00	10,649.00	10,740.37	10,649.00	33.12	29.75	90.00	-192.34	1,215.53	885.47	842.16	43.31	20.445	
11,500.00	10,649.00	12,449.33	11,619.00	33.72	32.35	179.50	792.51	1,208.59	970.04	918.24	51.80	18.727	
11,600.00	10,649.00	12,549.16	11,619.00	34.37	32.97	179.83	892.34	1,207.89	970.01	917.34	52.67	18.416	
11,700.00	10,649.00	12,649.13	11,619.00	35.05	33.64	179.95	992.31	1,207.18	970.00	916.50	53.50	18.129	
11,711.14	10,649.00	12,660.28	11,619.00	35.13	33.71	179.96	1,003.46	1,207.10	970.00	916.41	53.59	18.099	
11,800.00	10,649.00	12,749.13	11,619.00	35.76	34.35	179.96	1,092.31	1,206.48	970.00	915.68	54.32	17.858	
11,900.00	10,649.00	12,849.13	11,619.00	36.51	35.11	179.96	1,192.31	1,205.77	970.00	914.83	55.17	17.583	
12,000.00	10,649.00	12,949.13	11,619.00	37.29	35.91	179.96	1,292.30	1,205.07	970.00	913.95	56.05	17.307	
12,100.00	10,649.00	13,049.13	11,619.00	38.11	36.74	179.96	1,392.30	1,204.37	970.00	913.04	56.96	17.030	
12,200.00	10,649.00	13,149.13	11,619.00	38.96	37.61	179.96	1,492.30	1,203.66	970.00	912.11	57.90	16.754	
12,300.00	10,649.00	13,249.13	11,619.00	39.84	38.51	179.96	1,592.30	1,202.96	970.00	911.14	58.86	16.480	
12,400.00	10,649.00	13,349.13	11,619.00	40.76	39.44	179.96	1,692.29	1,202.25	970.00	910.15	59.85	16.207	
12,500.00	10,649.00	13,449.13	11,619.00	41.69	40.39	179.96	1,792.29	1,201.55	970.00	909.14	60.86	15.937	
12,600.00	10,649.00	13,549.13	11,619.00	42.66	41.38	179.96	1,892.29	1,200.84	970.00	908.10	61.90	15.670	
12,700.00	10,649.00	13,649.13	11,619.00	43.64	42.38	179.96	1,992.29	1,200.14	970.00	907.04	62.96	15.406	
12,800.00	10,649.00	13,749.13	11,619.00	44.65	43.42	179.96	2,092.28	1,199.43	970.00	905.96	64.04	15.146	
12,900.00	10,649.00	13,849.13	11,619.00	45.68	44.47	179.96	2,192.28	1,198.73	970.00	904.86	65.14	14.890	
13,000.00	10,649.00	13,949.13	11,619.00	46.73	45.54	179.96	2,292.28	1,198.02	970.00	903.74	66.26	14.639	
13,100.00	10,649.00	14,049.13	11,619.00	47.80	46.63	179.96	2,392.28	1,197.32	970.00	902.60	67.40	14.392	
13,200.00	10,649.00	14,149.13	11,619.00	48.89	47.74	179.96	2,492.28	1,196.62	970.00	901.45	68.55	14.149	
13,300.00	10,649.00	14,249.13	11,619.00	49.99	48.87	179.96	2,592.27	1,195.91	970.00	900.28	69.73	13.912	
13,400.00	10,649.00	14,349.13	11,619.00	51.11	50.01	179.96	2,692.27	1,195.21	970.00	899.09	70.91	13.679	
13,500.00	10,649.00	14,449.13	11,619.00	52.24	51.17	179.96	2,792.27	1,194.50	970.00	897.89	72.11	13.451	
13,600.00	10,649.00	14,549.13	11,619.00	53.39	52.33	179.97	2,892.27	1,193.80	970.00	896.68	73.33	13.229	
13,700.00	10,649.00	14,649.13	11,619.00	54.55	53.52	179.97	2,992.26	1,193.09	970.00	895.45	74.55	13.011	
13,800.00	10,649.00	14,749.13	11,619.00	55.72	54.71	179.97	3,092.26	1,192.39	970.00	894.21	75.79	12.798	
