**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 340653

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

| 1. Operator Name and Address | 2. OGRID Number |
|---|---|
| Franklin Mountain Energy 3, LLC<br>44 Cook Street<br>Denver, CO 80206 | 331595 |
| | 3. API Number<br>30-025-51512 |

| 4. Property Code | 5. Property Name | 6. Well No. |
|---|---|---|
| 333786 | TREBLE STATE COM | 803H |

**7. Surface Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| O | 34 | 19S | 35E | O | 250 | S | 1375 | E | Lea |

**8. Proposed Bottom Hole Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|---|---|---|---|---|---|---|---|---|---|
| B | 27 | 19S | 35E | B | 130 | N | 1680 | E | Lea |

**9. Pool Information**

| | |
|---|---|
| KLEIN RANCH;WOLFCAMP | 96989 |

**Additional Well Information**

| 11. Work Type | 12. Well Type | 13. Cable/Rotary | 14. Lease Type | 15. Ground Level Elevation |
|---|---|---|---|---|
| New Well | OIL | | State | 3686 |
| **16. Multiple** | **17. Proposed Depth** | **18. Formation** | **19. Contractor** | **20. Spud Date** |
| N | 21828 | Wolfcamp | | 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 | 11000 | 567 | 3000 |
| Prod | 8.75 | 5.5 | 20 | 21828 | 2702 | 11000 |

**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.** Signature: | | | **OIL CONSERVATION DIVISION** | | |
|---|---|---|---|---|---|
| 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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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

| [1] API Number | [2] Pool Code | [3] Pool Name |
|---|---|---|
| | 96989 | KLEIN RANCH;WOLFCAMP |

| [4] Property Code | [5] Property Name | [6] Well Number |
|---|---|---|
| | TREBLE STATE COM | 803H |

| [7] OGRID No. | [8] Operator Name | [9] Elevation |
|---|---|---|
| 331595 | FRANKLIN MOUNTAIN ENERGY 3, LLC | 3686.6' |

### [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 | 1375 | EAST | LEA |

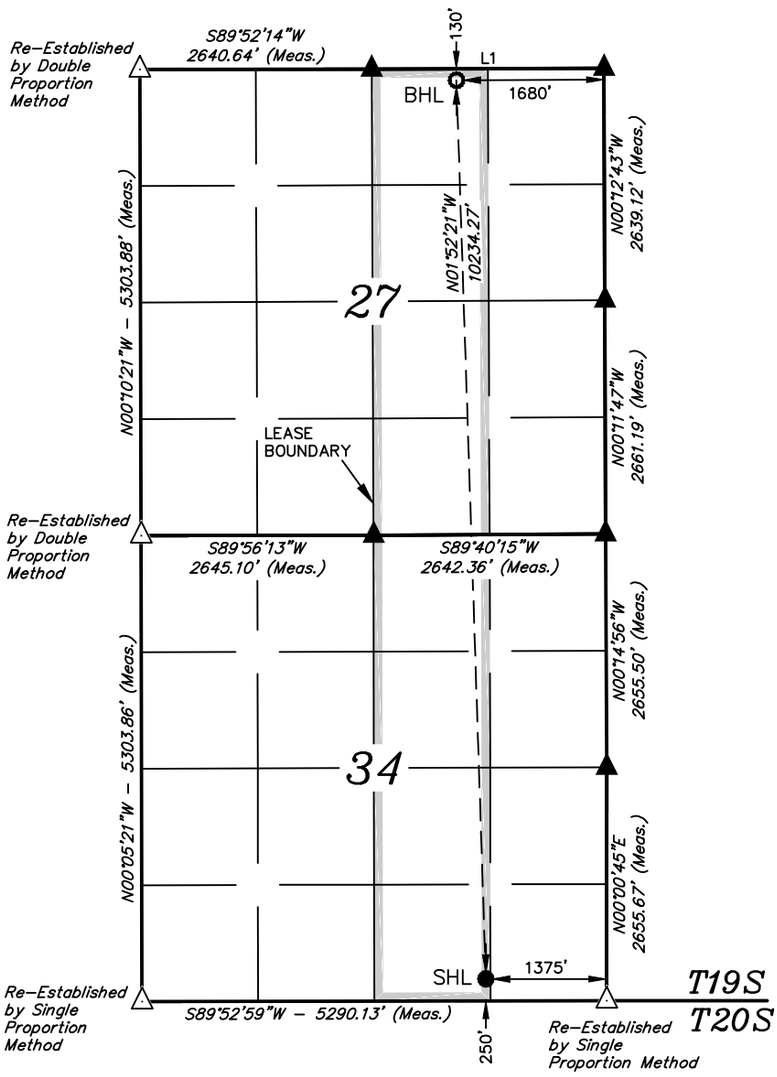
### [11] Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| B | 27 | 19S | 35E | | 130 | NORTH | 1680 | EAST | LEA |

| [12] Dedicated Acres | [13] Joint or Infill | [14] Consolidation Code | [15] Order No. |
|---|---|---|---|
| 320 | | | |

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.

[16]




| 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) | NAD 83 (BOTTOM HOLE LOCATION) |
|---|---|
| LATITUDE = 32°36'36.87" (32.610241°) | LATITUDE = 32°38'18.08" (32.638354°) |
| LONGITUDE = -103°26'27.64" (-103.441012°) | LONGITUDE = -103°26'31.06" (-103.441960°) |
| **NAD 27 (SURFACE HOLE LOCATION)** | **NAD 27 (BOTTOM HOLE LOCATION)** |
| LATITUDE = 32°36'36.42" (32.610118°) | LATITUDE = 32°38'17.63" (32.638231°) |
| LONGITUDE = -103°26'25.89" (-103.440525°) | LONGITUDE = -103°26'29.30" (-103.441472°) |
| **STATE PLANE NAD 83 (N.M. EAST)** | **STATE PLANE NAD 83 (N.M. EAST)** |
| N: 586889.73' E: 816103.34' | N: 597115.41' E: 815725.67' |
| **STATE PLANE NAD 27 (N.M. EAST)** | **STATE PLANE NAD 27 (N.M. EAST)** |
| N: 586826.87' E: 774922.22' | N: 597052.28' E: 774544.89' |

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.*

Signature 4/18/2023 Date

Rachael Overbey
Printed Name

roverbey@fmellc.com
E-mail Address

### [18] SURVEYOR CERTIFICATION

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

April 5, 2023
Date of Survey

Signature and Seal of Professional Surveyor:


Certificate Number:

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

Form APD Conditions

Permit 340653

## PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|---|---|
| Franklin Mountain Energy 3, LLC [331595]<br>44 Cook Street<br>Denver, CO 80206 | 30-025-51512 |
| | Well: TREBLE STATE COM #803H |

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

FRANKLIN MOUNTAIN ENERGY

# Treble State Com 803H

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 | 1,909' | 1,808' | | | Carbonates |
| Salado | 1,648' | 2,069' | | | Salt, Carbonate & Clastics |
| Base Salt | 475' | 3,242' | | | Shaley Carbonate & Shale |
| Yates | 196' | 3,521' | | | Anhydrite/shale |
| Seven Rivers | -365' | 4,082' | | | Interbedded shale/carbonate |
| Queen | -936' | 4,653' | | | Sandstone & dolomite & anhydrite |
| Delaware Mtn Group | -2,404' | 6,121' | | | Sand/carb/shales - oil/gas/water |
| Bone Spring Lime | -4,251' | 7,968' | | | Shale/Carbonates - oil/gas |
| First Bone Spring Sand | -5,706' | 9,423' | | | Sandstone - oil/gas/water |
| Second Bone Spring Carbonate | -5,988' | 9,705' | | | Shale/Carbonates - oil/gas |
| Second Bone Spring Sand | -6,291' | 10,007' | | | Sandstone - oil/gas/water |
| Third Bone Spring Carbonate | -6,849' | 10,566' | | | Shale/Carbonates - oil/gas |
| Third Bone Spring Sand | -6,915' | 10,632' | | | Sandstone - oil/gas/water |
| Wolfcamp | -7,009' | 10,726' | | | Overpressure shale/sand- Oil/Gas |
| Wolfcamp B | -7,331' | 11,048' | | | Overpressure Shale - Oil/Gas |
| **HZ Target** | -7,911' | 11,628' | | | Overpressure Shale - Oil/Gas |
| Wolfcamp C | -7,992' | 11,709' | | | Overpressure Shale - Oil/Gas |

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

| | | |
|---|---|---|
| Upper Permian Sands | 0- 400’ | Fresh Water |
| Delaware Sands | 6,121’ | Oil |
| 1st Bone Spring Sand | 9,423’ | Oil |
| 2nd Bone Spring Sand | 10,007’ | Oil |
| 3rd Bone Spring Sand | 10,632’ | Oil |
| Wolfcamp | 10,726’ | Oil |
| Wolfcamp B | 11,048’ | 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 |
| | | | | | | BTC | | | | | |
| Surface 13 3/8" | 54.5 | J-55 | 2730 | 1130 | 853 | 909 | 1900 | 1.02 | 1.14 | 4.19 | 4.47 |
| 0-1,900' | | | | | | | | | | | |
| | | | | | | BTC | | | | | |
| Intermediate 9 5/8" | 40 | HCL-80 | 7430 | 4230 | 916 | 1042 | 4000 | 2.08 | 2.26 | 3.52 | 4.01 |
| 0-4,000' | | | | | | | | | | | |
| | | | | | | CDC-HTQ | | | | | |
| Production 7" | 32 | HCP-110 | 12460 | 10760 | 1025 | 1053 | 11000 | 1.82 | 2.09 | 2.27 | 2.33 |
| 0-11,000' | | | | | | | | | | | |
| | | | | | | CDC-HTQ | | | | | |
| Production 5 1/2" | 20 | HCP-110 | 12640 | 12200 | 641 | 667 | 10828 | 1.15 | 2.41 | 2.02 | 2.11 |
| 11,000'-21,828' | | | | | | **TVD** | 11628 | | | | 2.01 |

Tapered production string will be ran with a X-over installed at the KOP of 11,000'.

**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 | Casing Setting Depth | Sacks | Lead Type of cmt | Lead Yield ft3/sk | Lead Water gal/sk | Lead TOC ft | Tail Sacks | Tail Type of cmt | Tail Yield ft3/sk | Tail Water gal/sk | Tail 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%CaCl2, 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 | 0-11000 | 567 | 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 | 11000-21828 | | | | | | 2702 | HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal | 1.52 | 7.59 | 11000 | 50% |

**Contingency plan:**

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

**4.a Contingency Casing Program**

| Casing string | Weight | Grade | Burst | Collapse | Tension | Conn | Length | API design factor | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Burst | Collapse | Tension | Coupling |
| | | | | | | BTC | | | | | |
| Surface 13 3/8" | 54.5 | J-55 | 2730 | 1130 | 853 | 909 | 1900 | 1.02 | 1.14 | 4.19 | 4.47 |
| 0-1,900' | | | | | | | | | | | |
| | | | | | | BTC | | | | | |
| Intermediate 9 5/8" | 40 | HCL-80 | 7430 | 4230 | 916 | 1042 | 8000 | 1.31 | 1.13 | 2.18 | 2.48 |
| 0-8,000' | | | | | | | | | | | |
| | | | | | | CDC-HTQ | | | | | |
| Production 7" | 32 | HCP-110 | 12460 | 10760 | 1025 | 1053 | 11000 | 1.82 | 2.09 | 2.27 | 2.33 |
| 0-11,000' | | | | | | | | | | | |
| | | | | | | CDC-HTQ | | | | | |
| Production 5 1/2" | 20 | HCP-110 | 12640 | 12200 | 641 | 667 | 10828 | 1.15 | 2.41 | 2.02 | 2.11 |
| 11,000'-21,828' | | | | | | **TVD** | 11628 | | | | 2.01 |

FRANKLIN MOUNTAIN ENERGY

**Contingency Cementing Program:**

| String Type | Hole Size | Casing Size | Setting Depth | Sacks | Lead Type of cmt | Lead Yield ft3/sk | Lead Water gal/sk | Lead TOC ft | Tail Sacks | Tail Type of cmt | Tail Yield ft3/sk | Tail Water gal/sk | Tail 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%CaCl2, 0.1% | 1.34 | 6.35 | 1500 | 100% |
| Int St 1 | 12.25 | 9.625 | 8000 | 823 | Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal | 2.74 | 16.31 | 4000 | 188 | Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51 | 1.33 | 6.33 | 7600 | 100% |
| Int St 2 | 12.25 | 9.625 | 4000 | 732 | Lead, 11.3 ppg, HSLD 82 10% Gel, 4%STE, 2#/sk, Gyp Seal | 2.74 | 16.31 | 0 | | | | | | 100% |
| Prod | 8.75 | 7 | 0-11000 | 266 | HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45 | 3.99 | 25.51 | 7000 | | | | | | 100% |
| Prod | 8.75 | 5.5 | 11000-21828 | | | | | | 2702 | HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal | 1.52 | 7.59 | 11000 | 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.

FRANKLIN MOUNTAIN ENERGY

**6. Types and characteristics of the proposed mud system:**

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

| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|
| 0 – 1,900' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,900' – 4,000' | Brine | 8.8-10.2 | 28-34 | N/c |
| 4,000' – 21,828' Lateral | Oil Base | 9.0-11.0 | 58-68 | 3 - 6 |

**Contingency mud system:**

| Depth | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|
| 0 – 1,900' | Fresh - Gel | 8.6-8.8 | 28-34 | N/c |
| 1,900' – 8,000' | Brine | 8.8-10.2 | 28-34 | N/c |
| 8,000' – 21,828' Lateral | Oil Base | 9.0-11.0 | 58-68 | 3 - 6 |

The highest mud weight needed to balance formation is expected to be 10-11 ppg. In order to maintain hole stability, mud weights up to 12 ppg may be utilized.
An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.
Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

**7. Auxiliary well control and monitoring equipment:**

(A) A kelly cock will be kept in the drill string at all times.
(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
(C) H2S monitoring and detection equipment will be utilized from surface casing point to TD.
(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

**8. Logging, testing and coring program:**

GR–CCL-CNL Will be run in cased hole during completions phase of operations.
Open-hole logs are not planned for this well.

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

The estimated bottom-hole temperature at 11,628' TVD (deepest point of the well) is 165F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,255 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.

FRANKLIN MOUNTAIN ENERGY

iii. Mud/gas separator

b. Protective equipment for essential personnel
   i. Breathing Apparatus
      1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
      2. Work/Escape packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
      3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
   ii. Auxiliary Rescue Equipment
      1. Stretcher
      2. Two OSHA full body harnesses
      3. 100 feet of 5/8 inches OSHA approved rope
      4. 1-20# class ABC fire extinguisher
c. H2S Detection and Monitoring Equipment
   i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
      1. Rig Floor
      2. Below Rig Floor / Near BOPs
      3. End of flow line or where well bore fluid is being discharged (near shakers)
   ii. If H2S is encountered, measured values and formations will be provided to the BLM.
d. Visual Warning Systems
   i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
   ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
   iii. Two windsocks will be placed in strategic locations, visible from all angles.
e. Mud Program
   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.

FRANKLIN MOUNTAIN ENERGY

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

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

**12. Disposal/environmental concerns:**

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

**13. Wellhead:**

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

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

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

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

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

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

**14. Additional variance requests**

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 ½" production casing due to the tight clearance with 8 3/4" hole.

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

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

## Section 1 – Plan Description
**Effective May 25, 2021**

**I. Operator:** ___Franklin Mountain 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

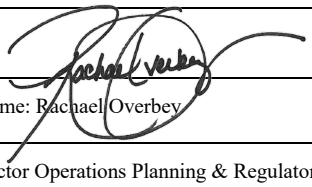
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

**(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@fmellc.com |
| Date: 5/17/2023 |
| Phone: 720-414-7868 |

| **OIL CONSERVATION DIVISION**<br>**(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 |
| | | | | | | |

FRANKLIN MOUNTAIN ENERGY

# Natural Gas Management Plan

**Items VI-VIII**

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

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

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

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

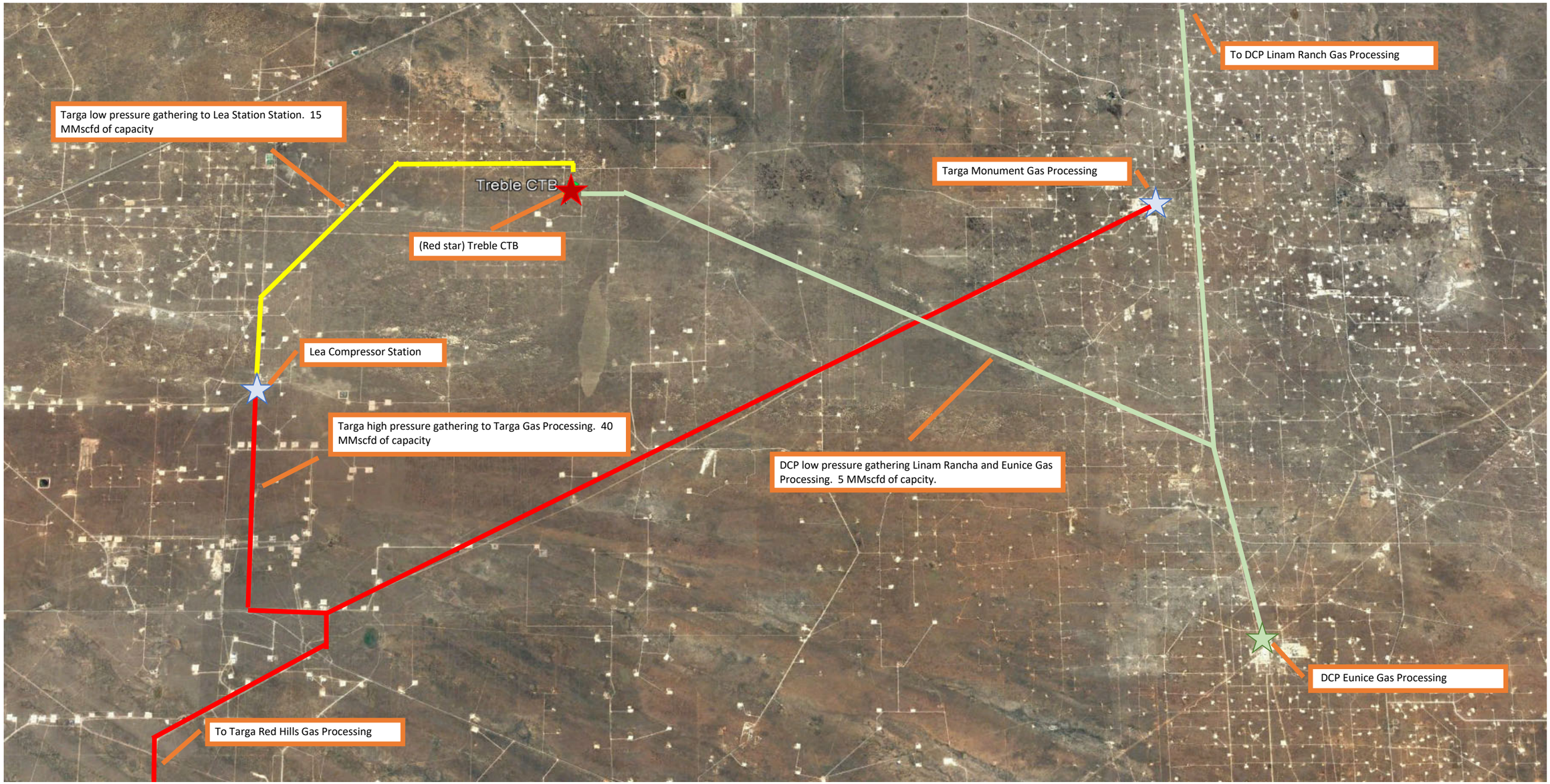
FRANKLIN MOUNTAIN ENERGY

- 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 803H**

**OH**

**Plan: Plan 1**

# Standard Planning Report

**16 May, 2023**

Plan #1

FRANKLIN MOUNTAIN ENERGY

Project: Lea Co., NM (NAD-83)
Site: Treble East Pad
Well: Treble State Com 803H
Wellbore: OH
Design: Plan 1
Lat: 32.610241
Long: -103.441012
GL: 3687.00
KB: KB=30' @ 3717.00usft

ALTITUDE ENERGY PARTNERS



WELL DETAILS: Treble State Com 803H

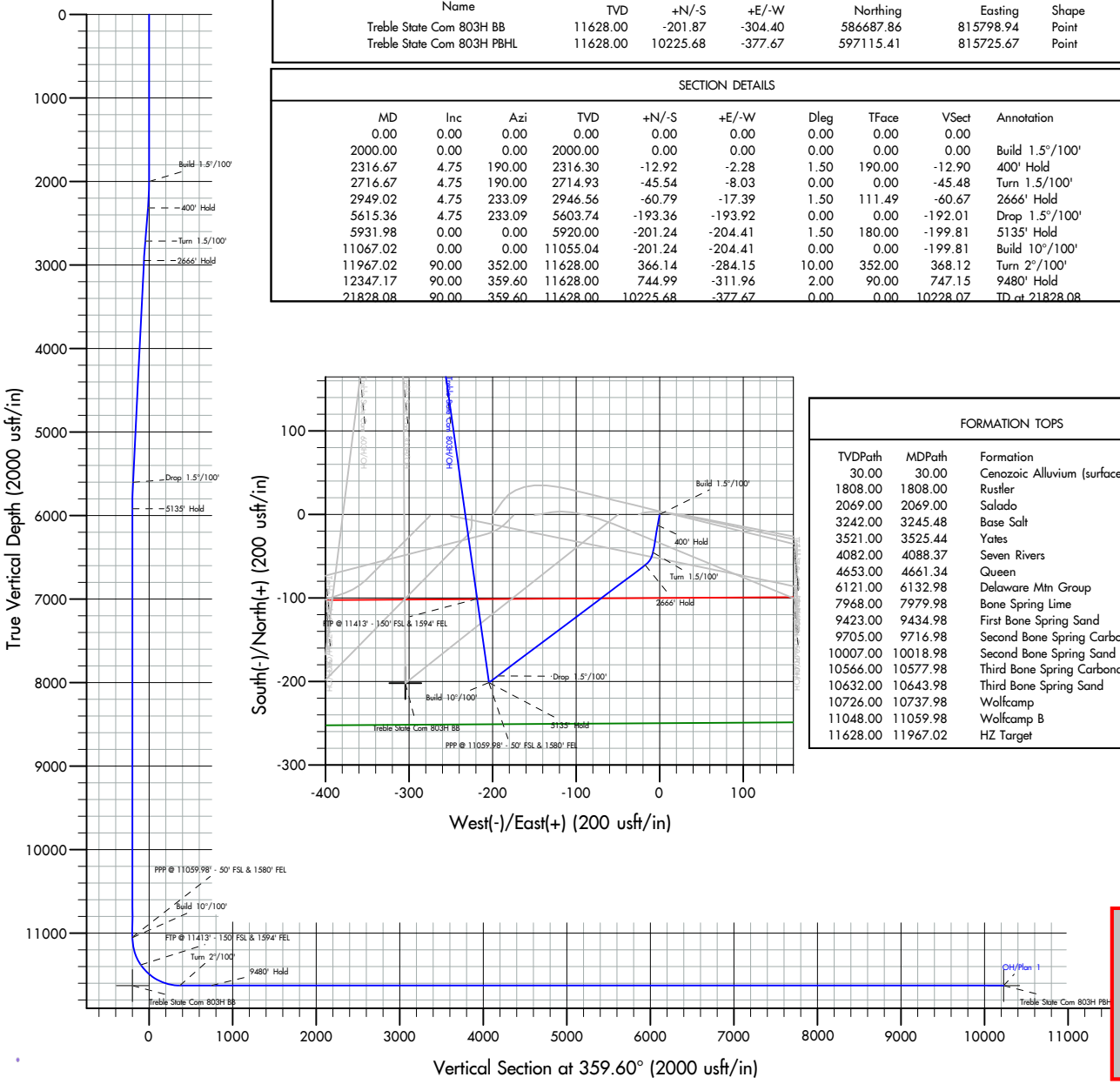
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|
| 0.00 | 0.00 | 586889.73 | 816103.34 | 32.610241 | -103.441012 |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Shape |
|---|---|---|---|---|---|---|
| Treble State Com 803H BB | 11628.00 | -201.87 | -304.40 | 586687.86 | 815798.94 | Point |
| Treble State Com 803H PBHL | 11628.00 | 10225.68 | -377.67 | 597115.41 | 815725.67 | 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' |
| 2316.67 | 4.75 | 190.00 | 2316.30 | -12.92 | -2.28 | 1.50 | 190.00 | -12.90 | 400' Hold |
| 2716.67 | 4.75 | 190.00 | 2714.93 | -45.54 | -8.03 | 0.00 | 0.00 | -45.48 | Turn 1.5/100' |
| 2949.02 | 4.75 | 233.09 | 2946.56 | -60.79 | -17.39 | 1.50 | 111.49 | -60.67 | 2666' Hold |
| 5615.36 | 4.75 | 233.09 | 5603.74 | -193.36 | -193.92 | 0.00 | 0.00 | -192.01 | Drop 1.5°/100' |
| 5931.98 | 0.00 | 0.00 | 5920.00 | -201.24 | -204.41 | 1.50 | 180.00 | -199.81 | 5135' Hold |
| 11067.02 | 0.00 | 0.00 | 11055.04 | -201.24 | -204.41 | 0.00 | 0.00 | -199.81 | Build 10°/100' |
| 11967.02 | 90.00 | 352.00 | 11628.00 | 366.14 | -284.15 | 10.00 | 352.00 | 368.12 | Turn 2°/100' |
| 12347.17 | 90.00 | 359.60 | 11628.00 | 744.99 | -311.96 | 2.00 | 90.00 | 747.15 | 9480' Hold |
| 21828.08 | 90.00 | 359.60 | 11628.00 | 10225.68 | -377.67 | 0.00 | 0.00 | 10228.07 | TD at 21828.08 |

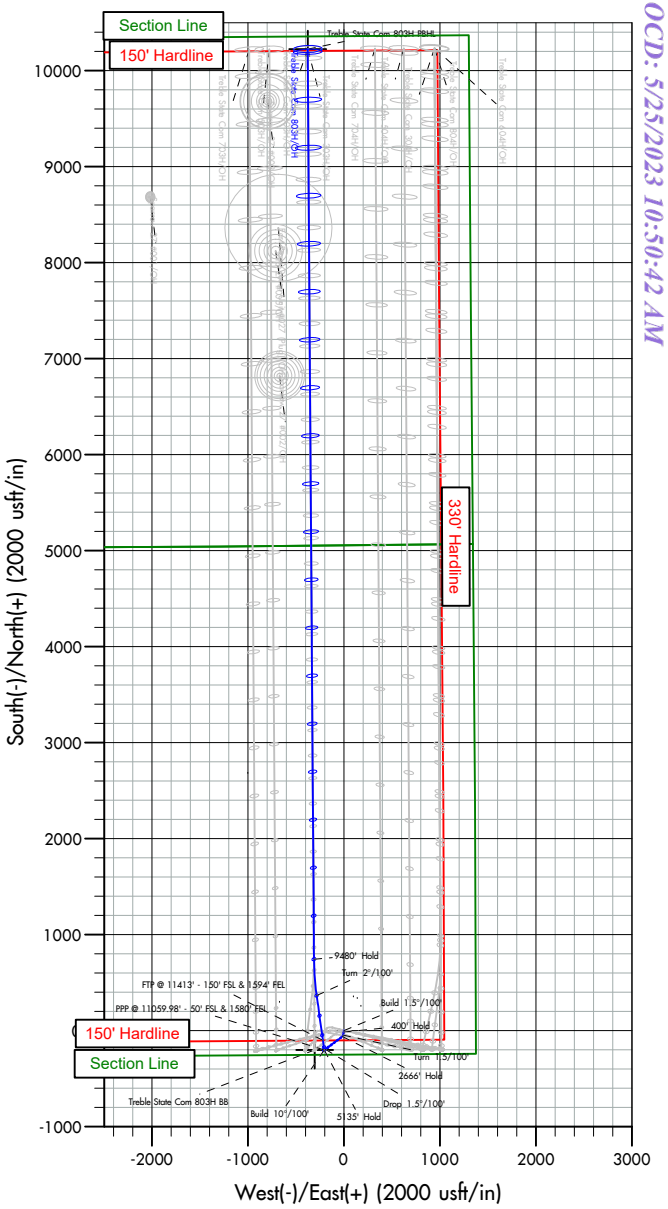


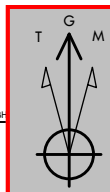




FORMATION TOPS

| TVDPath | MDPath | Formation |
|---|---|---|
| 30.00 | 30.00 | Cenozoic Alluvium (surface) |
| 1808.00 | 1808.00 | Rustler |
| 2069.00 | 2069.00 | Salado |
| 3242.00 | 3245.48 | Base Salt |
| 3521.00 | 3525.44 | Yates |
| 4082.00 | 4088.37 | Seven Rivers |
| 4653.00 | 4661.34 | Queen |
| 6121.00 | 6132.98 | Delaware Mtn Group |
| 7968.00 | 7979.98 | Bone Spring Lime |
| 9423.00 | 9434.98 | First Bone Spring Sand |
| 9705.00 | 9716.98 | Second Bone Spring Carbonate |
| 10007.00 | 10018.98 | Second Bone Spring Sand |
| 10566.00 | 10577.98 | Third Bone Spring Carbonate |
| 10632.00 | 10643.98 | Third Bone Spring Sand |
| 10726.00 | 10737.98 | Wolfcamp |
| 11048.00 | 11059.98 | Wolfcamp B |
| 11628.00 | 11967.02 | HZ Target |




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

Magnetic Field
Strength: 47650.5nT
Dip Angle: 60.42°
Date: 5/16/2023
Model: HRGM

Plan: Plan 1 (Treble State Com 803H/OH)
Created By: Dusty Moyer Date: 19:42, May 16 2023

# Altitude Energy Partners
## Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 803H

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 usft | **Northing:** | 586,889.73 usft | **Latitude:** | 32.610242 |
| | **+E/-W** | 0.00 usft | **Easting:** | 816,103.34 usft | **Longitude:** | -103.441013 |
| **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 | 47,650.49213267 |