13,900.00	10,649.00	14,849.13	11,619.00	56.90	55.92	179.97	3,192.26	1,191.68	970.00	892.96	77.05	12.590	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 804H - OH - Plan 1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.00	10,649.00	14,949.13	11,619.00	58.10	57.14	179.97	3,292.26	1,190.98	970.00	891.69	78.31	12.387	
14,100.00	10,649.00	15,049.13	11,619.00	59.30	58.36	179.97	3,392.25	1,190.27	970.00	890.42	79.58	12.188	
14,200.00	10,649.00	15,149.13	11,619.00	60.52	59.60	179.97	3,492.25	1,189.57	970.00	889.13	80.87	11.995	
14,300.00	10,649.00	15,249.13	11,619.00	61.74	60.84	179.97	3,592.25	1,188.87	970.00	887.84	82.16	11.806	
14,400.00	10,649.00	15,349.13	11,619.00	62.98	62.10	179.97	3,692.25	1,188.16	970.00	886.53	83.47	11.621	
14,500.00	10,649.00	15,449.13	11,619.00	64.22	63.36	179.97	3,792.24	1,187.46	970.00	885.22	84.78	11.441	
14,600.00	10,649.00	15,549.13	11,619.00	65.47	64.63	179.97	3,892.24	1,186.75	970.00	883.90	86.10	11.265	
14,700.00	10,649.00	15,649.13	11,619.00	66.73	65.91	179.97	3,992.24	1,186.05	970.00	882.57	87.43	11.094	
14,800.00	10,649.00	15,749.13	11,619.00	67.99	67.19	179.97	4,092.24	1,185.34	970.00	881.23	88.77	10.927	
14,900.00	10,649.00	15,849.13	11,619.00	69.26	68.48	179.97	4,192.23	1,184.64	970.00	879.88	90.12	10.764	
15,000.00	10,649.00	15,949.13	11,619.00	70.54	69.77	179.97	4,292.23	1,183.93	970.00	878.53	91.47	10.605	
15,100.00	10,649.00	16,049.13	11,619.00	71.82	71.08	179.97	4,392.23	1,183.23	970.00	877.17	92.83	10.449	
15,200.00	10,649.00	16,149.13	11,619.00	73.11	72.38	179.97	4,492.23	1,182.52	970.00	875.81	94.19	10.298	
15,300.00	10,649.00	16,249.13	11,619.00	74.41	73.69	179.97	4,592.22	1,181.82	970.00	874.43	95.57	10.150	
15,400.00	10,649.00	16,349.13	11,619.00	75.71	75.01	179.97	4,692.22	1,181.12	970.00	873.06	96.94	10.006	
15,500.00	10,649.00	16,449.13	11,619.00	77.02	76.33	179.97	4,792.22	1,180.41	970.00	871.67	98.33	9.865	
15,600.00	10,649.00	16,549.13	11,619.00	78.33	77.66	179.97	4,892.22	1,179.71	970.00	870.28	99.72	9.727	
15,700.00	10,649.00	16,649.13	11,619.00	79.64	78.99	179.98	4,992.21	1,179.00	970.00	868.89	101.11	9.593	
15,800.00	10,649.00	16,749.13	11,619.00	80.96	80.32	179.98	5,092.21	1,178.30	970.00	867.49	102.51	9.462	
15,900.00	10,649.00	16,849.13	11,619.00	82.28	81.66	179.98	5,192.21	1,177.59	970.00	866.08	103.92	9.334	
16,000.00	10,649.00	16,949.13	11,619.00	83.61	83.00	179.98	5,292.21	1,176.89	970.00	864.68	105.33	9.210	
16,100.00	10,649.00	17,049.13	11,619.00	84.94	84.35	179.98	5,392.20	1,176.18	970.00	863.26	106.74	9.088	
16,200.00	10,649.00	17,149.13	11,619.00	86.28	85.69	179.98	5,492.20	1,175.48	970.00	861.84	108.16	8.968	
16,300.00	10,649.00	17,249.13	11,619.00	87.62	87.04	179.98	5,592.20	1,174.77	970.00	860.42	109.58	8.852	
16,400.00	10,649.00	17,349.13	11,619.00	88.96	88.40	179.98	5,692.20	1,174.07	970.00	859.00	111.01	8.738	
16,500.00	10,649.00	17,449.13	11,619.00	90.30	89.76	179.98	5,792.19	1,173.37	970.00	857.57	112.44	8.627	
16,600.00	10,649.00	17,549.13	11,619.00	91.65	91.12	179.98	5,892.19	1,172.66	970.00	856.13	113.87	8.519	
16,700.00	10,649.00	17,649.13	11,619.00	93.00	92.48	179.98	5,992.19	1,171.96	970.00	854.69	115.31	8.412	
16,800.00	10,649.00	17,749.13	11,619.00	94.36	93.84	179.98	6,092.19	1,171.25	970.00	853.25	116.75	8.309	
16,900.00	10,649.00	17,849.13	11,619.00	95.71	95.21	179.98	6,192.18	1,170.55	970.00	851.81	118.19	8.207	
17,000.00	10,649.00	17,949.13	11,619.00	97.07	96.58	179.98	6,292.18	1,169.84	970.00	850.36	119.64	8.108	
17,100.00	10,649.00	18,049.13	11,619.00	98.43	97.95	179.98	6,392.18	1,169.14	970.00	848.91	121.09	8.011	
17,200.00	10,649.00	18,149.13	11,619.00	99.80	99.33	179.98	6,492.18	1,168.43	970.00	847.46	122.54	7.916	
17,300.00	10,649.00	18,249.13	11,619.00	101.16	100.70	179.98	6,592.17	1,167.73	970.00	846.00	124.00	7.823	
17,400.00	10,649.00	18,349.13	11,619.00	102.53	102.08	179.98	6,692.17	1,167.02	970.00	844.55	125.46	7.732	
17,500.00	10,649.00	18,449.13	11,619.00	103.90	103.46	179.98	6,792.17	1,166.32	970.00	843.08	126.92	7.643	
17,600.00	10,649.00	18,549.13	11,619.00	105.27	104.84	179.98	6,892.17	1,165.62	970.00	841.62	128.38	7.556	
17,700.00	10,649.00	18,649.13	11,619.00	106.65	106.22	179.98	6,992.16	1,164.91	970.00	840.15	129.85	7.470	
17,800.00	10,649.00	18,749.13	11,619.00	108.02	107.61	179.99	7,092.16	1,164.21	970.00	838.69	131.32	7.387	
17,900.00	10,649.00	18,849.13	11,619.00	109.40	109.00	179.99	7,192.16	1,163.50	970.00	837.21	132.79	7.305	
18,000.00	10,649.00	18,949.13	11,619.00	110.78	110.38	179.99	7,292.16	1,162.80	970.00	835.74	134.26	7.225	
18,100.00	10,649.00	19,049.13	11,619.00	112.16	111.77	179.99	7,392.15	1,162.09	970.00	834.27	135.74	7.146	
18,200.00	10,649.00	19,149.13	11,619.00	113.54	113.16	179.99	7,492.15	1,161.39	970.00	832.79	137.21	7.069	
18,300.00	10,649.00	19,249.13	11,619.00	114.93	114.56	179.99	7,592.15	1,160.68	970.00	831.31	138.69	6.994	
18,400.00	10,649.00	19,349.13	11,619.00	116.31	115.95	179.99	7,692.15	1,159.98	970.00	829.83	140.17	6.920	
18,500.00	10,649.00	19,449.13	11,619.00	117.70	117.35	179.99	7,792.14	1,159.27	970.00	828.34	141.66	6.848	
18,600.00	10,649.00	19,549.13	11,619.00	119.09	118.74	179.99	7,892.14	1,158.57	970.00	826.86	143.14	6.776	
18,700.00	10,649.00	19,649.13	11,619.00	120.48	120.14	179.99	7,992.14	1,157.87	970.00	825.37	144.63	6.707	
18,800.00	10,649.00	19,749.13	11,619.00	121.87	121.54	179.99	8,092.14	1,157.16	970.00	823.88	146.12	6.638	
18,900.00	10,649.00	19,849.13	11,619.00	123.26	122.94	179.99	8,192.13	1,156.46	970.00	822.39	147.61	6.571	
19,000.00	10,649.00	19,949.13	11,619.00	124.66	124.34	179.99	8,292.13	1,155.75	970.00	820.90	149.10	6.506	
19,100.00	10,649.00	20,049.13	11,619.00	126.05	125.74	179.99	8,392.13	1,155.05	970.00	819.41	150.59	6.441	