**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 | 21,827.38 | Plan 1 (OH) | MWD+HDGM<br>OWSG MWD + HRGM | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 | |
| 2,316.67 | 4.75 | 190.00 | 2,316.30 | -12.92 | -2.28 | 1.50 | 1.50 | 0.00 | 190.00 | |
| 2,716.67 | 4.75 | 190.00 | 2,714.93 | -45.54 | -8.03 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,949.02 | 4.75 | 233.09 | 2,946.56 | -60.79 | -17.39 | 1.50 | 0.00 | 18.55 | 111.49 | |
| 5,615.36 | 4.75 | 233.09 | 5,603.74 | -193.36 | -193.92 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,931.98 | 0.00 | 0.00 | 5,920.00 | -201.24 | -204.41 | 1.50 | -1.50 | 0.00 | 180.00 | |
| 11,067.02 | 0.00 | 0.00 | 11,055.04 | -201.24 | -204.41 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 11,967.02 | 90.00 | 352.00 | 11,628.00 | 366.14 | -284.15 | 10.00 | 10.00 | 0.00 | 352.00 | |
| 12,347.17 | 90.00 | 359.60 | 11,628.00 | 744.99 | -311.96 | 2.00 | 0.00 | 2.00 | 90.00 | |
| 21,828.09 | 90.00 | 359.60 | 11,628.00 | 10,225.68 | -377.67 | 0.00 | 0.00 | 0.00 | 0.00 | Treble State Com 8 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 |
| 1,808.00 | 0.00 | 0.00 | 1,808.00 | 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'** | | | | | | | | | |
| 2,069.00 | 1.04 | 190.00 | 2,069.00 | -0.61 | -0.11 | -0.61 | 1.50 | 1.50 | 0.00 |
| **Salado** | | | | | | | | | |
| 2,100.00 | 1.50 | 190.00 | 2,099.99 | -1.29 | -0.23 | -1.29 | 1.50 | 1.50 | 0.00 |
| 2,200.00 | 3.00 | 190.00 | 2,199.91 | -5.16 | -0.91 | -5.15 | 1.50 | 1.50 | 0.00 |
| 2,300.00 | 4.50 | 190.00 | 2,299.69 | -11.60 | -2.04 | -11.58 | 1.50 | 1.50 | 0.00 |
| 2,316.67 | 4.75 | 190.00 | 2,316.30 | -12.92 | -2.28 | -12.90 | 1.50 | 1.50 | 0.00 |
| **400' Hold** | | | | | | | | | |
| 2,400.00 | 4.75 | 190.00 | 2,399.35 | -19.72 | -3.48 | -19.69 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 4.75 | 190.00 | 2,499.01 | -27.87 | -4.91 | -27.84 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 4.75 | 190.00 | 2,598.66 | -36.03 | -6.35 | -35.98 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 4.75 | 190.00 | 2,698.32 | -44.18 | -7.79 | -44.12 | 0.00 | 0.00 | 0.00 |
| 2,716.67 | 4.75 | 190.00 | 2,714.93 | -45.54 | -8.03 | -45.48 | 0.00 | 0.00 | 0.00 |
| **Turn 1.5/100'** | | | | | | | | | |
| 2,800.00 | 4.45 | 205.18 | 2,798.00 | -51.86 | -10.00 | -51.79 | 1.50 | -0.36 | 18.21 |
| 2,900.00 | 4.53 | 224.40 | 2,897.70 | -58.19 | -14.42 | -58.09 | 1.50 | 0.09 | 19.22 |
| 2,949.02 | 4.75 | 233.09 | 2,946.56 | -60.79 | -17.39 | -60.67 | 1.50 | 0.44 | 17.73 |
| **2666' Hold** | | | | | | | | | |
| 3,000.00 | 4.75 | 233.09 | 2,997.36 | -63.33 | -20.77 | -63.18 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 4.75 | 233.09 | 3,097.02 | -68.30 | -27.39 | -68.11 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 4.75 | 233.09 | 3,196.68 | -73.27 | -34.01 | -73.03 | 0.00 | 0.00 | 0.00 |
| 3,245.48 | 4.75 | 233.09 | 3,242.00 | -75.53 | -37.02 | -75.27 | 0.00 | 0.00 | 0.00 |
| **Base Salt** | | | | | | | | | |
| 3,300.00 | 4.75 | 233.09 | 3,296.33 | -78.25 | -40.63 | -77.96 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 4.75 | 233.09 | 3,395.99 | -83.22 | -47.25 | -82.89 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 4.75 | 233.09 | 3,495.65 | -88.19 | -53.87 | -87.81 | 0.00 | 0.00 | 0.00 |
| 3,525.44 | 4.75 | 233.09 | 3,521.00 | -89.45 | -55.56 | -89.06 | 0.00 | 0.00 | 0.00 |
| **Yates** | | | | | | | | | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 3,600.00 | 4.75 | 233.09 | 3,595.30 | -93.16 | -60.49 | -92.74 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 4.75 | 233.09 | 3,694.96 | -98.13 | -67.11 | -97.66 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 4.75 | 233.09 | 3,794.62 | -103.11 | -73.73 | -102.59 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 4.75 | 233.09 | 3,894.27 | -108.08 | -80.36 | -107.51 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 4.75 | 233.09 | 3,993.93 | -113.05 | -86.98 | -112.44 | 0.00 | 0.00 | 0.00 |
| 4,088.38 | 4.75 | 233.09 | 4,082.00 | -117.44 | -92.83 | -116.79 | 0.00 | 0.00 | 0.00 |
| **Seven Rivers** | | | | | | | | | |
| 4,100.00 | 4.75 | 233.09 | 4,093.59 | -118.02 | -93.60 | -117.36 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 4.75 | 233.09 | 4,193.24 | -122.99 | -100.22 | -122.29 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 4.75 | 233.09 | 4,292.90 | -127.97 | -106.84 | -127.22 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 4.75 | 233.09 | 4,392.56 | -132.94 | -113.46 | -132.14 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 4.75 | 233.09 | 4,492.21 | -137.91 | -120.08 | -137.07 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 4.75 | 233.09 | 4,591.87 | -142.88 | -126.70 | -141.99 | 0.00 | 0.00 | 0.00 |
| 4,661.34 | 4.75 | 233.09 | 4,653.00 | -145.93 | -130.76 | -145.01 | 0.00 | 0.00 | 0.00 |
| **Queen** | | | | | | | | | |
| 4,700.00 | 4.75 | 233.09 | 4,691.53 | -147.85 | -133.32 | -146.92 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 4.75 | 233.09 | 4,791.18 | -152.82 | -139.94 | -151.84 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 4.75 | 233.09 | 4,890.84 | -157.80 | -146.56 | -156.77 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 4.75 | 233.09 | 4,990.50 | -162.77 | -153.18 | -161.70 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 4.75 | 233.09 | 5,090.15 | -167.74 | -159.80 | -166.62 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 4.75 | 233.09 | 5,189.81 | -172.71 | -166.42 | -171.55 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 4.75 | 233.09 | 5,289.47 | -177.68 | -173.04 | -176.47 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 4.75 | 233.09 | 5,389.12 | -182.66 | -179.66 | -181.40 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 4.75 | 233.09 | 5,488.78 | -187.63 | -186.29 | -186.32 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 4.75 | 233.09 | 5,588.43 | -192.60 | -192.91 | -191.25 | 0.00 | 0.00 | 0.00 |
| 5,615.36 | 4.75 | 233.09 | 5,603.74 | -193.36 | -193.92 | -192.01 | 0.00 | 0.00 | 0.00 |
| **Drop 1.5°/100'** | | | | | | | | | |
| 5,700.00 | 3.48 | 233.09 | 5,688.16 | -197.01 | -198.78 | -195.62 | 1.50 | -1.50 | 0.00 |
| 5,800.00 | 1.98 | 233.09 | 5,788.05 | -199.87 | -202.59 | -198.45 | 1.50 | -1.50 | 0.00 |
| 5,900.00 | 0.48 | 233.09 | 5,888.02 | -201.16 | -204.30 | -199.73 | 1.50 | -1.50 | 0.00 |
| 5,931.98 | 0.00 | 0.00 | 5,920.00 | -201.24 | -204.41 | -199.81 | 1.50 | -1.50 | 396.83 |
| **5135' Hold** | | | | | | | | | |
| 6,000.00 | 0.00 | 0.00 | 5,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 6,088.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,132.98 | 0.00 | 0.00 | 6,121.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Delaware Mtn Group** | | | | | | | | | |
| 6,200.00 | 0.00 | 0.00 | 6,188.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,288.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,388.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,488.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,588.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,688.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,788.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,888.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 7,088.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 0.00 | 0.00 | 7,188.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 0.00 | 0.00 | 7,288.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 0.00 | 0.00 | 7,388.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 0.00 | 0.00 | 7,488.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 0.00 | 0.00 | 7,588.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 0.00 | 0.00 | 7,688.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 0.00 | 0.00 | 7,788.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 7,900.00 | 0.00 | 0.00 | 7,888.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 7,979.98 | 0.00 | 0.00 | 7,968.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Bone Spring Lime** | | | | | | | | | |
| 8,000.00 | 0.00 | 0.00 | 7,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 0.00 | 0.00 | 8,088.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 0.00 | 0.00 | 8,188.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 0.00 | 0.00 | 8,288.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 0.00 | 0.00 | 8,388.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 0.00 | 0.00 | 8,488.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 0.00 | 0.00 | 8,588.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 0.00 | 0.00 | 8,688.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 0.00 | 0.00 | 8,788.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 0.00 | 0.00 | 8,888.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 0.00 | 0.00 | 8,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 0.00 | 0.00 | 9,088.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 0.00 | 0.00 | 9,188.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 0.00 | 0.00 | 9,288.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 0.00 | 0.00 | 9,388.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,434.98 | 0.00 | 0.00 | 9,423.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **First Bone Spring Sand** | | | | | | | | | |
| 9,500.00 | 0.00 | 0.00 | 9,488.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 0.00 | 0.00 | 9,588.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 0.00 | 0.00 | 9,688.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,716.98 | 0.00 | 0.00 | 9,705.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Second Bone Spring Carbonate** | | | | | | | | | |
| 9,800.00 | 0.00 | 0.00 | 9,788.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 0.00 | 0.00 | 9,888.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 0.00 | 0.00 | 9,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,018.98 | 0.00 | 0.00 | 10,007.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Second Bone Spring Sand** | | | | | | | | | |
| 10,100.00 | 0.00 | 0.00 | 10,088.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 0.00 | 0.00 | 10,188.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 0.00 | 0.00 | 10,288.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 0.00 | 0.00 | 10,388.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 0.00 | 0.00 | 10,488.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,577.98 | 0.00 | 0.00 | 10,566.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Third Bone Spring Carbonate** | | | | | | | | | |
| 10,600.00 | 0.00 | 0.00 | 10,588.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,643.98 | 0.00 | 0.00 | 10,632.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Third Bone Spring Sand** | | | | | | | | | |
| 10,700.00 | 0.00 | 0.00 | 10,688.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,737.98 | 0.00 | 0.00 | 10,726.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Wolfcamp** | | | | | | | | | |
| 10,800.00 | 0.00 | 0.00 | 10,788.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 0.00 | 0.00 | 10,888.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 0.00 | 0.00 | 10,988.02 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| 11,059.98 | 0.00 | 0.00 | 11,048.00 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **PPP @ 11059.98' - 50' FSL & 1580' FEL - Wolfcamp B** | | | | | | | | | |
| 11,067.02 | 0.00 | 0.00 | 11,055.04 | -201.24 | -204.41 | -199.81 | 0.00 | 0.00 | 0.00 |
| **Build 10°/100'** | | | | | | | | | |
| 11,100.00 | 3.30 | 352.00 | 11,088.00 | -200.30 | -204.54 | -198.87 | 10.00 | 10.00 | 0.00 |
| 11,150.00 | 8.30 | 352.00 | 11,137.73 | -195.30 | -205.24 | -193.86 | 10.00 | 10.00 | 0.00 |
| 11,200.00 | 13.30 | 352.00 | 11,186.83 | -186.03 | -206.55 | -184.58 | 10.00 | 10.00 | 0.00 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 11,250.00 | 18.30 | 352.00 | 11,234.93 | -172.55 | -208.44 | -171.09 | 10.00 | 10.00 | 0.00 |
| 11,300.00 | 23.30 | 352.00 | 11,281.65 | -154.98 | -210.91 | -153.50 | 10.00 | 10.00 | 0.00 |
| 11,350.00 | 28.30 | 352.00 | 11,326.65 | -133.43 | -213.94 | -131.94 | 10.00 | 10.00 | 0.00 |
| 11,400.00 | 33.30 | 352.00 | 11,369.59 | -108.09 | -217.50 | -106.57 | 10.00 | 10.00 | 0.00 |
| 11,413.00 | 34.60 | 352.00 | 11,380.37 | -100.90 | -218.51 | -99.37 | 10.00 | 10.00 | 0.00 |
| **FTP @ 11413' - 150' FSL & 1594' FEL** | | | | | | | | | |
| 11,450.00 | 38.30 | 352.00 | 11,410.13 | -79.14 | -221.57 | -77.59 | 10.00 | 10.00 | 0.00 |
| 11,500.00 | 43.30 | 352.00 | 11,447.97 | -46.80 | -226.12 | -45.22 | 10.00 | 10.00 | 0.00 |
| 11,550.00 | 48.30 | 352.00 | 11,482.82 | -11.31 | -231.10 | -9.70 | 10.00 | 10.00 | 0.00 |
| 11,600.00 | 53.30 | 352.00 | 11,514.41 | 27.04 | -236.49 | 28.69 | 10.00 | 10.00 | 0.00 |
| 11,650.00 | 58.30 | 352.00 | 11,542.51 | 67.98 | -242.25 | 69.67 | 10.00 | 10.00 | 0.00 |
| 11,700.00 | 63.30 | 352.00 | 11,566.90 | 111.19 | -248.32 | 112.92 | 10.00 | 10.00 | 0.00 |
| 11,750.00 | 68.30 | 352.00 | 11,587.39 | 156.34 | -254.66 | 158.11 | 10.00 | 10.00 | 0.00 |
| 11,800.00 | 73.30 | 352.00 | 11,603.83 | 203.08 | -261.23 | 204.90 | 10.00 | 10.00 | 0.00 |
| 11,850.00 | 78.30 | 352.00 | 11,616.09 | 251.06 | -267.98 | 252.93 | 10.00 | 10.00 | 0.00 |
| 11,900.00 | 83.30 | 352.00 | 11,624.08 | 299.92 | -274.84 | 301.84 | 10.00 | 10.00 | 0.00 |
| 11,950.00 | 88.30 | 352.00 | 11,627.75 | 349.29 | -281.78 | 351.25 | 10.00 | 10.00 | 0.00 |
| 11,967.02 | 90.00 | 352.00 | 11,628.00 | 366.14 | -284.15 | 368.12 | 10.00 | 10.00 | 0.00 |
| **Turn 2°/100' - HZ Target** | | | | | | | | | |
| 12,000.00 | 90.00 | 352.66 | 11,628.00 | 398.83 | -288.55 | 400.83 | 2.00 | 0.00 | 2.00 |
| 12,100.00 | 90.00 | 354.66 | 11,628.00 | 498.21 | -299.60 | 500.29 | 2.00 | 0.00 | 2.00 |
| 12,200.00 | 90.00 | 356.66 | 11,628.00 | 597.92 | -307.16 | 600.05 | 2.00 | 0.00 | 2.00 |
| 12,300.00 | 90.00 | 358.66 | 11,628.00 | 697.83 | -311.25 | 699.99 | 2.00 | 0.00 | 2.00 |
| 12,347.17 | 90.00 | 359.60 | 11,628.00 | 744.99 | -311.96 | 747.15 | 2.00 | 0.00 | 2.00 |
| **9480' Hold** | | | | | | | | | |
| 12,400.00 | 90.00 | 359.60 | 11,628.00 | 797.82 | -312.33 | 799.98 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.00 | 359.60 | 11,628.00 | 897.82 | -313.02 | 899.98 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.00 | 359.60 | 11,628.00 | 997.82 | -313.71 | 999.98 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.00 | 359.60 | 11,628.00 | 1,097.81 | -314.41 | 1,099.98 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.00 | 359.60 | 11,628.00 | 1,197.81 | -315.10 | 1,199.98 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.00 | 359.60 | 11,628.00 | 1,297.81 | -315.79 | 1,299.98 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.00 | 359.60 | 11,628.00 | 1,397.81 | -316.49 | 1,399.98 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.00 | 359.60 | 11,628.00 | 1,497.81 | -317.18 | 1,499.98 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.00 | 359.60 | 11,628.00 | 1,597.80 | -317.87 | 1,599.98 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.00 | 359.60 | 11,628.00 | 1,697.80 | -318.57 | 1,699.98 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.00 | 359.60 | 11,628.00 | 1,797.80 | -319.26 | 1,799.98 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.00 | 359.60 | 11,628.00 | 1,897.80 | -319.95 | 1,899.98 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.00 | 359.60 | 11,628.00 | 1,997.79 | -320.64 | 1,999.98 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.00 | 359.60 | 11,628.00 | 2,097.79 | -321.34 | 2,099.98 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.00 | 359.60 | 11,628.00 | 2,197.79 | -322.03 | 2,199.98 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.00 | 359.60 | 11,628.00 | 2,297.79 | -322.72 | 2,299.98 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.00 | 359.60 | 11,628.00 | 2,397.78 | -323.42 | 2,399.98 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.00 | 359.60 | 11,628.00 | 2,497.78 | -324.11 | 2,499.98 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.00 | 359.60 | 11,628.00 | 2,597.78 | -324.80 | 2,599.98 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.00 | 359.60 | 11,628.00 | 2,697.78 | -325.50 | 2,699.98 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.00 | 359.60 | 11,628.00 | 2,797.77 | -326.19 | 2,799.98 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.00 | 359.60 | 11,628.00 | 2,897.77 | -326.88 | 2,899.98 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.00 | 359.60 | 11,628.00 | 2,997.77 | -327.57 | 2,999.98 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.00 | 359.60 | 11,628.00 | 3,097.77 | -328.27 | 3,099.98 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.00 | 359.60 | 11,628.00 | 3,197.76 | -328.96 | 3,199.98 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.00 | 359.60 | 11,628.00 | 3,297.76 | -329.65 | 3,299.98 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.00 | 359.60 | 11,628.00 | 3,397.76 | -330.35 | 3,399.98 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.00 | 359.60 | 11,628.00 | 3,497.76 | -331.04 | 3,499.98 | 0.00 | 0.00 | 0.00 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 15,200.00 | 90.00 | 359.60 | 11,628.00 | 3,597.75 | -331.73 | 3,599.98 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.00 | 359.60 | 11,628.00 | 3,697.75 | -332.43 | 3,699.98 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.00 | 359.60 | 11,628.00 | 3,797.75 | -333.12 | 3,799.98 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 90.00 | 359.60 | 11,628.00 | 3,897.75 | -333.81 | 3,899.98 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 90.00 | 359.60 | 11,628.00 | 3,997.75 | -334.51 | 3,999.98 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 90.00 | 359.60 | 11,628.00 | 4,097.74 | -335.20 | 4,099.98 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 90.00 | 359.60 | 11,628.00 | 4,197.74 | -335.89 | 4,199.98 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 90.00 | 359.60 | 11,628.00 | 4,297.74 | -336.58 | 4,299.98 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 90.00 | 359.60 | 11,628.00 | 4,397.74 | -337.28 | 4,399.98 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 90.00 | 359.60 | 11,628.00 | 4,497.73 | -337.97 | 4,499.98 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 90.00 | 359.60 | 11,628.00 | 4,597.73 | -338.66 | 4,599.98 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 90.00 | 359.60 | 11,628.00 | 4,697.73 | -339.36 | 4,699.98 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 90.00 | 359.60 | 11,628.00 | 4,797.73 | -340.05 | 4,799.98 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 90.00 | 359.60 | 11,628.00 | 4,897.72 | -340.74 | 4,899.98 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 90.00 | 359.60 | 11,628.00 | 4,997.72 | -341.44 | 4,999.98 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 90.00 | 359.60 | 11,628.00 | 5,097.72 | -342.13 | 5,099.98 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 90.00 | 359.60 | 11,628.00 | 5,197.72 | -342.82 | 5,199.98 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 90.00 | 359.60 | 11,628.00 | 5,297.71 | -343.52 | 5,299.98 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 90.00 | 359.60 | 11,628.00 | 5,397.71 | -344.21 | 5,399.98 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 90.00 | 359.60 | 11,628.00 | 5,497.71 | -344.90 | 5,499.98 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 90.00 | 359.60 | 11,628.00 | 5,597.71 | -345.59 | 5,599.98 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 90.00 | 359.60 | 11,628.00 | 5,697.70 | -346.29 | 5,699.98 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 90.00 | 359.60 | 11,628.00 | 5,797.70 | -346.98 | 5,799.98 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 90.00 | 359.60 | 11,628.00 | 5,897.70 | -347.67 | 5,899.98 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 90.00 | 359.60 | 11,628.00 | 5,997.70 | -348.37 | 5,999.98 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 90.00 | 359.60 | 11,628.00 | 6,097.69 | -349.06 | 6,099.98 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 90.00 | 359.60 | 11,628.00 | 6,197.69 | -349.75 | 6,199.98 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 90.00 | 359.60 | 11,628.00 | 6,297.69 | -350.45 | 6,299.98 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 90.00 | 359.60 | 11,628.00 | 6,397.69 | -351.14 | 6,399.98 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 90.00 | 359.60 | 11,628.00 | 6,497.69 | -351.83 | 6,499.98 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 90.00 | 359.60 | 11,628.00 | 6,597.68 | -352.53 | 6,599.98 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 90.00 | 359.60 | 11,628.00 | 6,697.68 | -353.22 | 6,699.98 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 90.00 | 359.60 | 11,628.00 | 6,797.68 | -353.91 | 6,799.98 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 90.00 | 359.60 | 11,628.00 | 6,897.68 | -354.60 | 6,899.98 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 90.00 | 359.60 | 11,628.00 | 6,997.67 | -355.30 | 6,999.98 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 90.00 | 359.60 | 11,628.00 | 7,097.67 | -355.99 | 7,099.98 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 90.00 | 359.60 | 11,628.00 | 7,197.67 | -356.68 | 7,199.98 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 90.00 | 359.60 | 11,628.00 | 7,297.67 | -357.38 | 7,299.98 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 90.00 | 359.60 | 11,628.00 | 7,397.66 | -358.07 | 7,399.98 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 90.00 | 359.60 | 11,628.00 | 7,497.66 | -358.76 | 7,499.98 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 90.00 | 359.60 | 11,628.00 | 7,597.66 | -359.46 | 7,599.98 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 90.00 | 359.60 | 11,628.00 | 7,697.66 | -360.15 | 7,699.98 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 90.00 | 359.60 | 11,628.00 | 7,797.65 | -360.84 | 7,799.98 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 90.00 | 359.60 | 11,628.00 | 7,897.65 | -361.53 | 7,899.98 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 90.00 | 359.60 | 11,628.00 | 7,997.65 | -362.23 | 7,999.98 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 90.00 | 359.60 | 11,628.00 | 8,097.65 | -362.92 | 8,099.98 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 90.00 | 359.60 | 11,628.00 | 8,197.64 | -363.61 | 8,199.98 | 0.00 | 0.00 | 0.00 |
| 19,900.00 | 90.00 | 359.60 | 11,628.00 | 8,297.64 | -364.31 | 8,299.98 | 0.00 | 0.00 | 0.00 |
| 20,000.00 | 90.00 | 359.60 | 11,628.00 | 8,397.64 | -365.00 | 8,399.98 | 0.00 | 0.00 | 0.00 |
| 20,100.00 | 90.00 | 359.60 | 11,628.00 | 8,497.64 | -365.69 | 8,499.98 | 0.00 | 0.00 | 0.00 |
| 20,200.00 | 90.00 | 359.60 | 11,628.00 | 8,597.63 | -366.39 | 8,599.98 | 0.00 | 0.00 | 0.00 |
| 20,300.00 | 90.00 | 359.60 | 11,628.00 | 8,697.63 | -367.08 | 8,699.98 | 0.00 | 0.00 | 0.00 |
| 20,400.00 | 90.00 | 359.60 | 11,628.00 | 8,797.63 | -367.77 | 8,799.98 | 0.00 | 0.00 | 0.00 |
| 20,500.00 | 90.00 | 359.60 | 11,628.00 | 8,897.63 | -368.47 | 8,899.98 | 0.00 | 0.00 | 0.00 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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) |
|---|---|---|---|---|---|---|---|---|---|
| 20,600.00 | 90.00 | 359.60 | 11,628.00 | 8,997.63 | -369.16 | 8,999.98 | 0.00 | 0.00 | 0.00 |
| 20,700.00 | 90.00 | 359.60 | 11,628.00 | 9,097.62 | -369.85 | 9,099.98 | 0.00 | 0.00 | 0.00 |
| 20,800.00 | 90.00 | 359.60 | 11,628.00 | 9,197.62 | -370.54 | 9,199.98 | 0.00 | 0.00 | 0.00 |
| 20,900.00 | 90.00 | 359.60 | 11,628.00 | 9,297.62 | -371.24 | 9,299.98 | 0.00 | 0.00 | 0.00 |
| 21,000.00 | 90.00 | 359.60 | 11,628.00 | 9,397.62 | -371.93 | 9,399.98 | 0.00 | 0.00 | 0.00 |
| 21,100.00 | 90.00 | 359.60 | 11,628.00 | 9,497.61 | -372.62 | 9,499.98 | 0.00 | 0.00 | 0.00 |
| 21,200.00 | 90.00 | 359.60 | 11,628.00 | 9,597.61 | -373.32 | 9,599.98 | 0.00 | 0.00 | 0.00 |
| 21,300.00 | 90.00 | 359.60 | 11,628.00 | 9,697.61 | -374.01 | 9,699.98 | 0.00 | 0.00 | 0.00 |
| 21,400.00 | 90.00 | 359.60 | 11,628.00 | 9,797.61 | -374.70 | 9,799.98 | 0.00 | 0.00 | 0.00 |
| 21,500.00 | 90.00 | 359.60 | 11,628.00 | 9,897.60 | -375.40 | 9,899.98 | 0.00 | 0.00 | 0.00 |
| 21,600.00 | 90.00 | 359.60 | 11,628.00 | 9,997.60 | -376.09 | 9,999.98 | 0.00 | 0.00 | 0.00 |
| 21,700.00 | 90.00 | 359.60 | 11,628.00 | 10,097.60 | -376.78 | 10,099.98 | 0.00 | 0.00 | 0.00 |
| 21,800.00 | 90.00 | 359.60 | 11,628.00 | 10,197.60 | -377.48 | 10,199.98 | 0.00 | 0.00 | 0.00 |
| 21,828.08 | 90.00 | 359.60 | 11,628.00 | 10,225.68 | -377.67 | 10,228.06 | 0.00 | 0.00 | 0.00 |
| **TD at 21828.08** | | | | | | | | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| Treble State Com 803 - plan misses target center by 237.36usft at 11513.71usft MD (11457.84 TVD, -37.37 N, -227.44 E) - Point | 0.00 | 0.00 | 11,628.00 | -201.24 | -204.41 | 586,688.49 | 815,898.93 | 32.609693 | -103.441682 |
| Treble State Com 803 - plan hits target center - Point | 0.00 | 0.00 | 11,628.00 | 10,225.68 | -377.67 | 597,115.41 | 815,725.67 | 32.638354 | -103.441960 |
| Treble State Com 803 - plan misses target center by 248.59usft at 11523.25usft MD (11464.56 TVD, -30.68 N, -228.38 E) - Point | 0.00 | 0.00 | 11,628.00 | -201.87 | -304.40 | 586,687.86 | 815,798.94 | 32.609694 | -103.442007 |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners
## Planning Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Database:** | DM Local | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | OH | | |
| **Design:** | Plan 1 | | |

**Formations**

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 30.00 | 30.00 | Cenozoic Alluvium (surface) | | | |
| 1,808.00 | 1,808.00 | Rustler | | | |
| 2,069.00 | 2,069.00 | Salado | | | |
| 3,245.48 | 3,242.00 | Base Salt | | | |
| 3,525.44 | 3,521.00 | Yates | | | |
| 4,088.38 | 4,082.00 | Seven Rivers | | | |
| 4,661.34 | 4,653.00 | Queen | | | |
| 6,132.98 | 6,121.00 | Delaware Mtn Group | | | |
| 7,979.98 | 7,968.00 | Bone Spring Lime | | | |
| 9,434.98 | 9,423.00 | First Bone Spring Sand | | | |
| 9,716.98 | 9,705.00 | Second Bone Spring Carbonate | | | |
| 10,018.98 | 10,007.00 | Second Bone Spring Sand | | | |
| 10,577.98 | 10,566.00 | Third Bone Spring Carbonate | | | |
| 10,643.98 | 10,632.00 | Third Bone Spring Sand | | | |
| 10,737.98 | 10,726.00 | Wolfcamp | | | |
| 11,059.98 | 11,048.00 | Wolfcamp B | | | |
| 11,967.02 | 11,628.00 | HZ Target | | | |

**Plan Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 2,000.00 | 2,000.00 | 0.00 | 0.00 | Build 1.5°/100' |
| 2,316.67 | 2,316.30 | -12.92 | -2.28 | 400' Hold |
| 2,716.67 | 2,714.93 | -45.54 | -8.03 | Turn 1.5/100' |
| 2,949.02 | 2,946.56 | -60.79 | -17.39 | 2666' Hold |
| 5,615.36 | 5,603.74 | -193.36 | -193.92 | Drop 1.5°/100' |
| 5,931.98 | 5,920.00 | -201.24 | -204.41 | 5135' Hold |
| 11,059.98 | 11,048.00 | -201.24 | -204.41 | PPP @ 11059.98' - 50' FSL & 1580' FEL |
| 11,067.02 | 11,055.04 | -201.24 | -204.41 | Build 10°/100' |
| 11,413.00 | 11,380.37 | -100.90 | -218.51 | FTP @ 11413' - 150' FSL & 1594' FEL |
| 11,967.02 | 11,628.00 | 366.14 | -284.15 | Turn 2°/100' |
| 12,347.17 | 11,628.00 | 744.99 | -311.96 | 9480' Hold |
| 21,828.08 | 11,628.00 | 10,225.68 | -377.67 | TD at 21828.08 |

FRANKLIN MOUNTAIN ENERGY

# Franklin Mountain Energy

**Lea Co., NM (NAD-83)**
**Treble East Pad**
**Treble State Com 803H**

**OH**
**Plan 1**

# Anticollision Report

**16 May, 2023**

ALTITUDE ENERGY PARTNERS

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum centre distance of 1,000.00usft | **Error Surface:** | Pedal Curve |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 5/16/2023

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 21,827.38 | Plan 1 (OH) | MWD+HDGM | OWSG MWD + HRGM |

**Summary**

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Treble East Offsets | | | | | | |
| East Pearl Queen Unit #027 (Plug) - OH - OH | 19,968.14 | 11,641.00 | 317.65 | -271.20 | 0.539 | Collision Risk Procedures |
| Sparrow 27 #001 - OH - OH | | | | | | Out of range |
| Sparrow 27 #002 - OH - OH | 18,424.00 | 11,150.00 | 561.25 | 333.19 | 2.461 | CC, ES |
| Sparrow 27 #002 - OH - OH | 18,600.00 | 11,150.00 | 587.98 | 345.95 | 2.429 | SF |
| Sparrow 27 #003 - OH - OH | 21,288.31 | 11,652.51 | 418.19 | 12.59 | 1.031 | Collision Risk Procedures |
| Sparrow 27 #003 - OH - OH | 21,300.00 | 11,652.48 | 418.36 | 12.54 | 1.031 | Collision Risk Procedures |
| Toro 27 #005 - OH - OH | 19,727.96 | 11,085.00 | 650.81 | 408.11 | 2.682 | CC, ES |
| Toro 27 #005 - OH - OH | 19,900.00 | 11,085.00 | 673.16 | 417.93 | 2.637 | SF |
| Treble East Pad | | | | | | |
| Treble State Com 303H - OH - Plan 1 | 2,000.00 | 2,000.00 | 49.99 | 38.87 | 4.496 | CC, ES |
| Treble State Com 303H - OH - Plan 1 | 8,901.17 | 8,903.11 | 100.00 | 67.88 | 3.113 | SF |
| Treble State Com 304H - OH - Plan 1 | 2,185.17 | 2,185.10 | 24.58 | 12.97 | 2.116 | CC |
| Treble State Com 304H - OH - Plan 1 | 2,200.00 | 2,199.91 | 24.60 | 12.94 | 2.110 | ES, SF |
| Treble State Com 503H - OH - Plan 1 | 2,000.00 | 2,000.00 | 274.96 | 263.84 | 24.728 | CC, ES |
| Treble State Com 503H - OH - Plan 1 | 9,900.00 | 9,920.02 | 500.00 | 464.75 | 14.185 | SF |
| Treble State Com 504H - OH - Plan 1 | 4,214.95 | 4,222.35 | 93.61 | 75.02 | 5.035 | CC, ES |
| Treble State Com 504H - OH - Plan 1 | 4,300.00 | 4,305.35 | 95.45 | 76.13 | 4.942 | SF |
| Treble State Com 603H - OH - Plan 1 | 5,686.89 | 5,674.56 | 196.54 | 170.64 | 7.587 | CC |
| Treble State Com 603H - OH - Plan 1 | 10,200.00 | 10,201.41 | 199.04 | 167.56 | 6.324 | ES |
| Treble State Com 603H - OH - Plan 1 | 21,828.09 | 20,859.60 | 966.00 | 794.77 | 5.642 | SF |
| Treble State Com 604H - OH - Plan 1 | 3,388.65 | 3,401.63 | 98.54 | 82.61 | 6.186 | CC |
| Treble State Com 604H - OH - Plan 1 | 3,400.00 | 3,412.64 | 98.58 | 82.56 | 6.154 | ES |
| Treble State Com 604H - OH - Plan 1 | 3,500.00 | 3,509.63 | 102.20 | 85.36 | 6.071 | SF |
| Treble State Com 703H - OH - Plan 1 | 2,347.25 | 2,345.45 | 173.03 | 161.02 | 14.413 | CC, ES |
| Treble State Com 703H - OH - Plan 1 | 21,828.09 | 21,274.60 | 845.11 | 586.44 | 3.267 | SF |
| Treble State Com 704H - OH - Plan 1 | 3,300.00 | 3,309.16 | 58.40 | 43.00 | 3.792 | CC |
| Treble State Com 704H - OH - Plan 1 | 3,304.45 | 3,313.45 | 58.41 | 42.97 | 3.784 | ES |
| Treble State Com 704H - OH - Plan 1 | 21,828.09 | 21,269.60 | 920.57 | 665.10 | 3.603 | SF |
| Treble State Com 804H - OH - Plan 1 | 2,000.00 | 2,000.00 | 25.00 | 13.88 | 2.248 | CC, ES, SF |

# Altitude Energy Partners
## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 Offsets - East Pearl Queen Unit #027 (Plug) - OH - OH — **Offset Site Error:** 0.00 usft

**Survey Program:** 13950-Unknown — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,100.00 | 11,628.00 | 11,641.00 | 11,641.00 | 110.83 | 465.64 | -90.00 | 8,363.58 | -682.42 | 924.43 | 418.04 | 506.38 | 1.826 | Collision Risk Procedures Req. |
| 19,200.00 | 11,628.00 | 11,641.00 | 11,641.00 | 112.26 | 465.64 | -90.00 | 8,363.58 | -682.42 | 831.22 | 320.71 | 510.52 | 1.628 | Collision Risk Procedures Req. |
| 19,300.00 | 11,628.00 | 11,641.00 | 11,641.00 | 113.69 | 465.64 | -90.00 | 8,363.58 | -682.42 | 739.80 | 224.06 | 515.74 | 1.434 | Collision Risk Procedures Req. |
| 19,400.00 | 11,628.00 | 11,641.00 | 11,641.00 | 115.12 | 465.64 | -90.00 | 8,363.58 | -682.42 | 650.91 | 128.48 | 522.42 | 1.246 | Collision Risk Procedures Req. |
| 19,500.00 | 11,628.00 | 11,641.00 | 11,641.00 | 116.56 | 465.64 | -90.00 | 8,363.58 | -682.42 | 565.73 | 34.69 | 531.04 | 1.065 | Collision Risk Procedures Req. |
| 19,600.00 | 11,628.00 | 11,641.00 | 11,641.00 | 117.99 | 465.64 | -90.00 | 8,363.58 | -682.42 | 486.23 | -55.87 | 542.10 | 0.897 | Collision Risk Procedures Req. |
| 19,700.00 | 11,628.00 | 11,641.00 | 11,641.00 | 119.42 | 465.64 | -90.00 | 8,363.58 | -682.42 | 415.69 | -140.19 | 555.87 | 0.748 | Collision Risk Procedures Req. |
| 19,800.00 | 11,628.00 | 11,641.00 | 11,641.00 | 120.85 | 465.64 | -90.00 | 8,363.58 | -682.42 | 359.40 | -211.94 | 571.34 | 0.629 | Collision Risk Procedures Req. |
| 19,900.00 | 11,628.00 | 11,641.00 | 11,641.00 | 122.28 | 465.64 | -90.00 | 8,363.58 | -682.42 | 324.87 | -259.65 | 584.52 | 0.556 | Collision Risk Procedures Req. |
| 19,968.14 | 11,628.00 | 11,641.00 | 11,641.00 | 123.26 | 465.64 | -90.00 | 8,363.58 | -682.42 | 317.65 | -271.20 | 588.85 | 0.539 | Collision Risk Procedures Req., CC |
| 20,000.00 | 11,628.00 | 11,641.00 | 11,641.00 | 123.72 | 465.64 | -90.00 | 8,363.58 | -682.42 | 319.24 | -269.82 | 589.06 | 0.542 | Collision Risk Procedures Req. |
| 20,100.00 | 11,628.00 | 11,641.00 | 11,641.00 | 125.15 | 465.64 | -90.00 | 8,363.58 | -682.42 | 343.93 | -238.96 | 582.89 | 0.590 | Collision Risk Procedures Req. |
| 20,200.00 | 11,628.00 | 11,641.00 | 11,641.00 | 126.58 | 465.64 | -90.00 | 8,363.58 | -682.42 | 393.27 | -177.63 | 570.89 | 0.689 | Collision Risk Procedures Req. |
| 20,300.00 | 11,628.00 | 11,641.00 | 11,641.00 | 128.02 | 465.64 | -90.00 | 8,363.58 | -682.42 | 459.38 | -98.98 | 558.36 | 0.823 | Collision Risk Procedures Req. |
| 20,400.00 | 11,628.00 | 11,641.00 | 11,641.00 | 129.45 | 465.64 | -90.00 | 8,363.58 | -682.42 | 536.10 | -11.48 | 547.58 | 0.979 | Collision Risk Procedures Req. |
| 20,500.00 | 11,628.00 | 11,641.00 | 11,641.00 | 130.88 | 465.64 | -90.00 | 8,363.58 | -682.42 | 619.50 | 80.59 | 538.91 | 1.150 | Collision Risk Procedures Req. |
| 20,600.00 | 11,628.00 | 11,641.00 | 11,641.00 | 132.32 | 465.64 | -90.00 | 8,363.58 | -682.42 | 707.21 | 175.16 | 532.05 | 1.329 | Collision Risk Procedures Req. |
| 20,700.00 | 11,628.00 | 11,641.00 | 11,641.00 | 133.75 | 465.64 | -90.00 | 8,363.58 | -682.42 | 797.82 | 271.20 | 526.62 | 1.515 | Collision Risk Procedures Req. |
| 20,800.00 | 11,628.00 | 11,641.00 | 11,641.00 | 135.19 | 465.64 | -90.00 | 8,363.58 | -682.42 | 890.45 | 368.15 | 522.29 | 1.705 | Collision Risk Procedures Req. |
| 20,900.00 | 11,628.00 | 11,641.00 | 11,641.00 | 136.62 | 465.64 | -90.00 | 8,363.58 | -682.42 | 984.51 | 465.71 | 518.81 | 1.898 | Collision Risk Procedures Req. |

# Altitude Energy Partners

## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 Offsets - Sparrow 27 #002 - OH - OH — **Offset Site Error:** 0.00 usft

**Survey Program:** 227-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,600.00 | 11,628.00 | 11,150.00 | 11,146.75 | 89.46 | 258.96 | -34.19 | 6,820.24 | -669.48 | 997.60 | 732.01 | 265.59 | 3.756 | |
| 17,700.00 | 11,628.00 | 11,150.00 | 11,146.75 | 90.88 | 258.96 | -34.19 | 6,820.24 | -669.48 | 916.66 | 652.99 | 263.67 | 3.476 | |
| 17,800.00 | 11,628.00 | 11,150.00 | 11,146.75 | 92.30 | 258.96 | -34.19 | 6,820.24 | -669.48 | 839.83 | 578.93 | 260.91 | 3.219 | |
| 17,900.00 | 11,628.00 | 11,150.00 | 11,146.75 | 93.72 | 258.96 | -34.19 | 6,820.24 | -669.48 | 768.35 | 511.38 | 256.97 | 2.990 | |
| 18,000.00 | 11,628.00 | 11,150.00 | 11,146.75 | 95.15 | 258.96 | -34.19 | 6,820.24 | -669.48 | 703.86 | 452.29 | 251.57 | 2.798 | |
| 18,100.00 | 11,628.00 | 11,150.00 | 11,146.75 | 96.57 | 258.96 | -34.19 | 6,820.24 | -669.48 | 648.43 | 403.82 | 244.61 | 2.651 | |
| 18,200.00 | 11,628.00 | 11,150.00 | 11,146.75 | 97.99 | 258.96 | -34.19 | 6,820.24 | -669.48 | 604.58 | 367.83 | 236.75 | 2.554 | |
| 18,300.00 | 11,628.00 | 11,150.00 | 11,146.75 | 99.42 | 258.96 | -34.19 | 6,820.24 | -669.48 | 574.95 | 344.96 | 229.99 | 2.500 | |
| 18,400.00 | 11,628.00 | 11,150.00 | 11,146.75 | 100.84 | 258.96 | -34.19 | 6,820.24 | -669.48 | 561.80 | 334.16 | 227.64 | 2.468 | |
| 18,424.00 | 11,628.00 | 11,150.00 | 11,146.75 | 101.18 | 258.96 | -34.19 | 6,820.24 | -669.48 | 561.25 | 333.19 | 228.06 | 2.461 | CC, ES |
| 18,500.00 | 11,628.00 | 11,150.00 | 11,146.75 | 102.27 | 258.96 | -34.19 | 6,820.24 | -669.48 | 566.28 | 334.22 | 232.06 | 2.440 | |
| 18,600.00 | 11,628.00 | 11,150.00 | 11,146.75 | 103.69 | 258.96 | -34.19 | 6,820.24 | -669.48 | 587.98 | 345.95 | 242.03 | 2.429 | SF |
| 18,700.00 | 11,628.00 | 11,150.00 | 11,146.75 | 105.12 | 258.96 | -34.19 | 6,820.24 | -669.48 | 625.12 | 371.18 | 253.94 | 2.462 | |
| 18,800.00 | 11,628.00 | 11,150.00 | 11,146.75 | 106.55 | 258.96 | -34.19 | 6,820.24 | -669.48 | 675.14 | 410.25 | 264.89 | 2.549 | |
| 18,900.00 | 11,628.00 | 11,150.00 | 11,146.75 | 107.98 | 258.96 | -34.19 | 6,820.24 | -669.48 | 735.44 | 461.75 | 273.69 | 2.687 | |
| 19,000.00 | 11,628.00 | 11,150.00 | 11,146.75 | 109.41 | 258.96 | -34.19 | 6,820.24 | -669.48 | 803.69 | 523.43 | 280.27 | 2.868 | |
| 19,100.00 | 11,628.00 | 11,150.00 | 11,146.75 | 110.83 | 258.96 | -34.19 | 6,820.24 | -669.48 | 878.05 | 593.06 | 284.99 | 3.081 | |
| 19,200.00 | 11,628.00 | 11,150.00 | 11,146.75 | 112.26 | 258.96 | -34.19 | 6,820.24 | -669.48 | 957.09 | 668.78 | 288.31 | 3.320 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 Offsets - Sparrow 27 #003 - OH - OH — **Offset Site Error:** 0.00 usft

**Survey Program:** 100-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20,400.00 | 11,628.00 | 11,655.08 | 11,653.57 | 129.45 | 263.49 | -90.35 | 9,683.01 | -792.11 | 981.82 | 661.74 | 320.09 | 3.067 | |
| 20,500.00 | 11,628.00 | 11,654.79 | 11,653.28 | 130.88 | 263.49 | -90.31 | 9,683.01 | -792.11 | 892.36 | 566.61 | 325.75 | 2.739 | |
| 20,600.00 | 11,628.00 | 11,654.50 | 11,652.99 | 132.32 | 263.48 | -90.27 | 9,683.01 | -792.11 | 805.39 | 472.79 | 332.60 | 2.421 | |
| 20,700.00 | 11,628.00 | 11,654.21 | 11,652.70 | 133.75 | 263.48 | -90.23 | 9,683.01 | -792.11 | 721.80 | 380.90 | 340.90 | 2.117 | |
| 20,800.00 | 11,628.00 | 11,653.92 | 11,652.41 | 135.19 | 263.47 | -90.19 | 9,683.02 | -792.11 | 642.91 | 292.01 | 350.90 | 1.832 | Collision Risk Procedures Req. |
| 20,900.00 | 11,628.00 | 11,653.63 | 11,652.12 | 136.62 | 263.47 | -90.15 | 9,683.02 | -792.11 | 570.67 | 207.95 | 362.73 | 1.573 | Collision Risk Procedures Req. |
| 21,000.00 | 11,628.00 | 11,653.34 | 11,651.83 | 138.06 | 263.46 | -90.11 | 9,683.02 | -792.11 | 507.94 | 131.87 | 376.07 | 1.351 | Collision Risk Procedures Req. |
| 21,100.00 | 11,628.00 | 11,653.05 | 11,651.54 | 139.50 | 263.46 | -90.07 | 9,683.02 | -792.11 | 458.63 | 69.00 | 389.63 | 1.177 | Collision Risk Procedures Req. |
| 21,200.00 | 11,628.00 | 11,652.76 | 11,651.25 | 140.93 | 263.45 | -90.03 | 9,683.02 | -792.11 | 427.41 | 26.73 | 400.69 | 1.067 | Collision Risk Procedures Req. |
| 21,288.31 | 11,628.00 | 11,652.51 | 11,651.00 | 142.20 | 263.45 | -90.00 | 9,683.02 | -792.11 | 418.19 | 12.59 | 405.60 | 1.031 | Collision Risk Procedures Req., CC |
| 21,300.00 | 11,628.00 | 11,652.48 | 11,650.96 | 142.37 | 263.44 | -89.99 | 9,683.02 | -792.11 | 418.36 | 12.54 | 405.81 | 1.031 | Collision Risk Procedures Req., ES |
| 21,400.00 | 11,628.00 | 11,652.19 | 11,650.68 | 143.80 | 263.44 | -89.96 | 9,683.02 | -792.11 | 432.85 | 29.46 | 403.39 | 1.073 | Collision Risk Procedures Req. |
| 21,500.00 | 11,628.00 | 11,651.90 | 11,650.39 | 145.24 | 263.43 | -89.92 | 9,683.02 | -792.11 | 468.72 | 73.62 | 395.10 | 1.186 | Collision Risk Procedures Req. |
| 21,600.00 | 11,628.00 | 11,651.62 | 11,650.11 | 146.68 | 263.43 | -89.88 | 9,683.02 | -792.11 | 521.57 | 137.43 | 384.14 | 1.358 | Collision Risk Procedures Req. |
| 21,700.00 | 11,628.00 | 11,651.34 | 11,649.82 | 148.12 | 263.42 | -89.84 | 9,683.02 | -792.11 | 586.83 | 213.82 | 373.02 | 1.573 | Collision Risk Procedures Req. |
| 21,800.00 | 11,628.00 | 11,651.05 | 11,649.54 | 149.55 | 263.42 | -89.80 | 9,683.02 | -792.11 | 660.84 | 297.89 | 362.95 | 1.821 | Collision Risk Procedures Req. |
| 21,828.09 | 11,628.00 | 11,650.97 | 11,649.46 | 149.90 | 263.42 | -89.79 | 9,683.02 | -792.11 | 682.82 | 320.42 | 362.40 | 1.884 | Collision Risk Procedures Req. |

# Altitude Energy Partners
## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 Offsets - Toro 27 #005 - OH - OH — **Offset Site Error:** 0.00 usft