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 Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Design: Treble East Pad - Treble State Com 804H - OH - Plan 1

Survey Program:		0-MWD+HDGM						Rule Assigned:				Offset Well Error:	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,200.00	10,649.00	20,149.13	11,619.00	127.45	127.14	179.99	8,492.13	1,154.34	970.00	817.91	152.09	6.378	
19,300.00	10,649.00	20,249.13	11,619.00	128.85	128.55	179.99	8,592.12	1,153.64	970.00	816.41	153.59	6.316	
19,400.00	10,649.00	20,349.13	11,619.00	130.25	129.95	179.99	8,692.12	1,152.93	970.00	814.92	155.08	6.255	
19,500.00	10,649.00	20,449.13	11,619.00	131.65	131.36	179.99	8,792.12	1,152.23	970.00	813.42	156.58	6.195	
19,600.00	10,649.00	20,549.13	11,619.00	133.05	132.77	179.99	8,892.12	1,151.52	970.00	811.92	158.09	6.136	
19,700.00	10,649.00	20,649.13	11,619.00	134.45	134.17	179.99	8,992.11	1,150.82	970.00	810.41	159.59	6.078	
19,800.00	10,649.00	20,749.13	11,619.00	135.85	135.58	179.99	9,092.11	1,150.12	970.00	808.91	161.09	6.021	
19,900.00	10,649.00	20,849.13	11,619.00	137.25	136.99	180.00	9,192.11	1,149.41	970.00	807.40	162.60	5.966	
20,000.00	10,649.00	20,949.13	11,619.00	138.66	138.40	180.00	9,292.11	1,148.71	970.00	805.90	164.10	5.911	
20,100.00	10,649.00	21,049.13	11,619.00	140.06	139.81	180.00	9,392.10	1,148.00	970.00	804.39	165.61	5.857	
20,200.00	10,649.00	21,149.13	11,619.00	141.47	141.22	180.00	9,492.10	1,147.30	970.00	802.88	167.12	5.804	
20,300.00	10,649.00	21,249.13	11,619.00	142.88	142.63	180.00	9,592.10	1,146.59	970.00	801.37	168.63	5.752	
20,400.00	10,649.00	21,349.13	11,619.00	144.28	144.05	180.00	9,692.10	1,145.89	970.00	799.86	170.14	5.701	
20,500.00	10,649.00	21,449.13	11,619.00	145.69	145.46	180.00	9,792.09	1,145.18	970.00	798.35	171.65	5.651	
20,600.00	10,649.00	21,549.13	11,619.00	147.10	146.88	180.00	9,892.09	1,144.48	970.00	796.84	173.16	5.602	
20,700.00	10,649.00	21,649.13	11,619.00	148.51	148.29	180.00	9,992.09	1,143.77	970.00	795.32	174.68	5.553	
20,800.00	10,649.00	21,749.13	11,619.00	149.92	149.71	180.00	10,092.09	1,143.07	970.00	793.81	176.19	5.505	
20,900.00	10,649.00	21,849.13	11,619.00	151.33	151.12	180.00	10,192.08	1,142.37	970.00	792.29	177.71	5.458	
20,944.71	10,649.00	21,893.84	11,619.00	151.90	151.75	180.00	10,236.79	1,142.05	970.00	791.79	178.21	5.443	