**Survey Program:** 207-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,000.00 | 11,628.00 | 11,085.00 | 11,080.94 | 109.41 | 278.16 | -32.31 | 8,123.20 | -710.94 | 976.46 | 694.88 | 281.59 | 3.468 | |
| 19,100.00 | 11,628.00 | 11,085.00 | 11,080.94 | 110.83 | 278.16 | -32.31 | 8,123.20 | -710.94 | 904.37 | 626.47 | 277.90 | 3.254 | |
| 19,200.00 | 11,628.00 | 11,085.00 | 11,080.94 | 112.26 | 278.16 | -32.31 | 8,123.20 | -710.94 | 838.03 | 565.07 | 272.96 | 3.070 | |
| 19,300.00 | 11,628.00 | 11,085.00 | 11,080.94 | 113.69 | 278.16 | -32.31 | 8,123.20 | -710.94 | 778.91 | 512.32 | 266.59 | 2.922 | |
| 19,400.00 | 11,628.00 | 11,085.00 | 11,080.94 | 115.12 | 278.16 | -32.31 | 8,123.20 | -710.94 | 728.77 | 469.81 | 258.97 | 2.814 | |
| 19,500.00 | 11,628.00 | 11,085.00 | 11,080.94 | 116.56 | 278.16 | -32.31 | 8,123.20 | -710.94 | 689.58 | 438.63 | 250.95 | 2.748 | |
| 19,600.00 | 11,628.00 | 11,085.00 | 11,080.94 | 117.99 | 278.16 | -32.31 | 8,123.20 | -710.94 | 663.27 | 418.79 | 244.48 | 2.713 | |
| 19,700.00 | 11,628.00 | 11,085.00 | 11,080.94 | 119.42 | 278.16 | -32.31 | 8,123.20 | -710.94 | 651.41 | 409.16 | 242.25 | 2.689 | |
| 19,727.96 | 11,628.00 | 11,085.00 | 11,080.94 | 119.82 | 278.16 | -32.31 | 8,123.20 | -710.94 | 650.81 | 408.11 | 242.70 | 2.682 | CC, ES |
| 19,800.00 | 11,628.00 | 11,085.00 | 11,080.94 | 120.85 | 278.16 | -32.31 | 8,123.20 | -710.94 | 654.78 | 408.68 | 246.10 | 2.661 | |
| 19,900.00 | 11,628.00 | 11,085.00 | 11,080.94 | 122.28 | 278.16 | -32.31 | 8,123.20 | -710.94 | 673.16 | 417.93 | 255.23 | 2.637 | SF |
| 20,000.00 | 11,628.00 | 11,085.00 | 11,080.94 | 123.72 | 278.16 | -32.31 | 8,123.20 | -710.94 | 705.38 | 438.50 | 266.88 | 2.643 | |
| 20,100.00 | 11,628.00 | 11,085.00 | 11,080.94 | 125.15 | 278.16 | -32.31 | 8,123.20 | -710.94 | 749.64 | 471.21 | 278.43 | 2.692 | |
| 20,200.00 | 11,628.00 | 11,085.00 | 11,080.94 | 126.58 | 278.16 | -32.31 | 8,123.20 | -710.94 | 803.97 | 515.54 | 288.44 | 2.787 | |
| 20,300.00 | 11,628.00 | 11,085.00 | 11,080.94 | 128.02 | 278.16 | -32.31 | 8,123.20 | -710.94 | 866.48 | 570.03 | 296.45 | 2.923 | |
| 20,400.00 | 11,628.00 | 11,085.00 | 11,080.94 | 129.45 | 278.16 | -32.31 | 8,123.20 | -710.94 | 935.52 | 632.93 | 302.58 | 3.092 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.35 | -0.31 | -49.99 | 49.99 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.35 | -0.31 | -49.99 | 49.99 | 48.41 | 1.58 | 31.557 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.35 | -0.31 | -49.99 | 49.99 | 47.09 | 2.90 | 17.243 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.35 | -0.31 | -49.99 | 49.99 | 46.20 | 3.79 | 13.194 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.35 | -0.31 | -49.99 | 49.99 | 45.48 | 4.51 | 11.080 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.35 | -0.31 | -49.99 | 49.99 | 44.85 | 5.14 | 9.727 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.35 | -0.31 | -49.99 | 49.99 | 44.29 | 5.70 | 8.766 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.35 | -0.31 | -49.99 | 49.99 | 43.77 | 6.22 | 8.037 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.35 | -0.31 | -49.99 | 49.99 | 43.29 | 6.70 | 7.460 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -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 | -90.35 | -0.31 | -49.99 | 49.99 | 39.18 | 10.81 | 4.626 | |
| 1,966.67 | 1,966.67 | 1,966.67 | 1,966.67 | 5.51 | 5.51 | -90.35 | -0.31 | -49.99 | 49.99 | 38.98 | 11.02 | 4.538 | |
| 2,000.00 | 2,000.00 | 2,000.00 | 2,000.00 | 5.56 | 5.56 | -90.35 | -0.31 | -49.99 | 49.99 | 38.87 | 11.12 | 4.496 | CC, ES |
| 2,100.00 | 2,099.99 | 2,098.97 | 2,098.96 | 5.73 | 5.73 | 80.18 | -1.11 | -50.99 | 50.78 | 39.38 | 11.40 | 4.453 | |
| 2,200.00 | 2,199.91 | 2,197.89 | 2,197.80 | 5.88 | 5.89 | 81.69 | -3.49 | -54.01 | 53.17 | 41.52 | 11.64 | 4.567 | |
| 2,300.00 | 2,299.69 | 2,296.71 | 2,296.42 | 6.05 | 6.07 | 83.91 | -7.46 | -59.02 | 57.22 | 45.33 | 11.88 | 4.815 | |
| 2,316.67 | 2,316.30 | 2,313.17 | 2,312.82 | 6.06 | 6.09 | 84.33 | -8.28 | -60.05 | 58.06 | 46.17 | 11.89 | 4.882 | |
| 2,400.00 | 2,399.35 | 2,396.08 | 2,395.41 | 6.20 | 6.17 | 86.08 | -12.77 | -65.72 | 62.76 | 50.72 | 12.04 | 5.212 | |
| 2,500.00 | 2,499.01 | 2,495.89 | 2,494.83 | 6.38 | 6.36 | 87.81 | -18.25 | -72.63 | 68.52 | 56.23 | 12.29 | 5.575 | |
| 2,600.00 | 2,598.66 | 2,595.70 | 2,594.26 | 6.57 | 6.57 | 89.27 | -23.72 | -79.54 | 74.34 | 61.79 | 12.55 | 5.922 | |
| 2,700.00 | 2,698.32 | 2,695.52 | 2,693.68 | 6.79 | 6.79 | 90.51 | -29.19 | -86.44 | 80.20 | 67.38 | 12.82 | 6.254 | |
| 2,716.67 | 2,714.93 | 2,712.15 | 2,710.25 | 6.81 | 6.83 | 90.70 | -30.10 | -87.60 | 81.18 | 68.33 | 12.85 | 6.316 | |
| 2,800.00 | 2,798.00 | 2,795.38 | 2,793.15 | 7.00 | 7.02 | 76.27 | -34.67 | -93.36 | 85.24 | 72.15 | 13.10 | 6.508 | |
| 2,900.00 | 2,897.70 | 2,895.34 | 2,892.73 | 7.23 | 7.27 | 57.33 | -40.15 | -100.27 | 87.87 | 74.46 | 13.41 | 6.551 | |
| 2,949.02 | 2,946.56 | 2,944.36 | 2,941.55 | 7.31 | 7.40 | 48.56 | -42.83 | -103.66 | 88.26 | 74.73 | 13.53 | 6.521 | |
| 3,000.00 | 2,997.36 | 2,995.34 | 2,992.33 | 7.40 | 7.53 | 48.38 | -45.63 | -107.19 | 88.36 | 74.70 | 13.66 | 6.466 | |
| 3,100.00 | 3,097.02 | 3,095.34 | 3,091.94 | 7.63 | 7.81 | 48.01 | -51.11 | -114.11 | 88.55 | 74.56 | 14.00 | 6.325 | |
| 3,200.00 | 3,196.68 | 3,195.34 | 3,191.55 | 7.88 | 8.09 | 47.65 | -56.59 | -121.03 | 88.75 | 74.40 | 14.35 | 6.183 | |
| 3,300.00 | 3,296.33 | 3,295.33 | 3,291.16 | 8.13 | 8.38 | 47.29 | -62.08 | -127.95 | 88.96 | 74.23 | 14.72 | 6.041 | |
| 3,400.00 | 3,395.99 | 3,395.33 | 3,390.76 | 8.40 | 8.67 | 46.93 | -67.56 | -134.87 | 89.16 | 74.05 | 15.11 | 5.900 | |
| 3,500.00 | 3,495.65 | 3,495.33 | 3,490.37 | 8.67 | 8.98 | 46.58 | -73.04 | -141.79 | 89.37 | 73.85 | 15.52 | 5.760 | |
| 3,600.00 | 3,595.30 | 3,595.33 | 3,589.98 | 8.96 | 9.29 | 46.22 | -78.52 | -148.71 | 89.58 | 73.65 | 15.94 | 5.622 | |
| 3,700.00 | 3,694.96 | 3,695.33 | 3,689.59 | 9.25 | 9.61 | 45.87 | -84.01 | -155.63 | 89.80 | 73.43 | 16.37 | 5.486 | |
| 3,800.00 | 3,794.62 | 3,795.33 | 3,789.19 | 9.54 | 9.93 | 45.52 | -89.49 | -162.55 | 90.02 | 73.20 | 16.82 | 5.352 | |
| 3,900.00 | 3,894.27 | 3,895.32 | 3,888.80 | 9.84 | 10.26 | 45.17 | -94.97 | -169.47 | 90.24 | 72.96 | 17.28 | 5.222 | |
| 4,000.00 | 3,993.93 | 3,995.32 | 3,988.41 | 10.15 | 10.59 | 44.82 | -100.45 | -176.39 | 90.47 | 72.71 | 17.76 | 5.095 | |
| 4,100.00 | 4,093.59 | 4,095.32 | 4,088.02 | 10.47 | 10.92 | 44.47 | -105.93 | -183.31 | 90.70 | 72.45 | 18.25 | 4.971 | |
| 4,200.00 | 4,193.24 | 4,195.32 | 4,187.63 | 10.78 | 11.26 | 44.13 | -111.42 | -190.23 | 90.93 | 72.18 | 18.75 | 4.851 | |
| 4,300.00 | 4,292.90 | 4,295.32 | 4,287.23 | 11.11 | 11.60 | 43.78 | -116.90 | -197.15 | 91.17 | 71.91 | 19.26 | 4.734 | |
| 4,400.00 | 4,392.56 | 4,395.32 | 4,386.84 | 11.43 | 11.95 | 43.44 | -122.38 | -204.07 | 91.40 | 71.62 | 19.78 | 4.621 | |
| 4,500.00 | 4,492.21 | 4,495.31 | 4,486.45 | 11.76 | 12.29 | 43.10 | -127.86 | -210.99 | 91.65 | 71.33 | 20.31 | 4.511 | |
| 4,600.00 | 4,591.87 | 4,595.31 | 4,586.06 | 12.10 | 12.64 | 42.77 | -133.35 | -217.91 | 91.89 | 71.03 | 20.86 | 4.405 | |
| 4,700.00 | 4,691.53 | 4,695.31 | 4,685.66 | 12.43 | 13.00 | 42.43 | -138.83 | -224.83 | 92.14 | 70.73 | 21.41 | 4.303 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,795.31 | 4,785.27 | 12.77 | 13.35 | 42.10 | -144.31 | -231.75 | 92.39 | 70.42 | 21.98 | 4.204 | |
| 4,900.00 | 4,890.84 | 4,895.31 | 4,884.88 | 13.11 | 13.71 | 41.77 | -149.79 | -238.67 | 92.65 | 70.10 | 22.55 | 4.109 | |
| 5,000.00 | 4,990.50 | 4,995.31 | 4,984.49 | 13.45 | 14.06 | 41.44 | -155.28 | -245.59 | 92.91 | 69.78 | 23.13 | 4.017 | |
| 5,100.00 | 5,090.15 | 5,095.30 | 5,084.10 | 13.80 | 14.42 | 41.11 | -160.76 | -252.51 | 93.17 | 69.45 | 23.72 | 3.928 | |
| 5,200.00 | 5,189.81 | 5,195.30 | 5,183.70 | 14.15 | 14.78 | 40.78 | -166.24 | -259.43 | 93.43 | 69.12 | 24.32 | 3.842 | |
| 5,300.00 | 5,289.47 | 5,295.30 | 5,283.31 | 14.50 | 15.15 | 40.46 | -171.72 | -266.35 | 93.70 | 68.78 | 24.92 | 3.760 | |
| 5,400.00 | 5,389.12 | 5,395.30 | 5,382.92 | 14.85 | 15.51 | 40.13 | -177.21 | -273.27 | 93.97 | 68.44 | 25.53 | 3.680 | |
| 5,500.00 | 5,488.78 | 5,495.30 | 5,482.53 | 15.20 | 15.87 | 39.81 | -182.69 | -280.19 | 94.24 | 68.09 | 26.15 | 3.603 | |
| 5,600.00 | 5,588.43 | 5,595.29 | 5,582.13 | 15.55 | 16.24 | 39.49 | -188.17 | -287.11 | 94.52 | 67.74 | 26.78 | 3.529 | |
| 5,615.36 | 5,603.74 | 5,610.65 | 5,597.43 | 15.60 | 16.30 | 39.44 | -189.01 | -288.17 | 94.56 | 67.69 | 26.87 | 3.520 | |
| 5,700.00 | 5,688.16 | 5,695.65 | 5,682.10 | 15.90 | 16.59 | 38.84 | -193.64 | -294.02 | 95.49 | 68.04 | 27.45 | 3.478 | |
| 5,800.00 | 5,788.05 | 5,797.60 | 5,783.80 | 16.23 | 16.96 | 37.93 | -198.07 | -299.60 | 97.13 | 68.94 | 28.19 | 3.446 | |
| 5,900.00 | 5,888.02 | 5,899.61 | 5,885.71 | 16.50 | 17.29 | 37.10 | -200.81 | -303.06 | 98.79 | 69.96 | 28.83 | 3.426 | |
| 5,931.98 | 5,920.00 | 5,932.24 | 5,918.33 | 16.53 | 17.38 | -90.05 | -201.33 | -303.72 | 99.32 | 70.36 | 28.97 | 3.429 | |
| 6,000.00 | 5,988.02 | 6,001.68 | 5,987.77 | 16.55 | 17.55 | -90.35 | -201.86 | -304.39 | 99.98 | 70.81 | 29.17 | 3.428 | |
| 6,100.00 | 6,088.02 | 6,101.94 | 6,088.02 | 16.59 | 17.60 | -90.36 | -201.87 | -304.40 | 100.00 | 70.73 | 29.27 | 3.416 | |
| 6,200.00 | 6,188.02 | 6,201.94 | 6,188.02 | 16.63 | 17.64 | -90.36 | -201.87 | -304.40 | 100.00 | 70.63 | 29.36 | 3.405 | |
| 6,300.00 | 6,288.02 | 6,301.94 | 6,288.02 | 16.68 | 17.68 | -90.36 | -201.87 | -304.40 | 100.00 | 70.54 | 29.46 | 3.395 | |
| 6,400.00 | 6,388.02 | 6,401.94 | 6,388.02 | 16.72 | 17.72 | -90.36 | -201.87 | -304.40 | 100.00 | 70.44 | 29.55 | 3.384 | |
| 6,500.00 | 6,488.02 | 6,501.94 | 6,488.02 | 16.76 | 17.77 | -90.36 | -201.87 | -304.40 | 100.00 | 70.35 | 29.65 | 3.373 | |
| 6,600.00 | 6,588.02 | 6,601.94 | 6,588.02 | 16.81 | 17.81 | -90.36 | -201.87 | -304.40 | 100.00 | 70.25 | 29.75 | 3.362 | |
| 6,700.00 | 6,688.02 | 6,701.94 | 6,688.02 | 16.85 | 17.85 | -90.36 | -201.87 | -304.40 | 100.00 | 70.15 | 29.84 | 3.351 | |
| 6,800.00 | 6,788.02 | 6,801.94 | 6,788.02 | 16.90 | 17.89 | -90.36 | -201.87 | -304.40 | 100.00 | 70.05 | 29.94 | 3.340 | |
| 6,900.00 | 6,888.02 | 6,901.94 | 6,888.02 | 16.94 | 17.93 | -90.36 | -201.87 | -304.40 | 100.00 | 69.96 | 30.04 | 3.329 | |
| 7,000.00 | 6,988.02 | 7,001.94 | 6,988.02 | 16.99 | 17.98 | -90.36 | -201.87 | -304.40 | 100.00 | 69.86 | 30.14 | 3.318 | |
| 7,100.00 | 7,088.02 | 7,101.94 | 7,088.02 | 17.03 | 18.02 | -90.36 | -201.87 | -304.40 | 100.00 | 69.76 | 30.24 | 3.307 | |
| 7,200.00 | 7,188.02 | 7,201.94 | 7,188.02 | 17.08 | 18.06 | -90.36 | -201.87 | -304.40 | 100.00 | 69.66 | 30.34 | 3.296 | |
| 7,300.00 | 7,288.02 | 7,301.94 | 7,288.02 | 17.12 | 18.10 | -90.36 | -201.87 | -304.40 | 100.00 | 69.56 | 30.44 | 3.285 | |
| 7,400.00 | 7,388.02 | 7,401.94 | 7,388.02 | 17.17 | 18.15 | -90.36 | -201.87 | -304.40 | 100.00 | 69.46 | 30.54 | 3.274 | |
| 7,500.00 | 7,488.02 | 7,501.94 | 7,488.02 | 17.21 | 18.19 | -90.36 | -201.87 | -304.40 | 100.00 | 69.35 | 30.64 | 3.263 | |
| 7,600.00 | 7,588.02 | 7,601.94 | 7,588.02 | 17.26 | 18.24 | -90.36 | -201.87 | -304.40 | 100.00 | 69.25 | 30.75 | 3.252 | |
| 7,700.00 | 7,688.02 | 7,701.94 | 7,688.02 | 17.31 | 18.28 | -90.36 | -201.87 | -304.40 | 100.00 | 69.15 | 30.85 | 3.242 | |
| 7,800.00 | 7,788.02 | 7,801.94 | 7,788.02 | 17.35 | 18.33 | -90.36 | -201.87 | -304.40 | 100.00 | 69.05 | 30.95 | 3.231 | |
| 7,900.00 | 7,888.02 | 7,901.94 | 7,888.02 | 17.40 | 18.37 | -90.36 | -201.87 | -304.40 | 100.00 | 68.94 | 31.06 | 3.220 | |
| 8,000.00 | 7,988.02 | 8,001.94 | 7,988.02 | 17.45 | 18.42 | -90.36 | -201.87 | -304.40 | 100.00 | 68.84 | 31.16 | 3.209 | |
| 8,100.00 | 8,088.02 | 8,101.94 | 8,088.02 | 17.50 | 18.46 | -90.36 | -201.87 | -304.40 | 100.00 | 68.73 | 31.26 | 3.198 | |
| 8,200.00 | 8,188.02 | 8,201.94 | 8,188.02 | 17.54 | 18.51 | -90.36 | -201.87 | -304.40 | 100.00 | 68.63 | 31.37 | 3.188 | |
| 8,300.00 | 8,288.02 | 8,301.94 | 8,288.02 | 17.59 | 18.55 | -90.36 | -201.87 | -304.40 | 100.00 | 68.52 | 31.48 | 3.177 | |
| 8,400.00 | 8,388.02 | 8,401.94 | 8,388.02 | 17.64 | 18.60 | -90.36 | -201.87 | -304.40 | 100.00 | 68.41 | 31.58 | 3.166 | |
| 8,500.00 | 8,488.02 | 8,501.94 | 8,488.02 | 17.69 | 18.65 | -90.36 | -201.87 | -304.40 | 100.00 | 68.31 | 31.69 | 3.156 | |
| 8,600.00 | 8,588.02 | 8,601.94 | 8,588.02 | 17.74 | 18.69 | -90.36 | -201.87 | -304.40 | 100.00 | 68.20 | 31.80 | 3.145 | |
| 8,700.00 | 8,688.02 | 8,701.94 | 8,688.02 | 17.79 | 18.74 | -90.36 | -201.87 | -304.40 | 100.00 | 68.09 | 31.90 | 3.134 | |
| 8,800.00 | 8,788.02 | 8,801.94 | 8,788.02 | 17.84 | 18.79 | -90.36 | -201.87 | -304.40 | 100.00 | 67.98 | 32.01 | 3.124 | |
| 8,900.00 | 8,888.02 | 8,901.94 | 8,888.02 | 17.89 | 18.83 | -90.36 | -201.87 | -304.40 | 100.00 | 67.88 | 32.12 | 3.113 | |
| 8,901.17 | 8,889.19 | 8,903.11 | 8,889.19 | 17.89 | 18.83 | -90.36 | -201.87 | -304.40 | 100.00 | 67.88 | 32.12 | 3.113 SF | |
| 9,000.00 | 8,988.02 | 9,001.69 | 8,987.65 | 17.94 | 18.80 | -88.46 | -198.55 | -304.43 | 100.05 | 68.21 | 31.84 | 3.142 | |
| 9,100.00 | 9,088.02 | 9,097.80 | 9,081.89 | 17.99 | 18.65 | -78.17 | -180.27 | -304.56 | 102.50 | 72.50 | 30.00 | 3.416 | |
| 9,200.00 | 9,188.02 | 9,185.65 | 9,164.27 | 18.04 | 18.50 | -62.95 | -150.00 | -304.77 | 115.16 | 87.30 | 27.85 | 4.134 | |
| 9,300.00 | 9,288.02 | 9,262.76 | 9,232.04 | 18.09 | 18.38 | -48.85 | -113.32 | -305.03 | 144.87 | 117.35 | 27.52 | 5.265 | |
| 9,400.00 | 9,388.02 | 9,328.72 | 9,285.65 | 18.14 | 18.28 | -38.62 | -74.97 | -305.30 | 191.32 | 162.68 | 28.64 | 6.681 | |
| 9,500.00 | 9,488.02 | 9,384.38 | 9,327.22 | 18.19 | 18.22 | -31.78 | -37.99 | -305.56 | 250.48 | 220.47 | 30.01 | 8.348 | |
| 9,600.00 | 9,588.02 | 9,431.15 | 9,359.24 | 18.24 | 18.19 | -27.19 | -3.91 | -305.80 | 318.68 | 287.47 | 31.21 | 10.210 | |

CC - Min centre to center distance or covergent 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 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,700.00 | 9,688.02 | 9,470.52 | 9,383.96 | 18.29 | 18.17 | -24.02 | 26.71 | -306.01 | 393.36 | 361.14 | 32.23 | 12.206 | |
| 9,800.00 | 9,788.02 | 9,500.00 | 9,401.07 | 18.34 | 18.16 | -21.99 | 50.72 | -306.18 | 472.83 | 439.69 | 33.14 | 14.268 | |
| 9,900.00 | 9,888.02 | 9,532.15 | 9,418.29 | 18.39 | 18.17 | -20.07 | 77.86 | -306.37 | 555.83 | 521.99 | 33.84 | 16.425 | |
| 10,000.00 | 9,988.02 | 9,550.00 | 9,427.18 | 18.45 | 18.18 | -19.11 | 93.34 | -306.48 | 641.66 | 607.10 | 34.57 | 18.562 | |
| 10,100.00 | 10,088.02 | 9,577.46 | 9,439.91 | 18.50 | 18.20 | -17.78 | 117.66 | -306.65 | 729.52 | 694.40 | 35.12 | 20.771 | |
| 10,200.00 | 10,188.02 | 9,600.00 | 9,449.48 | 18.55 | 18.22 | -16.79 | 138.07 | -306.79 | 819.18 | 783.52 | 35.66 | 22.972 | |
| 10,300.00 | 10,288.02 | 9,600.00 | 9,449.48 | 18.60 | 18.22 | -16.79 | 138.07 | -306.79 | 910.36 | 874.09 | 36.28 | 25.095 | |

# Altitude Energy Partners
## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.34 | -0.15 | -24.99 | 24.99 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.34 | -0.15 | -24.99 | 24.99 | 23.41 | 1.58 | 15.775 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.34 | -0.15 | -24.99 | 24.99 | 22.09 | 2.90 | 8.620 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.34 | -0.15 | -24.99 | 24.99 | 21.20 | 3.79 | 6.596 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.34 | -0.15 | -24.99 | 24.99 | 20.48 | 4.51 | 5.539 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.34 | -0.15 | -24.99 | 24.99 | 19.85 | 5.14 | 4.863 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.34 | -0.15 | -24.99 | 24.99 | 19.29 | 5.70 | 4.382 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.34 | -0.15 | -24.99 | 24.99 | 18.77 | 6.22 | 4.018 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.34 | -0.15 | -24.99 | 24.99 | 18.29 | 6.70 | 3.729 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.34 | -0.15 | -24.99 | 24.99 | 17.84 | 7.15 | 3.494 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.79 | 3.79 | -90.34 | -0.15 | -24.99 | 24.99 | 17.41 | 7.58 | 3.296 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 4.00 | 4.00 | -90.34 | -0.15 | -24.99 | 24.99 | 17.00 | 7.99 | 3.127 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 4.19 | 4.19 | -90.34 | -0.15 | -24.99 | 24.99 | 16.61 | 8.38 | 2.981 | |
| 1,300.00 | 1,300.00 | 1,300.00 | 1,300.00 | 4.38 | 4.38 | -90.34 | -0.15 | -24.99 | 24.99 | 16.23 | 8.76 | 2.852 | |
| 1,400.00 | 1,400.00 | 1,400.00 | 1,400.00 | 4.56 | 4.56 | -90.34 | -0.15 | -24.99 | 24.99 | 15.86 | 9.13 | 2.738 | |
| 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 4.74 | 4.74 | -90.34 | -0.15 | -24.99 | 24.99 | 15.51 | 9.48 | 2.636 | |
| 1,600.00 | 1,600.00 | 1,600.00 | 1,600.00 | 4.91 | 4.91 | -90.34 | -0.15 | -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 | -90.34 | -0.15 | -24.99 | 24.99 | 14.83 | 10.16 | 2.460 | |
| 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 5.24 | 5.24 | -90.34 | -0.15 | -24.99 | 24.99 | 14.50 | 10.49 | 2.383 | |
| 1,900.00 | 1,900.00 | 1,900.00 | 1,900.00 | 5.40 | 5.40 | -90.34 | -0.15 | -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 | -90.34 | -0.15 | -24.99 | 24.99 | 13.87 | 11.12 | 2.247 | |
| 2,100.00 | 2,099.99 | 2,099.99 | 2,099.99 | 5.73 | 5.71 | 82.64 | -0.15 | -24.99 | 24.79 | 13.39 | 11.40 | 2.174 | |
| 2,185.17 | 2,185.10 | 2,185.10 | 2,185.10 | 5.86 | 5.84 | 90.00 | -0.15 | -24.99 | 24.58 | 12.97 | 11.62 | 2.116 | CC |
| 2,200.00 | 2,199.91 | 2,199.91 | 2,199.91 | 5.88 | 5.86 | 91.74 | -0.15 | -24.99 | 24.60 | 12.94 | 11.66 | 2.110 | ES, SF |
| 2,300.00 | 2,299.69 | 2,299.69 | 2,299.69 | 6.05 | 6.01 | 106.46 | -0.15 | -24.99 | 25.64 | 13.72 | 11.92 | 2.151 | |
| 2,316.67 | 2,316.30 | 2,316.30 | 2,316.30 | 6.06 | 6.03 | 109.28 | -0.15 | -24.99 | 26.06 | 14.10 | 11.95 | 2.180 | |
| 2,400.00 | 2,399.35 | 2,399.35 | 2,399.35 | 6.20 | 6.16 | 122.20 | -0.15 | -24.99 | 29.08 | 16.88 | 12.20 | 2.383 | |
| 2,500.00 | 2,499.01 | 2,499.01 | 2,499.01 | 6.38 | 6.30 | 133.99 | -0.15 | -24.99 | 34.23 | 21.69 | 12.53 | 2.731 | |
| 2,600.00 | 2,598.66 | 2,598.78 | 2,598.77 | 6.57 | 6.46 | 144.26 | 0.29 | -23.79 | 40.28 | 27.40 | 12.88 | 3.127 | |
| 2,700.00 | 2,698.32 | 2,698.20 | 2,698.11 | 6.79 | 6.63 | 154.80 | 1.61 | -20.16 | 47.43 | 34.17 | 13.26 | 3.577 | |
| 2,716.67 | 2,714.93 | 2,714.86 | 2,714.75 | 6.81 | 6.65 | 156.54 | 1.89 | -19.31 | 48.76 | 35.45 | 13.31 | 3.663 | |
| 2,800.00 | 2,798.00 | 2,798.16 | 2,797.88 | 7.00 | 6.79 | 150.48 | 2.89 | -14.09 | 54.91 | 41.26 | 13.65 | 4.024 | |
| 2,900.00 | 2,897.70 | 2,897.66 | 2,897.02 | 7.23 | 6.96 | 143.60 | 3.14 | -5.67 | 61.95 | 47.91 | 14.05 | 4.410 | |
| 2,949.02 | 2,946.56 | 2,946.15 | 2,945.25 | 7.31 | 7.06 | 141.43 | 2.88 | -0.71 | 65.84 | 51.63 | 14.20 | 4.635 | |
| 3,000.00 | 2,997.36 | 2,996.34 | 2,995.11 | 7.40 | 7.16 | 148.17 | 2.36 | 5.01 | 70.60 | 56.24 | 14.36 | 4.916 | |
| 3,100.00 | 3,097.02 | 3,094.18 | 3,092.08 | 7.63 | 7.37 | 160.07 | 0.58 | 17.90 | 82.58 | 67.85 | 14.73 | 5.606 | |
| 3,200.00 | 3,196.68 | 3,191.11 | 3,187.80 | 7.88 | 7.61 | 170.06 | -2.17 | 32.90 | 98.04 | 82.93 | 15.10 | 6.491 | |
| 3,300.00 | 3,296.33 | 3,287.64 | 3,282.76 | 8.13 | 7.79 | 178.18 | -5.78 | 49.82 | 116.69 | 101.25 | 15.44 | 7.560 | |
| 3,400.00 | 3,395.99 | 3,384.62 | 3,378.11 | 8.40 | 8.04 | -175.81 | -9.55 | 67.15 | 137.23 | 121.39 | 15.85 | 8.660 | |
| 3,500.00 | 3,495.65 | 3,481.61 | 3,473.47 | 8.67 | 8.30 | -171.38 | -13.32 | 84.47 | 158.86 | 142.56 | 16.30 | 9.746 | |
| 3,600.00 | 3,595.30 | 3,578.60 | 3,568.82 | 8.96 | 8.59 | -168.02 | -17.10 | 101.80 | 181.18 | 164.41 | 16.78 | 10.800 | |
| 3,700.00 | 3,694.96 | 3,675.59 | 3,664.17 | 9.25 | 8.88 | -165.39 | -20.87 | 119.13 | 203.97 | 186.69 | 17.28 | 11.805 | |
| 3,800.00 | 3,794.62 | 3,772.57 | 3,759.52 | 9.54 | 9.19 | -163.30 | -24.64 | 136.46 | 227.09 | 209.29 | 17.80 | 12.756 | |
| 3,900.00 | 3,894.27 | 3,869.56 | 3,854.87 | 9.84 | 9.50 | -161.59 | -28.41 | 153.79 | 250.44 | 232.10 | 18.35 | 13.651 | |
| 4,000.00 | 3,993.93 | 3,966.55 | 3,950.23 | 10.15 | 9.83 | -160.17 | -32.18 | 171.11 | 273.97 | 255.06 | 18.91 | 14.490 | |
| 4,100.00 | 4,093.59 | 4,063.53 | 4,045.58 | 10.47 | 10.17 | -158.97 | -35.95 | 188.44 | 297.63 | 278.15 | 19.48 | 15.276 | |
| 4,200.00 | 4,193.24 | 4,160.52 | 4,140.93 | 10.78 | 10.52 | -157.95 | -39.73 | 205.77 | 321.40 | 301.32 | 20.07 | 16.010 | |
| 4,300.00 | 4,292.90 | 4,257.51 | 4,236.28 | 11.11 | 10.87 | -157.08 | -43.50 | 223.10 | 345.25 | 324.57 | 20.68 | 16.697 | |
| 4,400.00 | 4,392.56 | 4,354.50 | 4,331.63 | 11.43 | 11.23 | -156.31 | -47.27 | 240.42 | 369.17 | 347.87 | 21.29 | 17.338 | |
| 4,500.00 | 4,492.21 | 4,451.48 | 4,426.99 | 11.76 | 11.60 | -155.64 | -51.04 | 257.75 | 393.14 | 371.22 | 21.92 | 17.938 | |
| 4,600.00 | 4,591.87 | 4,548.47 | 4,522.34 | 12.10 | 11.97 | -155.04 | -54.81 | 275.08 | 417.15 | 394.60 | 22.55 | 18.499 | |
| 4,700.00 | 4,691.53 | 4,645.46 | 4,617.69 | 12.43 | 12.34 | -154.51 | -58.58 | 292.41 | 441.21 | 418.02 | 23.19 | 19.024 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,742.44 | 4,713.04 | 12.77 | 12.73 | -154.04 | -62.35 | 309.74 | 465.29 | 441.45 | 23.84 | 19.515 | |
| 4,900.00 | 4,890.84 | 4,839.43 | 4,808.40 | 13.11 | 13.11 | -153.61 | -66.13 | 327.06 | 489.41 | 464.91 | 24.50 | 19.976 | |
| 5,000.00 | 4,990.50 | 4,936.42 | 4,903.75 | 13.45 | 13.50 | -153.22 | -69.90 | 344.39 | 513.55 | 488.38 | 25.16 | 20.408 | |
| 5,100.00 | 5,090.15 | 5,033.41 | 4,999.10 | 13.80 | 13.89 | -152.87 | -73.67 | 361.72 | 537.70 | 511.87 | 25.83 | 20.814 | |
| 5,200.00 | 5,189.81 | 5,130.39 | 5,094.45 | 14.15 | 14.29 | -152.54 | -77.44 | 379.05 | 561.88 | 535.37 | 26.51 | 21.196 | |
| 5,300.00 | 5,289.47 | 5,227.38 | 5,189.80 | 14.50 | 14.69 | -152.25 | -81.21 | 396.37 | 586.07 | 558.88 | 27.19 | 21.555 | |
| 5,400.00 | 5,389.12 | 5,324.37 | 5,285.16 | 14.85 | 15.09 | -151.97 | -84.98 | 413.70 | 610.27 | 582.40 | 27.87 | 21.894 | |
| 5,500.00 | 5,488.78 | 5,421.35 | 5,380.51 | 15.20 | 15.50 | -151.72 | -88.76 | 431.03 | 634.49 | 605.93 | 28.56 | 22.213 | |
| 5,600.00 | 5,588.43 | 5,518.34 | 5,475.86 | 15.55 | 15.90 | -151.49 | -92.53 | 448.36 | 658.72 | 629.46 | 29.26 | 22.515 | |
| 5,615.36 | 5,603.74 | 5,533.24 | 5,490.50 | 15.60 | 15.97 | -151.45 | -93.11 | 451.02 | 662.44 | 633.08 | 29.36 | 22.565 | |
| 5,700.00 | 5,688.16 | 5,615.51 | 5,571.39 | 15.90 | 16.31 | -151.38 | -96.31 | 465.72 | 682.15 | 652.21 | 29.95 | 22.780 | |
| 5,800.00 | 5,788.05 | 5,713.14 | 5,667.38 | 16.23 | 16.73 | -151.19 | -100.10 | 483.16 | 703.39 | 672.78 | 30.62 | 22.975 | |
| 5,900.00 | 5,888.02 | 5,811.17 | 5,763.76 | 16.50 | 17.14 | -150.91 | -103.91 | 500.67 | 722.42 | 691.18 | 31.24 | 23.125 | |
| 5,931.98 | 5,920.00 | 5,842.60 | 5,794.65 | 16.53 | 17.28 | 82.30 | -105.14 | 506.29 | 728.04 | 696.65 | 31.39 | 23.193 | |
| 6,000.00 | 5,988.02 | 5,909.47 | 5,860.40 | 16.55 | 17.57 | 82.63 | -107.74 | 518.24 | 739.76 | 708.09 | 31.67 | 23.356 | |
| 6,100.00 | 6,088.02 | 6,007.78 | 5,957.05 | 16.59 | 17.99 | 83.09 | -111.56 | 535.80 | 757.04 | 724.93 | 32.11 | 23.574 | |
| 6,200.00 | 6,188.02 | 6,106.10 | 6,053.71 | 16.63 | 18.41 | 83.54 | -115.38 | 553.37 | 774.36 | 741.80 | 32.56 | 23.784 | |
| 6,300.00 | 6,288.02 | 6,204.41 | 6,150.37 | 16.68 | 18.84 | 83.96 | -119.21 | 570.93 | 791.73 | 758.72 | 33.01 | 23.987 | |
| 6,400.00 | 6,388.02 | 6,302.73 | 6,247.02 | 16.72 | 19.26 | 84.37 | -123.03 | 588.50 | 809.13 | 775.68 | 33.46 | 24.184 | |
| 6,500.00 | 6,488.02 | 6,401.04 | 6,343.68 | 16.76 | 19.69 | 84.76 | -126.85 | 606.06 | 826.58 | 792.66 | 33.91 | 24.374 | |
| 6,600.00 | 6,588.02 | 6,499.36 | 6,440.34 | 16.81 | 20.12 | 85.13 | -130.68 | 623.63 | 844.06 | 809.69 | 34.37 | 24.557 | |
| 6,700.00 | 6,688.02 | 6,597.67 | 6,536.99 | 16.85 | 20.55 | 85.49 | -134.50 | 641.19 | 861.57 | 826.74 | 34.83 | 24.735 | |
| 6,800.00 | 6,788.02 | 6,695.98 | 6,633.65 | 16.90 | 20.98 | 85.83 | -138.32 | 658.76 | 879.11 | 843.82 | 35.30 | 24.907 | |
| 6,900.00 | 6,888.02 | 6,794.30 | 6,730.31 | 16.94 | 21.42 | 86.16 | -142.15 | 676.32 | 896.69 | 860.93 | 35.76 | 25.073 | |
| 7,000.00 | 6,988.02 | 6,892.61 | 6,826.96 | 16.99 | 21.85 | 86.48 | -145.97 | 693.88 | 914.29 | 878.06 | 36.23 | 25.234 | |
| 7,100.00 | 7,088.02 | 6,990.93 | 6,923.62 | 17.03 | 22.28 | 86.78 | -149.79 | 711.45 | 931.92 | 895.21 | 36.71 | 25.389 | |
| 7,200.00 | 7,188.02 | 7,089.24 | 7,020.28 | 17.08 | 22.72 | 87.08 | -153.61 | 729.01 | 949.57 | 912.39 | 37.18 | 25.540 | |
| 7,300.00 | 7,288.02 | 7,187.55 | 7,116.94 | 17.12 | 23.15 | 87.36 | -157.44 | 746.58 | 967.25 | 929.59 | 37.66 | 25.686 | |
| 7,400.00 | 7,388.02 | 7,285.87 | 7,213.59 | 17.17 | 23.59 | 87.64 | -161.26 | 764.14 | 984.95 | 946.81 | 38.14 | 25.827 | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -1.72 | -274.95 | 274.96 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -1.72 | -274.95 | 274.96 | 273.37 | 1.58 | 173.565 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -1.72 | -274.95 | 274.96 | 272.06 | 2.90 | 94.836 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -1.72 | -274.95 | 274.96 | 271.17 | 3.79 | 72.570 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -1.72 | -274.95 | 274.96 | 270.44 | 4.51 | 60.939 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -1.72 | -274.95 | 274.96 | 269.82 | 5.14 | 53.499 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -1.72 | -274.95 | 274.96 | 269.25 | 5.70 | 48.214 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -1.72 | -274.95 | 274.96 | 268.74 | 6.22 | 44.207 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -1.72 | -274.95 | 274.96 | 268.25 | 6.70 | 41.033 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -1.72 | -274.95 | 274.96 | 267.80 | 7.15 | 38.438 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.79 | 3.79 | -90.36 | -1.72 | -274.95 | 274.96 | 267.37 | 7.58 | 36.263 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 4.00 | 4.00 | -90.36 | -1.72 | -274.95 | 274.96 | 266.96 | 7.99 | 34.405 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 4.19 | 4.19 | -90.36 | -1.72 | -274.95 | 274.96 | 266.57 | 8.38 | 32.794 | |
| 1,300.00 | 1,300.00 | 1,300.00 | 1,300.00 | 4.38 | 4.38 | -90.36 | -1.72 | -274.95 | 274.96 | 266.19 | 8.76 | 31.380 | |
| 1,400.00 | 1,400.00 | 1,400.00 | 1,400.00 | 4.56 | 4.56 | -90.36 | -1.72 | -274.95 | 274.96 | 265.83 | 9.13 | 30.124 | |
| 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 4.74 | 4.74 | -90.36 | -1.72 | -274.95 | 274.96 | 265.47 | 9.48 | 28.999 | |
| 1,600.00 | 1,600.00 | 1,600.00 | 1,600.00 | 4.91 | 4.91 | -90.36 | -1.72 | -274.95 | 274.96 | 265.13 | 9.83 | 27.984 | |
| 1,700.00 | 1,700.00 | 1,700.00 | 1,700.00 | 5.08 | 5.08 | -90.36 | -1.72 | -274.95 | 274.96 | 264.79 | 10.16 | 27.061 | |
| 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 5.24 | 5.24 | -90.36 | -1.72 | -274.95 | 274.96 | 264.47 | 10.49 | 26.218 | |
| 1,900.00 | 1,900.00 | 1,900.00 | 1,900.00 | 5.40 | 5.40 | -90.36 | -1.72 | -274.95 | 274.96 | 264.15 | 10.81 | 25.443 | |
| 2,000.00 | 2,000.00 | 2,000.00 | 2,000.00 | 5.56 | 5.56 | -90.36 | -1.72 | -274.95 | 274.96 | 263.84 | 11.12 | 24.728 | CC, ES |
| 2,100.00 | 2,099.99 | 2,095.12 | 2,095.11 | 5.73 | 5.72 | 79.71 | -2.56 | -275.79 | 275.61 | 264.21 | 11.39 | 24.191 | |
| 2,200.00 | 2,199.91 | 2,190.21 | 2,190.14 | 5.88 | 5.87 | 79.93 | -5.07 | -278.30 | 277.56 | 265.94 | 11.62 | 23.879 | |
| 2,300.00 | 2,299.69 | 2,285.25 | 2,284.98 | 6.05 | 6.04 | 80.28 | -9.25 | -282.48 | 280.83 | 268.97 | 11.86 | 23.681 | |
| 2,316.67 | 2,316.30 | 2,300.00 | 2,299.69 | 6.06 | 6.07 | 80.34 | -10.05 | -283.28 | 281.50 | 269.63 | 11.88 | 23.701 | |
| 2,400.00 | 2,399.35 | 2,380.19 | 2,379.56 | 6.20 | 6.23 | 80.64 | -15.09 | -288.32 | 285.57 | 273.48 | 12.09 | 23.630 | |
| 2,500.00 | 2,499.01 | 2,474.99 | 2,473.77 | 6.38 | 6.44 | 80.67 | -22.58 | -295.81 | 292.03 | 279.69 | 12.34 | 23.664 | |
| 2,600.00 | 2,598.66 | 2,571.51 | 2,569.41 | 6.57 | 6.60 | 80.39 | -31.76 | -304.99 | 300.10 | 287.54 | 12.56 | 23.885 | |
| 2,700.00 | 2,698.32 | 2,671.14 | 2,668.07 | 6.79 | 6.82 | 80.06 | -41.57 | -314.80 | 308.50 | 295.66 | 12.85 | 24.009 | |
| 2,716.67 | 2,714.93 | 2,687.75 | 2,684.51 | 6.81 | 6.86 | 80.01 | -43.20 | -316.43 | 309.91 | 297.02 | 12.88 | 24.053 | |
| 2,800.00 | 2,798.00 | 2,770.82 | 2,766.78 | 7.00 | 7.07 | 64.58 | -51.38 | -324.61 | 316.15 | 302.99 | 13.16 | 24.019 | |
| 2,900.00 | 2,897.70 | 2,870.61 | 2,865.60 | 7.23 | 7.34 | 44.83 | -61.20 | -334.43 | 321.63 | 308.10 | 13.53 | 23.773 | |
| 2,949.02 | 2,946.56 | 2,919.55 | 2,914.06 | 7.31 | 7.47 | 35.79 | -66.01 | -339.24 | 323.53 | 309.84 | 13.68 | 23.643 | |
| 3,000.00 | 2,997.36 | 2,970.44 | 2,964.45 | 7.40 | 7.62 | 35.36 | -71.02 | -344.25 | 325.24 | 311.39 | 13.86 | 23.473 | |
| 3,100.00 | 3,097.02 | 3,068.76 | 3,061.83 | 7.63 | 7.87 | 34.56 | -80.56 | -354.01 | 328.74 | 314.51 | 14.24 | 23.090 | |
| 3,200.00 | 3,196.68 | 3,164.57 | 3,156.74 | 7.88 | 8.15 | 34.09 | -88.21 | -364.55 | 333.28 | 318.61 | 14.67 | 22.722 | |
| 3,300.00 | 3,296.33 | 3,260.32 | 3,251.60 | 8.13 | 8.43 | 33.99 | -93.82 | -376.34 | 339.04 | 323.93 | 15.11 | 22.436 | |
| 3,400.00 | 3,395.99 | 3,359.44 | 3,349.74 | 8.40 | 8.73 | 34.12 | -98.26 | -389.40 | 345.58 | 329.99 | 15.59 | 22.162 | |
| 3,500.00 | 3,495.65 | 3,459.22 | 3,448.55 | 8.67 | 9.06 | 34.26 | -102.69 | -402.56 | 352.15 | 336.03 | 16.12 | 21.849 | |
| 3,600.00 | 3,595.30 | 3,559.00 | 3,547.36 | 8.96 | 9.39 | 34.38 | -107.13 | -415.72 | 358.72 | 342.06 | 16.65 | 21.539 | |
| 3,700.00 | 3,694.96 | 3,658.78 | 3,646.17 | 9.25 | 9.73 | 34.51 | -111.56 | -428.88 | 365.29 | 348.08 | 17.21 | 21.231 | |
| 3,800.00 | 3,794.62 | 3,758.56 | 3,744.98 | 9.54 | 10.07 | 34.63 | -116.00 | -442.04 | 371.86 | 354.09 | 17.77 | 20.926 | |
| 3,900.00 | 3,894.27 | 3,858.34 | 3,843.79 | 9.84 | 10.42 | 34.75 | -120.43 | -455.20 | 378.43 | 360.08 | 18.35 | 20.627 | |
| 4,000.00 | 3,993.93 | 3,958.12 | 3,942.60 | 10.15 | 10.78 | 34.86 | -124.87 | -468.36 | 385.00 | 366.07 | 18.93 | 20.334 | |
| 4,100.00 | 4,093.59 | 4,057.90 | 4,041.41 | 10.47 | 11.15 | 34.97 | -129.30 | -481.52 | 391.58 | 372.05 | 19.53 | 20.049 | |
| 4,200.00 | 4,193.24 | 4,157.68 | 4,140.22 | 10.78 | 11.52 | 35.07 | -133.74 | -494.68 | 398.15 | 378.02 | 20.14 | 19.773 | |
| 4,300.00 | 4,292.90 | 4,257.46 | 4,239.03 | 11.11 | 11.89 | 35.17 | -138.17 | -507.84 | 404.73 | 383.98 | 20.75 | 19.505 | |
| 4,400.00 | 4,392.56 | 4,357.24 | 4,337.84 | 11.43 | 12.27 | 35.27 | -142.61 | -521.00 | 411.31 | 389.94 | 21.37 | 19.246 | |
| 4,500.00 | 4,492.21 | 4,457.03 | 4,436.65 | 11.76 | 12.65 | 35.37 | -147.04 | -534.16 | 417.89 | 395.89 | 22.00 | 18.997 | |
| 4,600.00 | 4,591.87 | 4,556.81 | 4,535.46 | 12.10 | 13.03 | 35.46 | -151.48 | -547.32 | 424.47 | 401.84 | 22.63 | 18.756 | |
| 4,700.00 | 4,691.53 | 4,656.59 | 4,634.27 | 12.43 | 13.42 | 35.55 | -155.91 | -560.48 | 431.05 | 407.78 | 23.27 | 18.523 | |
| 4,800.00 | 4,791.18 | 4,756.37 | 4,733.08 | 12.77 | 13.81 | 35.63 | -160.35 | -573.64 | 437.64 | 413.72 | 23.91 | 18.300 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,900.00 | 4,890.84 | 4,856.15 | 4,831.89 | 13.11 | 14.20 | 35.72 | -164.79 | -586.80 | 444.22 | 419.66 | 24.56 | 18.084 | |
| 5,000.00 | 4,990.50 | 4,955.93 | 4,930.70 | 13.45 | 14.59 | 35.80 | -169.22 | -599.96 | 450.81 | 425.59 | 25.22 | 17.877 | |
| 5,100.00 | 5,090.15 | 5,055.71 | 5,029.51 | 13.80 | 14.99 | 35.88 | -173.66 | -613.12 | 457.39 | 431.52 | 25.87 | 17.678 | |
| 5,200.00 | 5,189.81 | 5,155.49 | 5,128.32 | 14.15 | 15.39 | 35.96 | -178.09 | -626.28 | 463.98 | 437.44 | 26.53 | 17.486 | |
| 5,300.00 | 5,289.47 | 5,255.27 | 5,227.13 | 14.50 | 15.79 | 36.03 | -182.53 | -639.44 | 470.57 | 443.37 | 27.20 | 17.301 | |
| 5,400.00 | 5,389.12 | 5,355.05 | 5,325.94 | 14.85 | 16.19 | 36.10 | -186.96 | -652.60 | 477.15 | 449.29 | 27.86 | 17.124 | |
| 5,500.00 | 5,488.78 | 5,454.83 | 5,424.75 | 15.20 | 16.59 | 36.18 | -191.40 | -665.76 | 483.74 | 455.22 | 28.53 | 16.957 | |
| 5,600.00 | 5,588.43 | 5,564.87 | 5,533.84 | 15.55 | 17.03 | 36.28 | -195.99 | -679.40 | 489.56 | 460.32 | 29.24 | 16.743 | |
| 5,615.36 | 5,603.74 | 5,582.35 | 5,551.20 | 15.60 | 17.10 | 36.31 | -196.64 | -681.30 | 490.22 | 460.87 | 29.34 | 16.706 | |
| 5,700.00 | 5,688.16 | 5,678.71 | 5,647.07 | 15.90 | 17.48 | 36.47 | -199.72 | -690.46 | 493.40 | 463.47 | 29.93 | 16.485 | |
| 5,800.00 | 5,788.05 | 5,792.69 | 5,760.74 | 16.23 | 17.90 | 36.57 | -202.37 | -698.32 | 496.49 | 465.93 | 30.56 | 16.245 | |
| 5,900.00 | 5,888.02 | 5,906.77 | 5,874.72 | 16.50 | 18.27 | 36.58 | -203.94 | -702.97 | 498.85 | 467.76 | 31.10 | 16.042 | |
| 5,931.98 | 5,920.00 | 5,943.27 | 5,911.21 | 16.53 | 18.36 | -90.34 | -204.21 | -703.78 | 499.45 | 468.26 | 31.20 | 16.010 | |
| 6,000.00 | 5,988.02 | 6,020.09 | 5,988.02 | 16.55 | 18.52 | -90.36 | -204.42 | -704.40 | 500.00 | 468.67 | 31.33 | 15.959 | |
| 6,100.00 | 6,088.02 | 6,120.09 | 6,088.02 | 16.59 | 18.56 | -90.36 | -204.42 | -704.40 | 500.00 | 468.57 | 31.43 | 15.910 | |
| 6,200.00 | 6,188.02 | 6,220.09 | 6,188.02 | 16.63 | 18.61 | -90.36 | -204.42 | -704.40 | 500.00 | 468.48 | 31.52 | 15.864 | |
| 6,300.00 | 6,288.02 | 6,320.09 | 6,288.02 | 16.68 | 18.65 | -90.36 | -204.42 | -704.40 | 500.00 | 468.39 | 31.61 | 15.817 | |
| 6,400.00 | 6,388.02 | 6,420.09 | 6,388.02 | 16.72 | 18.69 | -90.36 | -204.42 | -704.40 | 500.00 | 468.30 | 31.70 | 15.771 | |
| 6,500.00 | 6,488.02 | 6,520.09 | 6,488.02 | 16.76 | 18.73 | -90.36 | -204.42 | -704.40 | 500.00 | 468.20 | 31.80 | 15.724 | |
| 6,600.00 | 6,588.02 | 6,620.09 | 6,588.02 | 16.81 | 18.77 | -90.36 | -204.42 | -704.40 | 500.00 | 468.11 | 31.89 | 15.678 | |
| 6,700.00 | 6,688.02 | 6,720.09 | 6,688.02 | 16.85 | 18.81 | -90.36 | -204.42 | -704.40 | 500.00 | 468.01 | 31.99 | 15.631 | |
| 6,800.00 | 6,788.02 | 6,820.09 | 6,788.02 | 16.90 | 18.86 | -90.36 | -204.42 | -704.40 | 500.00 | 467.92 | 32.08 | 15.585 | |
| 6,900.00 | 6,888.02 | 6,920.09 | 6,888.02 | 16.94 | 18.90 | -90.36 | -204.42 | -704.40 | 500.00 | 467.82 | 32.18 | 15.539 | |
| 7,000.00 | 6,988.02 | 7,020.09 | 6,988.02 | 16.99 | 18.94 | -90.36 | -204.42 | -704.40 | 500.00 | 467.73 | 32.27 | 15.492 | |
| 7,100.00 | 7,088.02 | 7,120.09 | 7,088.02 | 17.03 | 18.99 | -90.36 | -204.42 | -704.40 | 500.00 | 467.63 | 32.37 | 15.446 | |
| 7,200.00 | 7,188.02 | 7,220.09 | 7,188.02 | 17.08 | 19.03 | -90.36 | -204.42 | -704.40 | 500.00 | 467.53 | 32.47 | 15.399 | |
| 7,300.00 | 7,288.02 | 7,320.09 | 7,288.02 | 17.12 | 19.07 | -90.36 | -204.42 | -704.40 | 500.00 | 467.43 | 32.57 | 15.353 | |
| 7,400.00 | 7,388.02 | 7,420.09 | 7,388.02 | 17.17 | 19.12 | -90.36 | -204.42 | -704.40 | 500.00 | 467.33 | 32.67 | 15.307 | |
| 7,500.00 | 7,488.02 | 7,520.09 | 7,488.02 | 17.21 | 19.16 | -90.36 | -204.42 | -704.40 | 500.00 | 467.24 | 32.76 | 15.260 | |
| 7,600.00 | 7,588.02 | 7,620.09 | 7,588.02 | 17.26 | 19.21 | -90.36 | -204.42 | -704.40 | 500.00 | 467.14 | 32.86 | 15.214 | |
| 7,700.00 | 7,688.02 | 7,720.09 | 7,688.02 | 17.31 | 19.25 | -90.36 | -204.42 | -704.40 | 500.00 | 467.04 | 32.96 | 15.168 | |
| 7,800.00 | 7,788.02 | 7,820.09 | 7,788.02 | 17.35 | 19.30 | -90.36 | -204.42 | -704.40 | 500.00 | 466.93 | 33.07 | 15.122 | |
| 7,900.00 | 7,888.02 | 7,920.09 | 7,888.02 | 17.40 | 19.34 | -90.36 | -204.42 | -704.40 | 500.00 | 466.83 | 33.17 | 15.076 | |
| 8,000.00 | 7,988.02 | 8,020.09 | 7,988.02 | 17.45 | 19.39 | -90.36 | -204.42 | -704.40 | 500.00 | 466.73 | 33.27 | 15.029 | |
| 8,100.00 | 8,088.02 | 8,120.09 | 8,088.02 | 17.50 | 19.43 | -90.36 | -204.42 | -704.40 | 500.00 | 466.63 | 33.37 | 14.983 | |
| 8,200.00 | 8,188.02 | 8,220.09 | 8,188.02 | 17.54 | 19.48 | -90.36 | -204.42 | -704.40 | 500.00 | 466.53 | 33.47 | 14.938 | |
| 8,300.00 | 8,288.02 | 8,320.09 | 8,288.02 | 17.59 | 19.53 | -90.36 | -204.42 | -704.40 | 500.00 | 466.42 | 33.58 | 14.892 | |
| 8,400.00 | 8,388.02 | 8,420.09 | 8,388.02 | 17.64 | 19.57 | -90.36 | -204.42 | -704.40 | 500.00 | 466.32 | 33.68 | 14.846 | |
| 8,500.00 | 8,488.02 | 8,520.09 | 8,488.02 | 17.69 | 19.62 | -90.36 | -204.42 | -704.40 | 500.00 | 466.22 | 33.78 | 14.800 | |
| 8,600.00 | 8,588.02 | 8,620.09 | 8,588.02 | 17.74 | 19.67 | -90.36 | -204.42 | -704.40 | 500.00 | 466.11 | 33.89 | 14.755 | |
| 8,700.00 | 8,688.02 | 8,720.09 | 8,688.02 | 17.79 | 19.71 | -90.36 | -204.42 | -704.40 | 500.00 | 466.01 | 33.99 | 14.709 | |
| 8,800.00 | 8,788.02 | 8,820.09 | 8,788.02 | 17.84 | 19.76 | -90.36 | -204.42 | -704.40 | 500.00 | 465.90 | 34.10 | 14.664 | |
| 8,900.00 | 8,888.02 | 8,920.09 | 8,888.02 | 17.89 | 19.81 | -90.36 | -204.42 | -704.40 | 500.00 | 465.80 | 34.20 | 14.618 | |
| 9,000.00 | 8,988.02 | 9,020.09 | 8,988.02 | 17.94 | 19.86 | -90.36 | -204.42 | -704.40 | 500.00 | 465.69 | 34.31 | 14.573 | |
| 9,100.00 | 9,088.02 | 9,120.09 | 9,088.02 | 17.99 | 19.90 | -90.36 | -204.42 | -704.40 | 500.00 | 465.58 | 34.42 | 14.528 | |
| 9,200.00 | 9,188.02 | 9,220.09 | 9,188.02 | 18.04 | 19.95 | -90.36 | -204.42 | -704.40 | 500.00 | 465.48 | 34.52 | 14.483 | |
| 9,300.00 | 9,288.02 | 9,320.09 | 9,288.02 | 18.09 | 20.00 | -90.36 | -204.42 | -704.40 | 500.00 | 465.37 | 34.63 | 14.438 | |
| 9,400.00 | 9,388.02 | 9,420.09 | 9,388.02 | 18.14 | 20.05 | -90.36 | -204.42 | -704.40 | 500.00 | 465.26 | 34.74 | 14.393 | |
| 9,500.00 | 9,488.02 | 9,520.09 | 9,488.02 | 18.19 | 20.10 | -90.36 | -204.42 | -704.40 | 500.00 | 465.15 | 34.85 | 14.348 | |
| 9,600.00 | 9,588.02 | 9,620.09 | 9,588.02 | 18.24 | 20.15 | -90.36 | -204.42 | -704.40 | 500.00 | 465.04 | 34.96 | 14.303 | |
| 9,700.00 | 9,688.02 | 9,720.09 | 9,688.02 | 18.29 | 20.20 | -90.36 | -204.42 | -704.40 | 500.00 | 464.93 | 35.07 | 14.259 | |
| 9,800.00 | 9,788.02 | 9,820.09 | 9,788.02 | 18.34 | 20.25 | -90.36 | -204.42 | -704.40 | 500.00 | 464.83 | 35.17 | 14.215 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,807.22 | 9,795.24 | 9,827.31 | 9,795.24 | 18.35 | 20.25 | -90.36 | -204.42 | -704.40 | 500.00 | 464.82 | 35.18 | 14.212 | |
| 9,900.00 | 9,888.02 | 9,920.02 | 9,887.93 | 18.39 | 20.26 | -90.24 | -203.30 | -704.41 | 500.00 | 464.75 | 35.25 | 14.185 SF | |
| 10,000.00 | 9,988.02 | 10,017.54 | 9,984.27 | 18.45 | 20.17 | -88.59 | -188.95 | -704.51 | 500.26 | 465.20 | 35.07 | 14.266 | |
| 10,100.00 | 10,088.02 | 10,107.84 | 10,070.13 | 18.50 | 20.06 | -85.43 | -161.29 | -704.70 | 502.20 | 467.53 | 34.67 | 14.484 | |
| 10,200.00 | 10,188.02 | 10,187.84 | 10,141.74 | 18.55 | 19.97 | -81.43 | -125.79 | -704.95 | 508.31 | 474.07 | 34.24 | 14.848 | |
| 10,300.00 | 10,288.02 | 10,256.63 | 10,198.87 | 18.60 | 19.91 | -77.21 | -87.53 | -705.22 | 521.24 | 487.30 | 33.94 | 15.356 | |
| 10,400.00 | 10,388.02 | 10,314.85 | 10,243.34 | 18.66 | 19.88 | -73.20 | -50.00 | -705.48 | 543.03 | 509.07 | 33.96 | 15.991 | |
| 10,500.00 | 10,488.02 | 10,363.79 | 10,277.62 | 18.71 | 19.86 | -69.63 | -15.09 | -705.73 | 574.67 | 540.32 | 34.34 | 16.733 | |
| 10,600.00 | 10,588.02 | 10,400.00 | 10,301.00 | 18.76 | 19.86 | -66.91 | 12.56 | -705.92 | 616.12 | 580.99 | 35.13 | 17.538 | |
| 10,700.00 | 10,688.02 | 10,450.00 | 10,330.31 | 18.82 | 19.88 | -63.13 | 53.04 | -706.21 | 666.64 | 630.86 | 35.78 | 18.629 | |
| 10,800.00 | 10,788.02 | 10,469.23 | 10,340.63 | 18.87 | 19.90 | -61.68 | 69.27 | -706.32 | 724.74 | 687.80 | 36.93 | 19.623 | |
| 10,900.00 | 10,888.02 | 10,500.00 | 10,355.99 | 18.92 | 19.93 | -59.38 | 95.92 | -706.51 | 789.60 | 751.74 | 37.86 | 20.857 | |
| 11,000.00 | 10,988.02 | 10,516.33 | 10,363.55 | 18.98 | 19.95 | -58.18 | 110.39 | -706.61 | 859.81 | 820.94 | 38.87 | 22.119 | |
| 11,067.02 | 11,055.04 | 10,529.31 | 10,369.27 | 19.00 | 19.97 | -57.23 | 122.04 | -706.69 | 909.44 | 869.97 | 39.47 | 23.042 | |
| 11,100.00 | 11,088.00 | 10,550.00 | 10,377.83 | 18.99 | 20.00 | -45.13 | 140.88 | -706.82 | 934.36 | 894.73 | 39.63 | 23.576 | |
| 11,150.00 | 11,137.73 | 10,550.00 | 10,377.83 | 18.95 | 20.00 | -41.52 | 140.88 | -706.82 | 970.59 | 930.40 | 40.19 | 24.151 | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -1.57 | -249.95 | 249.95 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -1.57 | -249.95 | 249.95 | 248.37 | 1.58 | 157.784 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -1.57 | -249.95 | 249.95 | 247.06 | 2.90 | 86.213 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -1.57 | -249.95 | 249.95 | 246.17 | 3.79 | 65.972 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -1.57 | -249.95 | 249.95 | 245.44 | 4.51 | 55.398 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -1.57 | -249.95 | 249.95 | 244.82 | 5.14 | 48.635 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -1.57 | -249.95 | 249.95 | 244.25 | 5.70 | 43.830 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -1.57 | -249.95 | 249.95 | 243.74 | 6.22 | 40.187 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -1.57 | -249.95 | 249.95 | 243.25 | 6.70 | 37.302 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -1.57 | -249.95 | 249.95 | 242.80 | 7.15 | 34.943 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.79 | 3.79 | -90.36 | -1.57 | -249.95 | 249.95 | 242.37 | 7.58 | 32.966 | |
| 1,100.00 | 1,100.00 | 1,100.00 | 1,100.00 | 4.00 | 4.00 | -90.36 | -1.57 | -249.95 | 249.95 | 241.96 | 7.99 | 31.277 | |
| 1,200.00 | 1,200.00 | 1,200.00 | 1,200.00 | 4.19 | 4.19 | -90.36 | -1.57 | -249.95 | 249.95 | 241.57 | 8.38 | 29.813 | |
| 1,300.00 | 1,300.00 | 1,300.00 | 1,300.00 | 4.38 | 4.38 | -90.36 | -1.57 | -249.95 | 249.95 | 241.19 | 8.76 | 28.526 | |
| 1,400.00 | 1,400.00 | 1,400.00 | 1,400.00 | 4.56 | 4.56 | -90.36 | -1.57 | -249.95 | 249.95 | 240.83 | 9.13 | 27.385 | |
| 1,500.00 | 1,500.00 | 1,500.00 | 1,500.00 | 4.74 | 4.74 | -90.36 | -1.57 | -249.95 | 249.95 | 240.47 | 9.48 | 26.362 | |
| 1,600.00 | 1,600.00 | 1,600.00 | 1,600.00 | 4.91 | 4.91 | -90.36 | -1.57 | -249.95 | 249.95 | 240.13 | 9.83 | 25.439 | |
| 1,700.00 | 1,700.00 | 1,700.00 | 1,700.00 | 5.08 | 5.08 | -90.36 | -1.57 | -249.95 | 249.95 | 239.79 | 10.16 | 24.601 | |
| 1,800.00 | 1,800.00 | 1,800.00 | 1,800.00 | 5.24 | 5.24 | -90.36 | -1.57 | -249.95 | 249.95 | 239.47 | 10.49 | 23.834 | |
| 1,900.00 | 1,900.00 | 1,900.00 | 1,900.00 | 5.40 | 5.40 | -90.36 | -1.57 | -249.95 | 249.95 | 239.15 | 10.81 | 23.130 | |
| 2,000.00 | 2,000.00 | 2,000.00 | 2,000.00 | 5.56 | 5.56 | -90.36 | -1.57 | -249.95 | 249.95 | 238.84 | 11.12 | 22.479 | |
| 2,100.00 | 2,099.99 | 2,099.99 | 2,099.99 | 5.73 | 5.71 | 79.94 | -1.57 | -249.95 | 249.72 | 238.32 | 11.40 | 21.900 | |
| 2,200.00 | 2,199.91 | 2,199.91 | 2,199.91 | 5.88 | 5.86 | 80.84 | -1.57 | -249.95 | 249.07 | 237.41 | 11.66 | 21.364 | |
| 2,300.00 | 2,299.69 | 2,299.69 | 2,299.69 | 6.05 | 6.01 | 82.34 | -1.57 | -249.95 | 248.11 | 236.20 | 11.91 | 20.832 | |
| 2,316.67 | 2,316.30 | 2,316.30 | 2,316.30 | 6.06 | 6.03 | 82.65 | -1.57 | -249.95 | 247.93 | 236.00 | 11.93 | 20.774 | |
| 2,400.00 | 2,399.35 | 2,399.35 | 2,399.35 | 6.20 | 6.16 | 84.23 | -1.57 | -249.95 | 247.14 | 235.00 | 12.14 | 20.353 | |
| 2,500.00 | 2,499.01 | 2,499.01 | 2,499.01 | 6.38 | 6.30 | 86.14 | -1.57 | -249.95 | 246.44 | 234.05 | 12.39 | 19.888 | |
| 2,600.00 | 2,598.66 | 2,598.66 | 2,598.66 | 6.57 | 6.44 | 88.06 | -1.57 | -249.95 | 246.02 | 233.38 | 12.64 | 19.463 | |
| 2,700.00 | 2,698.32 | 2,698.32 | 2,698.32 | 6.79 | 6.58 | 89.98 | -1.57 | -249.95 | 245.88 | 232.99 | 12.89 | 19.076 | |
| 2,701.05 | 2,699.37 | 2,699.37 | 2,699.37 | 6.79 | 6.58 | 90.00 | -1.57 | -249.95 | 245.88 | 232.99 | 12.89 | 19.074 | |
| 2,716.67 | 2,714.93 | 2,714.93 | 2,714.93 | 6.81 | 6.60 | 90.30 | -1.57 | -249.95 | 245.88 | 232.97 | 12.91 | 19.039 | |
| 2,800.00 | 2,798.00 | 2,798.00 | 2,798.00 | 7.00 | 6.71 | 76.70 | -1.57 | -249.95 | 245.16 | 232.03 | 13.13 | 18.665 | |
| 2,900.00 | 2,897.70 | 2,897.70 | 2,897.70 | 7.23 | 6.85 | 59.20 | -1.57 | -249.95 | 242.24 | 228.83 | 13.41 | 18.066 | |
| 2,949.02 | 2,946.56 | 2,946.56 | 2,946.56 | 7.31 | 6.91 | 51.29 | -1.57 | -249.95 | 239.98 | 226.48 | 13.50 | 17.775 | |
| 3,000.00 | 2,997.36 | 2,997.36 | 2,997.36 | 7.40 | 6.98 | 52.08 | -1.57 | -249.95 | 237.36 | 223.76 | 13.60 | 17.455 | |
| 3,100.00 | 3,097.02 | 3,103.25 | 3,103.24 | 7.63 | 7.13 | 53.82 | -1.85 | -248.58 | 231.04 | 217.17 | 13.87 | 16.655 | |
| 3,200.00 | 3,196.68 | 3,208.83 | 3,208.73 | 7.88 | 7.28 | 55.75 | -2.72 | -244.36 | 222.19 | 208.06 | 14.13 | 15.720 | |
| 3,300.00 | 3,296.33 | 3,313.78 | 3,313.42 | 8.13 | 7.44 | 57.96 | -4.16 | -237.33 | 210.88 | 196.48 | 14.41 | 14.639 | |
| 3,400.00 | 3,395.99 | 3,417.93 | 3,417.09 | 8.40 | 7.63 | 60.57 | -6.16 | -227.58 | 197.23 | 182.54 | 14.69 | 13.428 | |
| 3,500.00 | 3,495.65 | 3,521.15 | 3,519.53 | 8.67 | 7.83 | 63.78 | -8.71 | -215.18 | 181.40 | 166.43 | 14.98 | 12.111 | |
| 3,600.00 | 3,595.30 | 3,622.26 | 3,619.53 | 8.96 | 8.10 | 67.82 | -11.72 | -200.48 | 163.76 | 148.41 | 15.34 | 10.672 | |
| 3,700.00 | 3,694.96 | 3,719.85 | 3,715.92 | 9.25 | 8.54 | 72.75 | -14.78 | -185.58 | 146.36 | 130.46 | 15.90 | 9.205 | |
| 3,800.00 | 3,794.62 | 3,817.43 | 3,812.31 | 9.54 | 8.75 | 78.92 | -17.84 | -170.68 | 130.31 | 114.08 | 16.24 | 8.025 | |
| 3,900.00 | 3,894.27 | 3,915.01 | 3,908.70 | 9.84 | 8.99 | 86.65 | -20.89 | -155.78 | 116.18 | 99.55 | 16.62 | 6.989 | |
| 4,000.00 | 3,993.93 | 4,012.60 | 4,005.09 | 10.15 | 9.23 | 96.22 | -23.95 | -140.88 | 104.73 | 87.63 | 17.10 | 6.125 | |
| 4,100.00 | 4,093.59 | 4,110.18 | 4,101.48 | 10.47 | 9.49 | 107.64 | -27.01 | -125.97 | 96.92 | 79.21 | 17.71 | 5.472 | |
| 4,200.00 | 4,193.24 | 4,207.76 | 4,197.87 | 10.78 | 9.76 | 120.36 | -30.07 | -111.07 | 93.67 | 75.20 | 18.47 | 5.072 | |
| 4,214.95 | 4,208.14 | 4,222.35 | 4,212.28 | 10.83 | 9.81 | 122.31 | -30.53 | -108.84 | 93.61 | 75.02 | 18.59 | 5.035 | CC, ES |
| 4,300.00 | 4,292.90 | 4,305.35 | 4,294.26 | 11.11 | 10.05 | 133.28 | -33.13 | -96.17 | 95.45 | 76.13 | 19.31 | 4.942 | SF |
| 4,400.00 | 4,392.56 | 4,402.93 | 4,390.65 | 11.43 | 10.34 | 145.17 | -36.19 | -81.27 | 101.98 | 81.82 | 20.16 | 5.058 | |
| 4,500.00 | 4,492.21 | 4,500.51 | 4,487.04 | 11.76 | 10.64 | 155.30 | -39.24 | -66.36 | 112.46 | 91.50 | 20.96 | 5.365 | |
| 4,600.00 | 4,591.87 | 4,598.09 | 4,583.43 | 12.10 | 10.96 | 163.56 | -42.30 | -51.46 | 125.89 | 104.19 | 21.70 | 5.801 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,700.00 | 4,691.53 | 4,695.68 | 4,679.82 | 12.43 | 11.28 | 170.16 | -45.36 | -36.56 | 141.44 | 119.05 | 22.39 | 6.316 | |
| 4,800.00 | 4,791.18 | 4,793.26 | 4,776.21 | 12.77 | 11.61 | 175.42 | -48.42 | -21.66 | 158.48 | 135.43 | 23.05 | 6.875 | |
| 4,900.00 | 4,890.84 | 4,890.84 | 4,872.60 | 13.11 | 11.94 | 179.65 | -51.48 | -6.76 | 176.59 | 152.89 | 23.70 | 7.452 | |
| 5,000.00 | 4,990.50 | 4,988.43 | 4,968.99 | 13.45 | 12.28 | -176.91 | -54.53 | 8.15 | 195.46 | 171.13 | 24.33 | 8.033 | |
| 5,100.00 | 5,090.15 | 5,086.01 | 5,065.38 | 13.80 | 12.63 | -174.08 | -57.59 | 23.05 | 214.90 | 189.93 | 24.96 | 8.609 | |
| 5,200.00 | 5,189.81 | 5,183.59 | 5,161.77 | 14.15 | 12.98 | -171.72 | -60.65 | 37.95 | 234.76 | 209.16 | 25.60 | 9.171 | |
| 5,300.00 | 5,289.47 | 5,281.18 | 5,258.16 | 14.50 | 13.34 | -169.73 | -63.71 | 52.85 | 254.95 | 228.72 | 26.23 | 9.718 | |
| 5,400.00 | 5,389.12 | 5,378.76 | 5,354.55 | 14.85 | 13.70 | -168.03 | -66.77 | 67.75 | 275.39 | 248.52 | 26.87 | 10.247 | |
| 5,500.00 | 5,488.78 | 5,476.34 | 5,450.94 | 15.20 | 14.07 | -166.56 | -69.82 | 82.66 | 296.04 | 268.52 | 27.52 | 10.757 | |
| 5,600.00 | 5,588.43 | 5,573.92 | 5,547.33 | 15.55 | 14.44 | -165.29 | -72.88 | 97.56 | 316.85 | 288.67 | 28.17 | 11.247 | |
| 5,615.36 | 5,603.74 | 5,588.91 | 5,562.13 | 15.60 | 14.49 | -165.11 | -73.35 | 99.85 | 320.05 | 291.79 | 28.27 | 11.323 | |
| 5,700.00 | 5,688.16 | 5,671.67 | 5,643.88 | 15.90 | 14.81 | -164.19 | -75.94 | 112.49 | 336.90 | 308.08 | 28.82 | 11.690 | |
| 5,800.00 | 5,788.05 | 5,769.84 | 5,740.85 | 16.23 | 15.19 | -163.12 | -79.02 | 127.48 | 354.65 | 325.19 | 29.45 | 12.041 | |
| 5,900.00 | 5,888.02 | 5,868.37 | 5,838.18 | 16.50 | 15.57 | -162.02 | -82.11 | 142.52 | 370.06 | 340.02 | 30.04 | 12.320 | |
| 5,931.98 | 5,920.00 | 5,899.95 | 5,869.37 | 16.53 | 15.69 | 71.43 | -83.10 | 147.35 | 374.50 | 344.33 | 30.17 | 12.412 | |
| 6,000.00 | 5,988.02 | 5,967.14 | 5,935.73 | 16.55 | 15.96 | 72.23 | -85.20 | 157.61 | 383.74 | 353.32 | 30.41 | 12.617 | |
| 6,100.00 | 6,088.02 | 6,065.92 | 6,033.30 | 16.59 | 16.35 | 73.33 | -88.30 | 172.69 | 397.43 | 366.64 | 30.80 | 12.906 | |
| 6,200.00 | 6,188.02 | 6,164.69 | 6,130.87 | 16.63 | 16.74 | 74.35 | -91.39 | 187.77 | 411.27 | 380.08 | 31.18 | 13.189 | |
| 6,300.00 | 6,288.02 | 6,263.47 | 6,228.44 | 16.68 | 17.14 | 75.31 | -94.49 | 202.86 | 425.22 | 393.65 | 31.58 | 13.467 | |
| 6,400.00 | 6,388.02 | 6,362.25 | 6,326.01 | 16.72 | 17.53 | 76.21 | -97.59 | 217.94 | 439.29 | 407.31 | 31.98 | 13.738 | |
| 6,500.00 | 6,488.02 | 6,461.03 | 6,423.58 | 16.76 | 17.93 | 77.05 | -100.68 | 233.03 | 453.45 | 421.07 | 32.38 | 14.004 | |
| 6,600.00 | 6,588.02 | 6,559.80 | 6,521.15 | 16.81 | 18.33 | 77.85 | -103.78 | 248.11 | 467.70 | 434.92 | 32.79 | 14.264 | |
| 6,700.00 | 6,688.02 | 6,658.58 | 6,618.72 | 16.85 | 18.73 | 78.59 | -106.87 | 263.20 | 482.04 | 448.84 | 33.20 | 14.518 | |
| 6,800.00 | 6,788.02 | 6,757.36 | 6,716.29 | 16.90 | 19.14 | 79.29 | -109.97 | 278.28 | 496.45 | 462.83 | 33.62 | 14.766 | |
| 6,900.00 | 6,888.02 | 6,856.13 | 6,813.86 | 16.94 | 19.55 | 79.95 | -113.06 | 293.37 | 510.94 | 476.89 | 34.04 | 15.008 | |
| 7,000.00 | 6,988.02 | 6,954.91 | 6,911.43 | 16.99 | 19.95 | 80.58 | -116.16 | 308.45 | 525.48 | 491.01 | 34.47 | 15.244 | |
| 7,100.00 | 7,088.02 | 7,053.69 | 7,009.00 | 17.03 | 20.36 | 81.17 | -119.25 | 323.53 | 540.08 | 505.18 | 34.90 | 15.475 | |
| 7,200.00 | 7,188.02 | 7,152.47 | 7,106.57 | 17.08 | 20.77 | 81.73 | -122.35 | 338.62 | 554.74 | 519.41 | 35.34 | 15.699 | |