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3717.00usft

Offset Depths are relative to Offset Datum

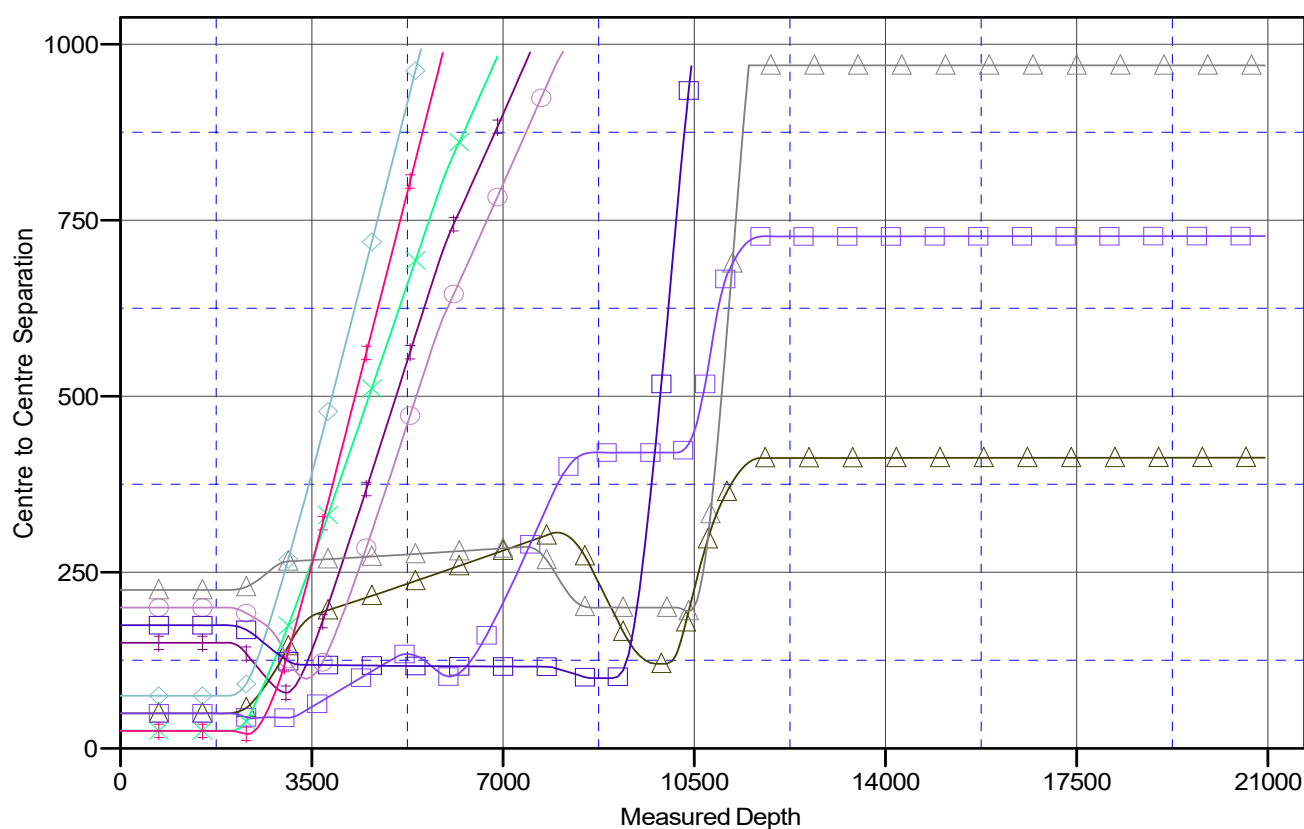
Central Meridian is -104.333334

Coordinates are relative to: Treble State Com 604H

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

Grid Convergence at Surface is: 0.48°

Ladder Plot



LEGEND

	Treble State Com 504H, OH, Plan 1 V0		Treble State Com 503H, OH, Plan 1 V0		Treble State Com 703H, OH, Plan 1 V0
	Treble State Com 303H, OH, Plan 1 V0		Treble State Com 603H, OH, Plan 1 V0		Treble State Com 704H, OH, Plan 1 V0
	Treble State Com 803H, OH, Plan 1 V0		Treble State Com 804H, OH, Plan 1 V0		Treble State Com 304H, OH, Plan 1 V0



Altitude Energy Partners

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Treble State Com 604H
Project:	Lea Co., NM (NAD-83)	TVD Reference:	KB=30' @ 3717.00usft
Reference Site:	Treble East Pad	MD Reference:	KB=30' @ 3717.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Treble State Com 604H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	DM Local
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3717.00usft