| 7,300.00 | 7,288.02 | 7,251.24 | 7,204.14 | 17.12 | 21.18 | 82.27 | -125.44 | 353.70 | 569.45 | 533.67 | 35.77 | 15.918 | |
| 7,400.00 | 7,388.02 | 7,350.02 | 7,301.71 | 17.17 | 21.60 | 82.77 | -128.54 | 368.79 | 584.20 | 547.99 | 36.22 | 16.131 | |
| 7,500.00 | 7,488.02 | 7,448.80 | 7,399.28 | 17.21 | 22.01 | 83.25 | -131.64 | 383.87 | 599.00 | 562.34 | 36.66 | 16.339 | |
| 7,600.00 | 7,588.02 | 7,547.58 | 7,496.85 | 17.26 | 22.42 | 83.71 | -134.73 | 398.96 | 613.83 | 576.72 | 37.11 | 16.542 | |
| 7,700.00 | 7,688.02 | 7,646.35 | 7,594.42 | 17.31 | 22.84 | 84.15 | -137.83 | 414.04 | 628.70 | 591.14 | 37.56 | 16.740 | |
| 7,800.00 | 7,788.02 | 7,745.13 | 7,691.99 | 17.35 | 23.26 | 84.56 | -140.92 | 429.13 | 643.61 | 605.60 | 38.01 | 16.933 | |
| 7,900.00 | 7,888.02 | 7,843.91 | 7,789.56 | 17.40 | 23.67 | 84.96 | -144.02 | 444.21 | 658.54 | 620.08 | 38.47 | 17.120 | |
| 8,000.00 | 7,988.02 | 7,942.69 | 7,887.13 | 17.45 | 24.09 | 85.34 | -147.11 | 459.29 | 673.51 | 634.59 | 38.92 | 17.304 | |
| 8,100.00 | 8,088.02 | 8,041.46 | 7,984.70 | 17.50 | 24.51 | 85.70 | -150.21 | 474.38 | 688.50 | 649.12 | 39.38 | 17.482 | |
| 8,200.00 | 8,188.02 | 8,140.24 | 8,082.27 | 17.54 | 24.93 | 86.05 | -153.30 | 489.46 | 703.52 | 663.68 | 39.85 | 17.656 | |
| 8,300.00 | 8,288.02 | 8,239.02 | 8,179.84 | 17.59 | 25.35 | 86.38 | -156.40 | 504.55 | 718.57 | 678.26 | 40.31 | 17.826 | |
| 8,400.00 | 8,388.02 | 8,337.80 | 8,277.41 | 17.64 | 25.77 | 86.70 | -159.49 | 519.63 | 733.63 | 692.86 | 40.78 | 17.991 | |
| 8,500.00 | 8,488.02 | 8,436.57 | 8,374.98 | 17.69 | 26.20 | 87.01 | -162.59 | 534.72 | 748.72 | 707.47 | 41.25 | 18.153 | |
| 8,600.00 | 8,588.02 | 8,535.35 | 8,472.55 | 17.74 | 26.62 | 87.30 | -165.69 | 549.80 | 763.83 | 722.11 | 41.72 | 18.310 | |
| 8,700.00 | 8,688.02 | 8,634.13 | 8,570.12 | 17.79 | 27.04 | 87.58 | -168.78 | 564.89 | 778.96 | 736.77 | 42.19 | 18.464 | |
| 8,800.00 | 8,788.02 | 8,732.90 | 8,667.68 | 17.84 | 27.47 | 87.86 | -171.88 | 579.97 | 794.10 | 751.44 | 42.66 | 18.614 | |
| 8,900.00 | 8,888.02 | 8,831.68 | 8,765.25 | 17.89 | 27.89 | 88.12 | -174.97 | 595.05 | 809.26 | 766.12 | 43.14 | 18.760 | |
| 9,000.00 | 8,988.02 | 8,930.46 | 8,862.82 | 17.94 | 28.32 | 88.37 | -178.07 | 610.14 | 824.44 | 780.83 | 43.61 | 18.903 | |
| 9,100.00 | 9,088.02 | 9,029.24 | 8,960.39 | 17.99 | 28.74 | 88.61 | -181.16 | 625.22 | 839.63 | 795.54 | 44.09 | 19.042 | |
| 9,200.00 | 9,188.02 | 9,128.01 | 9,057.96 | 18.04 | 29.17 | 88.85 | -184.26 | 640.31 | 854.84 | 810.27 | 44.57 | 19.179 | |
| 9,300.00 | 9,288.02 | 9,237.21 | 9,165.87 | 18.09 | 29.64 | 89.09 | -187.62 | 656.71 | 869.84 | 824.75 | 45.10 | 19.288 | |
| 9,400.00 | 9,388.02 | 9,365.05 | 9,292.66 | 18.14 | 30.18 | 89.32 | -190.89 | 672.63 | 882.27 | 836.60 | 45.68 | 19.315 | |
| 9,500.00 | 9,488.02 | 9,493.85 | 9,420.89 | 18.19 | 30.69 | 89.49 | -193.32 | 684.47 | 891.45 | 845.25 | 46.19 | 19.297 | |
| 9,600.00 | 9,588.02 | 9,623.32 | 9,550.12 | 18.24 | 31.14 | 89.59 | -194.88 | 692.09 | 897.32 | 850.68 | 46.64 | 19.240 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,700.00 | 9,688.02 | 9,753.18 | 9,679.93 | 18.29 | 31.46 | 89.64 | -195.57 | 695.42 | 899.89 | 852.95 | 46.93 | 19.173 | |
| 9,800.00 | 9,788.02 | 9,861.27 | 9,788.02 | 18.34 | 31.54 | 89.64 | -195.60 | 695.58 | 900.01 | 852.96 | 47.04 | 19.132 | |
| 9,855.28 | 9,843.30 | 9,916.56 | 9,843.30 | 18.37 | 31.54 | 89.60 | -194.90 | 695.58 | 900.01 | 852.92 | 47.09 | 19.113 | |
| 9,900.00 | 9,888.02 | 9,960.97 | 9,887.52 | 18.39 | 31.52 | 89.35 | -191.00 | 695.55 | 900.02 | 852.89 | 47.13 | 19.098 | |
| 10,000.00 | 9,988.02 | 10,056.48 | 9,980.82 | 18.45 | 31.46 | 88.08 | -171.09 | 695.41 | 900.35 | 853.11 | 47.24 | 19.060 | |
| 10,100.00 | 10,088.02 | 10,143.31 | 10,061.72 | 18.50 | 31.40 | 86.09 | -139.78 | 695.19 | 902.08 | 854.69 | 47.39 | 19.035 | |
| 10,200.00 | 10,188.02 | 10,219.24 | 10,127.89 | 18.55 | 31.36 | 83.74 | -102.65 | 694.93 | 906.72 | 859.14 | 47.58 | 19.059 | |
| 10,300.00 | 10,288.02 | 10,284.03 | 10,180.06 | 18.60 | 31.34 | 81.34 | -64.28 | 694.66 | 915.82 | 868.05 | 47.77 | 19.172 | |
| 10,400.00 | 10,388.02 | 10,338.65 | 10,220.44 | 18.66 | 31.33 | 79.06 | -27.54 | 694.40 | 930.65 | 882.70 | 47.95 | 19.408 | |
| 10,500.00 | 10,488.02 | 10,384.54 | 10,251.53 | 18.71 | 31.33 | 77.00 | 6.19 | 694.16 | 952.04 | 903.93 | 48.11 | 19.788 | |
| 10,600.00 | 10,588.02 | 10,423.16 | 10,275.54 | 18.76 | 31.34 | 75.18 | 36.43 | 693.95 | 980.40 | 932.15 | 48.25 | 20.321 | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -1.41 | -224.96 | 224.96 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -1.41 | -224.96 | 224.96 | 223.38 | 1.58 | 142.009 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -1.41 | -224.96 | 224.96 | 222.07 | 2.90 | 77.594 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -1.41 | -224.96 | 224.96 | 221.18 | 3.79 | 59.376 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -1.41 | -224.96 | 224.96 | 220.45 | 4.51 | 49.860 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -1.41 | -224.96 | 224.96 | 219.83 | 5.14 | 43.772 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -1.41 | -224.96 | 224.96 | 219.26 | 5.70 | 39.448 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -1.41 | -224.96 | 224.96 | 218.74 | 6.22 | 36.169 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -1.41 | -224.96 | 224.96 | 218.26 | 6.70 | 33.573 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -1.41 | -224.96 | 224.96 | 213.85 | 11.12 | 20.232 | |
| 2,100.00 | 2,099.99 | 2,099.96 | 2,099.95 | 5.73 | 5.73 | 79.64 | -2.72 | -224.96 | 224.74 | 213.36 | 11.38 | 19.750 | |
| 2,200.00 | 2,199.91 | 2,199.92 | 2,199.83 | 5.88 | 5.88 | 79.63 | -6.64 | -224.96 | 224.06 | 212.47 | 11.59 | 19.335 | |
| 2,300.00 | 2,299.69 | 2,298.93 | 2,298.63 | 6.05 | 5.99 | 79.64 | -13.05 | -225.00 | 222.96 | 211.21 | 11.75 | 18.970 | |
| 2,316.67 | 2,316.30 | 2,314.75 | 2,314.41 | 6.06 | 6.02 | 79.67 | -14.17 | -225.10 | 222.83 | 211.05 | 11.78 | 18.921 | |
| 2,344.25 | 2,343.79 | 2,340.92 | 2,340.51 | 6.11 | 6.07 | 79.76 | -15.98 | -225.39 | 222.74 | 210.89 | 11.85 | 18.802 | |
| 2,400.00 | 2,399.35 | 2,393.80 | 2,393.27 | 6.20 | 6.17 | 79.98 | -19.42 | -226.49 | 223.10 | 211.11 | 11.99 | 18.611 | |
| 2,500.00 | 2,499.01 | 2,488.58 | 2,487.82 | 6.38 | 6.33 | 80.56 | -24.89 | -230.17 | 225.55 | 213.34 | 12.20 | 18.480 | |
| 2,600.00 | 2,598.66 | 2,588.17 | 2,587.14 | 6.57 | 6.61 | 81.27 | -30.13 | -235.30 | 229.31 | 216.75 | 12.56 | 18.262 | |
| 2,700.00 | 2,698.32 | 2,688.06 | 2,686.76 | 6.79 | 6.81 | 81.96 | -35.38 | -240.44 | 233.11 | 220.29 | 12.81 | 18.191 | |
| 2,716.67 | 2,714.93 | 2,704.71 | 2,703.36 | 6.81 | 6.84 | 82.07 | -36.25 | -241.30 | 233.74 | 220.90 | 12.84 | 18.205 | |
| 2,800.00 | 2,798.00 | 2,787.99 | 2,786.41 | 7.00 | 7.01 | 67.41 | -40.63 | -245.59 | 236.14 | 223.08 | 13.06 | 18.080 | |
| 2,900.00 | 2,897.70 | 2,887.98 | 2,886.13 | 7.23 | 7.23 | 48.50 | -45.88 | -250.75 | 236.93 | 223.58 | 13.35 | 17.748 | |
| 2,949.02 | 2,946.56 | 2,937.00 | 2,935.02 | 7.31 | 7.34 | 39.85 | -48.45 | -253.27 | 236.48 | 223.02 | 13.46 | 17.568 | |
| 3,000.00 | 2,997.36 | 2,987.97 | 2,985.85 | 7.40 | 7.46 | 39.82 | -51.13 | -255.90 | 235.73 | 222.15 | 13.58 | 17.355 | |
| 3,100.00 | 3,097.02 | 3,087.96 | 3,085.57 | 7.63 | 7.70 | 39.77 | -56.38 | -261.05 | 234.25 | 220.35 | 13.90 | 16.852 | |
| 3,200.00 | 3,196.68 | 3,187.95 | 3,185.29 | 7.88 | 7.95 | 39.72 | -61.64 | -266.21 | 232.77 | 218.53 | 14.23 | 16.352 | |
| 3,300.00 | 3,296.33 | 3,287.94 | 3,285.01 | 8.13 | 8.21 | 39.67 | -66.89 | -271.36 | 231.29 | 216.70 | 14.59 | 15.857 | |
| 3,400.00 | 3,395.99 | 3,387.92 | 3,384.72 | 8.40 | 8.48 | 39.62 | -72.14 | -276.51 | 229.81 | 214.85 | 14.95 | 15.369 | |
| 3,500.00 | 3,495.65 | 3,487.91 | 3,484.44 | 8.67 | 8.76 | 39.57 | -77.40 | -281.67 | 228.33 | 212.99 | 15.33 | 14.891 | |
| 3,600.00 | 3,595.30 | 3,587.90 | 3,584.16 | 8.96 | 9.05 | 39.51 | -82.65 | -286.82 | 226.85 | 211.12 | 15.73 | 14.424 | |
| 3,700.00 | 3,694.96 | 3,687.89 | 3,683.88 | 9.25 | 9.34 | 39.46 | -87.90 | -291.98 | 225.37 | 209.23 | 16.13 | 13.969 | |
| 3,800.00 | 3,794.62 | 3,787.88 | 3,783.59 | 9.54 | 9.63 | 39.40 | -93.16 | -297.13 | 223.89 | 207.34 | 16.55 | 13.527 | |
| 3,900.00 | 3,894.27 | 3,887.87 | 3,883.31 | 9.84 | 9.93 | 39.35 | -98.41 | -302.28 | 222.41 | 205.43 | 16.98 | 13.099 | |
| 4,000.00 | 3,993.93 | 3,987.86 | 3,983.03 | 10.15 | 10.24 | 39.29 | -103.66 | -307.44 | 220.93 | 203.51 | 17.42 | 12.684 | |
| 4,100.00 | 4,093.59 | 4,087.85 | 4,082.75 | 10.47 | 10.55 | 39.23 | -108.92 | -312.59 | 219.45 | 201.58 | 17.87 | 12.283 | |
| 4,200.00 | 4,193.24 | 4,187.83 | 4,182.46 | 10.78 | 10.87 | 39.18 | -114.17 | -317.74 | 217.97 | 199.65 | 18.32 | 11.896 | |
| 4,300.00 | 4,292.90 | 4,287.82 | 4,282.18 | 11.11 | 11.18 | 39.12 | -119.42 | -322.90 | 216.49 | 197.70 | 18.79 | 11.522 | |
| 4,400.00 | 4,392.56 | 4,387.81 | 4,381.90 | 11.43 | 11.51 | 39.06 | -124.67 | -328.05 | 215.01 | 195.75 | 19.26 | 11.163 | |
| 4,500.00 | 4,492.21 | 4,487.80 | 4,481.62 | 11.76 | 11.83 | 39.00 | -129.93 | -333.20 | 213.54 | 193.79 | 19.74 | 10.816 | |
| 4,600.00 | 4,591.87 | 4,587.79 | 4,581.34 | 12.10 | 12.16 | 38.94 | -135.18 | -338.36 | 212.06 | 191.83 | 20.23 | 10.482 | |
| 4,700.00 | 4,691.53 | 4,687.78 | 4,681.05 | 12.43 | 12.49 | 38.88 | -140.43 | -343.51 | 210.58 | 189.86 | 20.72 | 10.161 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,787.77 | 4,780.77 | 12.77 | 12.82 | 38.81 | -145.69 | -348.66 | 209.10 | 187.88 | 21.22 | 9.852 | |
| 4,900.00 | 4,890.84 | 4,887.76 | 4,880.49 | 13.11 | 13.16 | 38.75 | -150.94 | -353.82 | 207.63 | 185.90 | 21.73 | 9.555 | |
| 5,000.00 | 4,990.50 | 4,987.75 | 4,980.21 | 13.45 | 13.49 | 38.68 | -156.19 | -358.97 | 206.15 | 183.91 | 22.24 | 9.268 | |
| 5,100.00 | 5,090.15 | 5,087.73 | 5,079.92 | 13.80 | 13.83 | 38.62 | -161.45 | -364.12 | 204.67 | 181.91 | 22.76 | 8.993 | |
| 5,200.00 | 5,189.81 | 5,187.72 | 5,179.64 | 14.15 | 14.17 | 38.55 | -166.70 | -369.28 | 203.20 | 179.92 | 23.28 | 8.728 | |
| 5,300.00 | 5,289.47 | 5,287.71 | 5,279.36 | 14.50 | 14.51 | 38.48 | -171.95 | -374.43 | 201.72 | 177.91 | 23.81 | 8.473 | |
| 5,400.00 | 5,389.12 | 5,387.70 | 5,379.08 | 14.85 | 14.86 | 38.42 | -177.20 | -379.58 | 200.25 | 175.91 | 24.34 | 8.227 | |
| 5,500.00 | 5,488.78 | 5,487.69 | 5,478.79 | 15.20 | 15.20 | 38.35 | -182.46 | -384.74 | 198.77 | 173.90 | 24.87 | 7.991 | |
| 5,600.00 | 5,588.43 | 5,587.68 | 5,578.51 | 15.55 | 15.55 | 38.28 | -187.71 | -389.89 | 197.30 | 171.88 | 25.41 | 7.763 | |
| 5,615.36 | 5,603.74 | 5,603.03 | 5,593.83 | 15.60 | 15.60 | 38.26 | -188.52 | -390.68 | 197.07 | 171.58 | 25.49 | 7.731 | |
| 5,686.89 | 5,675.08 | 5,674.56 | 5,665.16 | 15.86 | 15.85 | 38.09 | -192.28 | -394.37 | 196.54 | 170.64 | 25.90 | 7.587 | CC |
| 5,700.00 | 5,688.16 | 5,687.67 | 5,678.23 | 15.90 | 15.89 | 38.03 | -192.96 | -395.04 | 196.56 | 170.57 | 25.98 | 7.564 | |
| 5,800.00 | 5,788.05 | 5,789.84 | 5,780.15 | 16.23 | 16.23 | 37.42 | -197.98 | -399.97 | 197.55 | 170.95 | 26.59 | 7.428 | |
| 5,900.00 | 5,888.02 | 5,893.56 | 5,883.78 | 16.50 | 16.56 | 36.88 | -201.24 | -403.16 | 198.90 | 171.75 | 27.15 | 7.325 | |
| 5,931.98 | 5,920.00 | 5,926.75 | 5,916.95 | 16.53 | 16.63 | -90.18 | -201.86 | -403.77 | 199.38 | 172.13 | 27.26 | 7.315 | |
| 6,000.00 | 5,988.02 | 5,997.36 | 5,987.56 | 16.55 | 16.75 | -90.36 | -202.49 | -404.39 | 199.98 | 172.59 | 27.39 | 7.301 | |
| 6,100.00 | 6,088.02 | 6,097.82 | 6,088.02 | 16.59 | 16.81 | -90.36 | -202.50 | -404.40 | 199.99 | 172.50 | 27.49 | 7.275 | |
| 6,200.00 | 6,188.02 | 6,197.82 | 6,188.02 | 16.63 | 16.85 | -90.36 | -202.50 | -404.40 | 199.99 | 172.40 | 27.59 | 7.249 | |
| 6,300.00 | 6,288.02 | 6,297.82 | 6,288.02 | 16.68 | 16.89 | -90.36 | -202.50 | -404.40 | 199.99 | 172.31 | 27.69 | 7.223 | |
| 6,400.00 | 6,388.02 | 6,397.82 | 6,388.02 | 16.72 | 16.93 | -90.36 | -202.50 | -404.40 | 199.99 | 172.21 | 27.79 | 7.197 | |
| 6,500.00 | 6,488.02 | 6,497.82 | 6,488.02 | 16.76 | 16.97 | -90.36 | -202.50 | -404.40 | 199.99 | 172.11 | 27.89 | 7.171 | |
| 6,600.00 | 6,588.02 | 6,597.82 | 6,588.02 | 16.81 | 17.01 | -90.36 | -202.50 | -404.40 | 199.99 | 172.01 | 27.99 | 7.146 | |
| 6,700.00 | 6,688.02 | 6,697.82 | 6,688.02 | 16.85 | 17.06 | -90.36 | -202.50 | -404.40 | 199.99 | 171.90 | 28.09 | 7.120 | |
| 6,800.00 | 6,788.02 | 6,797.82 | 6,788.02 | 16.90 | 17.10 | -90.36 | -202.50 | -404.40 | 199.99 | 171.80 | 28.19 | 7.094 | |
| 6,900.00 | 6,888.02 | 6,897.82 | 6,888.02 | 16.94 | 17.14 | -90.36 | -202.50 | -404.40 | 199.99 | 171.70 | 28.29 | 7.069 | |
| 7,000.00 | 6,988.02 | 6,997.82 | 6,988.02 | 16.99 | 17.18 | -90.36 | -202.50 | -404.40 | 199.99 | 171.60 | 28.40 | 7.043 | |
| 7,100.00 | 7,088.02 | 7,097.82 | 7,088.02 | 17.03 | 17.23 | -90.36 | -202.50 | -404.40 | 199.99 | 171.49 | 28.50 | 7.017 | |
| 7,200.00 | 7,188.02 | 7,197.82 | 7,188.02 | 17.08 | 17.27 | -90.36 | -202.50 | -404.40 | 199.99 | 171.39 | 28.60 | 6.992 | |
| 7,300.00 | 7,288.02 | 7,297.82 | 7,288.02 | 17.12 | 17.31 | -90.36 | -202.50 | -404.40 | 199.99 | 171.29 | 28.71 | 6.966 | |
| 7,400.00 | 7,388.02 | 7,397.82 | 7,388.02 | 17.17 | 17.36 | -90.36 | -202.50 | -404.40 | 199.99 | 171.18 | 28.81 | 6.941 | |
| 7,500.00 | 7,488.02 | 7,497.82 | 7,488.02 | 17.21 | 17.40 | -90.36 | -202.50 | -404.40 | 199.99 | 171.07 | 28.92 | 6.916 | |
| 7,600.00 | 7,588.02 | 7,597.82 | 7,588.02 | 17.26 | 17.45 | -90.36 | -202.50 | -404.40 | 199.99 | 170.97 | 29.03 | 6.890 | |
| 7,700.00 | 7,688.02 | 7,697.82 | 7,688.02 | 17.31 | 17.49 | -90.36 | -202.50 | -404.40 | 199.99 | 170.86 | 29.13 | 6.865 | |
| 7,800.00 | 7,788.02 | 7,797.82 | 7,788.02 | 17.35 | 17.54 | -90.36 | -202.50 | -404.40 | 199.99 | 170.75 | 29.24 | 6.840 | |
| 7,900.00 | 7,888.02 | 7,897.82 | 7,888.02 | 17.40 | 17.58 | -90.36 | -202.50 | -404.40 | 199.99 | 170.65 | 29.35 | 6.815 | |
| 8,000.00 | 7,988.02 | 7,997.82 | 7,988.02 | 17.45 | 17.63 | -90.36 | -202.50 | -404.40 | 199.99 | 170.54 | 29.46 | 6.790 | |
| 8,100.00 | 8,088.02 | 8,097.82 | 8,088.02 | 17.50 | 17.68 | -90.36 | -202.50 | -404.40 | 199.99 | 170.43 | 29.56 | 6.765 | |
| 8,200.00 | 8,188.02 | 8,197.82 | 8,188.02 | 17.54 | 17.72 | -90.36 | -202.50 | -404.40 | 199.99 | 170.32 | 29.67 | 6.740 | |
| 8,300.00 | 8,288.02 | 8,297.82 | 8,288.02 | 17.59 | 17.77 | -90.36 | -202.50 | -404.40 | 199.99 | 170.21 | 29.78 | 6.715 | |
| 8,400.00 | 8,388.02 | 8,397.82 | 8,388.02 | 17.64 | 17.82 | -90.36 | -202.50 | -404.40 | 199.99 | 170.10 | 29.89 | 6.690 | |
| 8,500.00 | 8,488.02 | 8,497.82 | 8,488.02 | 17.69 | 17.86 | -90.36 | -202.50 | -404.40 | 199.99 | 169.99 | 30.00 | 6.666 | |
| 8,600.00 | 8,588.02 | 8,597.82 | 8,588.02 | 17.74 | 17.91 | -90.36 | -202.50 | -404.40 | 199.99 | 169.88 | 30.12 | 6.641 | |
| 8,700.00 | 8,688.02 | 8,697.82 | 8,688.02 | 17.79 | 17.96 | -90.36 | -202.50 | -404.40 | 199.99 | 169.77 | 30.23 | 6.616 | |
| 8,800.00 | 8,788.02 | 8,797.82 | 8,788.02 | 17.84 | 18.00 | -90.36 | -202.50 | -404.40 | 199.99 | 169.65 | 30.34 | 6.592 | |
| 8,900.00 | 8,888.02 | 8,897.82 | 8,888.02 | 17.89 | 18.05 | -90.36 | -202.50 | -404.40 | 199.99 | 169.54 | 30.45 | 6.568 | |
| 9,000.00 | 8,988.02 | 8,997.82 | 8,988.02 | 17.94 | 18.10 | -90.36 | -202.50 | -404.40 | 199.99 | 169.43 | 30.56 | 6.543 | |
| 9,100.00 | 9,088.02 | 9,097.82 | 9,088.02 | 17.99 | 18.15 | -90.36 | -202.50 | -404.40 | 199.99 | 169.32 | 30.68 | 6.519 | |
| 9,200.00 | 9,188.02 | 9,197.82 | 9,188.02 | 18.04 | 18.20 | -90.36 | -202.50 | -404.40 | 199.99 | 169.20 | 30.79 | 6.495 | |
| 9,300.00 | 9,288.02 | 9,297.82 | 9,288.02 | 18.09 | 18.25 | -90.36 | -202.50 | -404.40 | 199.99 | 169.09 | 30.91 | 6.471 | |
| 9,400.00 | 9,388.02 | 9,397.82 | 9,388.02 | 18.14 | 18.30 | -90.36 | -202.50 | -404.40 | 199.99 | 168.97 | 31.02 | 6.447 | |
| 9,500.00 | 9,488.02 | 9,497.82 | 9,488.02 | 18.19 | 18.35 | -90.36 | -202.50 | -404.40 | 199.99 | 168.86 | 31.14 | 6.423 | |
| 9,600.00 | 9,588.02 | 9,597.82 | 9,588.02 | 18.24 | 18.40 | -90.36 | -202.50 | -404.40 | 199.99 | 168.74 | 31.25 | 6.399 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,700.00 | 9,688.02 | 9,697.82 | 9,688.02 | 18.29 | 18.45 | -90.36 | -202.50 | -404.40 | 199.99 | 168.63 | 31.37 | 6.376 | |
| 9,800.00 | 9,788.02 | 9,797.82 | 9,788.02 | 18.34 | 18.50 | -90.36 | -202.50 | -404.40 | 199.99 | 168.51 | 31.49 | 6.352 | |
| 9,900.00 | 9,888.02 | 9,897.82 | 9,888.02 | 18.39 | 18.55 | -90.36 | -202.50 | -404.40 | 199.99 | 168.39 | 31.60 | 6.328 | |
| 10,000.00 | 9,988.02 | 9,997.82 | 9,988.02 | 18.45 | 18.60 | -90.36 | -202.50 | -404.40 | 199.99 | 168.27 | 31.72 | 6.305 | |
| 10,100.00 | 10,088.02 | 10,097.82 | 10,088.02 | 18.50 | 18.65 | -90.36 | -202.50 | -404.40 | 199.99 | 168.16 | 31.84 | 6.282 | |
| 10,200.00 | 10,188.02 | 10,201.41 | 10,191.06 | 18.55 | 18.60 | -87.75 | -193.41 | -403.27 | 199.04 | 167.56 | 31.47 | 6.324 ES | |
| 10,271.60 | 10,259.62 | 10,272.04 | 10,259.62 | 18.59 | 18.47 | -82.90 | -176.72 | -401.19 | 198.30 | 167.66 | 30.64 | 6.472 | |
| 10,300.00 | 10,288.02 | 10,298.74 | 10,284.91 | 18.60 | 18.42 | -80.43 | -168.25 | -400.13 | 198.51 | 168.27 | 30.24 | 6.564 | |
| 10,400.00 | 10,388.02 | 10,385.45 | 10,363.84 | 18.66 | 18.25 | -70.33 | -132.84 | -395.72 | 204.61 | 175.63 | 28.98 | 7.061 | |
| 10,500.00 | 10,488.02 | 10,459.92 | 10,426.69 | 18.71 | 18.10 | -59.92 | -93.29 | -390.80 | 223.96 | 195.01 | 28.95 | 7.737 | |
| 10,600.00 | 10,588.02 | 10,522.56 | 10,475.18 | 18.76 | 17.99 | -50.94 | -53.98 | -385.90 | 259.53 | 229.04 | 30.50 | 8.511 | |
| 10,700.00 | 10,688.02 | 10,574.82 | 10,512.13 | 18.82 | 17.91 | -43.89 | -17.34 | -381.34 | 309.94 | 277.22 | 32.72 | 9.472 | |
| 10,800.00 | 10,788.02 | 10,618.39 | 10,540.26 | 18.87 | 17.86 | -38.55 | 15.67 | -377.23 | 371.89 | 337.04 | 34.85 | 10.672 | |
| 10,900.00 | 10,888.02 | 10,650.00 | 10,559.04 | 18.92 | 17.82 | -35.02 | 40.89 | -374.08 | 442.32 | 405.55 | 36.76 | 12.031 | |
| 11,000.00 | 10,988.02 | 10,685.66 | 10,578.51 | 18.98 | 17.80 | -31.41 | 70.53 | -370.39 | 518.75 | 480.64 | 38.11 | 13.612 | |
| 11,067.02 | 11,055.04 | 10,700.00 | 10,585.81 | 19.00 | 17.79 | -30.07 | 82.78 | -368.87 | 572.61 | 533.60 | 39.01 | 14.678 | |
| 11,100.00 | 11,088.00 | 10,700.00 | 10,585.81 | 18.99 | 17.79 | -20.40 | 82.78 | -368.87 | 599.44 | 559.91 | 39.53 | 15.163 | |
| 11,150.00 | 11,137.73 | 10,725.87 | 10,598.19 | 18.95 | 17.78 | -16.57 | 105.32 | -366.06 | 638.23 | 598.32 | 39.90 | 15.995 | |
| 11,200.00 | 11,186.83 | 10,750.00 | 10,608.80 | 18.88 | 17.77 | -13.78 | 126.82 | -363.38 | 675.71 | 635.39 | 40.32 | 16.759 | |
| 11,250.00 | 11,234.93 | 10,750.00 | 10,608.80 | 18.82 | 17.77 | -12.64 | 126.82 | -363.38 | 711.10 | 670.02 | 41.08 | 17.311 | |
| 11,300.00 | 11,281.65 | 10,770.62 | 10,617.14 | 18.75 | 17.78 | -10.89 | 145.53 | -361.05 | 744.59 | 703.05 | 41.55 | 17.921 | |
| 11,350.00 | 11,326.65 | 10,800.00 | 10,627.84 | 18.68 | 17.78 | -9.20 | 172.68 | -357.67 | 776.34 | 734.42 | 41.92 | 18.519 | |
| 11,400.00 | 11,369.59 | 10,800.00 | 10,627.84 | 18.61 | 17.78 | -8.65 | 172.68 | -357.67 | 805.40 | 762.79 | 42.62 | 18.899 | |
| 11,450.00 | 11,410.13 | 10,819.35 | 10,634.11 | 18.55 | 17.79 | -7.67 | 190.85 | -355.41 | 832.47 | 789.38 | 43.09 | 19.319 | |
| 11,500.00 | 11,447.97 | 10,850.00 | 10,642.77 | 18.51 | 17.81 | -6.58 | 220.02 | -351.77 | 857.51 | 814.05 | 43.46 | 19.732 | |
| 11,550.00 | 11,482.82 | 10,850.00 | 10,642.77 | 18.48 | 17.81 | -6.30 | 220.02 | -351.77 | 879.63 | 835.55 | 44.08 | 19.956 | |
| 11,600.00 | 11,514.41 | 10,870.62 | 10,647.71 | 18.48 | 17.84 | -5.65 | 239.88 | -349.30 | 899.55 | 855.04 | 44.51 | 20.210 | |
| 11,650.00 | 11,542.51 | 10,900.00 | 10,653.49 | 18.49 | 17.88 | -4.91 | 268.47 | -345.74 | 917.20 | 872.33 | 44.87 | 20.440 | |
| 11,700.00 | 11,566.90 | 10,900.00 | 10,653.49 | 18.53 | 17.88 | -4.78 | 268.47 | -345.74 | 931.95 | 886.54 | 45.41 | 20.525 | |
| 11,750.00 | 11,587.39 | 10,923.43 | 10,657.04 | 18.61 | 17.92 | -4.27 | 291.44 | -342.88 | 944.23 | 898.45 | 45.78 | 20.626 | |
| 11,800.00 | 11,603.83 | 10,950.00 | 10,659.92 | 18.71 | 17.97 | -3.75 | 317.66 | -339.61 | 954.06 | 907.94 | 46.12 | 20.685 | |
| 11,850.00 | 11,616.09 | 10,950.00 | 10,659.92 | 18.85 | 17.97 | -3.71 | 317.66 | -339.61 | 961.16 | 914.60 | 46.56 | 20.644 | |
| 11,900.00 | 11,624.08 | 10,977.07 | 10,661.58 | 19.02 | 18.04 | -3.25 | 344.46 | -336.27 | 965.48 | 918.62 | 46.87 | 20.600 | |
| 11,950.00 | 11,627.75 | 10,998.84 | 10,662.00 | 19.22 | 18.09 | -2.90 | 366.06 | -333.58 | 967.28 | 920.10 | 47.18 | 20.503 | |
| 11,967.02 | 11,628.00 | 11,004.92 | 10,662.00 | 19.30 | 18.11 | -2.81 | 372.10 | -332.84 | 967.24 | 919.98 | 47.26 | 20.465 | |
| 12,000.00 | 11,628.00 | 11,036.38 | 10,662.00 | 19.46 | 18.22 | -2.35 | 403.35 | -329.19 | 966.86 | 919.49 | 47.37 | 20.410 | |
| 12,100.00 | 11,628.00 | 11,133.26 | 10,662.00 | 20.02 | 18.60 | -1.20 | 499.79 | -320.10 | 966.22 | 918.50 | 47.72 | 20.248 | |
| 12,200.00 | 11,628.00 | 11,231.87 | 10,662.00 | 20.65 | 19.10 | -0.42 | 598.22 | -314.21 | 966.03 | 917.91 | 48.11 | 20.079 | |
| 12,300.00 | 11,628.00 | 11,331.52 | 10,662.00 | 21.34 | 19.71 | -0.03 | 697.83 | -311.70 | 966.00 | 917.44 | 48.56 | 19.891 | |
| 12,318.35 | 11,628.00 | 11,349.86 | 10,662.00 | 21.47 | 19.83 | 0.00 | 716.17 | -311.62 | 966.00 | 917.35 | 48.65 | 19.854 | |
| 12,347.17 | 11,628.00 | 11,378.68 | 10,662.00 | 21.68 | 20.03 | 0.01 | 744.99 | -311.72 | 966.00 | 917.20 | 48.80 | 19.795 | |
| 12,400.00 | 11,628.00 | 11,431.51 | 10,662.00 | 22.07 | 20.43 | 0.01 | 797.82 | -312.09 | 966.00 | 916.92 | 49.08 | 19.681 | |
| 12,500.00 | 11,628.00 | 11,531.51 | 10,662.00 | 22.87 | 21.24 | 0.01 | 897.82 | -312.78 | 966.00 | 916.34 | 49.66 | 19.452 | |
| 12,600.00 | 11,628.00 | 11,631.51 | 10,662.00 | 23.73 | 22.14 | 0.01 | 997.82 | -313.48 | 966.00 | 915.72 | 50.28 | 19.213 | |
| 12,700.00 | 11,628.00 | 11,731.51 | 10,662.00 | 24.65 | 23.10 | 0.01 | 1,097.82 | -314.17 | 966.00 | 915.06 | 50.94 | 18.964 | |
| 12,800.00 | 11,628.00 | 11,831.51 | 10,662.00 | 25.62 | 24.12 | 0.01 | 1,197.81 | -314.87 | 966.00 | 914.36 | 51.64 | 18.707 | |
| 12,900.00 | 11,628.00 | 11,931.51 | 10,662.00 | 26.64 | 25.19 | 0.01 | 1,297.81 | -315.56 | 966.00 | 913.63 | 52.37 | 18.444 | |
| 13,000.00 | 11,628.00 | 12,031.51 | 10,662.00 | 27.71 | 26.29 | 0.01 | 1,397.81 | -316.26 | 966.00 | 912.85 | 53.15 | 18.176 | |
| 13,100.00 | 11,628.00 | 12,131.51 | 10,662.00 | 28.80 | 27.44 | 0.01 | 1,497.81 | -316.95 | 966.00 | 912.05 | 53.96 | 17.904 | |
| 13,200.00 | 11,628.00 | 12,231.51 | 10,662.00 | 29.93 | 28.61 | 0.01 | 1,597.80 | -317.65 | 966.00 | 911.20 | 54.80 | 17.629 | |
| 13,300.00 | 11,628.00 | 12,331.51 | 10,662.00 | 31.09 | 29.81 | 0.01 | 1,697.80 | -318.35 | 966.00 | 910.33 | 55.67 | 17.353 | |
| 13,400.00 | 11,628.00 | 12,431.51 | 10,662.00 | 32.28 | 31.04 | 0.01 | 1,797.80 | -319.04 | 966.00 | 909.43 | 56.57 | 17.076 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,500.00 | 11,628.00 | 12,531.51 | 10,662.00 | 33.48 | 32.28 | 0.01 | 1,897.80 | -319.74 | 966.00 | 908.50 | 57.50 | 16.800 | |
| 13,600.00 | 11,628.00 | 12,631.51 | 10,662.00 | 34.71 | 33.54 | 0.01 | 1,997.79 | -320.43 | 966.00 | 907.54 | 58.46 | 16.524 | |
| 13,700.00 | 11,628.00 | 12,731.51 | 10,662.00 | 35.95 | 34.82 | 0.01 | 2,097.79 | -321.13 | 966.00 | 906.56 | 59.44 | 16.251 | |
| 13,800.00 | 11,628.00 | 12,831.51 | 10,662.00 | 37.21 | 36.11 | 0.01 | 2,197.79 | -321.82 | 966.00 | 905.55 | 60.45 | 15.979 | |
| 13,900.00 | 11,628.00 | 12,931.51 | 10,662.00 | 38.48 | 37.41 | 0.01 | 2,297.79 | -322.52 | 966.00 | 904.51 | 61.49 | 15.711 | |
| 14,000.00 | 11,628.00 | 13,031.51 | 10,662.00 | 39.76 | 38.72 | 0.01 | 2,397.79 | -323.22 | 966.00 | 903.46 | 62.54 | 15.446 | |
| 14,100.00 | 11,628.00 | 13,131.51 | 10,662.00 | 41.06 | 40.04 | 0.01 | 2,497.78 | -323.91 | 966.00 | 902.38 | 63.62 | 15.185 | |
| 14,200.00 | 11,628.00 | 13,231.51 | 10,662.00 | 42.37 | 41.37 | 0.01 | 2,597.78 | -324.61 | 966.00 | 901.29 | 64.71 | 14.928 | |
| 14,300.00 | 11,628.00 | 13,331.51 | 10,662.00 | 43.68 | 42.71 | 0.01 | 2,697.78 | -325.30 | 966.00 | 900.17 | 65.83 | 14.675 | |
| 14,400.00 | 11,628.00 | 13,431.51 | 10,662.00 | 45.01 | 44.06 | 0.01 | 2,797.78 | -326.00 | 966.00 | 899.04 | 66.96 | 14.426 | |
| 14,500.00 | 11,628.00 | 13,531.51 | 10,662.00 | 46.34 | 45.41 | 0.01 | 2,897.77 | -326.69 | 966.00 | 897.89 | 68.11 | 14.183 | |
| 14,600.00 | 11,628.00 | 13,631.51 | 10,662.00 | 47.68 | 46.77 | 0.01 | 2,997.77 | -327.39 | 966.00 | 896.72 | 69.28 | 13.944 | |
| 14,700.00 | 11,628.00 | 13,731.51 | 10,662.00 | 49.02 | 48.13 | 0.01 | 3,097.77 | -328.08 | 966.00 | 895.54 | 70.46 | 13.710 | |
| 14,800.00 | 11,628.00 | 13,831.51 | 10,662.00 | 50.37 | 49.50 | 0.01 | 3,197.77 | -328.78 | 966.00 | 894.34 | 71.66 | 13.481 | |
| 14,900.00 | 11,628.00 | 13,931.51 | 10,662.00 | 51.73 | 50.87 | 0.01 | 3,297.76 | -329.48 | 966.00 | 893.13 | 72.87 | 13.256 | |
| 15,000.00 | 11,628.00 | 14,031.51 | 10,662.00 | 53.09 | 52.25 | 0.01 | 3,397.76 | -330.17 | 966.00 | 891.90 | 74.10 | 13.037 | |
| 15,100.00 | 11,628.00 | 14,131.51 | 10,662.00 | 54.46 | 53.63 | 0.01 | 3,497.76 | -330.87 | 966.00 | 890.67 | 75.33 | 12.823 | |
| 15,200.00 | 11,628.00 | 14,231.51 | 10,662.00 | 55.83 | 55.01 | 0.01 | 3,597.76 | -331.56 | 966.00 | 889.42 | 76.58 | 12.614 | |
| 15,300.00 | 11,628.00 | 14,331.51 | 10,662.00 | 57.20 | 56.40 | 0.01 | 3,697.75 | -332.26 | 966.00 | 888.16 | 77.84 | 12.409 | |
| 15,400.00 | 11,628.00 | 14,431.51 | 10,662.00 | 58.58 | 57.79 | 0.01 | 3,797.75 | -332.95 | 966.00 | 886.88 | 79.12 | 12.210 | |
| 15,500.00 | 11,628.00 | 14,531.51 | 10,662.00 | 59.96 | 59.19 | 0.01 | 3,897.75 | -333.65 | 966.00 | 885.60 | 80.40 | 12.015 | |
| 15,600.00 | 11,628.00 | 14,631.51 | 10,662.00 | 61.35 | 60.58 | 0.01 | 3,997.75 | -334.35 | 966.00 | 884.31 | 81.69 | 11.825 | |
| 15,700.00 | 11,628.00 | 14,731.51 | 10,662.00 | 62.73 | 61.98 | 0.01 | 4,097.74 | -335.04 | 966.00 | 883.00 | 83.00 | 11.639 | |
| 15,800.00 | 11,628.00 | 14,831.51 | 10,662.00 | 64.12 | 63.38 | 0.01 | 4,197.74 | -335.74 | 966.00 | 881.69 | 84.31 | 11.458 | |
| 15,900.00 | 11,628.00 | 14,931.51 | 10,662.00 | 65.52 | 64.78 | 0.01 | 4,297.74 | -336.43 | 966.00 | 880.37 | 85.63 | 11.281 | |
| 16,000.00 | 11,628.00 | 15,031.51 | 10,662.00 | 66.91 | 66.19 | 0.01 | 4,397.74 | -337.13 | 966.00 | 879.04 | 86.96 | 11.109 | |
| 16,100.00 | 11,628.00 | 15,131.51 | 10,662.00 | 68.31 | 67.59 | 0.01 | 4,497.73 | -337.82 | 966.00 | 877.71 | 88.29 | 10.941 | |
| 16,200.00 | 11,628.00 | 15,231.51 | 10,662.00 | 69.71 | 69.00 | 0.01 | 4,597.73 | -338.52 | 966.00 | 876.36 | 89.64 | 10.777 | |
| 16,300.00 | 11,628.00 | 15,331.51 | 10,662.00 | 71.11 | 70.41 | 0.01 | 4,697.73 | -339.21 | 966.00 | 875.01 | 90.99 | 10.617 | |
| 16,400.00 | 11,628.00 | 15,431.51 | 10,662.00 | 72.51 | 71.82 | 0.01 | 4,797.73 | -339.91 | 966.00 | 873.66 | 92.34 | 10.461 | |
| 16,500.00 | 11,628.00 | 15,531.51 | 10,662.00 | 73.92 | 73.23 | 0.01 | 4,897.72 | -340.61 | 966.00 | 872.29 | 93.71 | 10.308 | |
| 16,600.00 | 11,628.00 | 15,631.51 | 10,662.00 | 75.32 | 74.65 | 0.01 | 4,997.72 | -341.30 | 966.00 | 870.92 | 95.08 | 10.160 | |
| 16,700.00 | 11,628.00 | 15,731.51 | 10,662.00 | 76.73 | 76.06 | 0.01 | 5,097.72 | -342.00 | 966.00 | 869.54 | 96.46 | 10.015 | |
| 16,800.00 | 11,628.00 | 15,831.51 | 10,662.00 | 78.14 | 77.48 | 0.01 | 5,197.72 | -342.69 | 966.00 | 868.16 | 97.84 | 9.873 | |
| 16,900.00 | 11,628.00 | 15,931.51 | 10,662.00 | 79.55 | 78.90 | 0.01 | 5,297.72 | -343.39 | 966.00 | 866.77 | 99.23 | 9.735 | |
| 17,000.00 | 11,628.00 | 16,031.51 | 10,662.00 | 80.96 | 80.31 | 0.01 | 5,397.71 | -344.08 | 966.00 | 865.38 | 100.62 | 9.600 | |
| 17,100.00 | 11,628.00 | 16,131.51 | 10,662.00 | 82.38 | 81.73 | 0.01 | 5,497.71 | -344.78 | 966.00 | 863.98 | 102.02 | 9.469 | |
| 17,200.00 | 11,628.00 | 16,231.51 | 10,662.00 | 83.79 | 83.15 | 0.01 | 5,597.71 | -345.48 | 966.00 | 862.58 | 103.42 | 9.340 | |
| 17,300.00 | 11,628.00 | 16,331.51 | 10,662.00 | 85.21 | 84.58 | 0.01 | 5,697.71 | -346.17 | 966.00 | 861.17 | 104.83 | 9.215 | |
| 17,400.00 | 11,628.00 | 16,431.51 | 10,662.00 | 86.63 | 86.00 | 0.01 | 5,797.70 | -346.87 | 966.00 | 859.75 | 106.25 | 9.092 | |
| 17,500.00 | 11,628.00 | 16,531.51 | 10,662.00 | 88.04 | 87.42 | 0.01 | 5,897.70 | -347.56 | 966.00 | 858.34 | 107.66 | 8.972 | |
| 17,600.00 | 11,628.00 | 16,631.51 | 10,662.00 | 89.46 | 88.85 | 0.01 | 5,997.70 | -348.26 | 966.00 | 856.92 | 109.08 | 8.856 | |
| 17,700.00 | 11,628.00 | 16,731.51 | 10,662.00 | 90.88 | 90.27 | 0.01 | 6,097.70 | -348.95 | 966.00 | 855.49 | 110.51 | 8.741 | |
| 17,800.00 | 11,628.00 | 16,831.51 | 10,662.00 | 92.30 | 91.70 | 0.01 | 6,197.69 | -349.65 | 966.00 | 854.06 | 111.94 | 8.630 | |
| 17,900.00 | 11,628.00 | 16,931.51 | 10,662.00 | 93.72 | 93.12 | 0.01 | 6,297.69 | -350.34 | 966.00 | 852.63 | 113.37 | 8.521 | |
| 18,000.00 | 11,628.00 | 17,031.51 | 10,662.00 | 95.15 | 94.55 | 0.01 | 6,397.69 | -351.04 | 966.00 | 851.19 | 114.81 | 8.414 | |
| 18,100.00 | 11,628.00 | 17,131.51 | 10,662.00 | 96.57 | 95.98 | 0.01 | 6,497.69 | -351.74 | 966.00 | 849.75 | 116.25 | 8.310 | |
| 18,200.00 | 11,628.00 | 17,231.51 | 10,662.00 | 97.99 | 97.40 | 0.01 | 6,597.68 | -352.43 | 966.00 | 848.31 | 117.69 | 8.208 | |
| 18,300.00 | 11,628.00 | 17,331.51 | 10,662.00 | 99.42 | 98.83 | 0.01 | 6,697.68 | -353.13 | 966.00 | 846.86 | 119.14 | 8.108 | |
| 18,400.00 | 11,628.00 | 17,431.51 | 10,662.00 | 100.84 | 100.26 | 0.01 | 6,797.68 | -353.82 | 966.00 | 845.41 | 120.59 | 8.011 | |
| 18,500.00 | 11,628.00 | 17,531.51 | 10,662.00 | 102.27 | 101.69 | 0.01 | 6,897.68 | -354.52 | 966.00 | 843.96 | 122.04 | 7.915 | |
| 18,600.00 | 11,628.00 | 17,631.51 | 10,662.00 | 103.69 | 103.12 | 0.00 | 6,997.67 | -355.21 | 966.00 | 842.51 | 123.49 | 7.822 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18,700.00 | 11,628.00 | 17,731.51 | 10,662.00 | 105.12 | 104.55 | 0.00 | 7,097.67 | -355.91 | 966.00 | 841.05 | 124.95 | 7.731 | |
| 18,800.00 | 11,628.00 | 17,831.51 | 10,662.00 | 106.55 | 105.98 | 0.00 | 7,197.67 | -356.61 | 966.00 | 839.59 | 126.41 | 7.642 | |
| 18,900.00 | 11,628.00 | 17,931.51 | 10,662.00 | 107.98 | 107.41 | 0.00 | 7,297.67 | -357.30 | 966.00 | 838.12 | 127.88 | 7.554 | |
| 19,000.00 | 11,628.00 | 18,031.51 | 10,662.00 | 109.41 | 108.85 | 0.00 | 7,397.66 | -358.00 | 966.00 | 836.66 | 129.34 | 7.469 | |
| 19,100.00 | 11,628.00 | 18,131.51 | 10,662.00 | 110.83 | 110.28 | 0.00 | 7,497.66 | -358.69 | 966.00 | 835.19 | 130.81 | 7.385 | |
| 19,200.00 | 11,628.00 | 18,231.51 | 10,662.00 | 112.26 | 111.71 | 0.00 | 7,597.66 | -359.39 | 966.00 | 833.72 | 132.28 | 7.303 | |
| 19,300.00 | 11,628.00 | 18,331.51 | 10,662.00 | 113.69 | 113.14 | 0.00 | 7,697.66 | -360.08 | 966.00 | 832.25 | 133.75 | 7.222 | |
| 19,400.00 | 11,628.00 | 18,431.51 | 10,662.00 | 115.12 | 114.58 | 0.00 | 7,797.65 | -360.78 | 966.00 | 830.77 | 135.23 | 7.143 | |
| 19,500.00 | 11,628.00 | 18,531.51 | 10,662.00 | 116.56 | 116.01 | 0.00 | 7,897.65 | -361.48 | 966.00 | 829.29 | 136.71 | 7.066 | |
| 19,600.00 | 11,628.00 | 18,631.51 | 10,662.00 | 117.99 | 117.44 | 0.00 | 7,997.65 | -362.17 | 966.00 | 827.82 | 138.18 | 6.991 | |
| 19,700.00 | 11,628.00 | 18,731.51 | 10,662.00 | 119.42 | 118.88 | 0.00 | 8,097.65 | -362.87 | 966.00 | 826.33 | 139.67 | 6.917 | |
| 19,800.00 | 11,628.00 | 18,831.51 | 10,662.00 | 120.85 | 120.31 | 0.00 | 8,197.64 | -363.56 | 966.00 | 824.85 | 141.15 | 6.844 | |
| 19,900.00 | 11,628.00 | 18,931.51 | 10,662.00 | 122.28 | 121.75 | 0.00 | 8,297.64 | -364.26 | 966.00 | 823.37 | 142.63 | 6.773 | |
| 20,000.00 | 11,628.00 | 19,031.51 | 10,662.00 | 123.72 | 123.18 | 0.00 | 8,397.64 | -364.95 | 966.00 | 821.88 | 144.12 | 6.703 | |
| 20,100.00 | 11,628.00 | 19,131.51 | 10,662.00 | 125.15 | 124.62 | 0.00 | 8,497.64 | -365.65 | 966.00 | 820.39 | 145.61 | 6.634 | |
| 20,200.00 | 11,628.00 | 19,231.51 | 10,662.00 | 126.58 | 126.06 | 0.00 | 8,597.64 | -366.34 | 966.00 | 818.90 | 147.10 | 6.567 | |
| 20,300.00 | 11,628.00 | 19,331.51 | 10,662.00 | 128.02 | 127.49 | 0.00 | 8,697.63 | -367.04 | 966.00 | 817.41 | 148.59 | 6.501 | |
| 20,400.00 | 11,628.00 | 19,431.51 | 10,662.00 | 129.45 | 128.93 | 0.00 | 8,797.63 | -367.74 | 966.00 | 815.92 | 150.08 | 6.436 | |
| 20,500.00 | 11,628.00 | 19,531.51 | 10,662.00 | 130.88 | 130.36 | 0.00 | 8,897.63 | -368.43 | 966.00 | 814.42 | 151.58 | 6.373 | |
| 20,600.00 | 11,628.00 | 19,631.51 | 10,662.00 | 132.32 | 131.80 | 0.00 | 8,997.63 | -369.13 | 966.00 | 812.93 | 153.07 | 6.311 | |
| 20,700.00 | 11,628.00 | 19,731.51 | 10,662.00 | 133.75 | 133.24 | 0.00 | 9,097.62 | -369.82 | 966.00 | 811.43 | 154.57 | 6.249 | |
| 20,800.00 | 11,628.00 | 19,831.51 | 10,662.00 | 135.19 | 134.68 | 0.00 | 9,197.62 | -370.52 | 966.00 | 809.93 | 156.07 | 6.189 | |
| 20,900.00 | 11,628.00 | 19,931.51 | 10,662.00 | 136.62 | 136.11 | 0.00 | 9,297.62 | -371.21 | 966.00 | 808.43 | 157.57 | 6.131 | |
| 21,000.00 | 11,628.00 | 20,031.51 | 10,662.00 | 138.06 | 137.55 | 0.00 | 9,397.62 | -371.91 | 966.00 | 806.93 | 159.07 | 6.073 | |
| 21,100.00 | 11,628.00 | 20,131.51 | 10,662.00 | 139.50 | 138.99 | 0.00 | 9,497.61 | -372.61 | 966.00 | 805.42 | 160.58 | 6.016 | |
| 21,200.00 | 11,628.00 | 20,231.51 | 10,662.00 | 140.93 | 140.43 | 0.00 | 9,597.61 | -373.30 | 966.00 | 803.92 | 162.08 | 5.960 | |
| 21,300.00 | 11,628.00 | 20,331.51 | 10,662.00 | 142.37 | 141.87 | 0.00 | 9,697.61 | -374.00 | 966.00 | 802.41 | 163.59 | 5.905 | |
| 21,400.00 | 11,628.00 | 20,431.51 | 10,662.00 | 143.80 | 143.30 | 0.00 | 9,797.61 | -374.69 | 966.00 | 800.91 | 165.09 | 5.851 | |
| 21,500.00 | 11,628.00 | 20,531.51 | 10,662.00 | 145.24 | 144.74 | 0.00 | 9,897.60 | -375.39 | 966.00 | 799.40 | 166.60 | 5.798 | |
| 21,600.00 | 11,628.00 | 20,631.51 | 10,662.00 | 146.68 | 146.18 | 0.00 | 9,997.60 | -376.08 | 966.00 | 797.89 | 168.11 | 5.746 | |
| 21,700.00 | 11,628.00 | 20,731.51 | 10,662.00 | 148.12 | 147.62 | 0.00 | 10,097.60 | -376.78 | 966.00 | 796.38 | 169.62 | 5.695 | |
| 21,750.00 | 11,628.00 | 20,781.51 | 10,662.00 | 148.83 | 148.34 | 0.00 | 10,147.60 | -377.13 | 966.00 | 795.62 | 170.38 | 5.670 | |
| 21,800.00 | 11,628.00 | 20,831.51 | 10,662.00 | 149.55 | 148.99 | 0.00 | 10,197.60 | -377.47 | 966.00 | 794.99 | 171.01 | 5.649 | |
| 21,828.09 | 11,628.00 | 20,859.60 | 10,662.00 | 149.90 | 149.33 | 0.00 | 10,225.68 | -377.67 | 966.00 | 794.77 | 171.23 | 5.642 SF | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 604H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -1.25 | -199.96 | 199.96 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -1.25 | -199.96 | 199.96 | 198.38 | 1.58 | 126.227 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -1.25 | -199.96 | 199.96 | 197.06 | 2.90 | 68.971 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -1.25 | -199.96 | 199.96 | 196.18 | 3.79 | 52.777 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -1.25 | -199.96 | 199.96 | 195.45 | 4.51 | 44.319 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -1.25 | -199.96 | 199.96 | 194.82 | 5.14 | 38.908 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -1.25 | -199.96 | 199.96 | 194.26 | 5.70 | 35.064 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -1.25 | -199.96 | 199.96 | 193.74 | 6.22 | 32.150 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -1.25 | -199.96 | 199.96 | 193.26 | 6.70 | 29.842 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -1.25 | -199.96 | 199.96 | 188.84 | 11.12 | 17.983 | |
| 2,100.00 | 2,099.99 | 2,103.05 | 2,103.04 | 5.73 | 5.75 | 80.37 | -0.11 | -199.16 | 198.96 | 187.55 | 11.42 | 17.428 | |
| 2,200.00 | 2,199.91 | 2,205.69 | 2,205.59 | 5.88 | 5.95 | 82.56 | 3.29 | -196.78 | 196.14 | 184.46 | 11.68 | 16.792 | |
| 2,300.00 | 2,299.69 | 2,307.50 | 2,307.17 | 6.05 | 6.17 | 86.31 | 8.88 | -192.86 | 192.06 | 180.12 | 11.94 | 16.088 | |
| 2,316.67 | 2,316.30 | 2,324.36 | 2,323.97 | 6.06 | 6.21 | 87.09 | 10.02 | -192.07 | 191.32 | 179.36 | 11.96 | 15.992 | |
| 2,400.00 | 2,399.35 | 2,408.43 | 2,407.65 | 6.20 | 6.40 | 91.37 | 16.61 | -187.45 | 187.70 | 175.53 | 12.17 | 15.420 | |
| 2,500.00 | 2,499.01 | 2,511.01 | 2,509.70 | 6.38 | 6.62 | 96.80 | 24.22 | -180.20 | 183.17 | 170.73 | 12.44 | 14.721 | |
| 2,600.00 | 2,598.66 | 2,613.84 | 2,611.96 | 6.57 | 6.86 | 102.10 | 29.82 | -171.06 | 177.88 | 165.16 | 12.72 | 13.983 | |
| 2,700.00 | 2,698.32 | 2,716.76 | 2,714.21 | 6.79 | 7.09 | 107.37 | 33.40 | -160.02 | 171.60 | 158.59 | 13.01 | 13.191 | |
| 2,716.67 | 2,714.93 | 2,733.91 | 2,731.24 | 6.81 | 7.13 | 108.25 | 33.80 | -158.00 | 170.45 | 157.40 | 13.04 | 13.068 | |
| 2,800.00 | 2,798.00 | 2,819.53 | 2,816.16 | 7.00 | 7.33 | 97.63 | 34.94 | -147.14 | 163.31 | 150.00 | 13.30 | 12.274 | |
| 2,900.00 | 2,897.70 | 2,921.70 | 2,917.27 | 7.23 | 7.56 | 84.33 | 34.45 | -132.48 | 151.34 | 137.70 | 13.64 | 11.095 | |
| 2,949.02 | 2,946.56 | 2,971.44 | 2,966.38 | 7.31 | 7.68 | 78.90 | 33.49 | -124.68 | 144.20 | 130.43 | 13.77 | 10.475 | |
| 3,000.00 | 2,997.36 | 3,022.91 | 3,017.13 | 7.40 | 7.79 | 82.60 | 31.99 | -116.16 | 136.29 | 122.40 | 13.89 | 9.813 | |
| 3,100.00 | 3,097.02 | 3,121.67 | 3,114.24 | 7.63 | 8.00 | 91.03 | 27.93 | -98.73 | 121.02 | 106.80 | 14.22 | 8.510 | |
| 3,200.00 | 3,196.68 | 3,218.66 | 3,209.58 | 7.88 | 8.26 | 101.38 | 23.71 | -81.41 | 108.71 | 94.02 | 14.69 | 7.401 | |
| 3,300.00 | 3,296.33 | 3,315.65 | 3,304.92 | 8.13 | 8.53 | 113.71 | 19.49 | -64.08 | 100.87 | 85.59 | 15.28 | 6.600 | |
| 3,388.65 | 3,384.68 | 3,401.63 | 3,389.44 | 8.37 | 8.79 | 125.70 | 15.74 | -48.73 | 98.54 | 82.61 | 15.93 | 6.186 | CC |
| 3,400.00 | 3,395.99 | 3,412.64 | 3,400.26 | 8.40 | 8.82 | 127.26 | 15.26 | -46.76 | 98.58 | 82.56 | 16.02 | 6.154 | ES |
| 3,500.00 | 3,495.65 | 3,509.63 | 3,495.60 | 8.67 | 9.12 | 140.64 | 11.04 | -29.44 | 102.20 | 85.36 | 16.83 | 6.071 | SF |
| 3,600.00 | 3,595.30 | 3,606.63 | 3,590.94 | 8.96 | 9.44 | 152.56 | 6.82 | -12.11 | 111.16 | 93.53 | 17.63 | 6.305 | |
| 3,700.00 | 3,694.96 | 3,703.62 | 3,686.28 | 9.25 | 9.76 | 162.43 | 2.60 | 5.21 | 124.31 | 105.95 | 18.37 | 6.768 | |
| 3,800.00 | 3,794.62 | 3,800.61 | 3,781.61 | 9.54 | 10.10 | 170.29 | -1.62 | 22.54 | 140.49 | 121.44 | 19.04 | 7.377 | |
| 3,900.00 | 3,894.27 | 3,897.60 | 3,876.95 | 9.84 | 10.44 | 176.48 | -5.84 | 39.86 | 158.76 | 139.07 | 19.69 | 8.065 | |
| 4,000.00 | 3,993.93 | 3,994.59 | 3,972.29 | 10.15 | 10.79 | -178.62 | -10.06 | 57.19 | 178.49 | 158.18 | 20.31 | 8.789 | |
| 4,100.00 | 4,093.59 | 4,091.58 | 4,067.63 | 10.47 | 11.15 | -174.70 | -14.28 | 74.51 | 199.24 | 178.31 | 20.93 | 9.521 | |
| 4,200.00 | 4,193.24 | 4,188.58 | 4,162.97 | 10.78 | 11.51 | -171.52 | -18.51 | 91.83 | 220.72 | 199.18 | 21.54 | 10.246 | |
| 4,300.00 | 4,292.90 | 4,285.57 | 4,258.31 | 11.11 | 11.88 | -168.90 | -22.73 | 109.16 | 242.75 | 220.58 | 22.16 | 10.952 | |
| 4,400.00 | 4,392.56 | 4,382.56 | 4,353.65 | 11.43 | 12.26 | -166.72 | -26.95 | 126.48 | 265.18 | 242.39 | 22.79 | 11.634 | |
| 4,500.00 | 4,492.21 | 4,479.55 | 4,448.99 | 11.76 | 12.64 | -164.88 | -31.17 | 143.81 | 287.92 | 264.49 | 23.43 | 12.290 | |
| 4,600.00 | 4,591.87 | 4,576.54 | 4,544.32 | 12.10 | 13.02 | -163.31 | -35.39 | 161.13 | 310.90 | 286.84 | 24.07 | 12.917 | |
| 4,700.00 | 4,691.53 | 4,673.54 | 4,639.66 | 12.43 | 13.41 | -161.95 | -39.61 | 178.46 | 334.08 | 309.36 | 24.72 | 13.516 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 604H - OH - Plan 1 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,770.53 | 4,735.00 | 12.77 | 13.80 | -160.77 | -43.83 | 195.78 | 357.41 | 332.04 | 25.37 | 14.087 | |
| 4,900.00 | 4,890.84 | 4,867.52 | 4,830.34 | 13.11 | 14.20 | -159.73 | -48.05 | 213.10 | 380.87 | 354.84 | 26.03 | 14.630 | |
| 5,000.00 | 4,990.50 | 4,964.51 | 4,925.68 | 13.45 | 14.60 | -158.82 | -52.27 | 230.43 | 404.43 | 377.73 | 26.70 | 15.147 | |
| 5,100.00 | 5,090.15 | 5,061.50 | 5,021.02 | 13.80 | 15.00 | -158.00 | -56.50 | 247.75 | 428.09 | 400.71 | 27.37 | 15.639 | |
| 5,200.00 | 5,189.81 | 5,158.50 | 5,116.36 | 14.15 | 15.40 | -157.27 | -60.72 | 265.08 | 451.81 | 423.76 | 28.05 | 16.106 | |
| 5,300.00 | 5,289.47 | 5,255.49 | 5,211.70 | 14.50 | 15.81 | -156.61 | -64.94 | 282.40 | 475.60 | 446.86 | 28.73 | 16.552 | |
| 5,400.00 | 5,389.12 | 5,352.48 | 5,307.04 | 14.85 | 16.22 | -156.02 | -69.16 | 299.73 | 499.44 | 470.02 | 29.42 | 16.977 | |
| 5,500.00 | 5,488.78 | 5,449.47 | 5,402.37 | 15.20 | 16.63 | -155.48 | -73.38 | 317.05 | 523.32 | 493.21 | 30.11 | 17.381 | |
| 5,600.00 | 5,588.43 | 5,546.46 | 5,497.71 | 15.55 | 17.04 | -154.98 | -77.60 | 334.37 | 547.25 | 516.45 | 30.80 | 17.766 | |
| 5,615.36 | 5,603.74 | 5,561.36 | 5,512.35 | 15.60 | 17.10 | -154.91 | -78.25 | 337.04 | 550.93 | 520.02 | 30.90 | 17.827 | |
| 5,700.00 | 5,688.16 | 5,643.63 | 5,593.23 | 15.90 | 17.46 | -154.62 | -81.83 | 351.73 | 570.39 | 538.89 | 31.49 | 18.112 | |
| 5,800.00 | 5,788.05 | 5,741.26 | 5,689.19 | 16.23 | 17.87 | -154.19 | -86.08 | 369.17 | 591.29 | 559.13 | 32.16 | 18.385 | |
| 5,900.00 | 5,888.02 | 5,839.28 | 5,785.54 | 16.50 | 18.30 | -153.68 | -90.35 | 386.68 | 609.95 | 577.17 | 32.78 | 18.606 | |
| 5,931.98 | 5,920.00 | 5,870.70 | 5,816.42 | 16.53 | 18.43 | 79.60 | -91.71 | 392.29 | 615.45 | 582.52 | 32.93 | 18.689 | |
| 6,000.00 | 5,988.02 | 5,937.56 | 5,882.14 | 16.55 | 18.72 | 80.06 | -94.62 | 404.23 | 626.91 | 593.71 | 33.21 | 18.879 | |
| 6,100.00 | 6,088.02 | 6,035.85 | 5,978.76 | 16.59 | 19.15 | 80.72 | -98.90 | 421.79 | 643.84 | 610.21 | 33.64 | 19.141 | |
| 6,200.00 | 6,188.02 | 6,134.15 | 6,075.38 | 16.63 | 19.58 | 81.34 | -103.18 | 439.34 | 660.85 | 626.78 | 34.07 | 19.396 | |
| 6,300.00 | 6,288.02 | 6,232.45 | 6,172.00 | 16.68 | 20.00 | 81.93 | -107.46 | 456.90 | 677.93 | 643.42 | 34.51 | 19.645 | |
| 6,400.00 | 6,388.02 | 6,330.74 | 6,268.62 | 16.72 | 20.44 | 82.49 | -111.73 | 474.46 | 695.08 | 660.12 | 34.95 | 19.887 | |
| 6,500.00 | 6,488.02 | 6,429.04 | 6,365.24 | 16.76 | 20.87 | 83.02 | -116.01 | 492.02 | 712.28 | 676.89 | 35.40 | 20.122 | |
| 6,600.00 | 6,588.02 | 6,527.33 | 6,461.86 | 16.81 | 21.30 | 83.53 | -120.29 | 509.57 | 729.55 | 693.70 | 35.85 | 20.351 | |
| 6,700.00 | 6,688.02 | 6,625.63 | 6,558.48 | 16.85 | 21.73 | 84.02 | -124.57 | 527.13 | 746.87 | 710.57 | 36.30 | 20.574 | |
| 6,800.00 | 6,788.02 | 6,723.92 | 6,655.10 | 16.90 | 22.17 | 84.48 | -128.85 | 544.69 | 764.24 | 727.48 | 36.76 | 20.791 | |
| 6,900.00 | 6,888.02 | 6,822.22 | 6,751.72 | 16.94 | 22.60 | 84.92 | -133.12 | 562.25 | 781.65 | 744.43 | 37.22 | 21.003 | |
| 7,000.00 | 6,988.02 | 6,920.52 | 6,848.34 | 16.99 | 23.04 | 85.35 | -137.40 | 579.80 | 799.11 | 761.43 | 37.68 | 21.208 | |
| 7,100.00 | 7,088.02 | 7,018.81 | 6,944.96 | 17.03 | 23.47 | 85.75 | -141.68 | 597.36 | 816.61 | 778.46 | 38.14 | 21.408 | |
| 7,200.00 | 7,188.02 | 7,117.11 | 7,041.58 | 17.08 | 23.91 | 86.14 | -145.96 | 614.92 | 834.14 | 795.53 | 38.61 | 21.603 | |
| 7,300.00 | 7,288.02 | 7,215.40 | 7,138.21 | 17.12 | 24.35 | 86.51 | -150.24 | 632.47 | 851.72 | 812.63 | 39.08 | 21.792 | |
| 7,400.00 | 7,388.02 | 7,313.70 | 7,234.83 | 17.17 | 24.79 | 86.87 | -154.51 | 650.03 | 869.32 | 829.77 | 39.56 | 21.977 | |
| 7,500.00 | 7,488.02 | 7,411.99 | 7,331.45 | 17.21 | 25.23 | 87.21 | -158.79 | 667.59 | 886.96 | 846.93 | 40.03 | 22.156 | |
| 7,600.00 | 7,588.02 | 7,510.29 | 7,428.07 | 17.26 | 25.67 | 87.54 | -163.07 | 685.15 | 904.63 | 864.12 | 40.51 | 22.331 | |
| 7,700.00 | 7,688.02 | 7,608.58 | 7,524.69 | 17.31 | 26.11 | 87.86 | -167.35 | 702.70 | 922.32 | 881.33 | 40.99 | 22.501 | |
| 7,800.00 | 7,788.02 | 7,706.88 | 7,621.31 | 17.35 | 26.55 | 88.17 | -171.62 | 720.26 | 940.05 | 898.57 | 41.47 | 22.667 | |
| 7,900.00 | 7,888.02 | 7,805.18 | 7,717.93 | 17.40 | 26.99 | 88.46 | -175.90 | 737.82 | 957.79 | 915.84 | 41.96 | 22.829 | |
| 8,000.00 | 7,988.02 | 7,909.07 | 7,820.06 | 17.45 | 27.45 | 88.76 | -180.41 | 756.31 | 975.51 | 933.05 | 42.47 | 22.972 | |
| 8,100.00 | 8,088.02 | 8,040.51 | 7,949.79 | 17.50 | 28.04 | 89.08 | -185.42 | 776.88 | 991.10 | 947.99 | 43.11 | 22.989 | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -1.09 | -174.97 | 174.97 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -1.09 | -174.97 | 174.97 | 173.39 | 1.58 | 110.452 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -1.09 | -174.97 | 174.97 | 172.07 | 2.90 | 60.351 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -1.09 | -174.97 | 174.97 | 171.18 | 3.79 | 46.182 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -1.09 | -174.97 | 174.97 | 170.46 | 4.51 | 38.780 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -1.09 | -174.97 | 174.97 | 169.83 | 5.14 | 34.045 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -1.09 | -174.97 | 174.97 | 169.27 | 5.70 | 30.682 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -1.09 | -174.97 | 174.97 | 168.75 | 6.22 | 28.132 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -1.09 | -174.97 | 174.97 | 168.27 | 6.70 | 26.112 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -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 | -90.36 | -1.09 | -174.97 | 174.97 | 163.85 | 11.12 | 15.736 | |
| 2,100.00 | 2,099.99 | 2,099.99 | 2,099.99 | 5.73 | 5.71 | 80.07 | -1.09 | -174.97 | 174.74 | 163.34 | 11.40 | 15.324 | |
| 2,200.00 | 2,199.91 | 2,199.91 | 2,199.91 | 5.88 | 5.86 | 81.35 | -1.09 | -174.97 | 174.11 | 162.45 | 11.66 | 14.935 | |
| 2,300.00 | 2,299.69 | 2,299.69 | 2,299.69 | 6.05 | 6.01 | 83.50 | -1.09 | -174.97 | 173.24 | 161.33 | 11.91 | 14.547 | |
| 2,316.67 | 2,316.30 | 2,315.83 | 2,315.83 | 6.06 | 6.03 | 83.92 | -1.11 | -174.99 | 173.12 | 161.19 | 11.93 | 14.509 | |
| 2,347.25 | 2,346.78 | 2,345.45 | 2,345.45 | 6.11 | 6.08 | 84.67 | -1.28 | -175.16 | 173.03 | 161.02 | 12.01 | 14.413 | CC, ES |
| 2,400.00 | 2,399.35 | 2,396.60 | 2,396.59 | 6.20 | 6.16 | 85.82 | -1.95 | -175.83 | 173.29 | 161.16 | 12.13 | 14.287 | |
| 2,500.00 | 2,499.01 | 2,493.70 | 2,493.62 | 6.38 | 6.31 | 87.51 | -4.56 | -178.44 | 175.17 | 162.82 | 12.35 | 14.187 | |
| 2,600.00 | 2,598.66 | 2,590.89 | 2,590.61 | 6.57 | 6.47 | 88.52 | -8.92 | -182.80 | 178.70 | 166.13 | 12.57 | 14.217 | |
| 2,700.00 | 2,698.32 | 2,687.06 | 2,686.42 | 6.79 | 6.57 | 88.99 | -14.54 | -188.91 | 183.91 | 171.18 | 12.74 | 14.440 | |
| 2,716.67 | 2,714.93 | 2,702.94 | 2,702.23 | 6.81 | 6.59 | 89.07 | -15.42 | -190.13 | 185.01 | 172.25 | 12.75 | 14.508 | |
| 2,800.00 | 2,798.00 | 2,782.26 | 2,781.14 | 7.00 | 6.73 | 74.31 | -19.46 | -197.12 | 190.64 | 177.68 | 12.96 | 14.706 | |
| 2,900.00 | 2,897.70 | 2,877.31 | 2,875.53 | 7.23 | 6.92 | 55.45 | -23.49 | -207.49 | 197.42 | 184.18 | 13.25 | 14.905 | |
| 2,949.02 | 2,946.56 | 2,924.13 | 2,921.94 | 7.31 | 7.00 | 46.88 | -25.14 | -213.40 | 200.74 | 187.41 | 13.33 | 15.055 | |
| 3,000.00 | 2,997.36 | 2,974.99 | 2,972.34 | 7.40 | 7.11 | 46.95 | -26.86 | -220.05 | 204.13 | 190.66 | 13.47 | 15.159 | |
| 3,100.00 | 3,097.02 | 3,074.77 | 3,071.21 | 7.63 | 7.34 | 47.07 | -30.21 | -233.08 | 210.77 | 196.95 | 13.81 | 15.257 | |
| 3,200.00 | 3,196.68 | 3,174.55 | 3,170.07 | 7.88 | 7.59 | 47.18 | -33.57 | -246.10 | 217.41 | 203.22 | 14.19 | 15.323 | |
| 3,300.00 | 3,296.33 | 3,274.33 | 3,268.94 | 8.13 | 7.86 | 47.28 | -36.92 | -259.13 | 224.05 | 209.47 | 14.58 | 15.362 | |
| 3,400.00 | 3,395.99 | 3,374.10 | 3,367.81 | 8.40 | 8.14 | 47.38 | -40.28 | -272.16 | 230.70 | 215.70 | 15.00 | 15.379 | |
| 3,500.00 | 3,495.65 | 3,473.88 | 3,466.67 | 8.67 | 8.43 | 47.48 | -43.63 | -285.19 | 237.34 | 221.91 | 15.44 | 15.375 | |
| 3,600.00 | 3,595.30 | 3,573.66 | 3,565.54 | 8.96 | 8.74 | 47.56 | -46.99 | -298.22 | 243.99 | 228.10 | 15.89 | 15.356 | |
| 3,700.00 | 3,694.96 | 3,673.44 | 3,664.41 | 9.25 | 9.05 | 47.65 | -50.35 | -311.25 | 250.64 | 234.28 | 16.36 | 15.324 | |
| 3,800.00 | 3,794.62 | 3,773.22 | 3,763.28 | 9.54 | 9.37 | 47.73 | -53.70 | -324.28 | 257.28 | 240.44 | 16.84 | 15.280 | |
| 3,900.00 | 3,894.27 | 3,873.00 | 3,862.14 | 9.84 | 9.70 | 47.80 | -57.06 | -337.31 | 263.93 | 246.60 | 17.33 | 15.228 | |
| 4,000.00 | 3,993.93 | 3,972.77 | 3,961.01 | 10.15 | 10.04 | 47.87 | -60.41 | -350.33 | 270.58 | 252.74 | 17.84 | 15.169 | |
| 4,100.00 | 4,093.59 | 4,072.55 | 4,059.88 | 10.47 | 10.39 | 47.94 | -63.77 | -363.36 | 277.22 | 258.87 | 18.35 | 15.104 | |
| 4,200.00 | 4,193.24 | 4,172.33 | 4,158.74 | 10.78 | 10.74 | 48.01 | -67.13 | -376.39 | 283.87 | 264.99 | 18.88 | 15.035 | |
| 4,300.00 | 4,292.90 | 4,272.11 | 4,257.61 | 11.11 | 11.10 | 48.07 | -70.48 | -389.42 | 290.52 | 271.11 | 19.42 | 14.963 | |
| 4,400.00 | 4,392.56 | 4,371.89 | 4,356.48 | 11.43 | 11.46 | 48.13 | -73.84 | -402.45 | 297.17 | 277.21 | 19.96 | 14.889 | |
| 4,500.00 | 4,492.21 | 4,471.67 | 4,455.35 | 11.76 | 11.83 | 48.19 | -77.19 | -415.48 | 303.82 | 283.31 | 20.51 | 14.814 | |
| 4,600.00 | 4,591.87 | 4,571.44 | 4,554.21 | 12.10 | 12.20 | 48.24 | -80.55 | -428.51 | 310.47 | 289.40 | 21.07 | 14.737 | |
| 4,700.00 | 4,691.53 | 4,671.22 | 4,653.08 | 12.43 | 12.57 | 48.29 | -83.90 | -441.53 | 317.12 | 295.49 | 21.63 | 14.660 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,771.00 | 4,751.95 | 12.77 | 12.95 | 48.34 | -87.26 | -454.56 | 323.77 | 301.57 | 22.20 | 14.584 | |
| 4,900.00 | 4,890.84 | 4,870.78 | 4,850.81 | 13.11 | 13.33 | 48.39 | -90.62 | -467.59 | 330.42 | 307.64 | 22.78 | 14.507 | |
| 5,000.00 | 4,990.50 | 4,970.56 | 4,949.68 | 13.45 | 13.72 | 48.44 | -93.97 | -480.62 | 337.07 | 313.71 | 23.36 | 14.432 | |
| 5,100.00 | 5,090.15 | 5,070.34 | 5,048.55 | 13.80 | 14.10 | 48.48 | -97.33 | -493.65 | 343.72 | 319.78 | 23.94 | 14.357 | |
| 5,200.00 | 5,189.81 | 5,170.11 | 5,147.41 | 14.15 | 14.49 | 48.52 | -100.68 | -506.68 | 350.37 | 325.84 | 24.53 | 14.284 | |
| 5,300.00 | 5,289.47 | 5,269.89 | 5,246.28 | 14.50 | 14.88 | 48.56 | -104.04 | -519.71 | 357.02 | 331.90 | 25.12 | 14.211 | |
| 5,400.00 | 5,389.12 | 5,369.67 | 5,345.15 | 14.85 | 15.28 | 48.60 | -107.40 | -532.74 | 363.67 | 337.95 | 25.72 | 14.140 | |
| 5,500.00 | 5,488.78 | 5,469.45 | 5,444.02 | 15.20 | 15.67 | 48.64 | -110.75 | -545.76 | 370.32 | 344.00 | 26.32 | 14.071 | |
| 5,600.00 | 5,588.43 | 5,569.23 | 5,542.88 | 15.55 | 16.07 | 48.68 | -114.11 | -558.79 | 376.97 | 350.05 | 26.92 | 14.003 | |
| 5,615.36 | 5,603.74 | 5,584.55 | 5,558.07 | 15.60 | 16.13 | 48.68 | -114.62 | -560.79 | 378.00 | 350.99 | 27.01 | 13.996 | |
| 5,700.00 | 5,688.16 | 5,668.96 | 5,641.70 | 15.90 | 16.47 | 48.68 | -117.46 | -571.82 | 384.24 | 356.71 | 27.54 | 13.953 | |
| 5,800.00 | 5,788.05 | 5,768.52 | 5,740.36 | 16.23 | 16.87 | 48.43 | -120.81 | -584.82 | 393.22 | 365.03 | 28.19 | 13.949 | |
| 5,900.00 | 5,888.02 | 5,867.85 | 5,838.78 | 16.50 | 17.27 | 47.94 | -124.15 | -597.79 | 403.96 | 375.10 | 28.86 | 13.997 | |
| 5,931.98 | 5,920.00 | 5,899.56 | 5,870.20 | 16.53 | 17.40 | -79.17 | -125.22 | -601.93 | 407.77 | 378.73 | 29.05 | 14.039 | |
| 6,000.00 | 5,988.02 | 5,966.96 | 5,936.98 | 16.55 | 17.67 | -79.71 | -127.48 | -610.73 | 416.10 | 386.68 | 29.42 | 14.144 | |
| 6,100.00 | 6,088.02 | 6,066.04 | 6,035.16 | 16.59 | 18.07 | -80.46 | -130.82 | -623.67 | 428.40 | 398.42 | 29.99 | 14.286 | |
| 6,200.00 | 6,188.02 | 6,165.13 | 6,133.34 | 16.63 | 18.47 | -81.18 | -134.15 | -636.60 | 440.77 | 410.22 | 30.55 | 14.428 | |
| 6,300.00 | 6,288.02 | 6,264.22 | 6,231.52 | 16.68 | 18.88 | -81.85 | -137.48 | -649.54 | 453.21 | 422.10 | 31.11 | 14.568 | |
| 6,400.00 | 6,388.02 | 6,363.30 | 6,329.71 | 16.72 | 19.28 | -82.49 | -140.81 | -662.48 | 465.70 | 434.04 | 31.66 | 14.707 | |
| 6,500.00 | 6,488.02 | 6,462.39 | 6,427.89 | 16.76 | 19.69 | -83.09 | -144.15 | -675.42 | 478.25 | 446.04 | 32.22 | 14.845 | |
| 6,600.00 | 6,588.02 | 6,561.48 | 6,526.07 | 16.81 | 20.10 | -83.66 | -147.48 | -688.36 | 490.85 | 458.08 | 32.76 | 14.981 | |
| 6,700.00 | 6,688.02 | 6,660.56 | 6,624.25 | 16.85 | 20.50 | -84.21 | -150.81 | -701.30 | 503.49 | 470.18 | 33.31 | 15.116 | |
| 6,800.00 | 6,788.02 | 6,759.65 | 6,722.43 | 16.90 | 20.91 | -84.72 | -154.15 | -714.23 | 516.18 | 482.33 | 33.85 | 15.249 | |
| 6,900.00 | 6,888.02 | 6,858.74 | 6,820.62 | 16.94 | 21.32 | -85.21 | -157.48 | -727.17 | 528.90 | 494.51 | 34.39 | 15.380 | |
| 7,000.00 | 6,988.02 | 6,957.82 | 6,918.80 | 16.99 | 21.73 | -85.68 | -160.81 | -740.11 | 541.67 | 506.74 | 34.93 | 15.509 | |
| 7,100.00 | 7,088.02 | 7,056.91 | 7,016.98 | 17.03 | 22.14 | -86.13 | -164.14 | -753.05 | 554.46 | 519.00 | 35.46 | 15.636 | |
| 7,200.00 | 7,188.02 | 7,156.00 | 7,115.16 | 17.08 | 22.55 | -86.56 | -167.48 | -765.99 | 567.29 | 531.30 | 35.99 | 15.762 | |
| 7,300.00 | 7,288.02 | 7,255.08 | 7,213.34 | 17.12 | 22.96 | -86.97 | -170.81 | -778.93 | 580.15 | 543.63 | 36.52 | 15.885 | |
| 7,400.00 | 7,388.02 | 7,354.17 | 7,311.52 | 17.17 | 23.38 | -87.36 | -174.14 | -791.86 | 593.03 | 555.98 | 37.05 | 16.007 | |
| 7,500.00 | 7,488.02 | 7,453.26 | 7,409.71 | 17.21 | 23.79 | -87.73 | -177.47 | -804.80 | 605.95 | 568.37 | 37.58 | 16.126 | |
| 7,600.00 | 7,588.02 | 7,552.34 | 7,507.89 | 17.26 | 24.20 | -88.09 | -180.81 | -817.74 | 618.88 | 580.78 | 38.10 | 16.244 | |
| 7,700.00 | 7,688.02 | 7,651.43 | 7,606.07 | 17.31 | 24.62 | -88.44 | -184.14 | -830.68 | 631.84 | 593.22 | 38.62 | 16.360 | |
| 7,800.00 | 7,788.02 | 7,750.52 | 7,704.25 | 17.35 | 25.03 | -88.77 | -187.47 | -843.62 | 644.82 | 605.68 | 39.14 | 16.474 | |
| 7,900.00 | 7,888.02 | 7,849.60 | 7,802.43 | 17.40 | 25.44 | -89.08 | -190.80 | -856.56 | 657.82 | 618.16 | 39.66 | 16.585 | |
| 8,000.00 | 7,988.02 | 7,948.69 | 7,900.62 | 17.45 | 25.86 | -89.39 | -194.14 | -869.50 | 670.84 | 630.66 | 40.18 | 16.695 | |
| 8,100.00 | 8,088.02 | 8,050.70 | 8,001.70 | 17.50 | 26.28 | -89.69 | -197.56 | -882.78 | 683.85 | 643.15 | 40.70 | 16.802 | |
| 8,200.00 | 8,188.02 | 8,171.08 | 8,121.28 | 17.54 | 26.76 | -89.98 | -201.01 | -896.16 | 694.97 | 653.71 | 41.26 | 16.844 | |
| 8,300.00 | 8,288.02 | 8,292.22 | 8,241.99 | 17.59 | 27.23 | -90.19 | -203.52 | -905.94 | 703.04 | 661.28 | 41.76 | 16.835 | |
| 8,400.00 | 8,388.02 | 8,413.87 | 8,363.48 | 17.64 | 27.65 | -90.31 | -205.09 | -912.03 | 708.05 | 665.88 | 42.18 | 16.788 | |
| 8,500.00 | 8,488.02 | 8,535.81 | 8,485.38 | 17.69 | 27.94 | -90.36 | -205.69 | -914.36 | 709.97 | 667.53 | 42.44 | 16.729 | |
| 8,600.00 | 8,588.02 | 8,638.45 | 8,588.02 | 17.74 | 27.98 | -90.36 | -205.70 | -914.39 | 709.99 | 667.47 | 42.52 | 16.698 | |
| 8,700.00 | 8,688.02 | 8,738.45 | 8,688.02 | 17.79 | 28.01 | -90.36 | -205.70 | -914.39 | 709.99 | 667.39 | 42.60 | 16.665 | |
| 8,800.00 | 8,788.02 | 8,838.45 | 8,788.02 | 17.84 | 28.03 | -90.36 | -205.70 | -914.39 | 709.99 | 667.31 | 42.69 | 16.632 | |
| 8,900.00 | 8,888.02 | 8,938.45 | 8,888.02 | 17.89 | 28.06 | -90.36 | -205.70 | -914.39 | 709.99 | 667.22 | 42.77 | 16.599 | |
| 9,000.00 | 8,988.02 | 9,038.45 | 8,988.02 | 17.94 | 28.09 | -90.36 | -205.70 | -914.39 | 709.99 | 667.14 | 42.86 | 16.566 | |
| 9,100.00 | 9,088.02 | 9,138.45 | 9,088.02 | 17.99 | 28.12 | -90.36 | -205.70 | -914.39 | 709.99 | 667.05 | 42.94 | 16.533 | |
| 9,200.00 | 9,188.02 | 9,238.45 | 9,188.02 | 18.04 | 28.15 | -90.36 | -205.70 | -914.39 | 709.99 | 666.96 | 43.03 | 16.500 | |
| 9,300.00 | 9,288.02 | 9,338.45 | 9,288.02 | 18.09 | 28.18 | -90.36 | -205.70 | -914.39 | 709.99 | 666.88 | 43.12 | 16.466 | |
| 9,400.00 | 9,388.02 | 9,438.45 | 9,388.02 | 18.14 | 28.21 | -90.36 | -205.70 | -914.39 | 709.99 | 666.79 | 43.21 | 16.433 | |
| 9,500.00 | 9,488.02 | 9,538.45 | 9,488.02 | 18.19 | 28.24 | -90.36 | -205.70 | -914.39 | 709.99 | 666.70 | 43.29 | 16.400 | |
| 9,600.00 | 9,588.02 | 9,638.45 | 9,588.02 | 18.24 | 28.27 | -90.36 | -205.70 | -914.39 | 709.99 | 666.61 | 43.38 | 16.367 | |
| 9,700.00 | 9,688.02 | 9,738.45 | 9,688.02 | 18.29 | 28.30 | -90.36 | -205.70 | -914.39 | 709.99 | 666.52 | 43.47 | 16.333 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,800.00 | 9,788.02 | 9,838.45 | 9,788.02 | 18.34 | 28.33 | -90.36 | -205.70 | -914.39 | 709.99 | 666.44 | 43.56 | 16.300 | |
| 9,900.00 | 9,888.02 | 9,938.45 | 9,888.02 | 18.39 | 28.36 | -90.36 | -205.70 | -914.39 | 709.99 | 666.35 | 43.65 | 16.266 | |
| 10,000.00 | 9,988.02 | 10,038.45 | 9,988.02 | 18.45 | 28.39 | -90.36 | -205.70 | -914.39 | 709.99 | 666.26 | 43.74 | 16.233 | |
| 10,100.00 | 10,088.02 | 10,138.45 | 10,088.02 | 18.50 | 28.42 | -90.36 | -205.70 | -914.39 | 709.99 | 666.17 | 43.83 | 16.200 | |
| 10,200.00 | 10,188.02 | 10,238.45 | 10,188.02 | 18.55 | 28.45 | -90.36 | -205.70 | -914.39 | 709.99 | 666.08 | 43.92 | 16.166 | |
| 10,300.00 | 10,288.02 | 10,338.45 | 10,288.02 | 18.60 | 28.48 | -90.36 | -205.70 | -914.39 | 709.99 | 665.98 | 44.01 | 16.133 | |
| 10,400.00 | 10,388.02 | 10,438.45 | 10,388.02 | 18.66 | 28.51 | -90.36 | -205.70 | -914.39 | 709.99 | 665.89 | 44.10 | 16.099 | |
| 10,410.86 | 10,398.88 | 10,449.31 | 10,398.88 | 18.66 | 28.51 | -90.36 | -205.70 | -914.39 | 709.99 | 665.88 | 44.11 | 16.096 | |
| 10,500.00 | 10,488.02 | 10,538.42 | 10,487.99 | 18.71 | 28.53 | -90.34 | -205.42 | -914.39 | 709.99 | 665.81 | 44.18 | 16.070 | |
| 10,600.00 | 10,588.02 | 10,636.72 | 10,585.49 | 18.76 | 28.46 | -89.41 | -193.95 | -914.47 | 710.10 | 666.01 | 44.10 | 16.103 | |
| 10,700.00 | 10,688.02 | 10,728.58 | 10,673.61 | 18.82 | 28.38 | -87.35 | -168.32 | -914.65 | 711.15 | 667.31 | 43.85 | 16.220 | |
| 10,800.00 | 10,788.02 | 10,810.54 | 10,747.88 | 18.87 | 28.31 | -84.58 | -133.83 | -914.89 | 714.80 | 671.28 | 43.52 | 16.423 | |
| 10,900.00 | 10,888.02 | 10,881.33 | 10,807.52 | 18.92 | 28.26 | -81.56 | -95.77 | -915.16 | 723.03 | 679.80 | 43.23 | 16.725 | |
| 11,000.00 | 10,988.02 | 10,941.36 | 10,854.09 | 18.98 | 28.23 | -78.61 | -57.94 | -915.43 | 737.58 | 694.52 | 43.06 | 17.130 | |
| 11,067.02 | 11,055.04 | 10,976.16 | 10,879.19 | 19.00 | 28.22 | -76.75 | -33.84 | -915.60 | 751.49 | 708.46 | 43.03 | 17.465 | |
| 11,100.00 | 11,088.00 | 11,000.00 | 10,895.52 | 18.99 | 28.21 | -66.75 | -16.48 | -915.72 | 759.35 | 716.40 | 42.95 | 17.681 | |
| 11,150.00 | 11,137.73 | 11,016.82 | 10,906.60 | 18.95 | 28.22 | -64.78 | -3.82 | -915.81 | 771.35 | 728.16 | 43.19 | 17.859 | |
| 11,200.00 | 11,186.83 | 11,050.00 | 10,927.35 | 18.88 | 28.22 | -62.12 | 22.06 | -915.99 | 783.54 | 740.26 | 43.28 | 18.103 | |
| 11,250.00 | 11,234.93 | 11,065.88 | 10,936.73 | 18.82 | 28.23 | -60.37 | 34.87 | -916.08 | 795.42 | 751.73 | 43.69 | 18.206 | |
| 11,300.00 | 11,281.65 | 11,100.00 | 10,955.69 | 18.75 | 28.24 | -58.00 | 63.23 | -916.28 | 807.10 | 763.19 | 43.91 | 18.382 | |
| 11,350.00 | 11,326.65 | 11,114.96 | 10,963.46 | 18.68 | 28.25 | -56.51 | 76.01 | -916.37 | 818.04 | 773.59 | 44.44 | 18.406 | |
| 11,400.00 | 11,369.59 | 11,150.00 | 10,980.34 | 18.61 | 28.28 | -54.48 | 106.72 | -916.58 | 828.48 | 783.71 | 44.77 | 18.507 | |
| 11,450.00 | 11,410.13 | 11,164.05 | 10,986.57 | 18.55 | 28.30 | -53.29 | 119.30 | -916.67 | 837.82 | 792.43 | 45.40 | 18.456 | |
| 11,500.00 | 11,447.97 | 11,200.00 | 11,001.10 | 18.51 | 28.34 | -51.62 | 152.18 | -916.90 | 846.44 | 800.65 | 45.80 | 18.482 | |
| 11,550.00 | 11,482.82 | 11,213.13 | 11,005.89 | 18.48 | 28.37 | -50.73 | 164.41 | -916.99 | 853.68 | 807.19 | 46.49 | 18.362 | |
| 11,600.00 | 11,514.41 | 11,237.67 | 11,014.09 | 18.48 | 28.41 | -49.70 | 187.54 | -917.15 | 859.87 | 812.79 | 47.08 | 18.265 | |
| 11,650.00 | 11,542.51 | 11,262.21 | 11,021.28 | 18.49 | 28.45 | -48.83 | 210.99 | -917.31 | 864.78 | 817.10 | 47.68 | 18.135 | |
| 11,700.00 | 11,566.90 | 11,286.74 | 11,027.47 | 18.53 | 28.51 | -48.12 | 234.73 | -917.48 | 868.35 | 820.04 | 48.31 | 17.976 | |
| 11,750.00 | 11,587.39 | 11,300.00 | 11,030.38 | 18.61 | 28.53 | -47.73 | 247.66 | -917.57 | 870.66 | 821.64 | 49.01 | 17.764 | |
| 11,800.00 | 11,603.83 | 11,335.80 | 11,036.76 | 18.71 | 28.63 | -47.18 | 282.89 | -917.82 | 871.23 | 821.66 | 49.57 | 17.575 | |
| 11,850.00 | 11,616.09 | 11,350.00 | 11,038.67 | 18.85 | 28.67 | -47.06 | 296.96 | -917.92 | 870.60 | 820.34 | 50.26 | 17.321 | |
| 11,900.00 | 11,624.08 | 11,384.85 | 11,041.89 | 19.02 | 28.78 | -46.88 | 331.65 | -918.16 | 868.22 | 817.38 | 50.85 | 17.076 | |
| 11,950.00 | 11,627.75 | 11,409.37 | 11,042.89 | 19.22 | 28.85 | -46.98 | 356.15 | -918.33 | 864.46 | 812.99 | 51.47 | 16.794 | |
| 11,967.02 | 11,628.00 | 11,420.47 | 11,043.00 | 19.30 | 28.89 | -47.03 | 367.24 | -918.41 | 862.85 | 811.18 | 51.67 | 16.700 | |
| 12,000.00 | 11,628.00 | 11,447.63 | 11,043.00 | 19.46 | 29.00 | -46.91 | 394.40 | -918.60 | 859.77 | 807.74 | 52.03 | 16.525 | |
| 12,100.00 | 11,628.00 | 11,547.09 | 11,043.00 | 20.02 | 29.41 | -46.54 | 493.86 | -919.30 | 852.22 | 799.08 | 53.14 | 16.037 | |
| 12,200.00 | 11,628.00 | 11,646.85 | 11,043.00 | 20.65 | 29.88 | -46.29 | 593.62 | -920.00 | 847.24 | 792.91 | 54.32 | 15.596 | |
| 12,300.00 | 11,628.00 | 11,746.78 | 11,043.00 | 21.34 | 30.41 | -46.17 | 693.55 | -920.70 | 844.79 | 789.22 | 55.58 | 15.200 | |
| 12,346.92 | 11,628.00 | 11,793.70 | 11,043.00 | 21.68 | 30.67 | -46.16 | 740.47 | -921.03 | 844.52 | 788.34 | 56.18 | 15.033 | |
| 12,347.17 | 11,628.00 | 11,793.95 | 11,043.00 | 21.68 | 30.67 | -46.16 | 740.71 | -921.03 | 844.52 | 788.34 | 56.18 | 15.032 | |
| 12,400.00 | 11,628.00 | 11,846.78 | 11,043.00 | 22.07 | 31.00 | -46.16 | 793.55 | -921.40 | 844.52 | 787.64 | 56.88 | 14.848 | |
| 12,500.00 | 11,628.00 | 11,946.78 | 11,043.00 | 22.87 | 31.63 | -46.16 | 893.55 | -922.10 | 844.53 | 786.27 | 58.25 | 14.497 | |
| 12,600.00 | 11,628.00 | 12,046.78 | 11,043.00 | 23.73 | 32.32 | -46.16 | 993.54 | -922.81 | 844.53 | 784.84 | 59.69 | 14.148 | |
| 12,700.00 | 11,628.00 | 12,146.78 | 11,043.00 | 24.65 | 33.05 | -46.16 | 1,093.54 | -923.51 | 844.54 | 783.35 | 61.19 | 13.803 | |
| 12,800.00 | 11,628.00 | 12,246.78 | 11,043.00 | 25.62 | 33.83 | -46.16 | 1,193.54 | -924.21 | 844.54 | 781.81 | 62.73 | 13.462 | |
| 12,900.00 | 11,628.00 | 12,346.78 | 11,043.00 | 26.64 | 34.64 | -46.16 | 1,293.54 | -924.91 | 844.55 | 780.22 | 64.33 | 13.128 | |
| 13,000.00 | 11,628.00 | 12,446.78 | 11,043.00 | 27.71 | 35.49 | -46.16 | 1,393.53 | -925.61 | 844.56 | 778.58 | 65.97 | 12.801 | |
| 13,100.00 | 11,628.00 | 12,546.78 | 11,043.00 | 28.80 | 36.38 | -46.16 | 1,493.53 | -926.31 | 844.56 | 776.90 | 67.66 | 12.482 | |
| 13,200.00 | 11,628.00 | 12,646.78 | 11,043.00 | 29.93 | 37.30 | -46.16 | 1,593.53 | -927.02 | 844.57 | 775.18 | 69.39 | 12.172 | |
| 13,300.00 | 11,628.00 | 12,746.78 | 11,043.00 | 31.09 | 38.25 | -46.16 | 1,693.53 | -927.72 | 844.58 | 773.43 | 71.15 | 11.871 | |
| 13,400.00 | 11,628.00 | 12,846.78 | 11,043.00 | 32.28 | 39.23 | -46.16 | 1,793.52 | -928.42 | 844.58 | 771.64 | 72.94 | 11.579 | |
| 13,500.00 | 11,628.00 | 12,946.78 | 11,043.00 | 33.48 | 40.23 | -46.16 | 1,893.52 | -929.12 | 844.59 | 769.82 | 74.77 | 11.296 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,600.00 | 11,628.00 | 13,046.78 | 11,043.00 | 34.71 | 41.27 | -46.16 | 1,993.52 | -929.82 | 844.59 | 767.97 | 76.62 | 11.023 | |
| 13,700.00 | 11,628.00 | 13,146.78 | 11,043.00 | 35.95 | 42.32 | -46.16 | 2,093.52 | -930.52 | 844.60 | 766.09 | 78.51 | 10.758 | |
| 13,800.00 | 11,628.00 | 13,246.78 | 11,043.00 | 37.21 | 43.40 | -46.16 | 2,193.51 | -931.23 | 844.61 | 764.19 | 80.41 | 10.503 | |
| 13,900.00 | 11,628.00 | 13,346.78 | 11,043.00 | 38.48 | 44.49 | -46.16 | 2,293.51 | -931.93 | 844.61 | 762.27 | 82.34 | 10.257 | |
| 14,000.00 | 11,628.00 | 13,446.78 | 11,043.00 | 39.76 | 45.61 | -46.16 | 2,393.51 | -932.63 | 844.62 | 760.32 | 84.29 | 10.020 | |
| 14,100.00 | 11,628.00 | 13,546.78 | 11,043.00 | 41.06 | 46.74 | -46.16 | 2,493.51 | -933.33 | 844.63 | 758.36 | 86.27 | 9.791 | |
| 14,200.00 | 11,628.00 | 13,646.78 | 11,043.00 | 42.37 | 47.89 | -46.16 | 2,593.50 | -934.03 | 844.63 | 756.37 | 88.26 | 9.570 | |
| 14,300.00 | 11,628.00 | 13,746.78 | 11,043.00 | 43.68 | 49.05 | -46.16 | 2,693.50 | -934.74 | 844.64 | 754.37 | 90.27 | 9.357 | |
| 14,400.00 | 11,628.00 | 13,846.78 | 11,043.00 | 45.01 | 50.23 | -46.16 | 2,793.50 | -935.44 | 844.64 | 752.35 | 92.29 | 9.152 | |
| 14,500.00 | 11,628.00 | 13,946.78 | 11,043.00 | 46.34 | 51.42 | -46.16 | 2,893.50 | -936.14 | 844.65 | 750.32 | 94.33 | 8.954 | |
| 14,600.00 | 11,628.00 | 14,046.78 | 11,043.00 | 47.68 | 52.63 | -46.16 | 2,993.49 | -936.84 | 844.66 | 748.27 | 96.38 | 8.764 | |
| 14,700.00 | 11,628.00 | 14,146.78 | 11,043.00 | 49.02 | 53.84 | -46.17 | 3,093.49 | -937.54 | 844.66 | 746.21 | 98.45 | 8.580 | |
| 14,800.00 | 11,628.00 | 14,246.78 | 11,043.00 | 50.37 | 55.07 | -46.17 | 3,193.49 | -938.24 | 844.67 | 744.14 | 100.53 | 8.402 | |
| 14,900.00 | 11,628.00 | 14,346.78 | 11,043.00 | 51.73 | 56.31 | -46.17 | 3,293.49 | -938.95 | 844.68 | 742.05 | 102.62 | 8.231 | |
| 15,000.00 | 11,628.00 | 14,446.78 | 11,043.00 | 53.09 | 57.55 | -46.17 | 3,393.48 | -939.65 | 844.68 | 739.96 | 104.73 | 8.066 | |
| 15,100.00 | 11,628.00 | 14,546.78 | 11,043.00 | 54.46 | 58.81 | -46.17 | 3,493.48 | -940.35 | 844.69 | 737.85 | 106.84 | 7.906 | |
| 15,200.00 | 11,628.00 | 14,646.78 | 11,043.00 | 55.83 | 60.07 | -46.17 | 3,593.48 | -941.05 | 844.69 | 735.73 | 108.96 | 7.752 | |
| 15,300.00 | 11,628.00 | 14,746.78 | 11,043.00 | 57.20 | 61.35 | -46.17 | 3,693.48 | -941.75 | 844.70 | 733.61 | 111.09 | 7.603 | |
| 15,400.00 | 11,628.00 | 14,846.78 | 11,043.00 | 58.58 | 62.63 | -46.17 | 3,793.47 | -942.45 | 844.71 | 731.47 | 113.24 | 7.460 | |
| 15,500.00 | 11,628.00 | 14,946.78 | 11,043.00 | 59.96 | 63.91 | -46.17 | 3,893.47 | -943.16 | 844.71 | 729.33 | 115.38 | 7.321 | |
| 15,600.00 | 11,628.00 | 15,046.78 | 11,043.00 | 61.35 | 65.21 | -46.17 | 3,993.47 | -943.86 | 844.72 | 727.18 | 117.54 | 7.187 | |
| 15,700.00 | 11,628.00 | 15,146.78 | 11,043.00 | 62.73 | 66.51 | -46.17 | 4,093.47 | -944.56 | 844.73 | 725.02 | 119.71 | 7.057 | |
| 15,800.00 | 11,628.00 | 15,246.78 | 11,043.00 | 64.12 | 67.81 | -46.17 | 4,193.46 | -945.26 | 844.73 | 722.85 | 121.88 | 6.931 | |
| 15,900.00 | 11,628.00 | 15,346.78 | 11,043.00 | 65.52 | 69.13 | -46.17 | 4,293.46 | -945.96 | 844.74 | 720.68 | 124.06 | 6.809 | |
| 16,000.00 | 11,628.00 | 15,446.78 | 11,043.00 | 66.91 | 70.44 | -46.17 | 4,393.46 | -946.66 | 844.74 | 718.50 | 126.24 | 6.692 | |
| 16,100.00 | 11,628.00 | 15,546.78 | 11,043.00 | 68.31 | 71.76 | -46.17 | 4,493.46 | -947.37 | 844.75 | 716.32 | 128.43 | 6.577 | |
| 16,200.00 | 11,628.00 | 15,646.78 | 11,043.00 | 69.71 | 73.09 | -46.17 | 4,593.45 | -948.07 | 844.76 | 714.13 | 130.63 | 6.467 | |
| 16,300.00 | 11,628.00 | 15,746.78 | 11,043.00 | 71.11 | 74.42 | -46.17 | 4,693.45 | -948.77 | 844.76 | 711.93 | 132.83 | 6.360 | |
| 16,400.00 | 11,628.00 | 15,846.78 | 11,043.00 | 72.51 | 75.76 | -46.17 | 4,793.45 | -949.47 | 844.77 | 709.73 | 135.04 | 6.256 | |
| 16,500.00 | 11,628.00 | 15,946.78 | 11,043.00 | 73.92 | 77.10 | -46.17 | 4,893.45 | -950.17 | 844.78 | 707.53 | 137.25 | 6.155 | |
| 16,600.00 | 11,628.00 | 16,046.78 | 11,043.00 | 75.32 | 78.44 | -46.17 | 4,993.44 | -950.87 | 844.78 | 705.32 | 139.46 | 6.057 | |
| 16,700.00 | 11,628.00 | 16,146.78 | 11,043.00 | 76.73 | 79.79 | -46.17 | 5,093.44 | -951.58 | 844.79 | 703.10 | 141.68 | 5.962 | |
| 16,800.00 | 11,628.00 | 16,246.78 | 11,043.00 | 78.14 | 81.14 | -46.17 | 5,193.44 | -952.28 | 844.80 | 700.89 | 143.91 | 5.870 | |
| 16,900.00 | 11,628.00 | 16,346.78 | 11,043.00 | 79.55 | 82.49 | -46.17 | 5,293.44 | -952.98 | 844.80 | 698.66 | 146.14 | 5.781 | |
| 17,000.00 | 11,628.00 | 16,446.78 | 11,043.00 | 80.96 | 83.85 | -46.17 | 5,393.43 | -953.68 | 844.81 | 696.44 | 148.37 | 5.694 | |
| 17,100.00 | 11,628.00 | 16,546.78 | 11,043.00 | 82.38 | 85.21 | -46.17 | 5,493.43 | -954.38 | 844.81 | 694.21 | 150.61 | 5.609 | |
| 17,200.00 | 11,628.00 | 16,646.78 | 11,043.00 | 83.79 | 86.57 | -46.18 | 5,593.43 | -955.09 | 844.82 | 691.97 | 152.85 | 5.527 | |
| 17,300.00 | 11,628.00 | 16,746.78 | 11,043.00 | 85.21 | 87.94 | -46.18 | 5,693.43 | -955.79 | 844.83 | 689.73 | 155.09 | 5.447 | |
| 17,400.00 | 11,628.00 | 16,846.78 | 11,043.00 | 86.63 | 89.30 | -46.18 | 5,793.42 | -956.49 | 844.83 | 687.49 | 157.34 | 5.370 | |
| 17,500.00 | 11,628.00 | 16,946.78 | 11,043.00 | 88.04 | 90.67 | -46.18 | 5,893.42 | -957.19 | 844.84 | 685.25 | 159.59 | 5.294 | |
| 17,600.00 | 11,628.00 | 17,046.78 | 11,043.00 | 89.46 | 92.05 | -46.18 | 5,993.42 | -957.89 | 844.85 | 683.00 | 161.84 | 5.220 | |
| 17,700.00 | 11,628.00 | 17,146.78 | 11,043.00 | 90.88 | 93.42 | -46.18 | 6,093.42 | -958.59 | 844.85 | 680.76 | 164.10 | 5.149 | |
| 17,800.00 | 11,628.00 | 17,246.78 | 11,043.00 | 92.30 | 94.80 | -46.18 | 6,193.41 | -959.30 | 844.86 | 678.50 | 166.35 | 5.079 | |
| 17,900.00 | 11,628.00 | 17,346.78 | 11,043.00 | 93.72 | 96.18 | -46.18 | 6,293.41 | -960.00 | 844.86 | 676.25 | 168.61 | 5.011 | |
| 18,000.00 | 11,628.00 | 17,446.78 | 11,043.00 | 95.15 | 97.56 | -46.18 | 6,393.41 | -960.70 | 844.87 | 673.99 | 170.88 | 4.944 | |
| 18,100.00 | 11,628.00 | 17,546.78 | 11,043.00 | 96.57 | 98.94 | -46.18 | 6,493.41 | -961.40 | 844.88 | 671.73 | 173.14 | 4.880 | |
| 18,200.00 | 11,628.00 | 17,646.78 | 11,043.00 | 97.99 | 100.33 | -46.18 | 6,593.41 | -962.10 | 844.88 | 669.47 | 175.41 | 4.817 | |
| 18,300.00 | 11,628.00 | 17,746.78 | 11,043.00 | 99.42 | 101.71 | -46.18 | 6,693.40 | -962.80 | 844.89 | 667.21 | 177.68 | 4.755 | |
| 18,400.00 | 11,628.00 | 17,846.78 | 11,043.00 | 100.84 | 103.10 | -46.18 | 6,793.40 | -963.51 | 844.90 | 664.94 | 179.96 | 4.695 | |
| 18,500.00 | 11,628.00 | 17,946.78 | 11,043.00 | 102.27 | 104.49 | -46.18 | 6,893.40 | -964.21 | 844.90 | 662.67 | 182.23 | 4.636 | |
| 18,600.00 | 11,628.00 | 18,046.78 | 11,043.00 | 103.69 | 105.88 | -46.18 | 6,993.40 | -964.91 | 844.91 | 660.40 | 184.51 | 4.579 | |
| 18,700.00 | 11,628.00 | 18,146.78 | 11,043.00 | 105.12 | 107.28 | -46.18 | 7,093.39 | -965.61 | 844.91 | 658.13 | 186.78 | 4.523 | |