Offset Depths are relative to Offset Datum

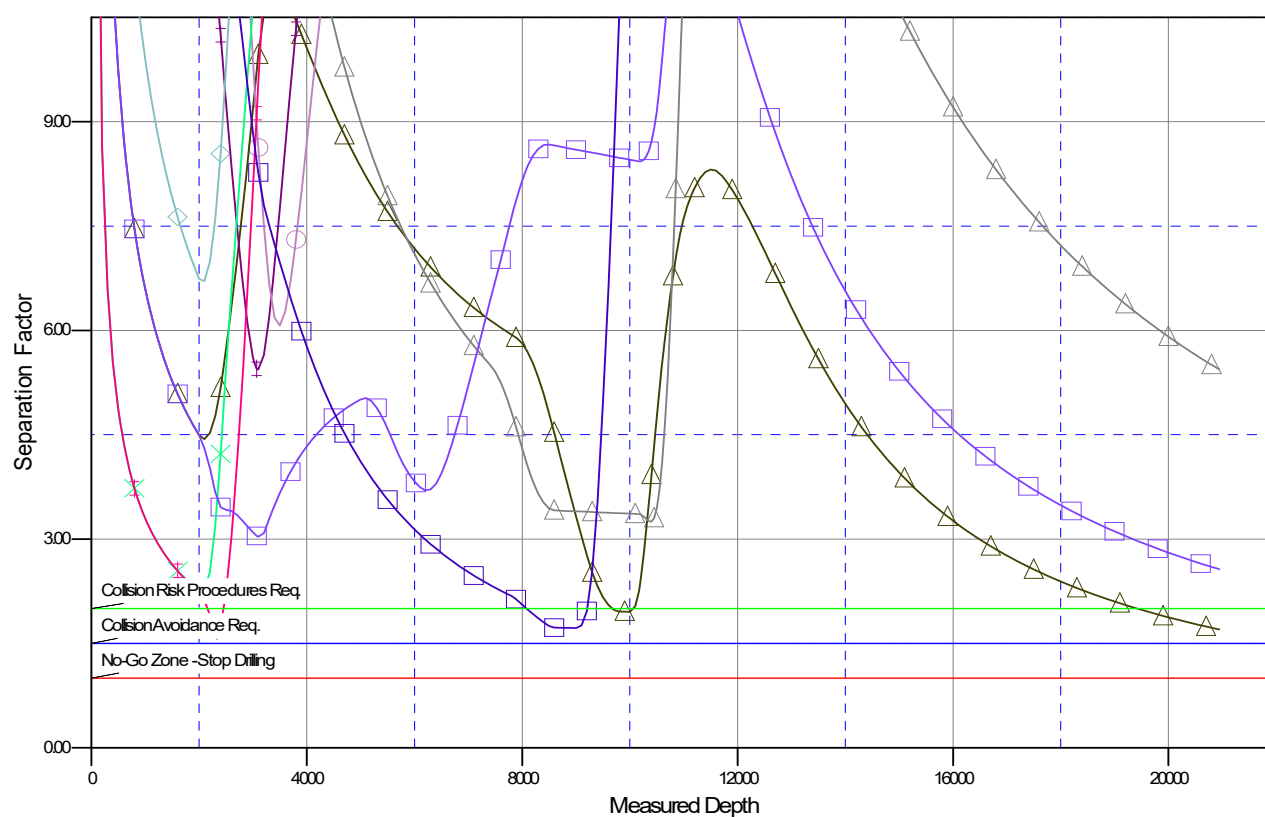
Central Meridian is -104.333334

Coordinates are relative to: Treble State Com 604H

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

Grid Convergence at Surface is: 0.48°

Separation Factor Plot



LEGEND

Treble State Com 504H, OH, Plan 1 V0	Treble State Com 503H, OH, Plan 1 V0	Treble State Com 703H, OH, Plan 1 V0
Treble State Com 303H, OH, Plan 1 V0	Treble State Com 603H, OH, Plan 1 V0	Treble State Com 704H, OH, Plan 1 V0
Treble State Com 803H, OH, Plan 1 V0	Treble State Com 604H, OH, Plan 1 V0	Treble State Com 304H, OH, Plan 1 V0