CC - Min centre to center distance or covergent 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 803H |
| **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 803H | **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 — **Offset Site Error:** 0.00 usft

**Survey Program:** 0-MWD+HDGM — **Offset Well Error:** 0.00 usft

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18,800.00 | 11,628.00 | 18,246.78 | 11,043.00 | 106.55 | 108.67 | -46.18 | 7,193.39 | -966.31 | 844.92 | 655.86 | 189.07 | 4.469 | |
| 18,900.00 | 11,628.00 | 18,346.78 | 11,043.00 | 107.98 | 110.07 | -46.18 | 7,293.39 | -967.01 | 844.93 | 653.58 | 191.35 | 4.416 | |
| 19,000.00 | 11,628.00 | 18,446.78 | 11,043.00 | 109.41 | 111.46 | -46.18 | 7,393.39 | -967.72 | 844.93 | 651.30 | 193.63 | 4.364 | |
| 19,100.00 | 11,628.00 | 18,546.78 | 11,043.00 | 110.83 | 112.86 | -46.18 | 7,493.38 | -968.42 | 844.94 | 649.02 | 195.92 | 4.313 | |
| 19,200.00 | 11,628.00 | 18,646.78 | 11,043.00 | 112.26 | 114.26 | -46.18 | 7,593.38 | -969.12 | 844.95 | 646.74 | 198.20 | 4.263 | |
| 19,300.00 | 11,628.00 | 18,746.78 | 11,043.00 | 113.69 | 115.66 | -46.18 | 7,693.38 | -969.82 | 844.95 | 644.46 | 200.49 | 4.214 | |
| 19,400.00 | 11,628.00 | 18,846.78 | 11,043.00 | 115.12 | 117.06 | -46.18 | 7,793.38 | -970.52 | 844.96 | 642.17 | 202.78 | 4.167 | |
| 19,500.00 | 11,628.00 | 18,946.78 | 11,043.00 | 116.56 | 118.47 | -46.18 | 7,893.37 | -971.23 | 844.96 | 639.89 | 205.07 | 4.120 | |
| 19,600.00 | 11,628.00 | 19,046.78 | 11,043.00 | 117.99 | 119.87 | -46.19 | 7,993.37 | -971.93 | 844.97 | 637.60 | 207.37 | 4.075 | |
| 19,700.00 | 11,628.00 | 19,146.78 | 11,043.00 | 119.42 | 121.28 | -46.19 | 8,093.37 | -972.63 | 844.98 | 635.31 | 209.66 | 4.030 | |
| 19,800.00 | 11,628.00 | 19,246.78 | 11,043.00 | 120.85 | 122.68 | -46.19 | 8,193.37 | -973.33 | 844.98 | 633.02 | 211.96 | 3.987 | |
| 19,900.00 | 11,628.00 | 19,346.78 | 11,043.00 | 122.28 | 124.09 | -46.19 | 8,293.36 | -974.03 | 844.99 | 630.73 | 214.26 | 3.944 | |
| 20,000.00 | 11,628.00 | 19,446.78 | 11,043.00 | 123.72 | 125.50 | -46.19 | 8,393.36 | -974.73 | 845.00 | 628.44 | 216.55 | 3.902 | |
| 20,100.00 | 11,628.00 | 19,546.78 | 11,043.00 | 125.15 | 126.91 | -46.19 | 8,493.36 | -975.44 | 845.00 | 626.15 | 218.85 | 3.861 | |
| 20,200.00 | 11,628.00 | 19,646.78 | 11,043.00 | 126.58 | 128.32 | -46.19 | 8,593.36 | -976.14 | 845.01 | 623.85 | 221.15 | 3.821 | |
| 20,300.00 | 11,628.00 | 19,746.78 | 11,043.00 | 128.02 | 129.73 | -46.19 | 8,693.35 | -976.84 | 845.01 | 621.56 | 223.46 | 3.782 | |
| 20,400.00 | 11,628.00 | 19,846.78 | 11,043.00 | 129.45 | 131.14 | -46.19 | 8,793.35 | -977.54 | 845.02 | 619.26 | 225.76 | 3.743 | |
| 20,500.00 | 11,628.00 | 19,946.78 | 11,043.00 | 130.88 | 132.55 | -46.19 | 8,893.35 | -978.24 | 845.03 | 616.96 | 228.06 | 3.705 | |
| 20,600.00 | 11,628.00 | 20,046.78 | 11,043.00 | 132.32 | 133.96 | -46.19 | 8,993.35 | -978.94 | 845.03 | 614.67 | 230.37 | 3.668 | |
| 20,700.00 | 11,628.00 | 20,146.78 | 11,043.00 | 133.75 | 135.38 | -46.19 | 9,093.34 | -979.65 | 845.04 | 612.37 | 232.67 | 3.632 | |
| 20,800.00 | 11,628.00 | 20,246.78 | 11,043.00 | 135.19 | 136.79 | -46.19 | 9,193.34 | -980.35 | 845.05 | 610.07 | 234.98 | 3.596 | |
| 20,900.00 | 11,628.00 | 20,346.78 | 11,043.00 | 136.62 | 138.20 | -46.19 | 9,293.34 | -981.05 | 845.05 | 607.76 | 237.29 | 3.561 | |
| 21,000.00 | 11,628.00 | 20,446.78 | 11,043.00 | 138.06 | 139.62 | -46.19 | 9,393.34 | -981.75 | 845.06 | 605.46 | 239.60 | 3.527 | |
| 21,100.00 | 11,628.00 | 20,546.78 | 11,043.00 | 139.50 | 141.04 | -46.19 | 9,493.33 | -982.45 | 845.06 | 603.16 | 241.91 | 3.493 | |
| 21,200.00 | 11,628.00 | 20,646.78 | 11,043.00 | 140.93 | 142.45 | -46.19 | 9,593.33 | -983.15 | 845.07 | 600.85 | 244.22 | 3.460 | |
| 21,300.00 | 11,628.00 | 20,746.78 | 11,043.00 | 142.37 | 143.87 | -46.19 | 9,693.33 | -983.86 | 845.08 | 598.55 | 246.53 | 3.428 | |
| 21,400.00 | 11,628.00 | 20,846.78 | 11,043.00 | 143.80 | 145.29 | -46.19 | 9,793.33 | -984.56 | 845.08 | 596.24 | 248.84 | 3.396 | |
| 21,500.00 | 11,628.00 | 20,946.78 | 11,043.00 | 145.24 | 146.71 | -46.19 | 9,893.32 | -985.26 | 845.09 | 593.94 | 251.15 | 3.365 | |
| 21,600.00 | 11,628.00 | 21,046.78 | 11,043.00 | 146.68 | 148.13 | -46.19 | 9,993.32 | -985.96 | 845.10 | 591.63 | 253.47 | 3.334 | |
| 21,700.00 | 11,628.00 | 21,146.78 | 11,043.00 | 148.12 | 149.55 | -46.19 | 10,093.32 | -986.66 | 845.10 | 589.32 | 255.78 | 3.304 | |
| 21,800.00 | 11,628.00 | 21,246.78 | 11,043.00 | 149.55 | 150.97 | -46.19 | 10,193.32 | -987.36 | 845.11 | 587.01 | 258.10 | 3.274 | |
| 21,800.14 | 11,628.00 | 21,246.92 | 11,043.00 | 149.55 | 150.97 | -46.19 | 10,193.46 | -987.37 | 845.11 | 587.01 | 258.10 | 3.274 | |
| 21,828.09 | 11,628.00 | 21,274.60 | 11,043.00 | 149.90 | 151.36 | -46.19 | 10,221.13 | -987.56 | 845.11 | 586.44 | 258.67 | 3.267 SF | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.36 | -0.94 | -149.97 | 149.97 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | -90.36 | -0.94 | -149.97 | 149.97 | 148.39 | 1.58 | 94.670 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | -90.36 | -0.94 | -149.97 | 149.97 | 147.07 | 2.90 | 51.728 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | -90.36 | -0.94 | -149.97 | 149.97 | 146.18 | 3.79 | 39.583 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | -90.36 | -0.94 | -149.97 | 149.97 | 145.46 | 4.51 | 33.239 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | -90.36 | -0.94 | -149.97 | 149.97 | 144.83 | 5.14 | 29.181 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | -90.36 | -0.94 | -149.97 | 149.97 | 144.27 | 5.70 | 26.298 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | -90.36 | -0.94 | -149.97 | 149.97 | 143.75 | 6.22 | 24.112 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | -90.36 | -0.94 | -149.97 | 149.97 | 143.27 | 6.70 | 22.381 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -0.94 | -149.97 | 149.97 | 141.59 | 8.38 | 17.887 | |
| 1,300.00 | 1,300.00 | 1,300.00 | 1,300.00 | 4.38 | 4.38 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -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 | -90.36 | -0.94 | -149.97 | 149.97 | 138.85 | 11.12 | 13.488 | |
| 2,100.00 | 2,099.99 | 2,099.99 | 2,099.99 | 5.73 | 5.71 | 80.14 | -0.94 | -149.97 | 149.74 | 138.34 | 11.40 | 13.132 | |
| 2,200.00 | 2,199.91 | 2,199.91 | 2,199.91 | 5.88 | 5.86 | 81.63 | -0.94 | -149.97 | 149.12 | 137.46 | 11.66 | 12.791 | |
| 2,300.00 | 2,299.69 | 2,299.69 | 2,299.69 | 6.05 | 6.01 | 84.14 | -0.94 | -149.97 | 148.31 | 136.40 | 11.91 | 12.454 | |
| 2,316.67 | 2,316.30 | 2,316.94 | 2,316.94 | 6.06 | 6.04 | 84.68 | -0.93 | -149.93 | 148.14 | 136.20 | 11.94 | 12.409 | |
| 2,400.00 | 2,399.35 | 2,403.13 | 2,403.12 | 6.20 | 6.19 | 87.60 | -0.70 | -148.60 | 146.41 | 134.25 | 12.17 | 12.035 | |
| 2,500.00 | 2,499.01 | 2,506.28 | 2,506.18 | 6.38 | 6.36 | 91.54 | 0.03 | -144.49 | 142.51 | 130.08 | 12.43 | 11.464 | |
| 2,600.00 | 2,598.66 | 2,608.96 | 2,608.62 | 6.57 | 6.55 | 96.16 | 1.23 | -137.67 | 136.86 | 124.16 | 12.71 | 10.770 | |
| 2,700.00 | 2,698.32 | 2,711.06 | 2,710.27 | 6.79 | 6.76 | 101.74 | 2.88 | -128.21 | 129.84 | 116.85 | 13.00 | 9.990 | |
| 2,716.67 | 2,714.93 | 2,728.06 | 2,727.17 | 6.81 | 6.79 | 102.75 | 3.13 | -126.40 | 128.57 | 115.54 | 13.03 | 9.868 | |
| 2,800.00 | 2,798.00 | 2,812.90 | 2,811.43 | 7.00 | 6.96 | 92.79 | 3.56 | -116.58 | 120.87 | 107.58 | 13.28 | 9.099 | |
| 2,900.00 | 2,897.70 | 2,914.13 | 2,911.76 | 7.23 | 7.18 | 80.51 | 2.31 | -103.13 | 108.30 | 94.67 | 13.62 | 7.950 | |
| 2,949.02 | 2,946.56 | 2,963.41 | 2,960.49 | 7.31 | 7.29 | 75.80 | 1.01 | -95.91 | 100.89 | 87.14 | 13.75 | 7.337 | |
| 3,000.00 | 2,997.36 | 3,014.41 | 3,010.84 | 7.40 | 7.42 | 80.56 | -0.81 | -87.98 | 92.78 | 78.89 | 13.89 | 6.680 | |
| 3,100.00 | 3,097.02 | 3,113.84 | 3,108.70 | 7.63 | 7.67 | 92.64 | -5.75 | -71.17 | 77.24 | 62.97 | 14.27 | 5.413 | |
| 3,200.00 | 3,196.68 | 3,212.33 | 3,205.23 | 7.88 | 7.94 | 110.31 | -12.45 | -52.76 | 64.22 | 49.47 | 14.75 | 4.353 | |
| 3,300.00 | 3,296.33 | 3,309.16 | 3,299.76 | 8.13 | 8.17 | 134.17 | -20.40 | -33.36 | 58.40 | 43.00 | 15.40 | 3.792 | CC |
| 3,304.45 | 3,300.77 | 3,313.45 | 3,303.94 | 8.14 | 8.18 | 135.30 | -20.76 | -32.50 | 58.41 | 42.97 | 15.43 | 3.784 | ES |
| 3,400.00 | 3,395.99 | 3,405.50 | 3,393.79 | 8.40 | 8.46 | 158.05 | -28.41 | -13.96 | 64.16 | 48.04 | 16.12 | 3.980 | |
| 3,500.00 | 3,495.65 | 3,501.85 | 3,487.82 | 8.67 | 8.76 | 175.74 | -36.42 | 5.44 | 79.12 | 62.42 | 16.69 | 4.739 | |
| 3,600.00 | 3,595.30 | 3,598.19 | 3,581.85 | 8.96 | 9.08 | -172.72 | -44.43 | 24.84 | 99.18 | 81.99 | 17.19 | 5.769 | |
| 3,700.00 | 3,694.96 | 3,694.54 | 3,675.88 | 9.25 | 9.41 | -165.17 | -52.43 | 44.24 | 121.87 | 104.18 | 17.68 | 6.892 | |
| 3,800.00 | 3,794.62 | 3,790.88 | 3,769.91 | 9.54 | 9.74 | -160.00 | -60.44 | 63.64 | 145.95 | 127.76 | 18.19 | 8.023 | |
| 3,900.00 | 3,894.27 | 3,887.22 | 3,863.94 | 9.84 | 10.09 | -156.31 | -68.45 | 83.03 | 170.84 | 152.12 | 18.72 | 9.126 | |
| 4,000.00 | 3,993.93 | 3,983.57 | 3,957.97 | 10.15 | 10.45 | -153.55 | -76.46 | 102.43 | 196.23 | 176.97 | 19.27 | 10.184 | |
| 4,100.00 | 4,093.59 | 4,079.91 | 4,052.00 | 10.47 | 10.82 | -151.43 | -84.47 | 121.83 | 221.96 | 202.12 | 19.83 | 11.190 | |
| 4,200.00 | 4,193.24 | 4,176.25 | 4,146.03 | 10.78 | 11.19 | -149.75 | -92.48 | 141.23 | 247.91 | 227.49 | 20.42 | 12.143 | |
| 4,300.00 | 4,292.90 | 4,272.60 | 4,240.06 | 11.11 | 11.57 | -148.38 | -100.49 | 160.63 | 274.02 | 253.01 | 21.01 | 13.043 | |
| 4,400.00 | 4,392.56 | 4,368.94 | 4,334.09 | 11.43 | 11.96 | -147.26 | -108.49 | 180.03 | 300.25 | 278.64 | 21.61 | 13.891 | |
| 4,500.00 | 4,492.21 | 4,465.29 | 4,428.12 | 11.76 | 12.35 | -146.31 | -116.50 | 199.43 | 326.57 | 304.34 | 22.23 | 14.690 | |
| 4,600.00 | 4,591.87 | 4,561.63 | 4,522.15 | 12.10 | 12.74 | -145.50 | -124.51 | 218.83 | 352.97 | 330.11 | 22.86 | 15.444 | |
| 4,700.00 | 4,691.53 | 4,657.97 | 4,616.18 | 12.43 | 13.14 | -144.81 | -132.52 | 238.22 | 379.42 | 355.93 | 23.49 | 16.153 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,800.00 | 4,791.18 | 4,754.32 | 4,710.21 | 12.77 | 13.55 | -144.21 | -140.53 | 257.62 | 405.91 | 381.78 | 24.13 | 16.822 | |
| 4,900.00 | 4,890.84 | 4,850.66 | 4,804.24 | 13.11 | 13.95 | -143.68 | -148.54 | 277.02 | 432.44 | 407.67 | 24.78 | 17.453 | |
| 5,000.00 | 4,990.50 | 4,947.00 | 4,898.27 | 13.45 | 14.37 | -143.21 | -156.54 | 296.42 | 459.01 | 433.58 | 25.43 | 18.049 | |
| 5,100.00 | 5,090.15 | 5,046.67 | 4,995.57 | 13.80 | 14.79 | -142.78 | -164.79 | 316.40 | 485.51 | 459.40 | 26.11 | 18.594 | |
| 5,200.00 | 5,189.81 | 5,156.86 | 5,103.60 | 14.15 | 15.26 | -142.46 | -173.05 | 336.41 | 510.17 | 483.28 | 26.88 | 18.978 | |
| 5,300.00 | 5,289.47 | 5,268.52 | 5,213.68 | 14.50 | 15.74 | -142.31 | -180.21 | 353.74 | 532.21 | 504.57 | 27.65 | 19.251 | |
| 5,400.00 | 5,389.12 | 5,381.50 | 5,325.56 | 14.85 | 16.20 | -142.29 | -186.19 | 368.24 | 551.59 | 523.20 | 28.39 | 19.427 | |
| 5,500.00 | 5,488.78 | 5,495.62 | 5,438.98 | 15.20 | 16.65 | -142.41 | -190.96 | 379.78 | 568.26 | 539.14 | 29.12 | 19.517 | |
| 5,600.00 | 5,588.43 | 5,610.68 | 5,553.68 | 15.55 | 17.07 | -142.64 | -194.45 | 388.23 | 582.18 | 552.37 | 29.81 | 19.532 | |
| 5,615.36 | 5,603.74 | 5,628.42 | 5,571.38 | 15.60 | 17.13 | -142.69 | -194.87 | 389.25 | 584.07 | 554.17 | 29.90 | 19.534 | |
| 5,700.00 | 5,688.16 | 5,726.59 | 5,669.44 | 15.90 | 17.45 | -143.01 | -196.63 | 393.52 | 592.59 | 562.15 | 30.44 | 19.469 | |
| 5,800.00 | 5,788.05 | 5,843.20 | 5,786.03 | 16.23 | 17.72 | -143.30 | -197.47 | 395.56 | 598.15 | 567.22 | 30.93 | 19.338 | |
| 5,900.00 | 5,888.02 | 5,945.19 | 5,888.02 | 16.50 | 17.77 | -143.44 | -197.48 | 395.58 | 599.89 | 568.69 | 31.20 | 19.226 | |
| 5,931.98 | 5,920.00 | 5,977.17 | 5,920.00 | 16.53 | 17.79 | 89.64 | -197.48 | 395.58 | 600.00 | 568.76 | 31.24 | 19.204 | |
| 6,000.00 | 5,988.02 | 6,045.19 | 5,988.02 | 16.55 | 17.82 | 89.64 | -197.48 | 395.58 | 600.00 | 568.71 | 31.29 | 19.173 | |
| 6,100.00 | 6,088.02 | 6,145.19 | 6,088.02 | 16.59 | 17.86 | 89.64 | -197.48 | 395.58 | 600.00 | 568.61 | 31.39 | 19.114 | |
| 6,200.00 | 6,188.02 | 6,245.19 | 6,188.02 | 16.63 | 17.91 | 89.64 | -197.48 | 395.58 | 600.00 | 568.51 | 31.49 | 19.055 | |
| 6,300.00 | 6,288.02 | 6,345.19 | 6,288.02 | 16.68 | 17.96 | 89.64 | -197.48 | 395.58 | 600.00 | 568.42 | 31.58 | 18.997 | |
| 6,400.00 | 6,388.02 | 6,445.19 | 6,388.02 | 16.72 | 18.01 | 89.64 | -197.48 | 395.58 | 600.00 | 568.32 | 31.68 | 18.938 | |
| 6,500.00 | 6,488.02 | 6,545.19 | 6,488.02 | 16.76 | 18.05 | 89.64 | -197.48 | 395.58 | 600.00 | 568.22 | 31.78 | 18.879 | |
| 6,600.00 | 6,588.02 | 6,645.19 | 6,588.02 | 16.81 | 18.10 | 89.64 | -197.48 | 395.58 | 600.00 | 568.12 | 31.88 | 18.820 | |
| 6,700.00 | 6,688.02 | 6,745.19 | 6,688.02 | 16.85 | 18.15 | 89.64 | -197.48 | 395.58 | 600.00 | 568.02 | 31.98 | 18.762 | |
| 6,800.00 | 6,788.02 | 6,845.19 | 6,788.02 | 16.90 | 18.20 | 89.64 | -197.48 | 395.58 | 600.00 | 567.92 | 32.08 | 18.703 | |
| 6,900.00 | 6,888.02 | 6,945.19 | 6,888.02 | 16.94 | 18.25 | 89.64 | -197.48 | 395.58 | 600.00 | 567.82 | 32.18 | 18.645 | |
| 7,000.00 | 6,988.02 | 7,045.19 | 6,988.02 | 16.99 | 18.29 | 89.64 | -197.48 | 395.58 | 600.00 | 567.72 | 32.28 | 18.586 | |
| 7,100.00 | 7,088.02 | 7,145.19 | 7,088.02 | 17.03 | 18.34 | 89.64 | -197.48 | 395.58 | 600.00 | 567.62 | 32.38 | 18.528 | |
| 7,200.00 | 7,188.02 | 7,245.19 | 7,188.02 | 17.08 | 18.39 | 89.64 | -197.48 | 395.58 | 600.00 | 567.52 | 32.49 | 18.469 | |
| 7,300.00 | 7,288.02 | 7,345.19 | 7,288.02 | 17.12 | 18.44 | 89.64 | -197.48 | 395.58 | 600.00 | 567.41 | 32.59 | 18.411 | |
| 7,400.00 | 7,388.02 | 7,445.19 | 7,388.02 | 17.17 | 18.49 | 89.64 | -197.48 | 395.58 | 600.00 | 567.31 | 32.69 | 18.353 | |
| 7,500.00 | 7,488.02 | 7,545.19 | 7,488.02 | 17.21 | 18.54 | 89.64 | -197.48 | 395.58 | 600.00 | 567.21 | 32.80 | 18.295 | |
| 7,600.00 | 7,588.02 | 7,645.19 | 7,588.02 | 17.26 | 18.59 | 89.64 | -197.48 | 395.58 | 600.00 | 567.10 | 32.90 | 18.237 | |
| 7,700.00 | 7,688.02 | 7,745.19 | 7,688.02 | 17.31 | 18.64 | 89.64 | -197.48 | 395.58 | 600.00 | 567.00 | 33.00 | 18.179 | |
| 7,800.00 | 7,788.02 | 7,845.19 | 7,788.02 | 17.35 | 18.69 | 89.64 | -197.48 | 395.58 | 600.00 | 566.89 | 33.11 | 18.121 | |
| 7,900.00 | 7,888.02 | 7,945.19 | 7,888.02 | 17.40 | 18.74 | 89.64 | -197.48 | 395.58 | 600.00 | 566.79 | 33.22 | 18.064 | |
| 8,000.00 | 7,988.02 | 8,045.19 | 7,988.02 | 17.45 | 18.80 | 89.64 | -197.48 | 395.58 | 600.00 | 566.68 | 33.32 | 18.006 | |
| 8,100.00 | 8,088.02 | 8,145.19 | 8,088.02 | 17.50 | 18.85 | 89.64 | -197.48 | 395.58 | 600.00 | 566.57 | 33.43 | 17.949 | |
| 8,200.00 | 8,188.02 | 8,245.19 | 8,188.02 | 17.54 | 18.90 | 89.64 | -197.48 | 395.58 | 600.00 | 566.47 | 33.54 | 17.892 | |
| 8,300.00 | 8,288.02 | 8,345.19 | 8,288.02 | 17.59 | 18.95 | 89.64 | -197.48 | 395.58 | 600.00 | 566.36 | 33.64 | 17.834 | |
| 8,400.00 | 8,388.02 | 8,445.19 | 8,388.02 | 17.64 | 19.00 | 89.64 | -197.48 | 395.58 | 600.00 | 566.25 | 33.75 | 17.777 | |
| 8,500.00 | 8,488.02 | 8,545.19 | 8,488.02 | 17.69 | 19.05 | 89.64 | -197.48 | 395.58 | 600.00 | 566.14 | 33.86 | 17.720 | |
| 8,600.00 | 8,588.02 | 8,645.19 | 8,588.02 | 17.74 | 19.11 | 89.64 | -197.48 | 395.58 | 600.00 | 566.03 | 33.97 | 17.664 | |
| 8,700.00 | 8,688.02 | 8,745.19 | 8,688.02 | 17.79 | 19.16 | 89.64 | -197.48 | 395.58 | 600.00 | 565.92 | 34.08 | 17.607 | |
| 8,800.00 | 8,788.02 | 8,845.19 | 8,788.02 | 17.84 | 19.21 | 89.64 | -197.48 | 395.58 | 600.00 | 565.81 | 34.19 | 17.550 | |
| 8,900.00 | 8,888.02 | 8,945.19 | 8,888.02 | 17.89 | 19.27 | 89.64 | -197.48 | 395.58 | 600.00 | 565.70 | 34.30 | 17.494 | |
| 9,000.00 | 8,988.02 | 9,045.19 | 8,988.02 | 17.94 | 19.32 | 89.64 | -197.48 | 395.58 | 600.00 | 565.59 | 34.41 | 17.438 | |
| 9,100.00 | 9,088.02 | 9,145.19 | 9,088.02 | 17.99 | 19.37 | 89.64 | -197.48 | 395.58 | 600.00 | 565.48 | 34.52 | 17.382 | |
| 9,200.00 | 9,188.02 | 9,245.19 | 9,188.02 | 18.04 | 19.43 | 89.64 | -197.48 | 395.58 | 600.00 | 565.37 | 34.63 | 17.326 | |
| 9,300.00 | 9,288.02 | 9,345.19 | 9,288.02 | 18.09 | 19.48 | 89.64 | -197.48 | 395.58 | 600.00 | 565.26 | 34.74 | 17.270 | |
| 9,400.00 | 9,388.02 | 9,445.19 | 9,388.02 | 18.14 | 19.53 | 89.64 | -197.48 | 395.58 | 600.00 | 565.15 | 34.85 | 17.215 | |
| 9,500.00 | 9,488.02 | 9,545.19 | 9,488.02 | 18.19 | 19.59 | 89.64 | -197.48 | 395.58 | 600.00 | 565.03 | 34.97 | 17.159 | |
| 9,600.00 | 9,588.02 | 9,645.19 | 9,588.02 | 18.24 | 19.64 | 89.64 | -197.48 | 395.58 | 600.00 | 564.92 | 35.08 | 17.104 | |
| 9,700.00 | 9,688.02 | 9,745.19 | 9,688.02 | 18.29 | 19.70 | 89.64 | -197.48 | 395.58 | 600.00 | 564.81 | 35.19 | 17.049 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9,800.00 | 9,788.02 | 9,845.19 | 9,788.02 | 18.34 | 19.75 | 89.64 | -197.48 | 395.58 | 600.00 | 564.69 | 35.31 | 16.994 | |
| 9,900.00 | 9,888.02 | 9,945.19 | 9,888.02 | 18.39 | 19.81 | 89.64 | -197.48 | 395.58 | 600.00 | 564.58 | 35.42 | 16.939 | |
| 10,000.00 | 9,988.02 | 10,045.19 | 9,988.02 | 18.45 | 19.86 | 89.64 | -197.48 | 395.58 | 600.00 | 564.47 | 35.54 | 16.884 | |
| 10,100.00 | 10,088.02 | 10,145.19 | 10,088.02 | 18.50 | 19.92 | 89.64 | -197.48 | 395.58 | 600.00 | 564.35 | 35.65 | 16.830 | |
| 10,200.00 | 10,188.02 | 10,245.19 | 10,188.02 | 18.55 | 19.97 | 89.64 | -197.48 | 395.58 | 600.00 | 564.24 | 35.77 | 16.776 | |
| 10,300.00 | 10,288.02 | 10,345.19 | 10,288.02 | 18.60 | 20.03 | 89.64 | -197.48 | 395.58 | 600.00 | 564.12 | 35.88 | 16.722 | |
| 10,400.00 | 10,388.02 | 10,445.19 | 10,388.02 | 18.66 | 20.08 | 89.64 | -197.48 | 395.58 | 600.00 | 564.00 | 36.00 | 16.668 | |
| 10,491.81 | 10,479.83 | 10,537.01 | 10,479.83 | 18.71 | 20.12 | 89.60 | -197.03 | 395.58 | 600.00 | 563.91 | 36.10 | 16.622 | |
| 10,500.00 | 10,488.02 | 10,545.19 | 10,488.00 | 18.71 | 20.12 | 89.56 | -196.64 | 395.57 | 600.00 | 563.90 | 36.11 | 16.618 | |
| 10,600.00 | 10,588.02 | 10,643.08 | 10,584.82 | 18.76 | 20.07 | 88.26 | -183.05 | 395.48 | 600.17 | 563.92 | 36.25 | 16.554 | |
| 10,700.00 | 10,688.02 | 10,733.94 | 10,671.42 | 18.82 | 20.00 | 85.67 | -155.87 | 395.29 | 601.64 | 565.16 | 36.48 | 16.492 | |
| 10,800.00 | 10,788.02 | 10,814.55 | 10,743.81 | 18.87 | 19.95 | 82.33 | -120.55 | 395.04 | 606.47 | 569.67 | 36.80 | 16.481 | |
| 10,900.00 | 10,888.02 | 10,883.94 | 10,801.64 | 18.92 | 19.92 | 78.77 | -82.27 | 394.77 | 616.95 | 579.72 | 37.23 | 16.572 | |
| 11,000.00 | 10,988.02 | 10,942.67 | 10,846.67 | 18.98 | 19.90 | 75.34 | -44.61 | 394.50 | 634.99 | 597.19 | 37.80 | 16.799 | |
| 11,067.02 | 11,055.04 | 10,976.70 | 10,870.91 | 19.00 | 19.90 | 73.22 | -20.75 | 394.34 | 651.90 | 613.64 | 38.26 | 17.039 | |
| 11,100.00 | 11,088.00 | 11,000.00 | 10,886.68 | 18.99 | 19.90 | 78.80 | -3.59 | 394.22 | 661.62 | 623.15 | 38.46 | 17.201 | |
| 11,150.00 | 11,137.73 | 11,016.50 | 10,897.42 | 18.95 | 19.91 | 76.24 | 8.94 | 394.13 | 677.28 | 638.42 | 38.86 | 17.430 | |
| 11,200.00 | 11,186.83 | 11,040.56 | 10,912.42 | 18.88 | 19.92 | 73.26 | 27.75 | 394.00 | 694.01 | 654.79 | 39.22 | 17.693 | |
| 11,250.00 | 11,234.93 | 11,064.66 | 10,926.64 | 18.82 | 19.94 | 70.36 | 47.20 | 393.86 | 711.41 | 671.81 | 39.60 | 17.966 | |
| 11,300.00 | 11,281.65 | 11,088.79 | 10,940.04 | 18.75 | 19.96 | 67.57 | 67.27 | 393.72 | 729.15 | 689.18 | 39.97 | 18.241 | |
| 11,350.00 | 11,326.65 | 11,112.96 | 10,952.61 | 18.68 | 19.98 | 64.93 | 87.90 | 393.57 | 746.97 | 706.62 | 40.35 | 18.511 | |
| 11,400.00 | 11,369.59 | 11,137.14 | 10,964.30 | 18.61 | 20.02 | 62.46 | 109.07 | 393.42 | 764.62 | 723.89 | 40.73 | 18.773 | |
| 11,450.00 | 11,410.13 | 11,150.00 | 10,970.15 | 18.55 | 20.03 | 60.47 | 120.52 | 393.34 | 782.03 | 740.88 | 41.15 | 19.006 | |
| 11,500.00 | 11,447.97 | 11,185.55 | 10,984.97 | 18.51 | 20.10 | 58.12 | 152.83 | 393.12 | 798.54 | 757.07 | 41.47 | 19.255 | |
| 11,550.00 | 11,482.82 | 11,200.00 | 10,990.42 | 18.48 | 20.12 | 56.42 | 166.21 | 393.02 | 814.56 | 772.70 | 41.86 | 19.461 | |
| 11,600.00 | 11,514.41 | 11,234.00 | 11,001.89 | 18.48 | 20.21 | 54.59 | 198.21 | 392.80 | 829.45 | 787.27 | 42.18 | 19.665 | |
| 11,650.00 | 11,542.51 | 11,250.00 | 11,006.63 | 18.49 | 20.24 | 53.22 | 213.49 | 392.69 | 843.49 | 800.97 | 42.52 | 19.836 | |
| 11,700.00 | 11,566.90 | 11,282.48 | 11,014.92 | 18.53 | 20.34 | 51.88 | 244.89 | 392.47 | 856.25 | 813.41 | 42.83 | 19.990 | |
| 11,750.00 | 11,587.39 | 11,300.00 | 11,018.65 | 18.61 | 20.39 | 50.84 | 262.01 | 392.35 | 867.90 | 824.76 | 43.13 | 20.121 | |
| 11,800.00 | 11,603.83 | 11,330.98 | 11,023.96 | 18.71 | 20.50 | 49.93 | 292.52 | 392.13 | 878.14 | 834.71 | 43.42 | 20.223 | |
| 11,850.00 | 11,616.09 | 11,350.00 | 11,026.41 | 18.85 | 20.57 | 49.22 | 311.38 | 392.00 | 887.09 | 843.42 | 43.68 | 20.310 | |
| 11,900.00 | 11,624.08 | 11,379.48 | 11,028.95 | 19.02 | 20.69 | 48.70 | 340.75 | 391.79 | 894.57 | 850.63 | 43.94 | 20.360 | |
| 11,950.00 | 11,627.75 | 11,403.73 | 11,029.90 | 19.22 | 20.79 | 48.34 | 364.97 | 391.62 | 900.63 | 856.47 | 44.16 | 20.394 | |
| 11,967.02 | 11,628.00 | 11,414.22 | 11,030.00 | 19.30 | 20.84 | 48.27 | 375.46 | 391.55 | 902.36 | 858.13 | 44.23 | 20.401 | |
| 12,000.00 | 11,628.00 | 11,442.36 | 11,030.00 | 19.46 | 20.97 | 48.46 | 403.61 | 391.35 | 905.48 | 861.07 | 44.41 | 20.388 | |
| 12,100.00 | 11,628.00 | 11,541.82 | 11,030.00 | 20.02 | 21.50 | 48.99 | 503.07 | 390.65 | 913.27 | 868.13 | 45.14 | 20.230 | |
| 12,200.00 | 11,628.00 | 11,641.58 | 11,030.00 | 20.65 | 22.10 | 49.34 | 602.82 | 389.95 | 918.47 | 872.45 | 46.02 | 19.959 | |
| 12,300.00 | 11,628.00 | 11,741.52 | 11,030.00 | 21.34 | 22.78 | 49.51 | 702.76 | 389.25 | 921.04 | 874.02 | 47.02 | 19.589 | |
| 12,347.17 | 11,628.00 | 11,788.68 | 11,030.00 | 21.68 | 23.11 | 49.53 | 749.92 | 388.91 | 921.33 | 873.81 | 47.52 | 19.388 | |
| 12,400.00 | 11,628.00 | 11,841.52 | 11,030.00 | 22.07 | 23.52 | 49.53 | 802.75 | 388.54 | 921.33 | 873.21 | 48.11 | 19.149 | |
| 12,500.00 | 11,628.00 | 11,941.52 | 11,030.00 | 22.87 | 24.31 | 49.53 | 902.75 | 387.84 | 921.32 | 872.01 | 49.31 | 18.683 | |
| 12,600.00 | 11,628.00 | 12,041.52 | 11,030.00 | 23.73 | 25.17 | 49.53 | 1,002.75 | 387.13 | 921.31 | 870.71 | 50.60 | 18.207 | |
| 12,700.00 | 11,628.00 | 12,141.52 | 11,030.00 | 24.65 | 26.07 | 49.53 | 1,102.75 | 386.43 | 921.30 | 869.33 | 51.97 | 17.727 | |
| 12,800.00 | 11,628.00 | 12,241.52 | 11,030.00 | 25.62 | 27.01 | 49.53 | 1,202.74 | 385.73 | 921.30 | 867.88 | 53.42 | 17.246 | |
| 12,900.00 | 11,628.00 | 12,341.52 | 11,030.00 | 26.64 | 28.00 | 49.53 | 1,302.74 | 385.02 | 921.29 | 866.35 | 54.94 | 16.770 | |
| 13,000.00 | 11,628.00 | 12,441.52 | 11,030.00 | 27.71 | 29.02 | 49.53 | 1,402.74 | 384.32 | 921.28 | 864.76 | 56.52 | 16.300 | |
| 13,100.00 | 11,628.00 | 12,541.52 | 11,030.00 | 28.80 | 30.08 | 49.53 | 1,502.74 | 383.62 | 921.27 | 863.11 | 58.16 | 15.840 | |
| 13,200.00 | 11,628.00 | 12,641.52 | 11,030.00 | 29.93 | 31.17 | 49.53 | 1,602.73 | 382.91 | 921.26 | 861.41 | 59.86 | 15.391 | |
| 13,300.00 | 11,628.00 | 12,741.52 | 11,030.00 | 31.09 | 32.28 | 49.53 | 1,702.73 | 382.21 | 921.25 | 859.65 | 61.60 | 14.955 | |
| 13,400.00 | 11,628.00 | 12,841.52 | 11,030.00 | 32.28 | 33.42 | 49.52 | 1,802.73 | 381.51 | 921.25 | 857.85 | 63.39 | 14.532 | |
| 13,500.00 | 11,628.00 | 12,941.52 | 11,030.00 | 33.48 | 34.58 | 49.52 | 1,902.73 | 380.80 | 921.24 | 856.01 | 65.23 | 14.123 | |
| 13,600.00 | 11,628.00 | 13,041.52 | 11,030.00 | 34.71 | 35.77 | 49.52 | 2,002.72 | 380.10 | 921.23 | 854.13 | 67.10 | 13.729 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,700.00 | 11,628.00 | 13,141.52 | 11,030.00 | 35.95 | 36.97 | 49.52 | 2,102.72 | 379.39 | 921.22 | 852.22 | 69.01 | 13.350 | |
| 13,800.00 | 11,628.00 | 13,241.52 | 11,030.00 | 37.21 | 38.18 | 49.52 | 2,202.72 | 378.69 | 921.21 | 850.27 | 70.95 | 12.984 | |
| 13,900.00 | 11,628.00 | 13,341.52 | 11,030.00 | 38.48 | 39.42 | 49.52 | 2,302.72 | 377.99 | 921.21 | 848.29 | 72.92 | 12.634 | |
| 14,000.00 | 11,628.00 | 13,441.52 | 11,030.00 | 39.76 | 40.66 | 49.52 | 2,402.71 | 377.28 | 921.20 | 846.29 | 74.91 | 12.297 | |
| 14,100.00 | 11,628.00 | 13,541.52 | 11,030.00 | 41.06 | 41.92 | 49.52 | 2,502.71 | 376.58 | 921.19 | 844.26 | 76.94 | 11.974 | |
| 14,200.00 | 11,628.00 | 13,641.52 | 11,030.00 | 42.37 | 43.19 | 49.52 | 2,602.71 | 375.88 | 921.18 | 842.20 | 78.98 | 11.663 | |
| 14,300.00 | 11,628.00 | 13,741.52 | 11,030.00 | 43.68 | 44.47 | 49.52 | 2,702.71 | 375.17 | 921.17 | 840.13 | 81.05 | 11.366 | |
| 14,400.00 | 11,628.00 | 13,841.52 | 11,030.00 | 45.01 | 45.77 | 49.52 | 2,802.70 | 374.47 | 921.17 | 838.03 | 83.13 | 11.081 | |
| 14,500.00 | 11,628.00 | 13,941.52 | 11,030.00 | 46.34 | 47.07 | 49.52 | 2,902.70 | 373.77 | 921.16 | 835.92 | 85.24 | 10.807 | |
| 14,600.00 | 11,628.00 | 14,041.52 | 11,030.00 | 47.68 | 48.37 | 49.52 | 3,002.70 | 373.06 | 921.15 | 833.79 | 87.36 | 10.544 | |
| 14,700.00 | 11,628.00 | 14,141.52 | 11,030.00 | 49.02 | 49.69 | 49.52 | 3,102.70 | 372.36 | 921.14 | 831.65 | 89.50 | 10.293 | |
| 14,800.00 | 11,628.00 | 14,241.52 | 11,030.00 | 50.37 | 51.01 | 49.52 | 3,202.69 | 371.65 | 921.13 | 829.49 | 91.65 | 10.051 | |
| 14,900.00 | 11,628.00 | 14,341.52 | 11,030.00 | 51.73 | 52.34 | 49.52 | 3,302.69 | 370.95 | 921.13 | 827.31 | 93.81 | 9.819 | |
| 15,000.00 | 11,628.00 | 14,441.52 | 11,030.00 | 53.09 | 53.68 | 49.52 | 3,402.69 | 370.25 | 921.12 | 825.13 | 95.99 | 9.596 | |
| 15,100.00 | 11,628.00 | 14,541.52 | 11,030.00 | 54.46 | 55.02 | 49.52 | 3,502.69 | 369.54 | 921.11 | 822.93 | 98.18 | 9.382 | |
| 15,200.00 | 11,628.00 | 14,641.52 | 11,030.00 | 55.83 | 56.37 | 49.52 | 3,602.68 | 368.84 | 921.10 | 820.72 | 100.38 | 9.176 | |
| 15,300.00 | 11,628.00 | 14,741.52 | 11,030.00 | 57.20 | 57.72 | 49.52 | 3,702.68 | 368.14 | 921.09 | 818.50 | 102.59 | 8.978 | |
| 15,400.00 | 11,628.00 | 14,841.52 | 11,030.00 | 58.58 | 59.08 | 49.52 | 3,802.68 | 367.43 | 921.09 | 816.27 | 104.81 | 8.788 | |
| 15,500.00 | 11,628.00 | 14,941.52 | 11,030.00 | 59.96 | 60.44 | 49.52 | 3,902.68 | 366.73 | 921.08 | 814.04 | 107.04 | 8.605 | |
| 15,600.00 | 11,628.00 | 15,041.52 | 11,030.00 | 61.35 | 61.80 | 49.52 | 4,002.67 | 366.03 | 921.07 | 811.79 | 109.28 | 8.428 | |
| 15,700.00 | 11,628.00 | 15,141.52 | 11,030.00 | 62.73 | 63.17 | 49.52 | 4,102.67 | 365.32 | 921.06 | 809.53 | 111.53 | 8.259 | |
| 15,800.00 | 11,628.00 | 15,241.52 | 11,030.00 | 64.12 | 64.54 | 49.51 | 4,202.67 | 364.62 | 921.05 | 807.27 | 113.78 | 8.095 | |
| 15,900.00 | 11,628.00 | 15,341.52 | 11,030.00 | 65.52 | 65.91 | 49.51 | 4,302.67 | 363.91 | 921.05 | 805.00 | 116.04 | 7.937 | |
| 16,000.00 | 11,628.00 | 15,441.52 | 11,030.00 | 66.91 | 67.29 | 49.51 | 4,402.66 | 363.21 | 921.04 | 802.73 | 118.31 | 7.785 | |
| 16,100.00 | 11,628.00 | 15,541.52 | 11,030.00 | 68.31 | 68.67 | 49.51 | 4,502.66 | 362.51 | 921.03 | 800.45 | 120.58 | 7.638 | |
| 16,200.00 | 11,628.00 | 15,641.52 | 11,030.00 | 69.71 | 70.06 | 49.51 | 4,602.66 | 361.80 | 921.02 | 798.16 | 122.86 | 7.496 | |
| 16,300.00 | 11,628.00 | 15,741.52 | 11,030.00 | 71.11 | 71.44 | 49.51 | 4,702.66 | 361.10 | 921.01 | 795.87 | 125.15 | 7.359 | |
| 16,400.00 | 11,628.00 | 15,841.52 | 11,030.00 | 72.51 | 72.83 | 49.51 | 4,802.65 | 360.40 | 921.01 | 793.57 | 127.44 | 7.227 | |
| 16,500.00 | 11,628.00 | 15,941.52 | 11,030.00 | 73.92 | 74.22 | 49.51 | 4,902.65 | 359.69 | 921.00 | 791.27 | 129.73 | 7.099 | |
| 16,600.00 | 11,628.00 | 16,041.52 | 11,030.00 | 75.32 | 75.61 | 49.51 | 5,002.65 | 358.99 | 920.99 | 788.96 | 132.03 | 6.976 | |
| 16,700.00 | 11,628.00 | 16,141.52 | 11,030.00 | 76.73 | 77.01 | 49.51 | 5,102.65 | 358.29 | 920.98 | 786.65 | 134.34 | 6.856 | |
| 16,800.00 | 11,628.00 | 16,241.52 | 11,030.00 | 78.14 | 78.40 | 49.51 | 5,202.64 | 357.58 | 920.97 | 784.33 | 136.65 | 6.740 | |
| 16,900.00 | 11,628.00 | 16,341.52 | 11,030.00 | 79.55 | 79.80 | 49.51 | 5,302.64 | 356.88 | 920.97 | 782.01 | 138.96 | 6.628 | |
| 17,000.00 | 11,628.00 | 16,441.52 | 11,030.00 | 80.96 | 81.20 | 49.51 | 5,402.64 | 356.17 | 920.96 | 779.68 | 141.27 | 6.519 | |
| 17,100.00 | 11,628.00 | 16,541.52 | 11,030.00 | 82.38 | 82.60 | 49.51 | 5,502.64 | 355.47 | 920.95 | 777.36 | 143.59 | 6.414 | |
| 17,200.00 | 11,628.00 | 16,641.52 | 11,030.00 | 83.79 | 84.01 | 49.51 | 5,602.63 | 354.77 | 920.94 | 775.02 | 145.92 | 6.311 | |
| 17,300.00 | 11,628.00 | 16,741.52 | 11,030.00 | 85.21 | 85.41 | 49.51 | 5,702.63 | 354.06 | 920.93 | 772.69 | 148.24 | 6.212 | |
| 17,400.00 | 11,628.00 | 16,841.52 | 11,030.00 | 86.63 | 86.82 | 49.51 | 5,802.63 | 353.36 | 920.93 | 770.35 | 150.57 | 6.116 | |
| 17,500.00 | 11,628.00 | 16,941.52 | 11,030.00 | 88.04 | 88.22 | 49.51 | 5,902.63 | 352.66 | 920.92 | 768.01 | 152.91 | 6.023 | |
| 17,600.00 | 11,628.00 | 17,041.52 | 11,030.00 | 89.46 | 89.63 | 49.51 | 6,002.62 | 351.95 | 920.91 | 765.67 | 155.24 | 5.932 | |
| 17,700.00 | 11,628.00 | 17,141.52 | 11,030.00 | 90.88 | 91.04 | 49.51 | 6,102.62 | 351.25 | 920.90 | 763.32 | 157.58 | 5.844 | |
| 17,800.00 | 11,628.00 | 17,241.52 | 11,030.00 | 92.30 | 92.45 | 49.51 | 6,202.62 | 350.55 | 920.89 | 760.97 | 159.92 | 5.758 | |
| 17,900.00 | 11,628.00 | 17,341.52 | 11,030.00 | 93.72 | 93.87 | 49.51 | 6,302.62 | 349.84 | 920.89 | 758.62 | 162.27 | 5.675 | |
| 18,000.00 | 11,628.00 | 17,441.52 | 11,030.00 | 95.15 | 95.28 | 49.51 | 6,402.62 | 349.14 | 920.88 | 756.26 | 164.61 | 5.594 | |
| 18,100.00 | 11,628.00 | 17,541.52 | 11,030.00 | 96.57 | 96.69 | 49.50 | 6,502.61 | 348.43 | 920.87 | 753.91 | 166.96 | 5.515 | |
| 18,200.00 | 11,628.00 | 17,641.52 | 11,030.00 | 97.99 | 98.11 | 49.50 | 6,602.61 | 347.73 | 920.86 | 751.55 | 169.31 | 5.439 | |
| 18,300.00 | 11,628.00 | 17,741.52 | 11,030.00 | 99.42 | 99.52 | 49.50 | 6,702.61 | 347.03 | 920.85 | 749.19 | 171.66 | 5.364 | |
| 18,400.00 | 11,628.00 | 17,841.52 | 11,030.00 | 100.84 | 100.94 | 49.50 | 6,802.61 | 346.32 | 920.85 | 746.83 | 174.02 | 5.292 | |
| 18,500.00 | 11,628.00 | 17,941.52 | 11,030.00 | 102.27 | 102.36 | 49.50 | 6,902.60 | 345.62 | 920.84 | 744.46 | 176.38 | 5.221 | |
| 18,600.00 | 11,628.00 | 18,041.52 | 11,030.00 | 103.69 | 103.78 | 49.50 | 7,002.60 | 344.92 | 920.83 | 742.10 | 178.73 | 5.152 | |
| 18,700.00 | 11,628.00 | 18,141.52 | 11,030.00 | 105.12 | 105.20 | 49.50 | 7,102.60 | 344.21 | 920.82 | 739.73 | 181.09 | 5.085 | |
| 18,800.00 | 11,628.00 | 18,241.52 | 11,030.00 | 106.55 | 106.62 | 49.50 | 7,202.60 | 343.51 | 920.81 | 737.36 | 183.46 | 5.019 | |

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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18,900.00 | 11,628.00 | 18,341.52 | 11,030.00 | 107.98 | 108.04 | 49.50 | 7,302.59 | 342.81 | 920.81 | 734.99 | 185.82 | 4.955 | |
| 19,000.00 | 11,628.00 | 18,441.52 | 11,030.00 | 109.41 | 109.46 | 49.50 | 7,402.59 | 342.10 | 920.80 | 732.61 | 188.18 | 4.893 | |
| 19,100.00 | 11,628.00 | 18,541.52 | 11,030.00 | 110.83 | 110.88 | 49.50 | 7,502.59 | 341.40 | 920.79 | 730.24 | 190.55 | 4.832 | |
| 19,200.00 | 11,628.00 | 18,641.52 | 11,030.00 | 112.26 | 112.31 | 49.50 | 7,602.59 | 340.69 | 920.78 | 727.86 | 192.92 | 4.773 | |
| 19,300.00 | 11,628.00 | 18,741.52 | 11,030.00 | 113.69 | 113.73 | 49.50 | 7,702.58 | 339.99 | 920.77 | 725.48 | 195.29 | 4.715 | |
| 19,400.00 | 11,628.00 | 18,841.52 | 11,030.00 | 115.12 | 115.15 | 49.50 | 7,802.58 | 339.29 | 920.77 | 723.10 | 197.66 | 4.658 | |
| 19,500.00 | 11,628.00 | 18,941.52 | 11,030.00 | 116.56 | 116.58 | 49.50 | 7,902.58 | 338.58 | 920.76 | 720.72 | 200.03 | 4.603 | |
| 19,600.00 | 11,628.00 | 19,041.52 | 11,030.00 | 117.99 | 118.00 | 49.50 | 8,002.58 | 337.88 | 920.75 | 718.34 | 202.41 | 4.549 | |
| 19,700.00 | 11,628.00 | 19,141.52 | 11,030.00 | 119.42 | 119.43 | 49.50 | 8,102.57 | 337.18 | 920.74 | 715.96 | 204.78 | 4.496 | |
| 19,800.00 | 11,628.00 | 19,241.52 | 11,030.00 | 120.85 | 120.86 | 49.50 | 8,202.57 | 336.47 | 920.73 | 713.58 | 207.16 | 4.445 | |
| 19,900.00 | 11,628.00 | 19,341.52 | 11,030.00 | 122.28 | 122.28 | 49.50 | 8,302.57 | 335.77 | 920.72 | 711.19 | 209.53 | 4.394 | |
| 20,000.00 | 11,628.00 | 19,441.52 | 11,030.00 | 123.72 | 123.71 | 49.50 | 8,402.57 | 335.07 | 920.72 | 708.81 | 211.91 | 4.345 | |
| 20,100.00 | 11,628.00 | 19,541.52 | 11,030.00 | 125.15 | 125.14 | 49.50 | 8,502.56 | 334.36 | 920.71 | 706.42 | 214.29 | 4.297 | |
| 20,200.00 | 11,628.00 | 19,641.52 | 11,030.00 | 126.58 | 126.57 | 49.50 | 8,602.56 | 333.66 | 920.70 | 704.03 | 216.67 | 4.249 | |
| 20,300.00 | 11,628.00 | 19,741.52 | 11,030.00 | 128.02 | 127.99 | 49.50 | 8,702.56 | 332.95 | 920.69 | 701.64 | 219.05 | 4.203 | |
| 20,400.00 | 11,628.00 | 19,841.52 | 11,030.00 | 129.45 | 129.42 | 49.49 | 8,802.56 | 332.25 | 920.68 | 699.25 | 221.43 | 4.158 | |
| 20,500.00 | 11,628.00 | 19,941.52 | 11,030.00 | 130.88 | 130.85 | 49.49 | 8,902.55 | 331.55 | 920.68 | 696.86 | 223.82 | 4.114 | |
| 20,600.00 | 11,628.00 | 20,041.52 | 11,030.00 | 132.32 | 132.28 | 49.49 | 9,002.55 | 330.84 | 920.67 | 694.47 | 226.20 | 4.070 | |
| 20,700.00 | 11,628.00 | 20,141.52 | 11,030.00 | 133.75 | 133.71 | 49.49 | 9,102.55 | 330.14 | 920.66 | 692.07 | 228.59 | 4.028 | |
| 20,800.00 | 11,628.00 | 20,241.52 | 11,030.00 | 135.19 | 135.14 | 49.49 | 9,202.55 | 329.44 | 920.65 | 689.68 | 230.97 | 3.986 | |
| 20,900.00 | 11,628.00 | 20,341.52 | 11,030.00 | 136.62 | 136.57 | 49.49 | 9,302.54 | 328.73 | 920.64 | 687.29 | 233.36 | 3.945 | |
| 21,000.00 | 11,628.00 | 20,441.52 | 11,030.00 | 138.06 | 138.01 | 49.49 | 9,402.54 | 328.03 | 920.64 | 684.89 | 235.75 | 3.905 | |
| 21,100.00 | 11,628.00 | 20,541.52 | 11,030.00 | 139.50 | 139.44 | 49.49 | 9,502.54 | 327.33 | 920.63 | 682.50 | 238.13 | 3.866 | |
| 21,200.00 | 11,628.00 | 20,641.52 | 11,030.00 | 140.93 | 140.87 | 49.49 | 9,602.54 | 326.62 | 920.62 | 680.10 | 240.52 | 3.828 | |
| 21,300.00 | 11,628.00 | 20,741.52 | 11,030.00 | 142.37 | 142.30 | 49.49 | 9,702.53 | 325.92 | 920.61 | 677.70 | 242.91 | 3.790 | |
| 21,400.00 | 11,628.00 | 20,841.52 | 11,030.00 | 143.80 | 143.73 | 49.49 | 9,802.53 | 325.21 | 920.60 | 675.30 | 245.30 | 3.753 | |
| 21,500.00 | 11,628.00 | 20,941.52 | 11,030.00 | 145.24 | 145.17 | 49.49 | 9,902.53 | 324.51 | 920.60 | 672.90 | 247.69 | 3.717 | |
| 21,600.00 | 11,628.00 | 21,041.52 | 11,030.00 | 146.68 | 146.60 | 49.49 | 10,002.53 | 323.81 | 920.59 | 670.50 | 250.08 | 3.681 | |
| 21,700.00 | 11,628.00 | 21,141.52 | 11,030.00 | 148.12 | 148.03 | 49.49 | 10,102.52 | 323.10 | 920.58 | 668.10 | 252.48 | 3.646 | |
| 21,800.00 | 11,628.00 | 21,241.52 | 11,030.00 | 149.55 | 149.47 | 49.49 | 10,202.52 | 322.40 | 920.57 | 665.70 | 254.87 | 3.612 | |
| 21,828.09 | 11,628.00 | 21,269.60 | 11,030.00 | 149.90 | 149.87 | 49.49 | 10,230.60 | 322.20 | 920.57 | 665.10 | 255.47 | 3.603 SF | |

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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

| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset 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) | Rule Assigned: Distance Between Centres (usft) | Distance 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 | 25.00 | 25.00 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.79 | 0.79 | 89.63 | 0.16 | 25.00 | 25.00 | 23.42 | 1.58 | 15.782 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 1.45 | 1.45 | 89.63 | 0.16 | 25.00 | 25.00 | 22.10 | 2.90 | 8.623 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 1.89 | 1.89 | 89.63 | 0.16 | 25.00 | 25.00 | 21.21 | 3.79 | 6.599 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 2.26 | 2.26 | 89.63 | 0.16 | 25.00 | 25.00 | 20.49 | 4.51 | 5.541 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 2.57 | 2.57 | 89.63 | 0.16 | 25.00 | 25.00 | 19.86 | 5.14 | 4.864 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.85 | 2.85 | 89.63 | 0.16 | 25.00 | 25.00 | 19.30 | 5.70 | 4.384 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 3.11 | 3.11 | 89.63 | 0.16 | 25.00 | 25.00 | 18.78 | 6.22 | 4.020 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 3.35 | 3.35 | 89.63 | 0.16 | 25.00 | 25.00 | 18.30 | 6.70 | 3.731 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.58 | 3.58 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 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 | 89.63 | 0.16 | 25.00 | 25.00 | 13.88 | 11.12 | 2.248 | CC, ES, SF |
| 2,100.00 | 2,099.99 | 2,099.33 | 2,099.32 | 5.73 | 5.73 | -102.55 | -0.09 | 26.27 | 26.53 | 15.11 | 11.42 | 2.323 | |
| 2,200.00 | 2,199.91 | 2,198.46 | 2,198.37 | 5.88 | 5.91 | -107.79 | -0.83 | 30.06 | 31.31 | 19.62 | 11.69 | 2.678 | |
| 2,300.00 | 2,299.69 | 2,297.20 | 2,296.90 | 6.05 | 6.09 | -113.60 | -2.06 | 36.34 | 39.65 | 27.68 | 11.97 | 3.313 | |
| 2,316.67 | 2,316.30 | 2,313.60 | 2,313.25 | 6.06 | 6.13 | -114.49 | -2.31 | 37.63 | 41.40 | 29.40 | 12.00 | 3.450 | |
| 2,400.00 | 2,399.35 | 2,395.43 | 2,394.72 | 6.20 | 6.30 | -117.73 | -3.77 | 45.07 | 51.31 | 39.06 | 12.25 | 4.190 | |
| 2,500.00 | 2,499.01 | 2,493.14 | 2,491.77 | 6.38 | 6.52 | -119.19 | -5.94 | 56.20 | 65.33 | 52.77 | 12.56 | 5.203 | |
| 2,600.00 | 2,598.66 | 2,590.21 | 2,587.87 | 6.57 | 6.77 | -119.22 | -8.58 | 69.66 | 81.54 | 68.65 | 12.88 | 6.329 | |
| 2,700.00 | 2,698.32 | 2,686.53 | 2,682.84 | 6.79 | 7.04 | -118.51 | -11.65 | 85.39 | 99.90 | 86.67 | 13.23 | 7.550 | |
| 2,716.67 | 2,714.93 | 2,702.50 | 2,698.55 | 6.81 | 7.08 | -118.35 | -12.21 | 88.22 | 103.17 | 89.90 | 13.27 | 7.773 | |
| 2,800.00 | 2,798.00 | 2,783.50 | 2,778.11 | 7.00 | 7.27 | -132.54 | -15.12 | 103.11 | 120.58 | 107.01 | 13.57 | 8.887 | |
| 2,900.00 | 2,897.70 | 2,880.83 | 2,873.71 | 7.23 | 7.55 | -150.22 | -18.63 | 121.06 | 143.16 | 129.16 | 14.00 | 10.226 | |
| 2,949.02 | 2,946.56 | 2,928.37 | 2,920.40 | 7.31 | 7.69 | -158.09 | -20.34 | 129.83 | 154.90 | 140.71 | 14.19 | 10.913 | |
| 3,000.00 | 2,997.36 | 2,977.74 | 2,968.89 | 7.40 | 7.84 | -157.17 | -22.12 | 138.93 | 167.37 | 152.97 | 14.40 | 11.621 | |
| 3,100.00 | 3,097.02 | 3,074.58 | 3,064.01 | 7.63 | 8.14 | -155.73 | -25.62 | 156.79 | 191.92 | 177.03 | 14.89 | 12.890 | |
| 3,200.00 | 3,196.68 | 3,171.42 | 3,159.12 | 7.88 | 8.46 | -154.61 | -29.11 | 174.65 | 216.56 | 201.16 | 15.40 | 14.065 | |
| 3,300.00 | 3,296.33 | 3,268.26 | 3,254.24 | 8.13 | 8.79 | -153.72 | -32.60 | 192.50 | 241.26 | 225.34 | 15.93 | 15.149 | |
| 3,400.00 | 3,395.99 | 3,365.10 | 3,349.35 | 8.40 | 9.14 | -153.00 | -36.10 | 210.36 | 266.01 | 249.54 | 16.47 | 16.148 | |
| 3,500.00 | 3,495.65 | 3,461.94 | 3,444.46 | 8.67 | 9.49 | -152.40 | -39.59 | 228.22 | 290.79 | 273.75 | 17.04 | 17.068 | |
| 3,600.00 | 3,595.30 | 3,558.78 | 3,539.58 | 8.96 | 9.84 | -151.89 | -43.08 | 246.08 | 315.60 | 297.98 | 17.62 | 17.914 | |
| 3,700.00 | 3,694.96 | 3,655.62 | 3,634.69 | 9.25 | 10.21 | -151.46 | -46.58 | 263.94 | 340.42 | 322.21 | 18.21 | 18.694 | |
| 3,800.00 | 3,794.62 | 3,752.46 | 3,729.81 | 9.54 | 10.58 | -151.08 | -50.07 | 281.80 | 365.26 | 346.45 | 18.82 | 19.412 | |
| 3,900.00 | 3,894.27 | 3,849.30 | 3,824.92 | 9.84 | 10.96 | -150.76 | -53.56 | 299.66 | 390.12 | 370.68 | 19.43 | 20.074 | |
| 4,000.00 | 3,993.93 | 3,946.14 | 3,920.04 | 10.15 | 11.34 | -150.47 | -57.05 | 317.51 | 414.98 | 394.92 | 20.06 | 20.685 | |
| 4,100.00 | 4,093.59 | 4,042.98 | 4,015.15 | 10.47 | 11.73 | -150.21 | -60.55 | 335.37 | 439.85 | 419.15 | 20.70 | 21.250 | |
| 4,200.00 | 4,193.24 | 4,139.82 | 4,110.27 | 10.78 | 12.12 | -149.99 | -64.04 | 353.23 | 464.73 | 443.39 | 21.35 | 21.772 | |
| 4,300.00 | 4,292.90 | 4,236.66 | 4,205.38 | 11.11 | 12.52 | -149.78 | -67.53 | 371.09 | 489.62 | 467.62 | 22.00 | 22.256 | |
| 4,400.00 | 4,392.56 | 4,333.50 | 4,300.50 | 11.43 | 12.92 | -149.60 | -71.03 | 388.95 | 514.51 | 491.85 | 22.66 | 22.705 | |
| 4,500.00 | 4,492.21 | 4,430.34 | 4,395.61 | 11.76 | 13.32 | -149.43 | -74.52 | 406.81 | 539.41 | 516.08 | 23.33 | 23.122 | |
| 4,600.00 | 4,591.87 | 4,527.18 | 4,490.73 | 12.10 | 13.73 | -149.28 | -78.01 | 424.67 | 564.31 | 540.30 | 24.00 | 23.509 | |
| 4,700.00 | 4,691.53 | 4,624.02 | 4,585.84 | 12.43 | 14.14 | -149.14 | -81.51 | 442.52 | 589.21 | 564.53 | 24.68 | 23.871 | |
| 4,800.00 | 4,791.18 | 4,720.86 | 4,680.96 | 12.77 | 14.55 | -149.01 | -85.00 | 460.38 | 614.12 | 588.75 | 25.37 | 24.208 | |

CC - Min centre to center distance or covergent 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 803H |
| **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 803H | **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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

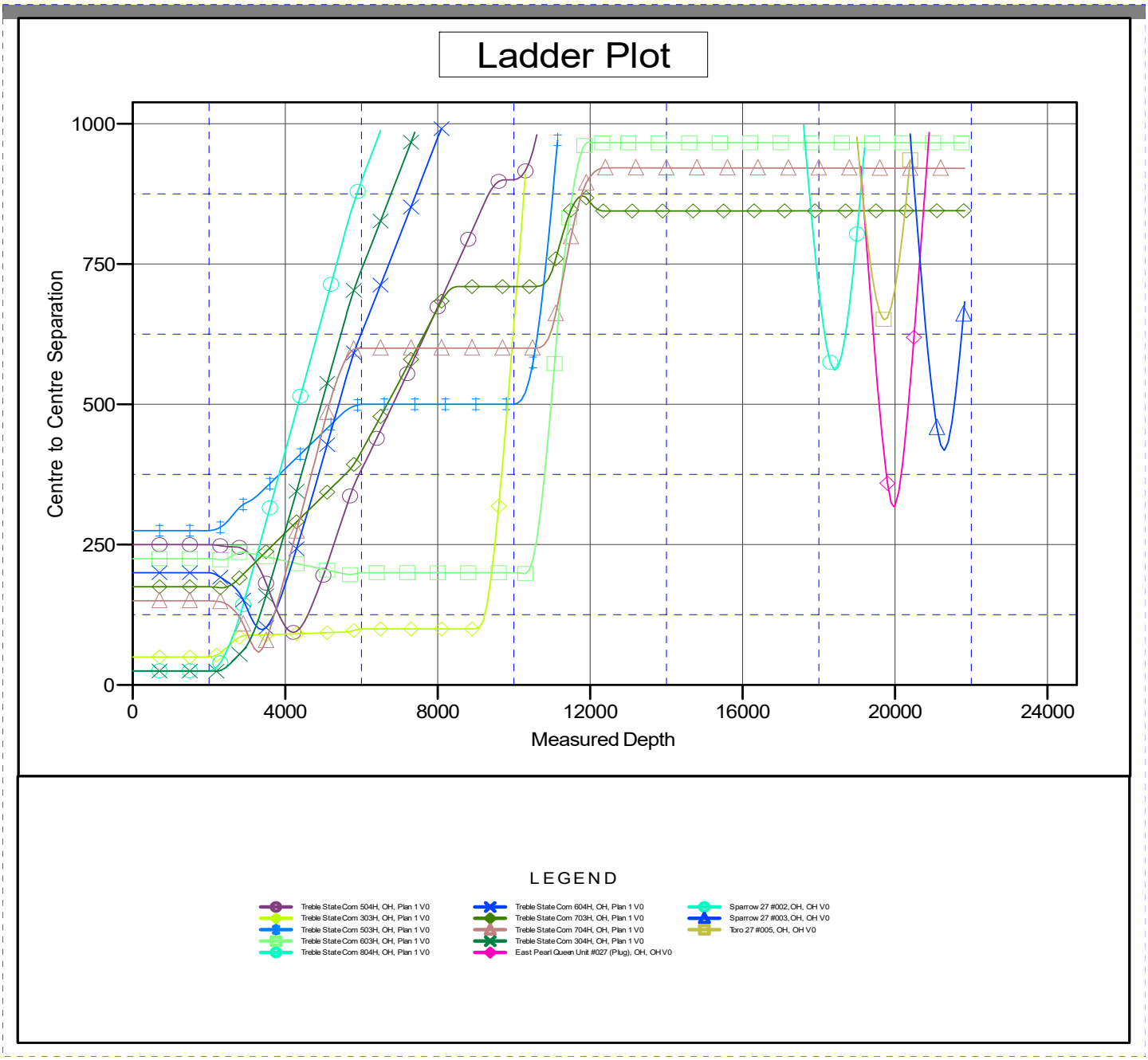
| Reference Measured Depth (usft) | Reference Vertical Depth (usft) | Offset Measured Depth (usft) | Offset Vertical Depth (usft) | Semi Major Axis Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,900.00 | 4,890.84 | 4,817.70 | 4,776.07 | 13.11 | 14.96 | -148.89 | -88.49 | 478.24 | 639.02 | 612.97 | 26.06 | 24.522 | |
| 5,000.00 | 4,990.50 | 4,914.53 | 4,871.19 | 13.45 | 15.38 | -148.78 | -91.98 | 496.10 | 663.94 | 637.18 | 26.75 | 24.817 | |
| 5,100.00 | 5,090.15 | 5,011.37 | 4,966.30 | 13.80 | 15.79 | -148.68 | -95.48 | 513.96 | 688.85 | 661.40 | 27.45 | 25.092 | |
| 5,200.00 | 5,189.81 | 5,108.21 | 5,061.42 | 14.15 | 16.21 | -148.58 | -98.97 | 531.82 | 713.77 | 685.61 | 28.16 | 25.351 | |
| 5,300.00 | 5,289.47 | 5,205.05 | 5,156.53 | 14.50 | 16.63 | -148.49 | -102.46 | 549.67 | 738.68 | 709.82 | 28.86 | 25.594 | |
| 5,400.00 | 5,389.12 | 5,301.89 | 5,251.65 | 14.85 | 17.05 | -148.41 | -105.96 | 567.53 | 763.60 | 734.03 | 29.57 | 25.822 | |
| 5,500.00 | 5,488.78 | 5,398.73 | 5,346.76 | 15.20 | 17.48 | -148.33 | -109.45 | 585.39 | 788.52 | 758.24 | 30.28 | 26.038 | |
| 5,600.00 | 5,588.43 | 5,495.57 | 5,441.88 | 15.55 | 17.90 | -148.26 | -112.94 | 603.25 | 813.44 | 782.44 | 31.00 | 26.240 | |
| 5,615.36 | 5,603.74 | 5,510.45 | 5,456.48 | 15.60 | 17.97 | -148.25 | -113.48 | 605.99 | 817.27 | 786.17 | 31.10 | 26.276 | |
| 5,700.00 | 5,688.16 | 5,592.60 | 5,537.17 | 15.90 | 18.33 | -148.32 | -116.44 | 621.14 | 837.59 | 805.88 | 31.71 | 26.414 | |
| 5,800.00 | 5,788.05 | 5,690.11 | 5,632.94 | 16.23 | 18.76 | -148.31 | -119.96 | 639.12 | 859.61 | 827.20 | 32.40 | 26.529 | |
| 5,900.00 | 5,888.02 | 5,788.03 | 5,729.12 | 16.50 | 19.19 | -148.20 | -123.49 | 657.18 | 879.45 | 846.40 | 33.05 | 26.609 | |
| 5,931.98 | 5,920.00 | 5,819.42 | 5,759.96 | 16.53 | 19.33 | 84.95 | -124.62 | 662.97 | 885.35 | 852.14 | 33.21 | 26.659 | |
| 6,000.00 | 5,988.02 | 5,886.23 | 5,825.57 | 16.55 | 19.63 | 85.18 | -127.03 | 675.29 | 897.65 | 864.13 | 33.51 | 26.785 | |
| 6,100.00 | 6,088.02 | 5,984.45 | 5,922.04 | 16.59 | 20.07 | 85.50 | -130.58 | 693.41 | 915.76 | 881.78 | 33.98 | 26.947 | |
| 6,200.00 | 6,188.02 | 6,082.67 | 6,018.51 | 16.63 | 20.50 | 85.81 | -134.12 | 711.52 | 933.90 | 899.44 | 34.46 | 27.104 | |
| 6,300.00 | 6,288.02 | 6,180.89 | 6,114.98 | 16.68 | 20.94 | 86.11 | -137.66 | 729.63 | 952.06 | 917.13 | 34.93 | 27.256 | |
| 6,400.00 | 6,388.02 | 6,279.11 | 6,211.45 | 16.72 | 21.38 | 86.39 | -141.20 | 747.74 | 970.25 | 934.84 | 35.41 | 27.402 | |
| 6,500.00 | 6,488.02 | 6,377.32 | 6,307.92 | 16.76 | 21.82 | 86.67 | -144.75 | 765.86 | 988.46 | 952.57 | 35.89 | 27.544 | |

# Altitude Energy Partners
## Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **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 803H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.48°




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

FRANKLIN MOUNTAIN ENERGY

# Altitude Energy Partners

## Anticollision Report

ALTITUDE ENERGY PARTNERS

| | | | |
|---|---|---|---|
| **Company:** | Franklin Mountain Energy | **Local Co-ordinate Reference:** | Well Treble State Com 803H |
| **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 803H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 usft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | OH | **Database:** | DM Local |
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